

File Names

| File # | Original File Name |
|--------|--|
| 1 | PAC2001_CONV_SML_PART-CNT+O3_FL-01_PR-03_20010814_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 |
|--------------------------------|---|---|---|---|
| NARSTO 2002/05/28 (2.301) | Li ; Dr. Shao-Meng | Air Quality Research Branch, Meteorological Service of Canada | Aerosol_size+O3 ; Aerosol elemental size distribution and ozone | 1 second |

| Sampling Frequency Of Data in Main Table | Quality Control Level | Organization Acronym | Organization Name | Data Usage Acknowledgement | Study Or Network Acronym |
|--|-----------------------|----------------------|--------------------|---|--------------------------|
| Same as sampling interval | 1 | ENVCAN | Environment Canada | Meteorological Service of Canada, Environment Canada, 4905 Dufferin St., Toronto, Ont. Canada M3H 5T4 | PAC2001 |

| Study Or Network Name | Country Code | State Or Province Code | Principal Investigator Contact Information | Co-investigator Name--last first | Co-investigator Affiliation |
|-----------------------|--------------|------------------------|--|----------------------------------|---|
| PACIFIC 2001 | CA (CANADA) | BC | Dr. Shao-Meng Li, 4905 Dufferin St., Toronto ON, CANADA, M3H 5T4 Shao-Meng.Li@ec.gc.ca | None ; None | Air Quality Research Branch, Meteorological Service of Canada |

| 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 |
|--|---|---|
| Greg Skelton, SKELTON TECHNICAL SERVICES INC | 2003/09/19 | Excel/2000 |

| 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 |
|---|---|---|--|
| PAC2001_AIRCRAFT_REPORT.zip ; Adobe Acrobat 4.0 | 2004/07/19 ; 1 | Zero values for particle count measurements represent actual values | Information not available |

| Table Explanation Of Reported Uncertainty | Table User Note | Table User Note2 | Table User Note3 | Table User Note4 | Table Name | Table Focus |
|---|-----------------|------------------|------------------|------------------|-----------------------|-----------------|
| Information not available | None | None | | | Aerosol_size_distr+O3 | Aloft--aircraft |

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 |
|--------------|-------------|------------------------|--------------------------|---------------------------|-------------------------------------|---|---------------|
| PC01CABCABTF | Abbotsford | BC | 49.02347 | -122.34375 | . | 72 | . |
| PC01CABCCONV | Convair 580 | BC | -99.99999 | -99.99999 | . | -99.9 | . |

| Site ID | site_location_setting | Measurement start date | Measurement end date | Co-incident measurements | Study site ID | Lat lon accuracy |
|--------------|-----------------------|------------------------|----------------------|-----------------------------|---------------|---------------------|
| PC01CABCABTF | . | 2001/08/14 | 2001/08/30 | | | . |
| PC01CABCCONV | . | 2001/08/14 | 2001/08/30 | | | . |

NARSTO Standard Flags

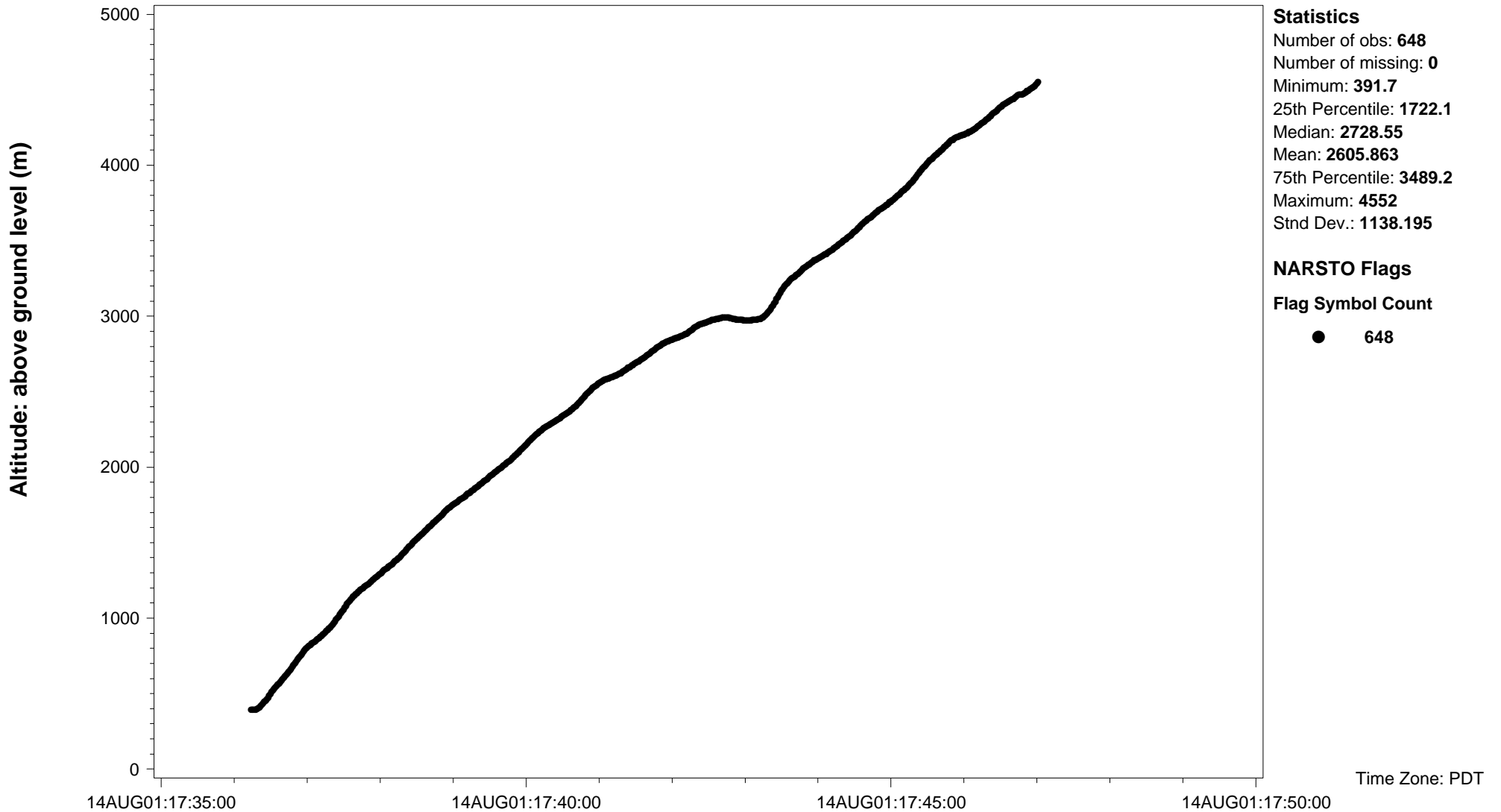
| Flag: NARSTO | Description |
|--------------|--|
| M1 | Missing value because no value is available |
| M2 | Missing value because invalidated by data originator |
| V0 | Valid value |

NAtChem Time Series Plot

24SEP2004

Site ID: **PC01CABCCONV** Variable name: **Altitude: above ground level** Units: **m** Sampling interval: **1 second**
Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data** Field sampling or measurement principle: **Radar**
Sampling Height above ground (m): **Varies--see variable Alti** Instrument name and model number: **Information not available**
Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **35 m**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



NAtChem Time Series Plot

24SEP2004

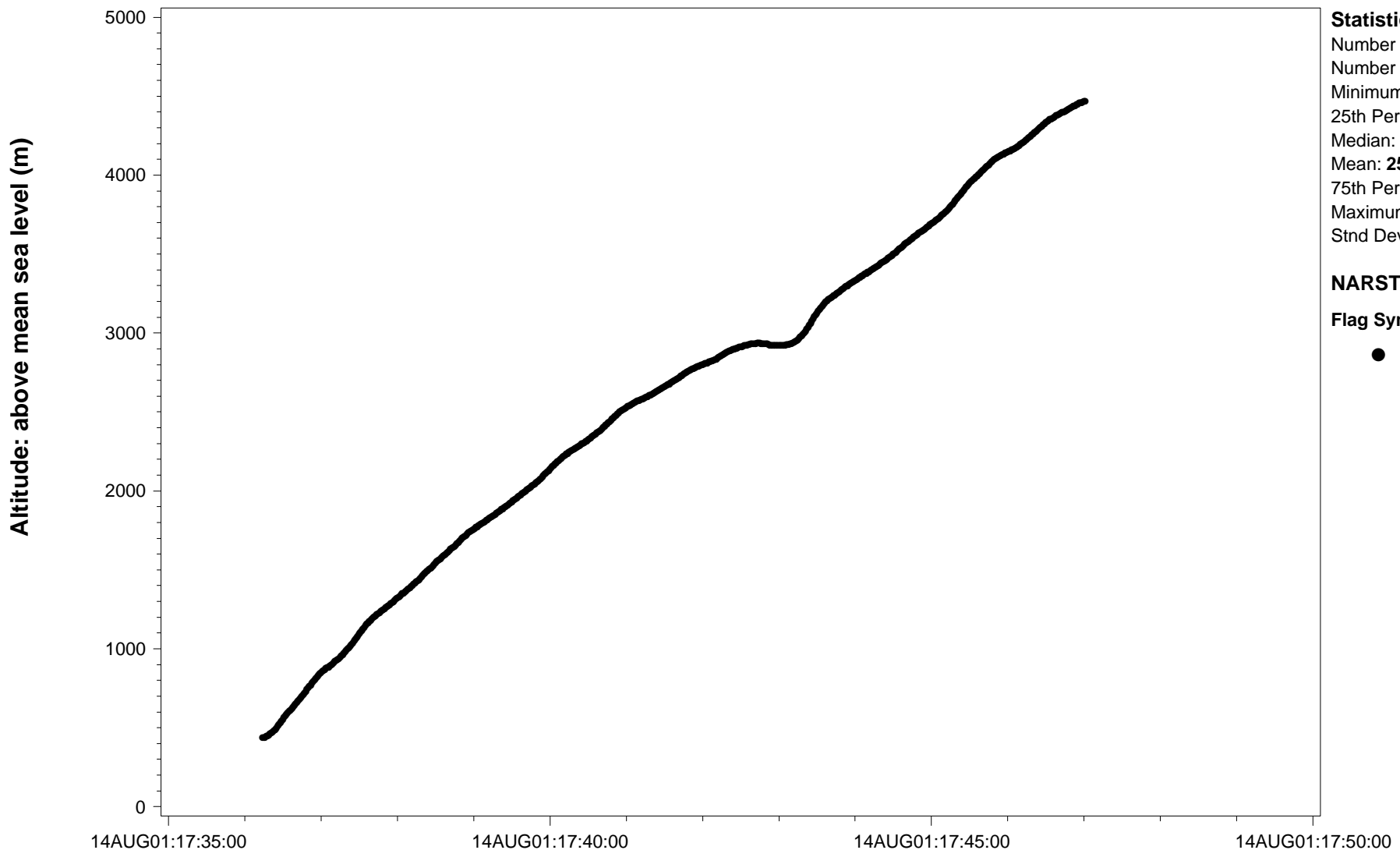
Site ID: **PC01CABCCONV** Variable name: **Altitude: above mean sea level** Units: **m** Sampling interval: **1 second**

Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data**

Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti**

Instrument name and model number: **Information not available** Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **35 m**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Statistics

Number of obs: **648**
Number of missing: **0**
Minimum: **438**
25th Percentile: **1730.5**
Median: **2696**
Mean: **2584.519**
75th Percentile: **3435.5**
Maximum: **4466**
Std Dev.: **1101.842**

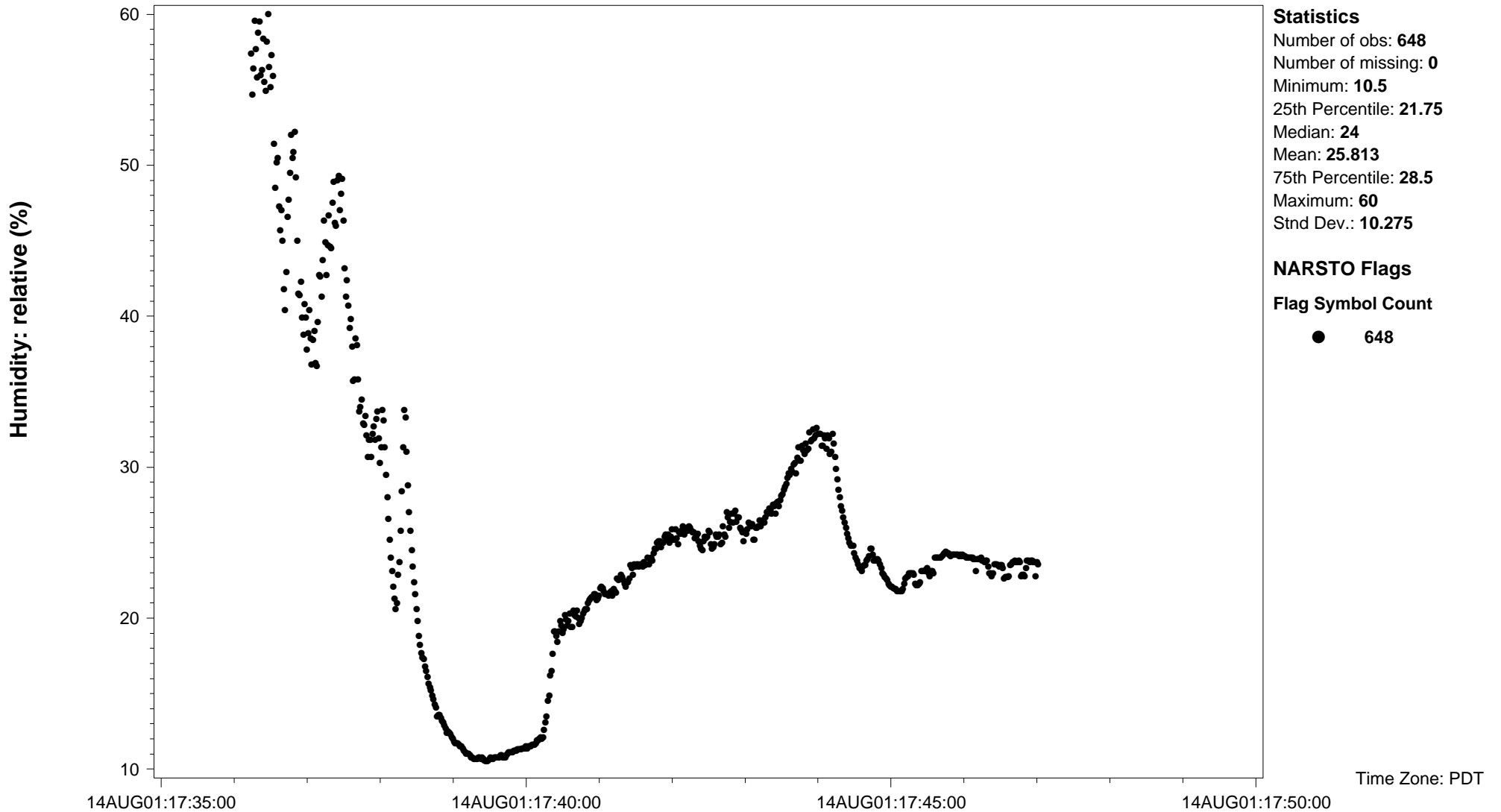
NARSTO Flags

Flag Symbol Count

● 648

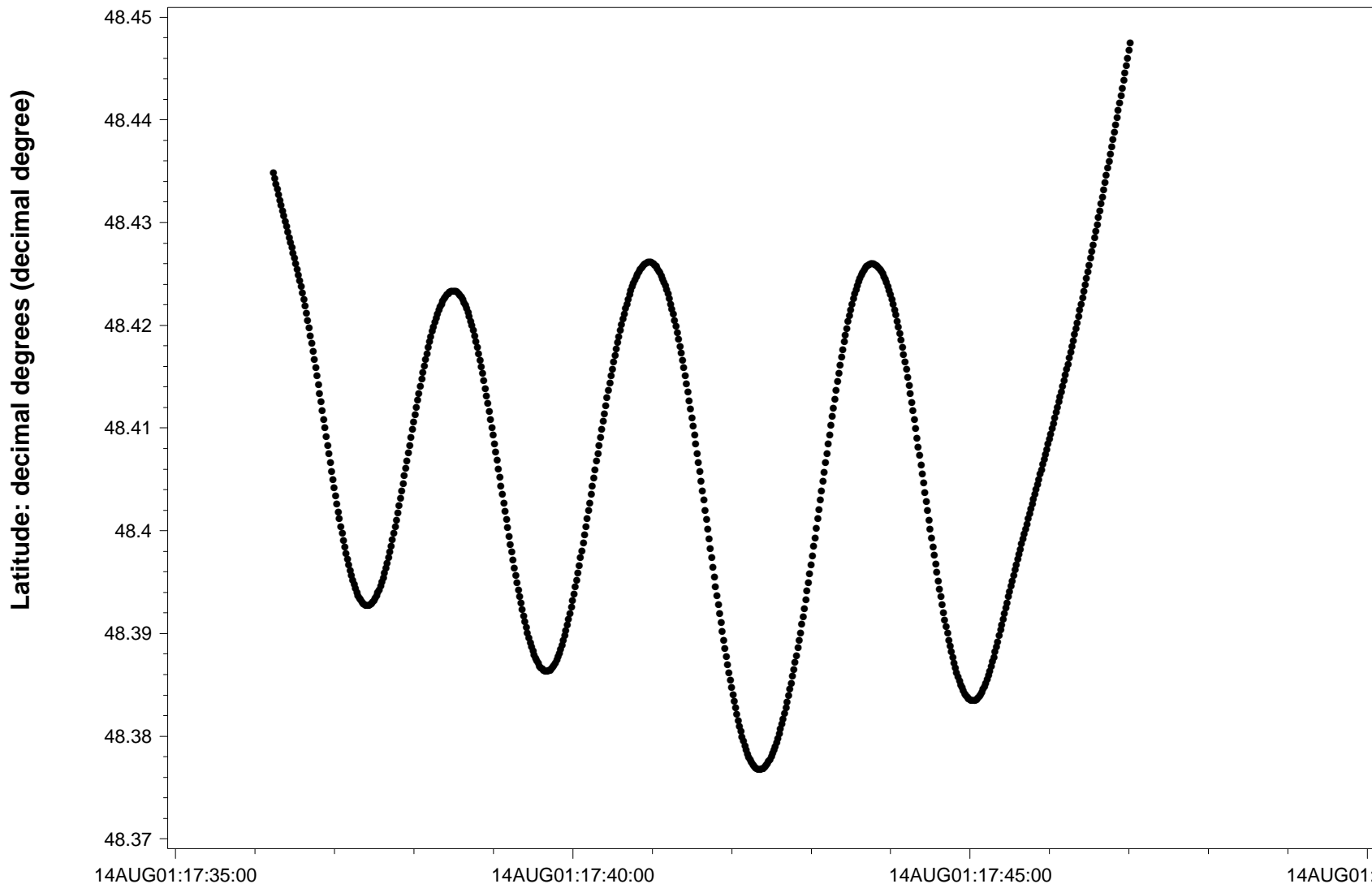
Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Humidity: relative** Units: % Sampling interval: **1 second** Sampling frequency: **Same as sampling interval**
 Observation type: **Supplementary data** Field sampling or measurement principle: **Aircraft instrumentation**
 Sampling Height above ground (m): **Varies--see variable Alti** Measurement principal investigator: **Dr. Shao-Meng Li**
 Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Site ID: **PC01CABCCONV** Variable name: **Latitude: decimal degrees** Units: **decimal degree** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data** Field sampling or measurement principle: **GPS**
 Sampling Height above ground (m): **Varies--see variable Alti** Instrument name and model number: **North Star and Trimble GPS**
 Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **15 m**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Statistics

Number of obs: **648**
 Number of missing: **0**
 Minimum: **48.37676**
 25th Percentile: **48.39303**
 Median: **48.406835**
 Mean: **48.407**
 75th Percentile: **48.420985**
 Maximum: **48.44753**
 Stnd Dev.: **0.016**

NARSTO Flags

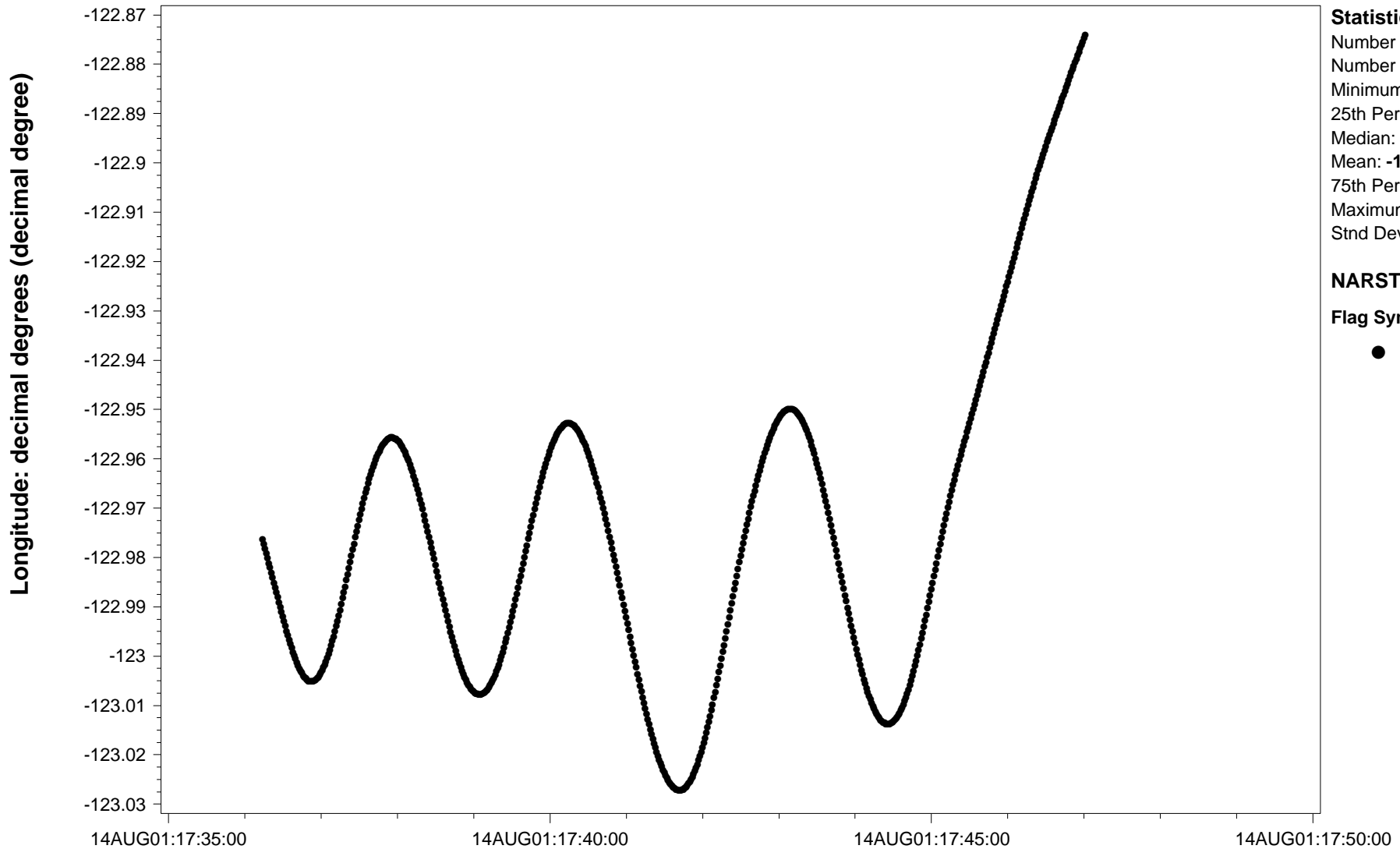
Flag Symbol Count

● 648

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Longitude: decimal degrees** Units: **decimal degree** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data** Field sampling or measurement principle: **GPS**
 Sampling Height above ground (m): **Varies--see variable Alti** Instrument name and model number: **North Star and Trimble GPS**
 Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **15 m**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Statistics
 Number of obs: **648**
 Number of missing: **0**
 Minimum: **-123.02722**
 25th Percentile: **-123.001735**
 Median: **-122.97855**
 Mean: **-122.975**
 75th Percentile: **-122.956455**
 Maximum: **-122.87405**
 Stnd Dev.: **0.034**

NARSTO Flags
 Flag Symbol Count
 ● **648**

Time Zone: PDT

NAtChem Time Series Plot

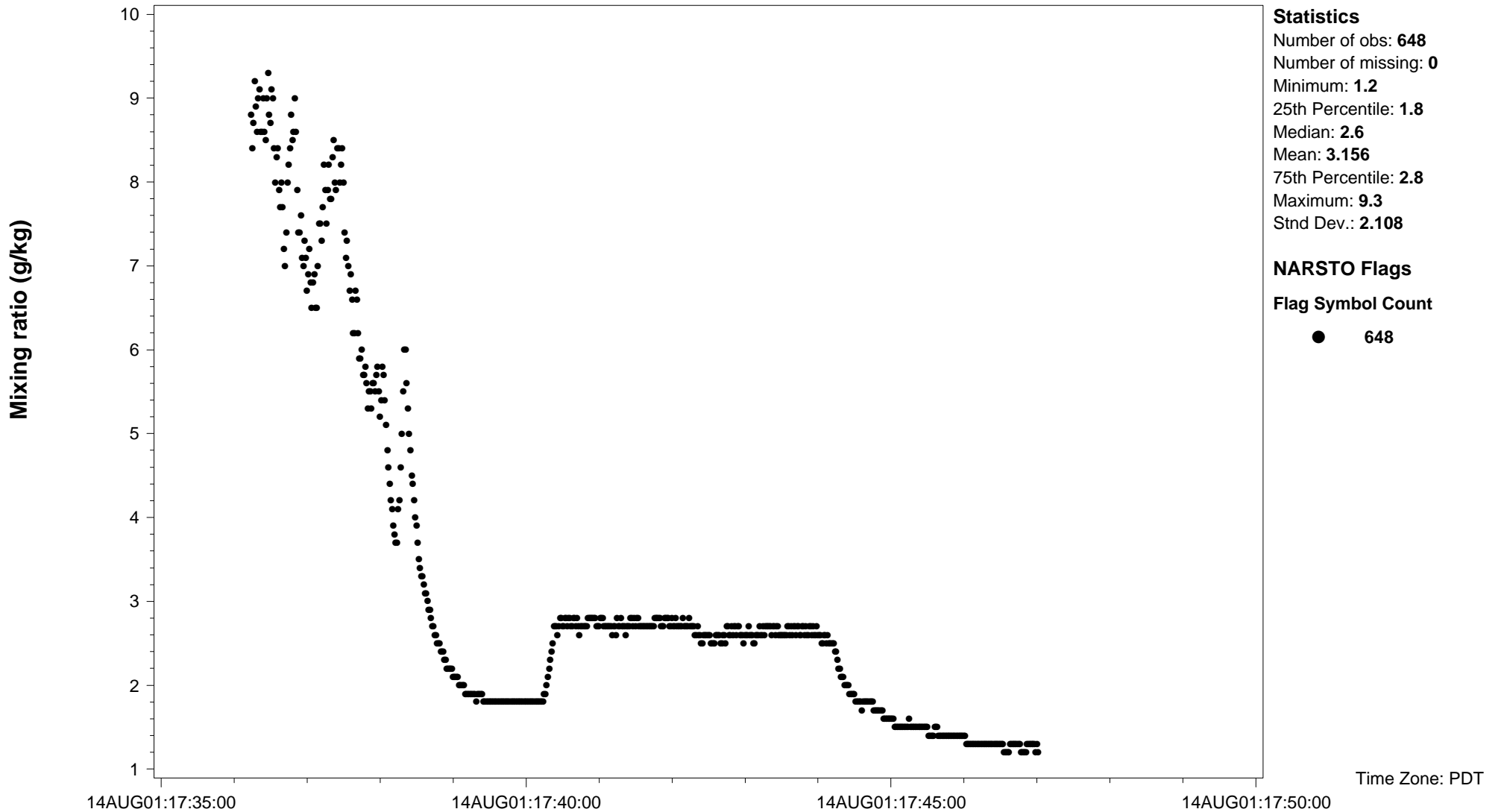
24SEP2004

Site ID: **PC01CABCCONV** Variable name: **Mixing ratio** Units: **g/kg** Sampling interval: **1 second** Sampling frequency: **Same as sampling interval**

Observation type: **Supplementary data** Field sampling or measurement principle: **Ultraviolet absorption**

Sampling Height above ground (m): **Varies--see variable Alti** Measurement principal investigator: **Dr. Shao-Meng Li**

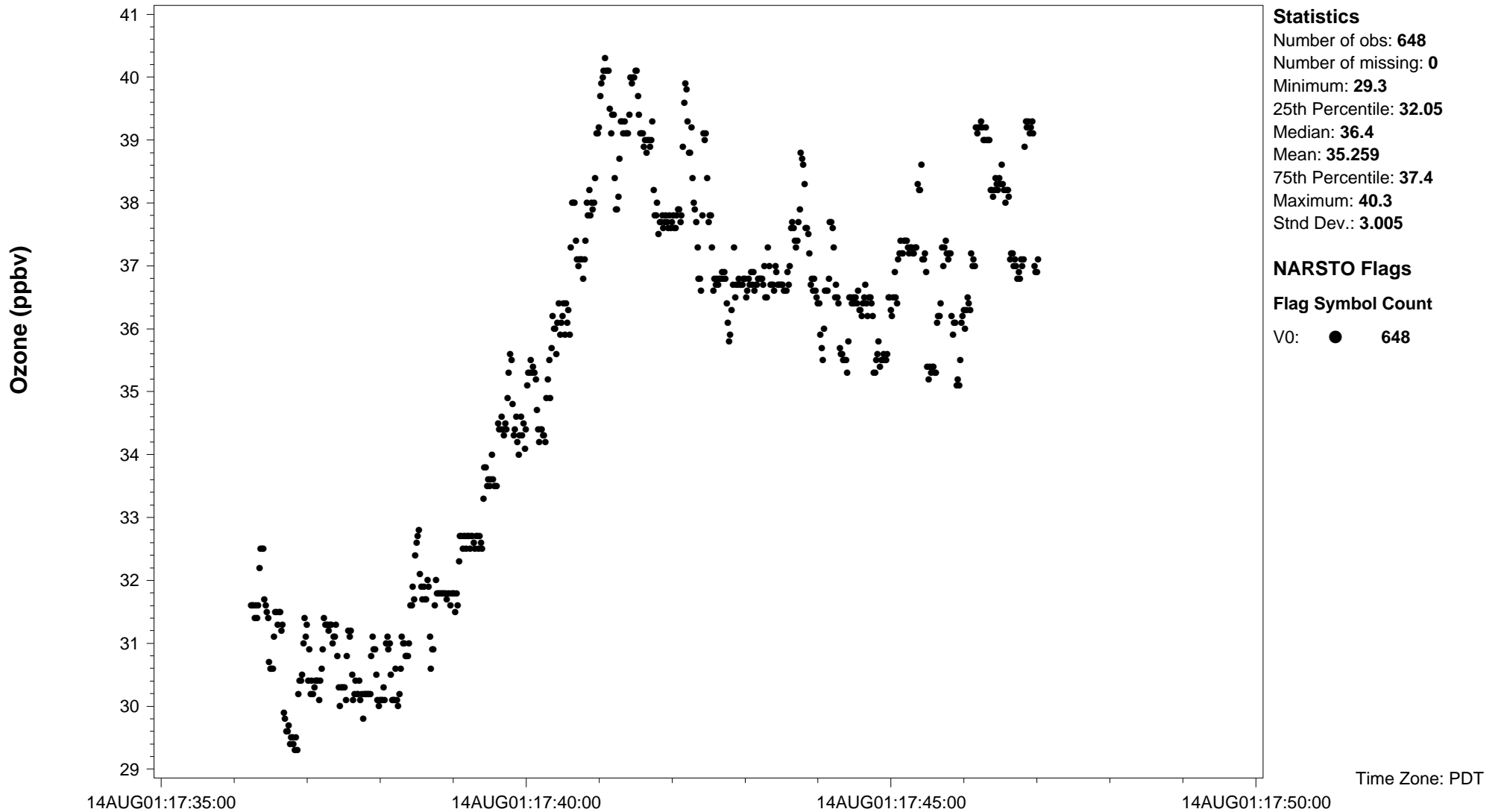
Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



NATChem Time Series Plot

24SEP2004

Site ID: **PC01CABCCONV** Variable name: **Ozone** Units: **ppbv** Sampling interval: **1 second** 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: **Not blank corrected** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **TECO 49** Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **2 to 3**
 Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Sampling interval: **1 second**

Sampling frequency: **Same as sampling interval** Observation type: **Particles**

Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**

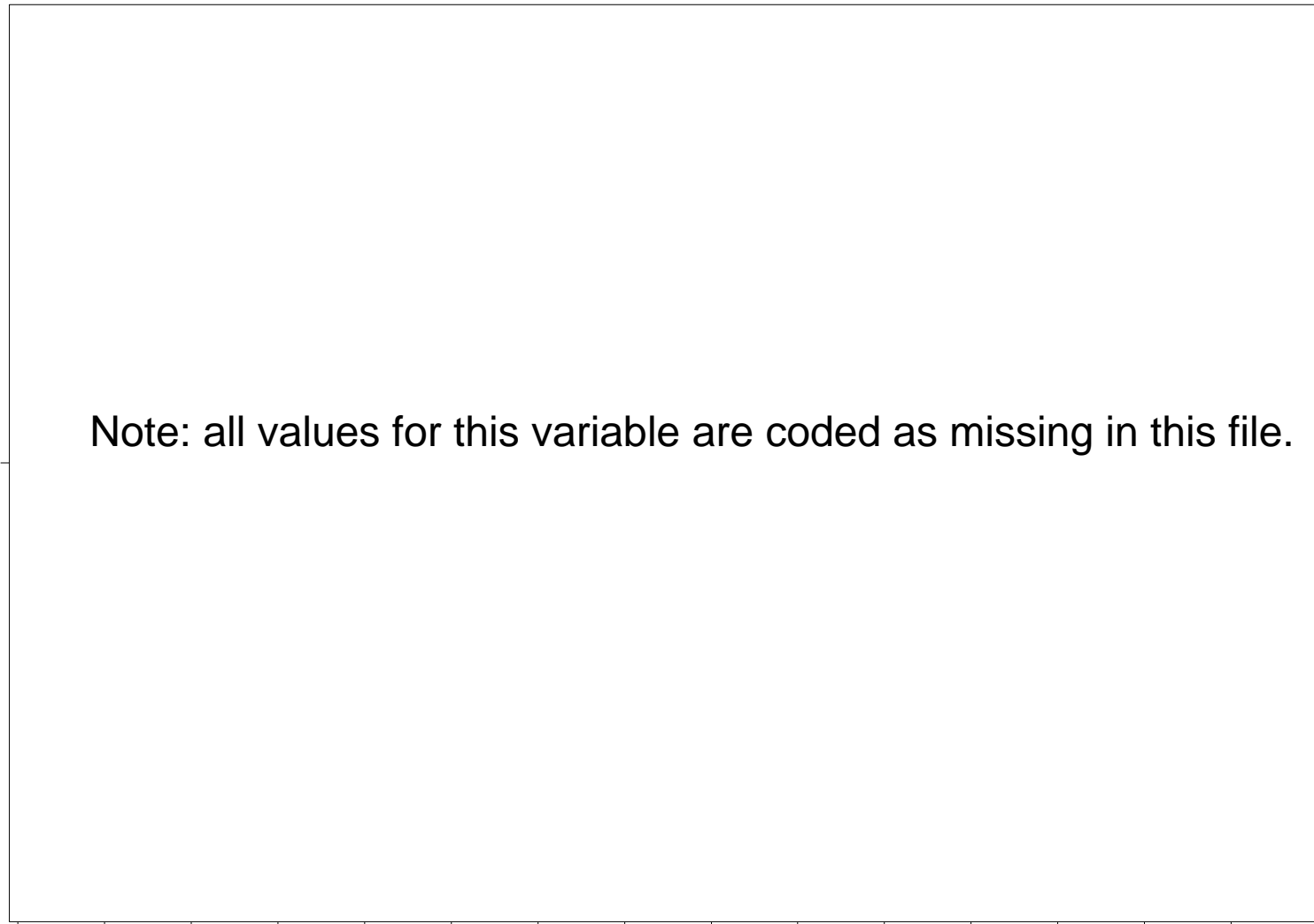
Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**

Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**

Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count

M1: **648**

14AUG01:17:35:00 14AUG01:17:40:00 14AUG01:17:45:00 14AUG01:17:50:00

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 1** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.130**
 Particle diameter--upper bound (UM): **0.150** Particle diameter--median (UM): **0.140**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics
 Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags
Flag Symbol Count
 M1: **648**

Note: all values for this variable are coded as missing in this file.

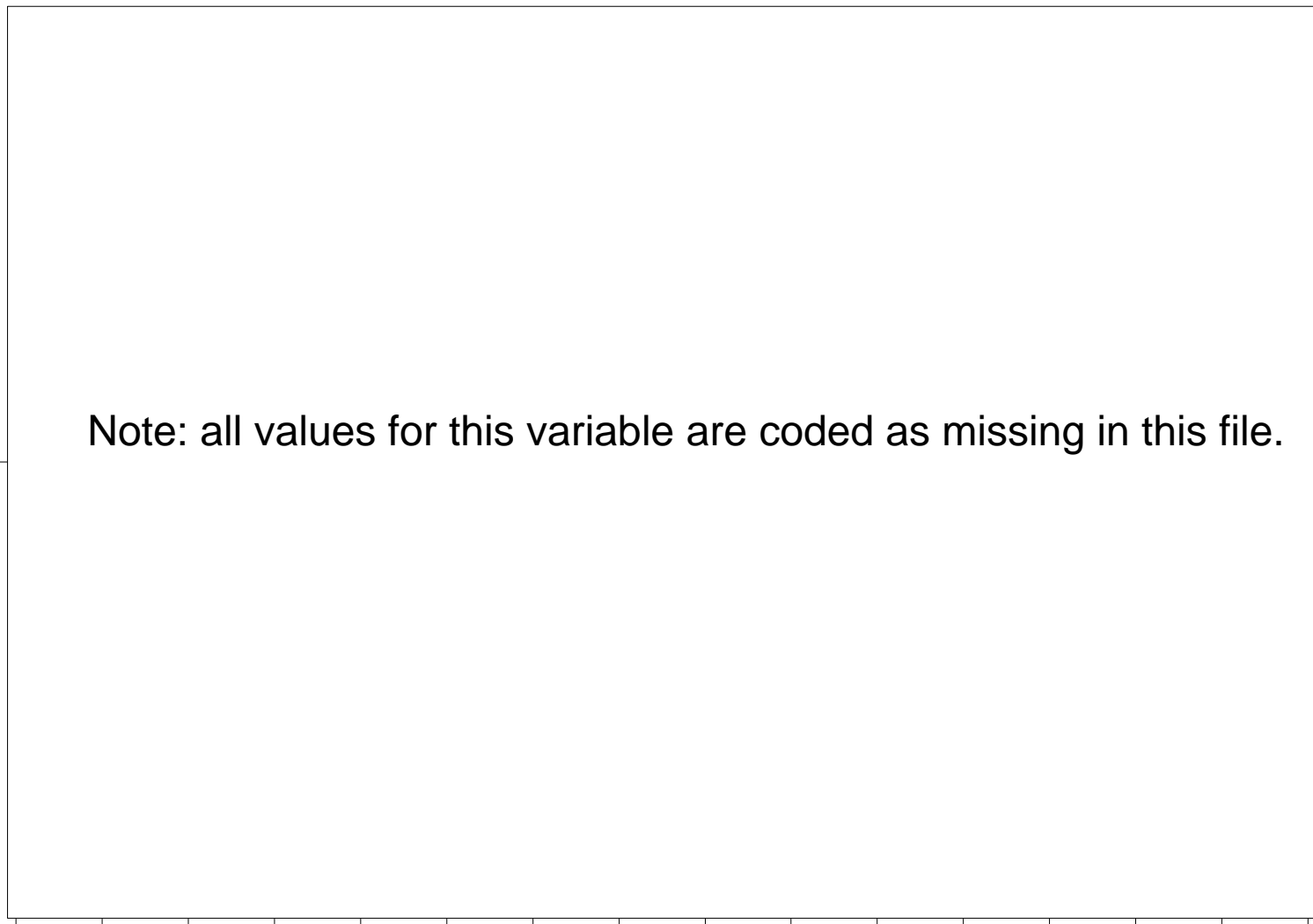
14AUG01:17:35:00 14AUG01:17:40:00 14AUG01:17:45:00 14AUG01:17:50:00

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 10** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.730**
 Particle diameter--upper bound (UM): **0.930** Particle diameter--median (UM): **0.830**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count

M1: **648**

Note: all values for this variable are coded as missing in this file.

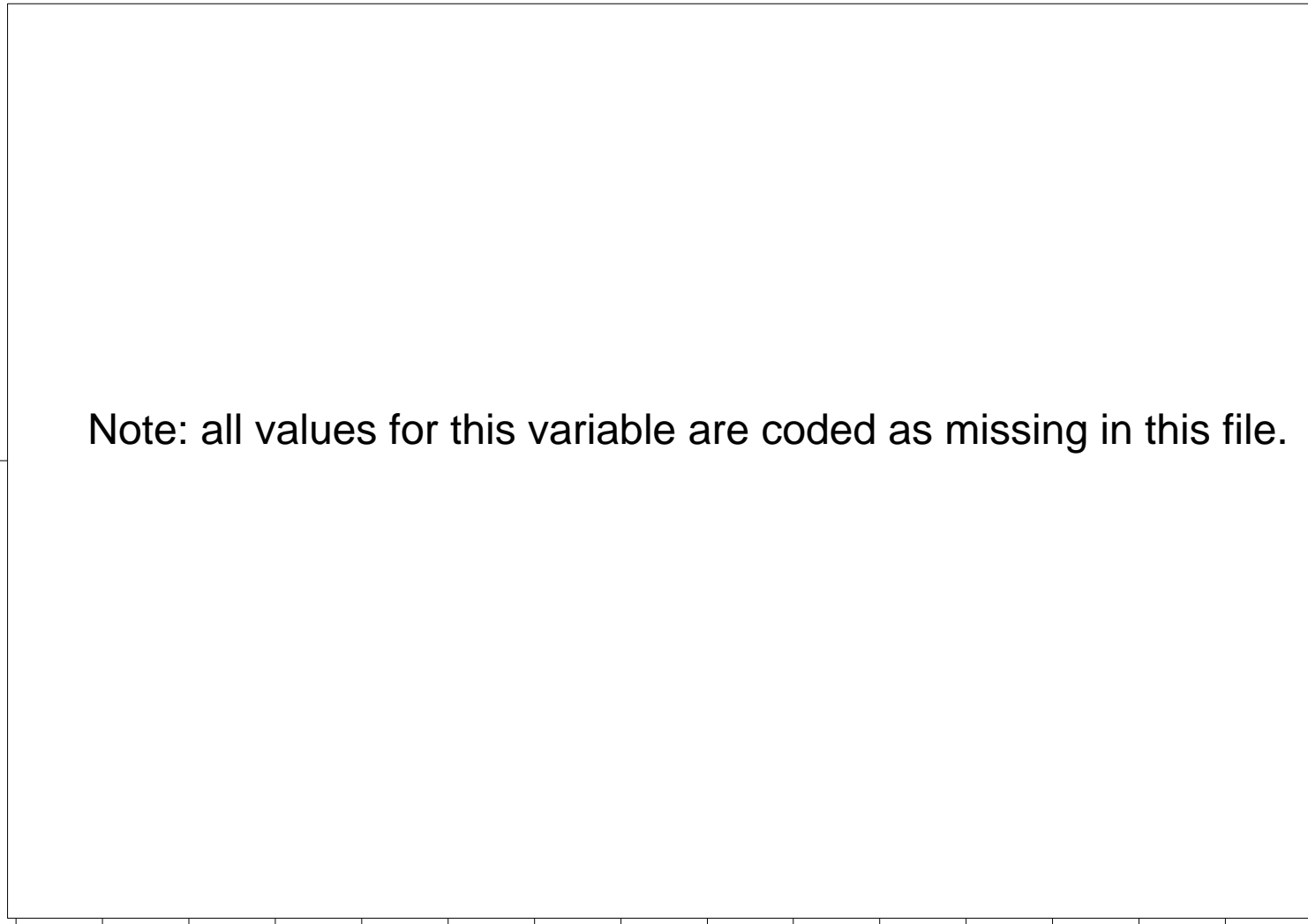
14AUG01:17:35:00 14AUG01:17:40:00 14AUG01:17:45:00 14AUG01:17:50:00

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 11** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.930**
 Particle diameter--upper bound (UM): **1.200** Particle diameter--median (UM): **1.065**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count
 M1: **648**

Note: all values for this variable are coded as missing in this file.

14AUG01:17:35:00 14AUG01:17:40:00 14AUG01:17:45:00 14AUG01:17:50:00

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 12** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **1.200**
 Particle diameter--upper bound (UM): **1.500** Particle diameter--median (UM): **1.350**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics
 Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

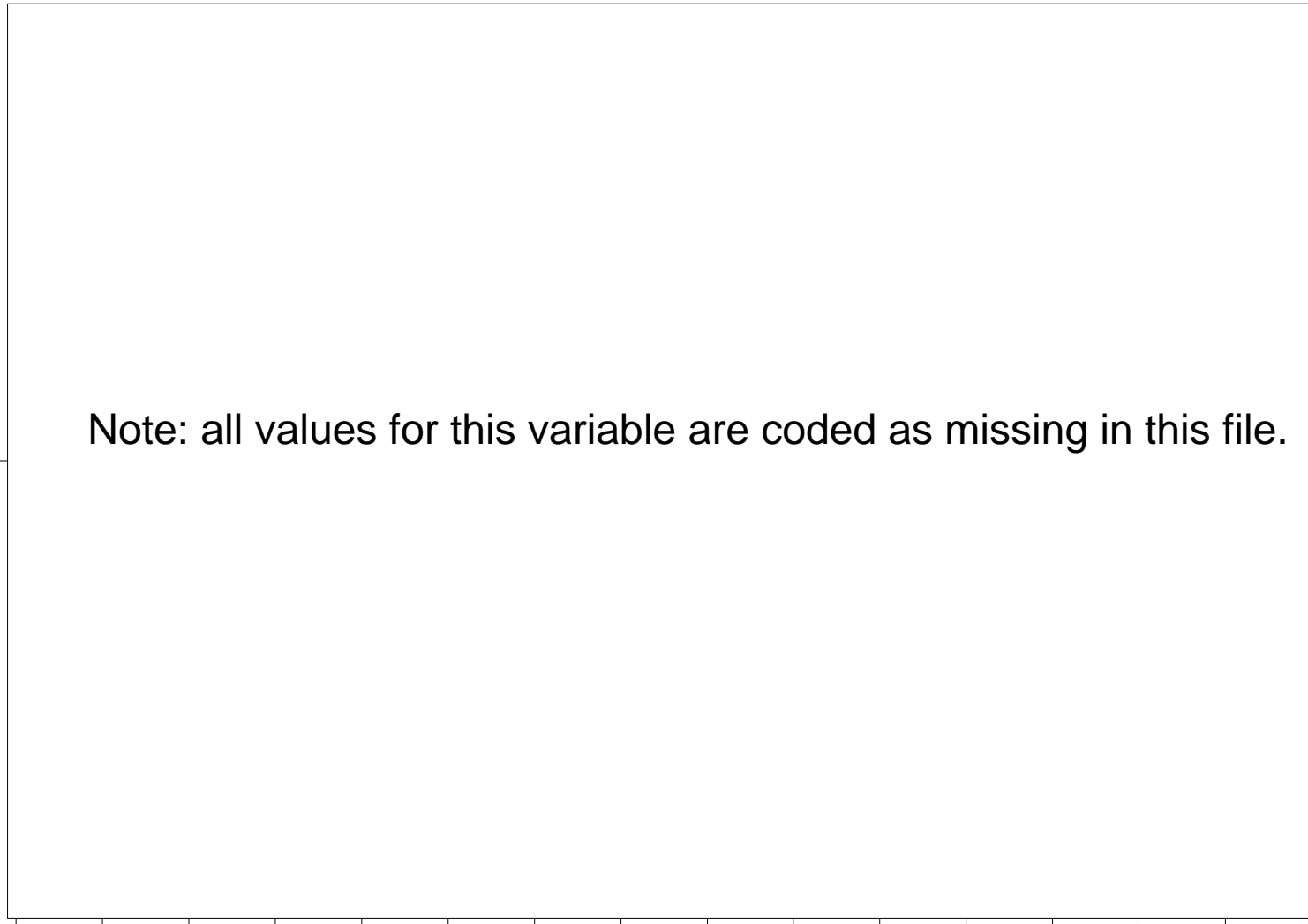
NARSTO Flags
Flag Symbol Count
 M1: **648**

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 13** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **1.500**
 Particle diameter--upper bound (UM): **2.000** Particle diameter--median (UM): **1.750**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics
 Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Std Dev.: .

NARSTO Flags
Flag Symbol Count
 M1: **648**

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 14** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **2.000**
 Particle diameter--upper bound (UM): **2.500** Particle diameter--median (UM): **2.250**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count

M1: **648**

Time Zone: PDT

14AUG01:17:35:00

14AUG01:17:40:00

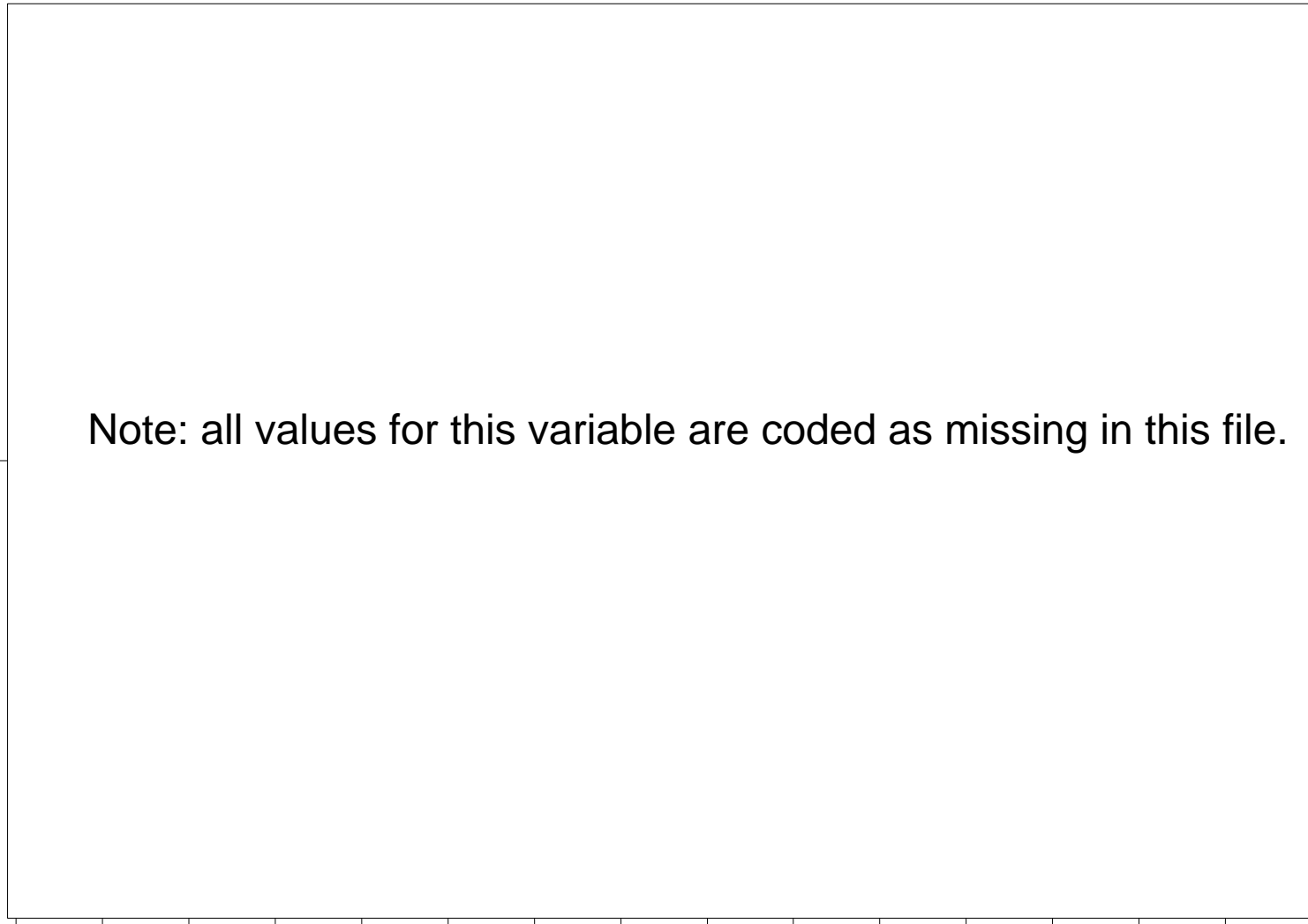
14AUG01:17:45:00

14AUG01:17:50:00

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 15** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **2.500**
 Particle diameter--upper bound (UM): **3.000** Particle diameter--median (UM): **2.750**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics
 Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags
Flag Symbol Count
 M1: **648**

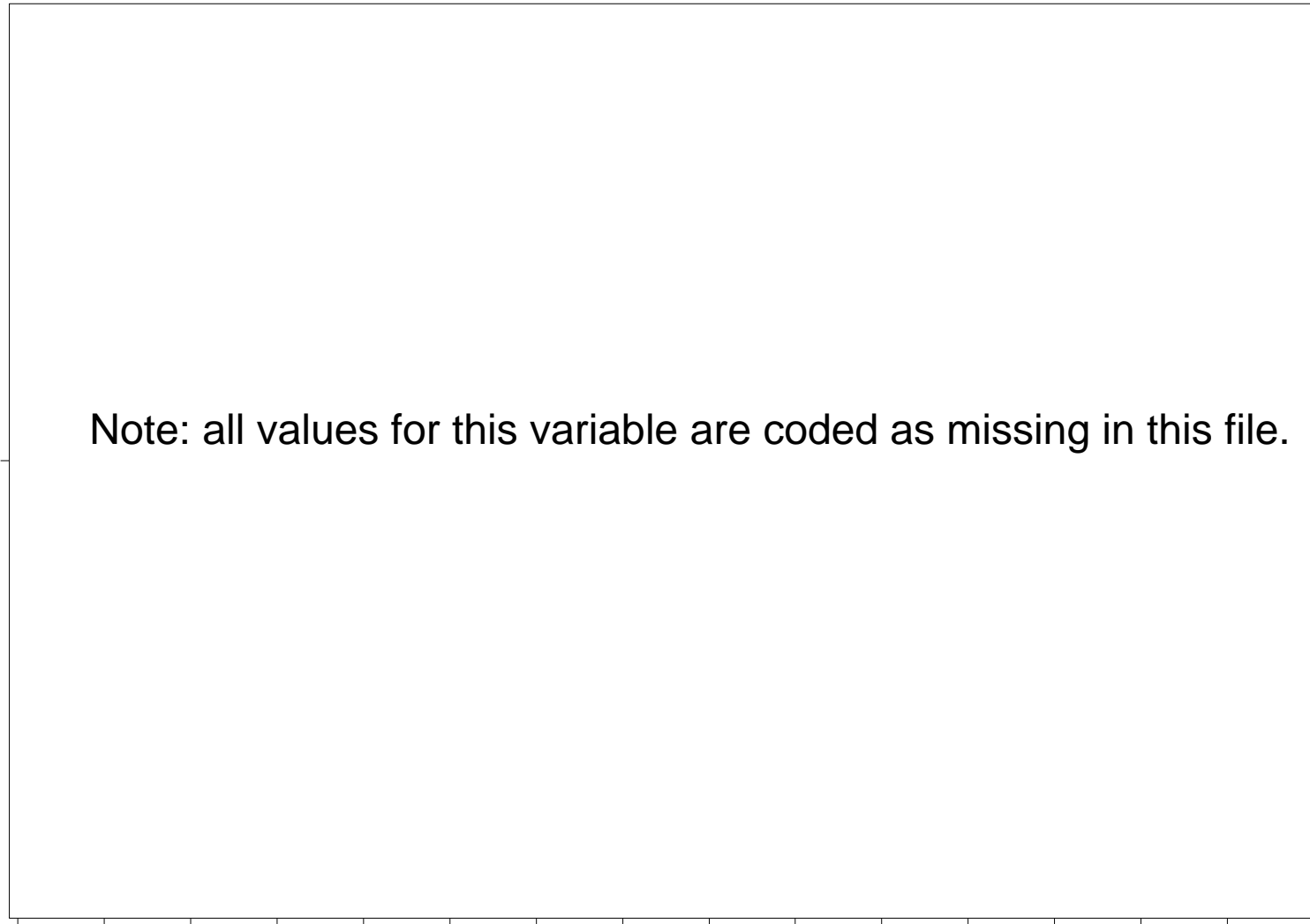
Time Zone: PDT

14AUG01:17:35:00 14AUG01:17:40:00 14AUG01:17:45:00 14AUG01:17:50:00

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 2** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.150**
 Particle diameter--upper bound (UM): **0.165** Particle diameter--median (UM): **0.157**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count
 M1: **648**

Note: all values for this variable are coded as missing in this file.

14AUG01:17:35:00 14AUG01:17:40:00 14AUG01:17:45:00 14AUG01:17:50:00

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 3** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.165**
 Particle diameter--upper bound (UM): **0.190** Particle diameter--median (UM): **0.178**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics
 Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags
Flag Symbol Count
 M1: **648**

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 4** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.190**
 Particle diameter--upper bound (UM): **0.220** Particle diameter--median (UM): **0.205**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count
 M1: **648**

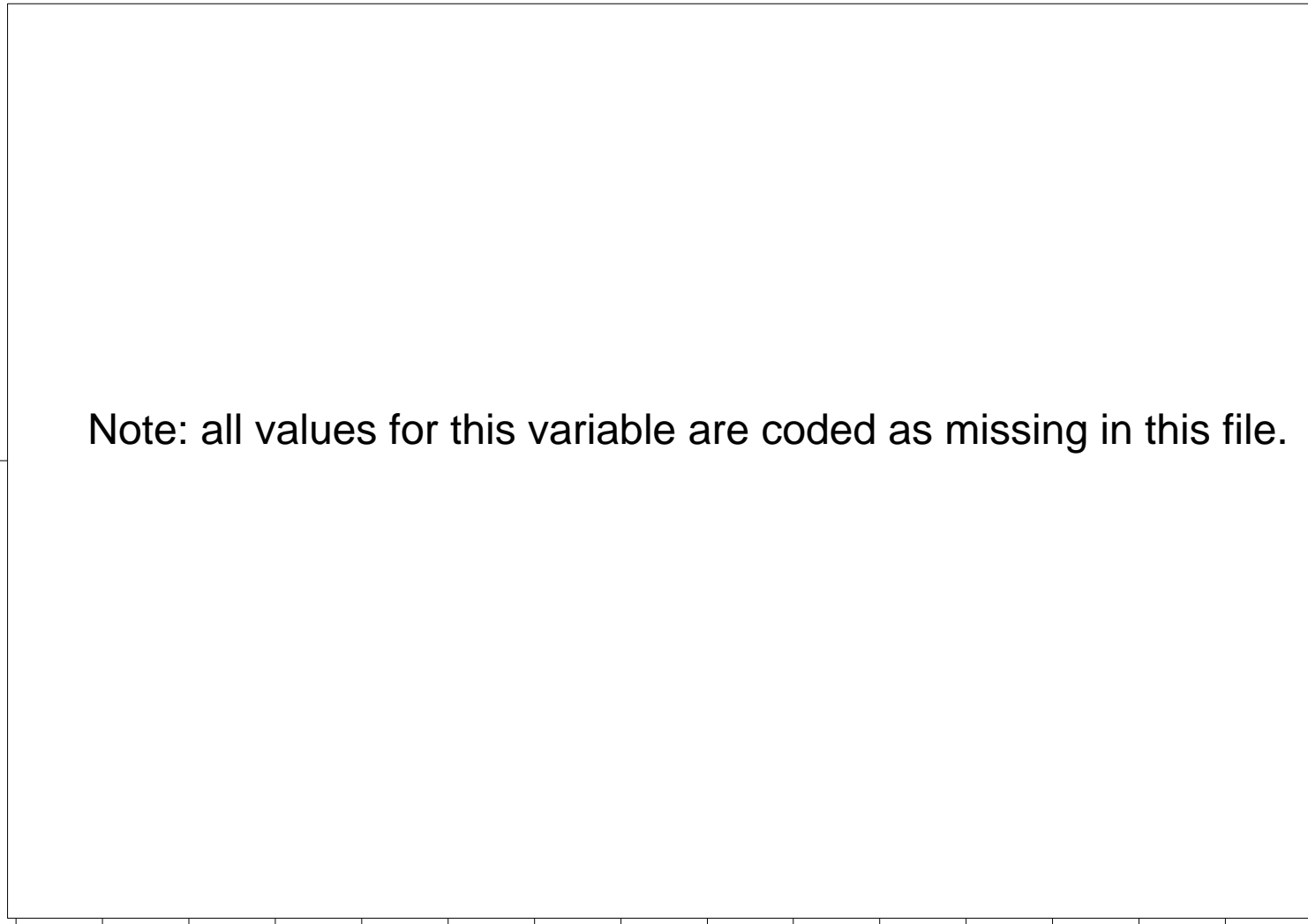
14AUG01:17:35:00 14AUG01:17:40:00 14AUG01:17:45:00 14AUG01:17:50:00

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 5** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.220**
 Particle diameter--upper bound (UM): **0.263** Particle diameter--median (UM): **0.242**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count
 M1: **648**

Note: all values for this variable are coded as missing in this file.

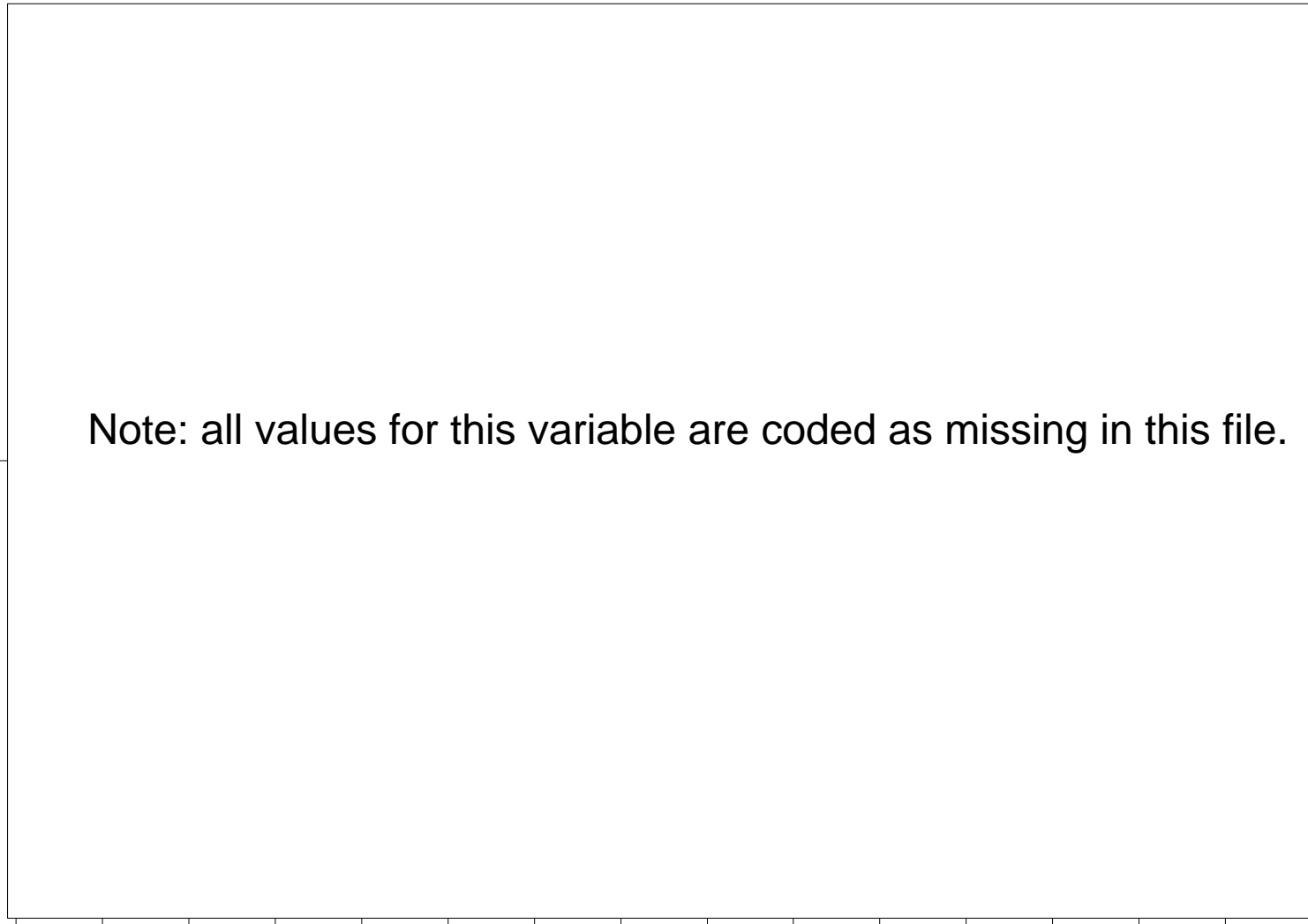
14AUG01:17:35:00 14AUG01:17:40:00 14AUG01:17:45:00 14AUG01:17:50:00

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 6** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.263**
 Particle diameter--upper bound (UM): **0.340** Particle diameter--median (UM): **0.302**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics
 Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

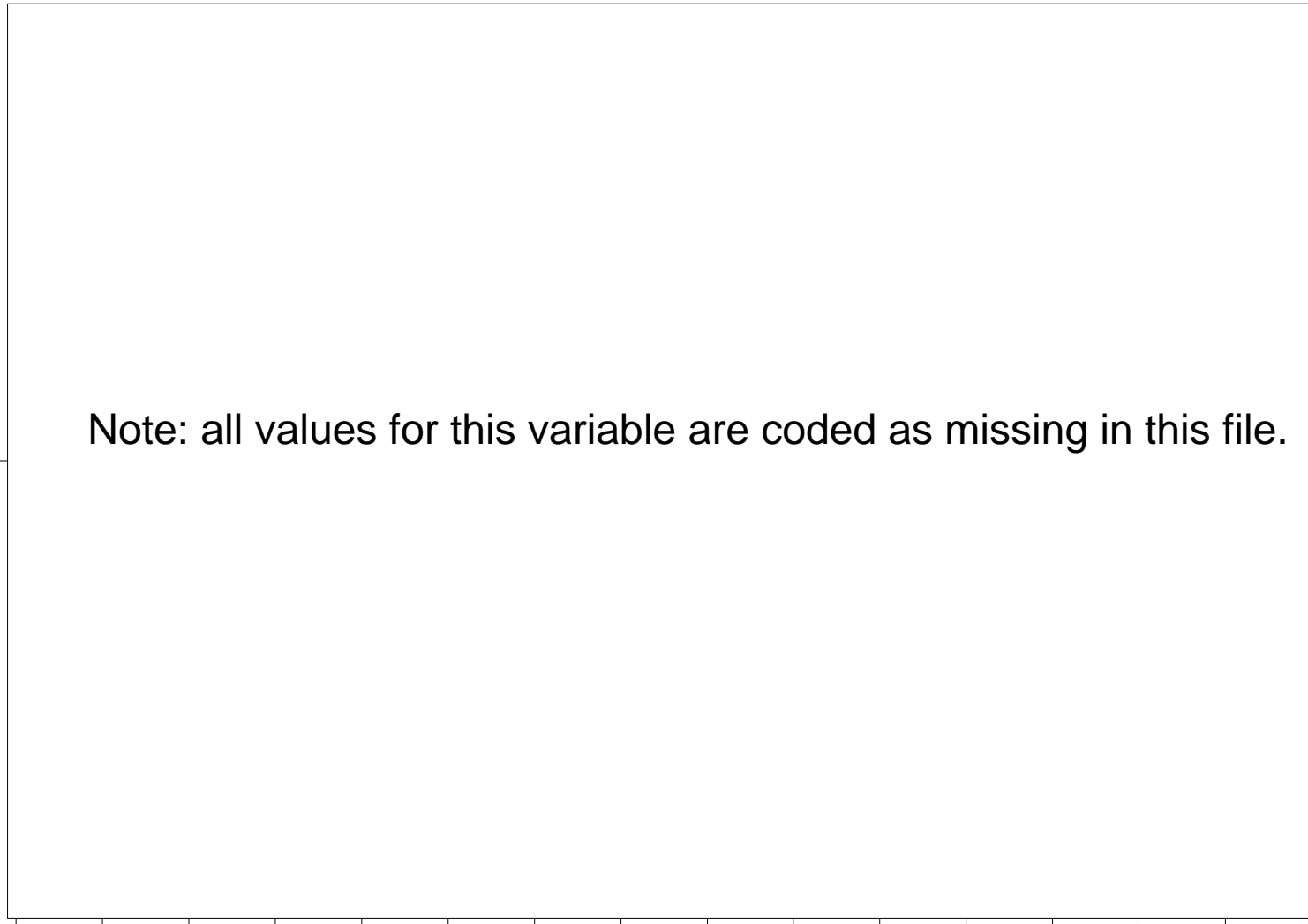
NARSTO Flags
Flag Symbol Count
 M1: **648**

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 7** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.340**
 Particle diameter--upper bound (UM): **0.470** Particle diameter--median (UM): **0.405**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics
 Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

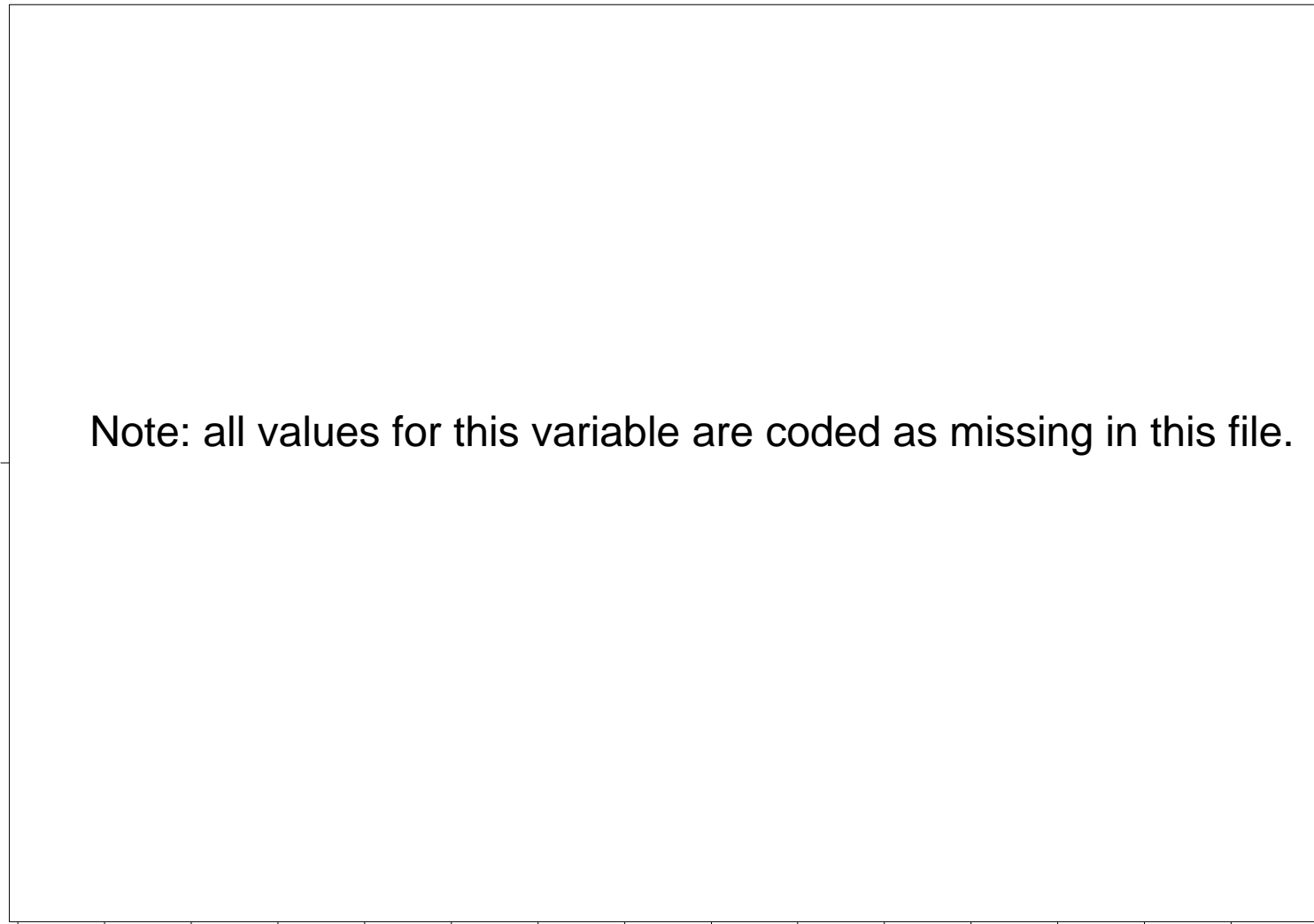
NARSTO Flags
Flag Symbol Count
 M1: **648**

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 8** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.470**
 Particle diameter--upper bound (UM): **0.590** Particle diameter--median (UM): **0.530**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count

M1: **648**

Time Zone: PDT

14AUG01:17:35:00

14AUG01:17:40:00

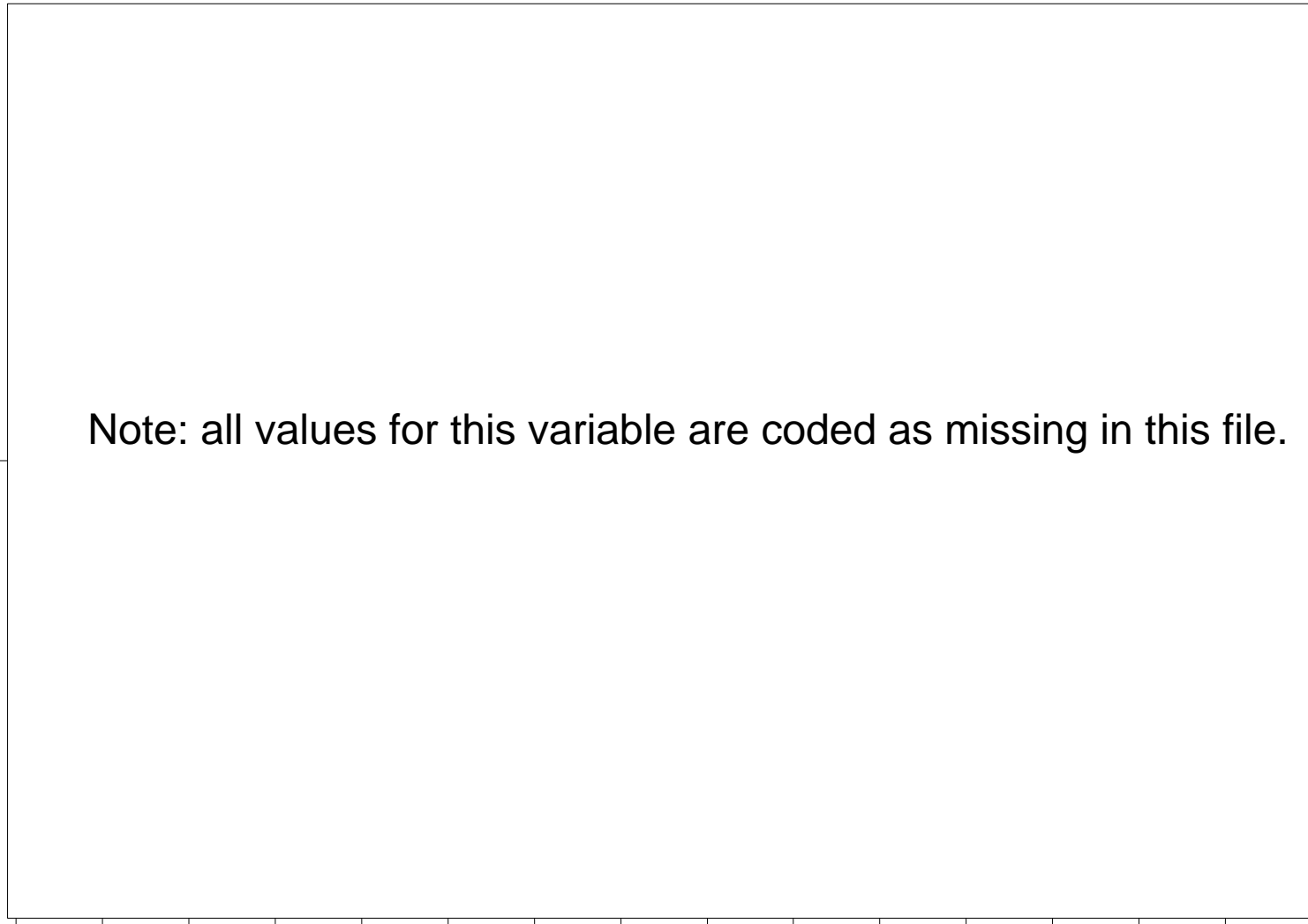
14AUG01:17:45:00

14AUG01:17:50:00

Site ID: **PC01CABCCONV** Variable name: **Particles: count** Units: **number/cm3** Basis: **channel 9** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.590**
 Particle diameter--upper bound (UM): **0.730** Particle diameter--median (UM): **0.660**
 Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

Particles: count (number/cm3)



Statistics

Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

NARSTO Flags

Flag Symbol Count
 M1: **648**

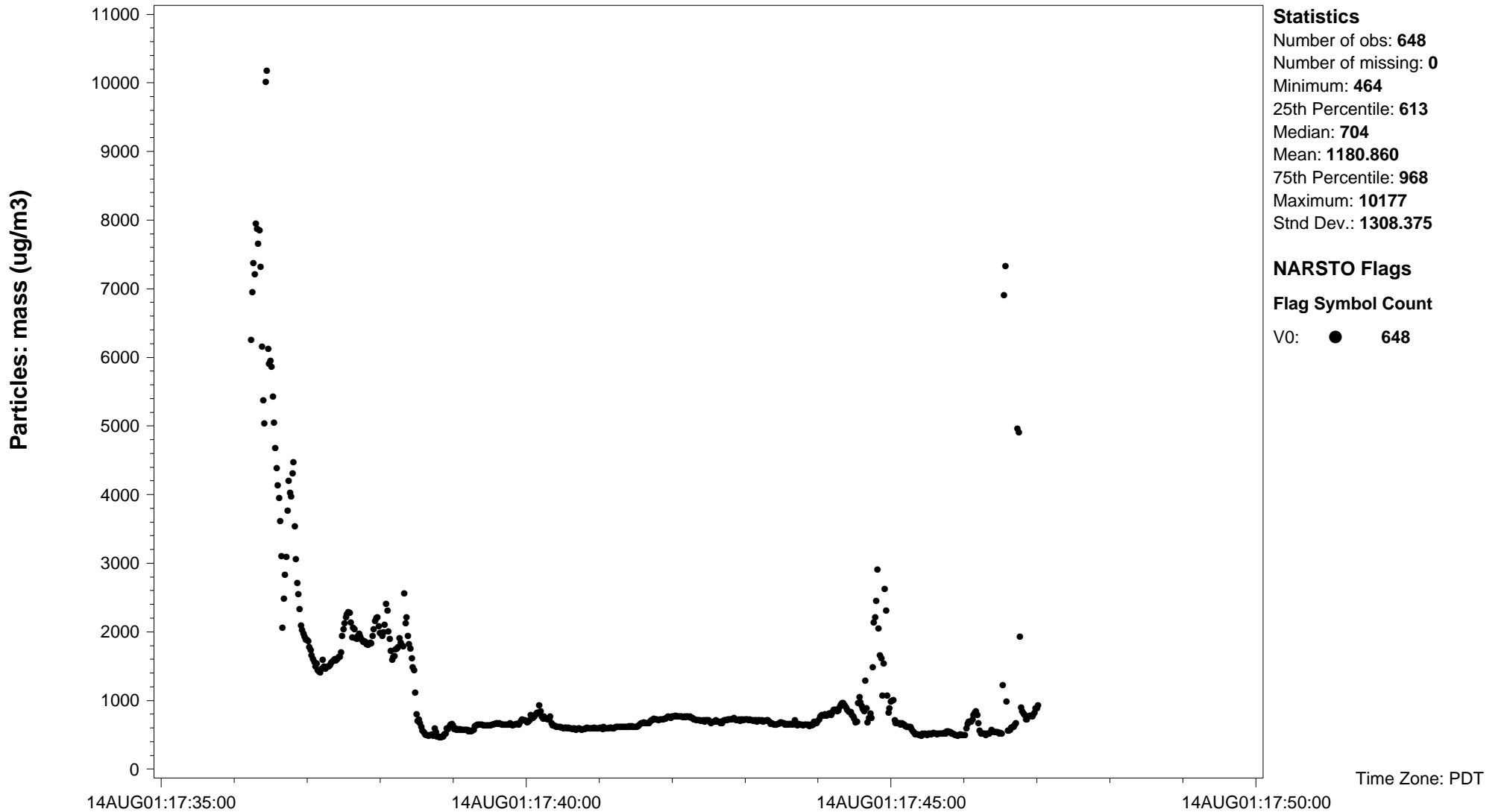
Note: all values for this variable are coded as missing in this file.

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Time Zone: PDT

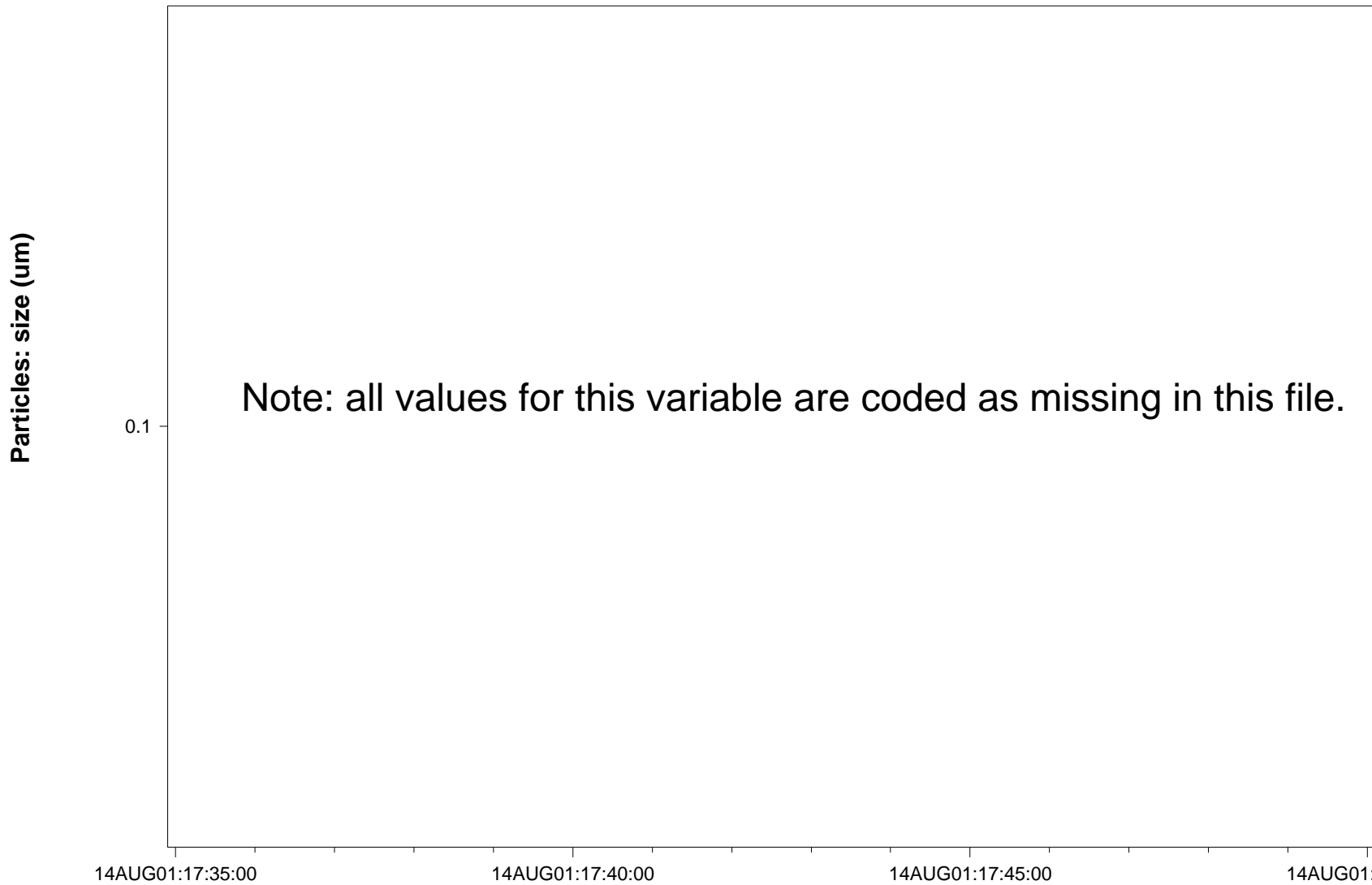
Site ID: **PC01CABCCONV** Variable name: **Particles: mass** Units: **ug/m3** Sampling interval: **1 second** Sampling frequency: **Same as sampling interval**
 Observation type: **Particles** Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Site ID: **PC01CABCCONV** Variable name: **Particles: size** Units: **um** Sampling interval: **1 second** Sampling frequency: **Same as sampling interval**
 Observation type: **Particles** Field sampling or measurement principle: **Optical particle counter/size spectrometer** Inlet type: **Isokinetic**
 Sampling humidity or temperature control: **Temperature controlled** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Passive Cavity Aerosol Spectrometer Probe** Measurement principal investigator: **Dr. Shao-Meng Li**
 Detection Limit: **Not available**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Statistics
 Number of obs: **648**
 Number of missing: **648**
 Minimum: .
 25th Percentile: .
 Median: .
 Mean: .
 75th Percentile: .
 Maximum: .
 Stnd Dev.: .

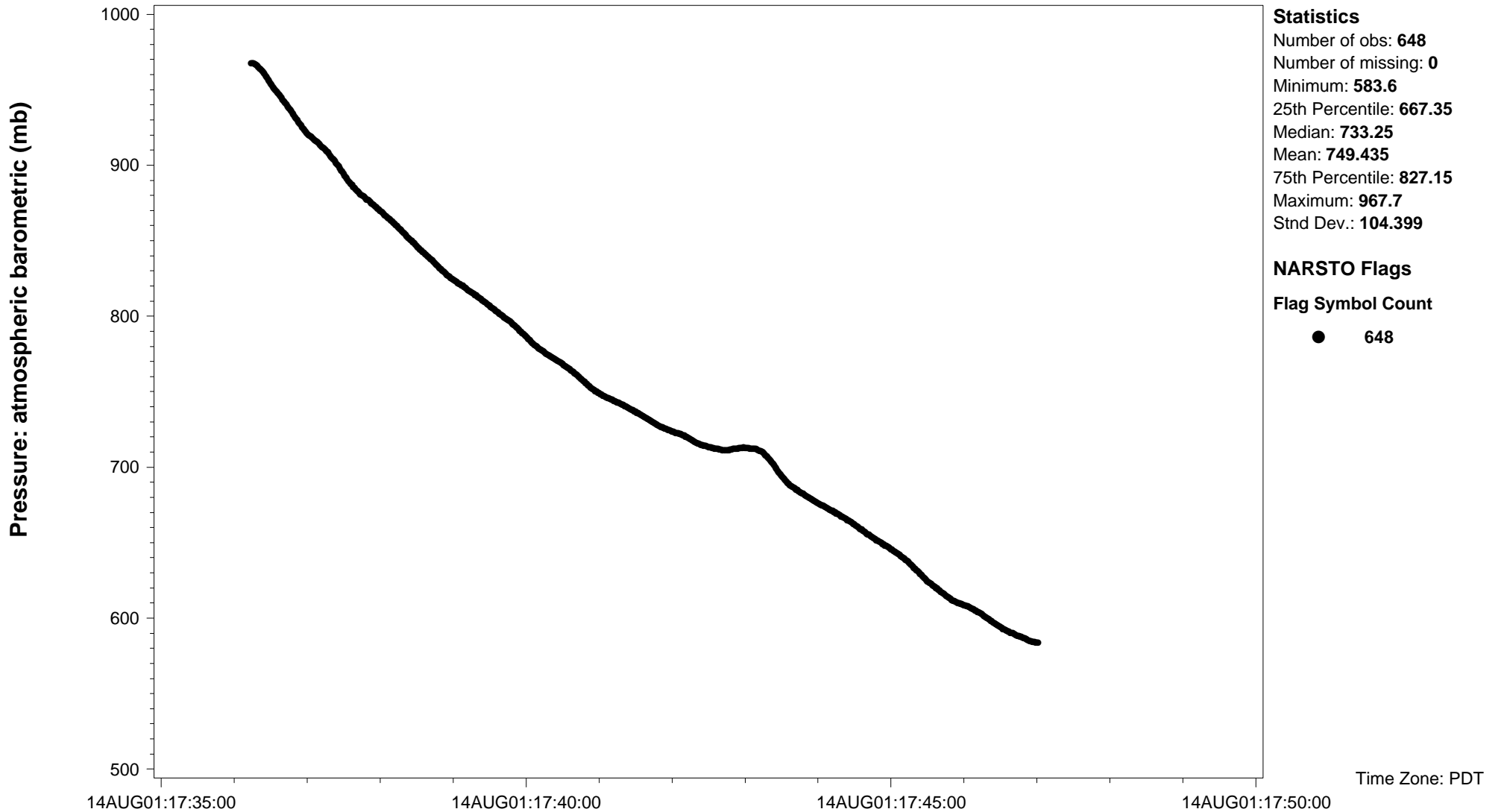
NARSTO Flags
Flag Symbol Count
 M1: **648**

Time Zone: PDT

NAtChem Time Series Plot

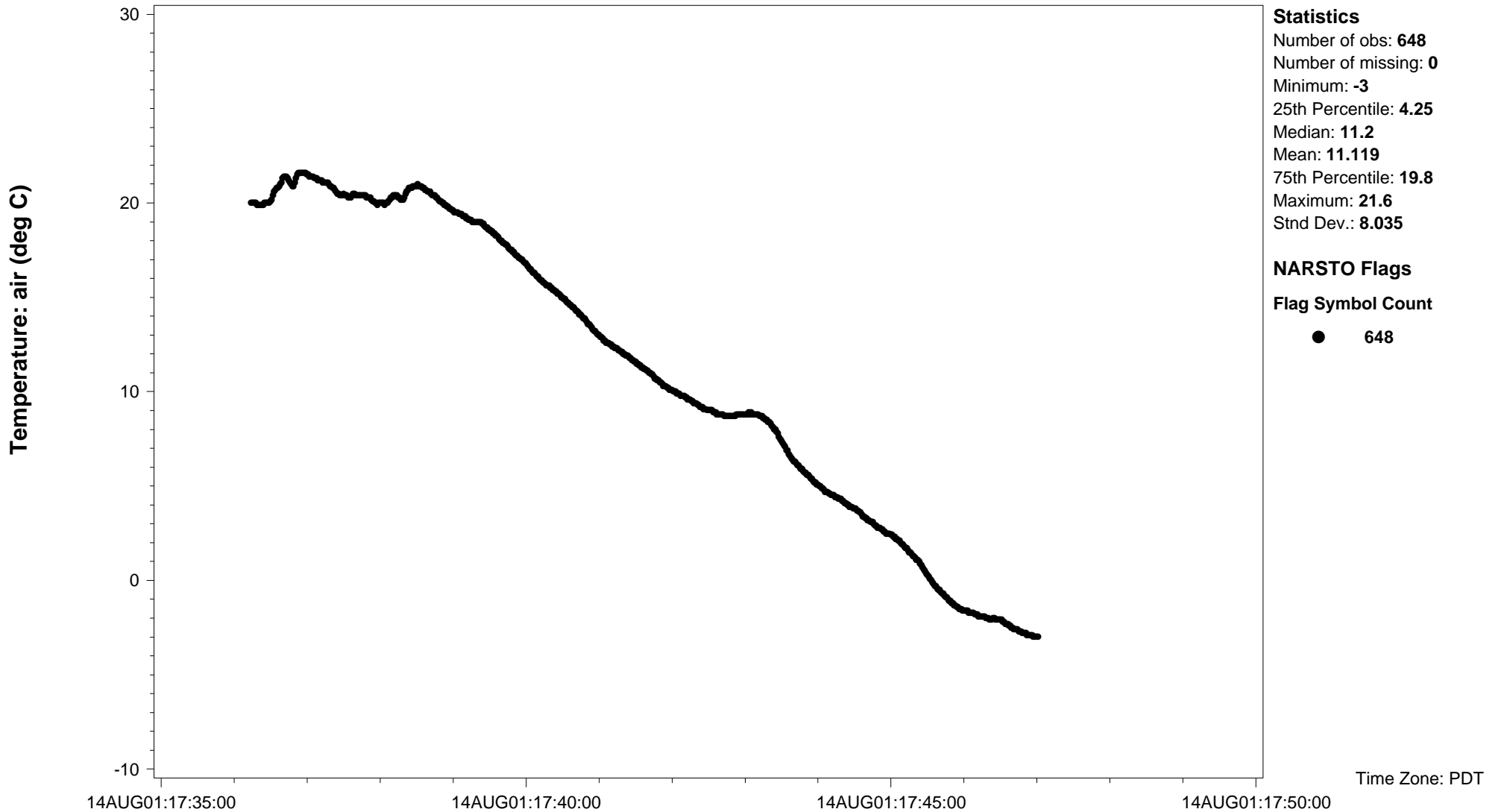
24SEP2004

Site ID: **PC01CABCCONV** Variable name: **Pressure: atmospheric barometric** Units: **mb** Sampling interval: **1 second**
Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data**
Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti**
Instrument name and model number: **Information not available** Measurement principal investigator: **Dr. Shao-Meng Li**
Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Site ID: **PC01CABCCONV** Variable name: **Temperature: air** Units: **deg C** Sampling interval: **1 second** Sampling frequency: **Same as sampling interval**
 Observation type: **Supplementary data** Field sampling or measurement principle: **Ultraviolet absorption**
 Sampling Height above ground (m): **Varies--see variable Alti** Instrument name and model number: **Rosemount Static Temperature**
 Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **2 to 3**

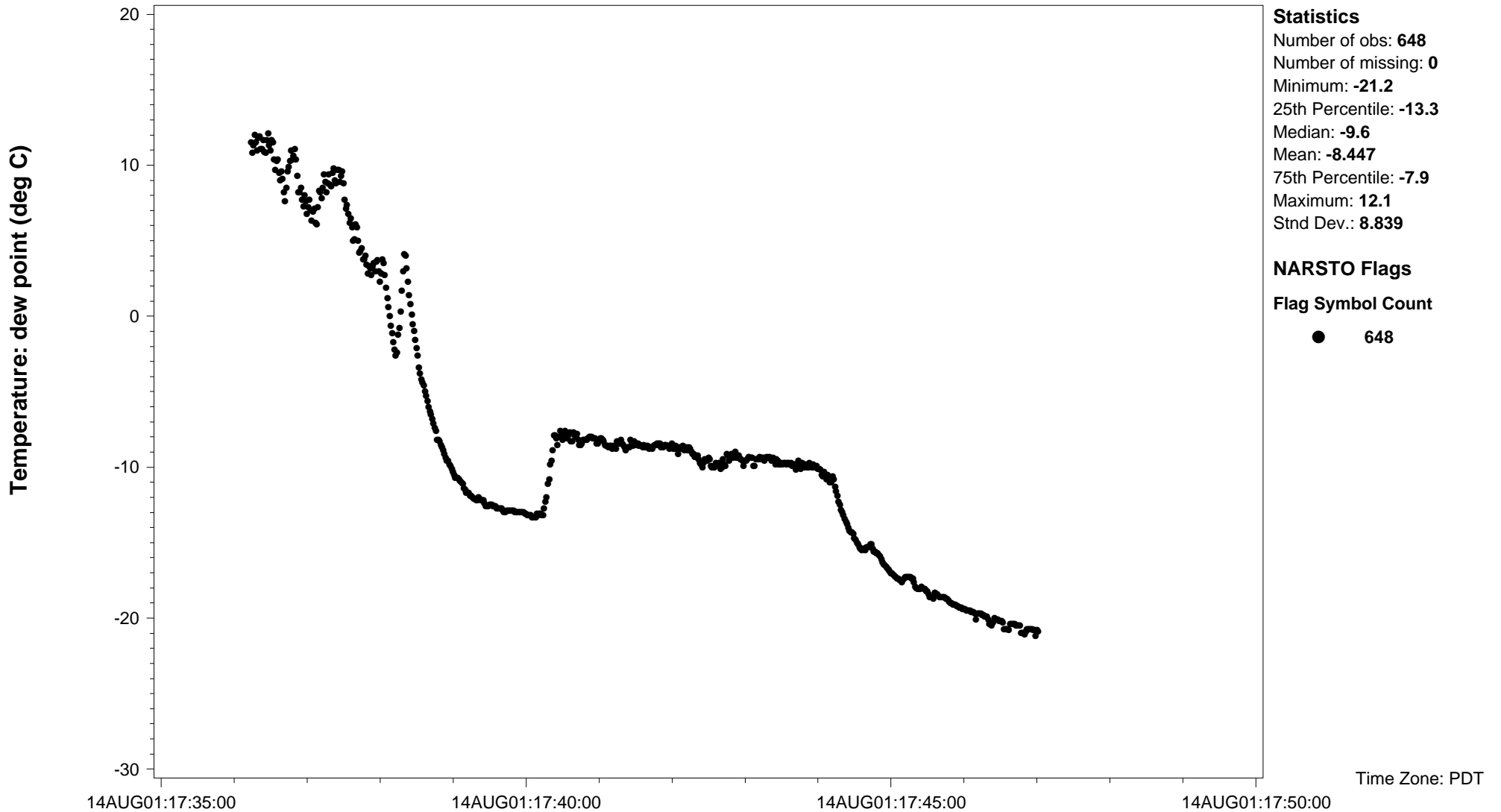
Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



NAtChem Time Series Plot

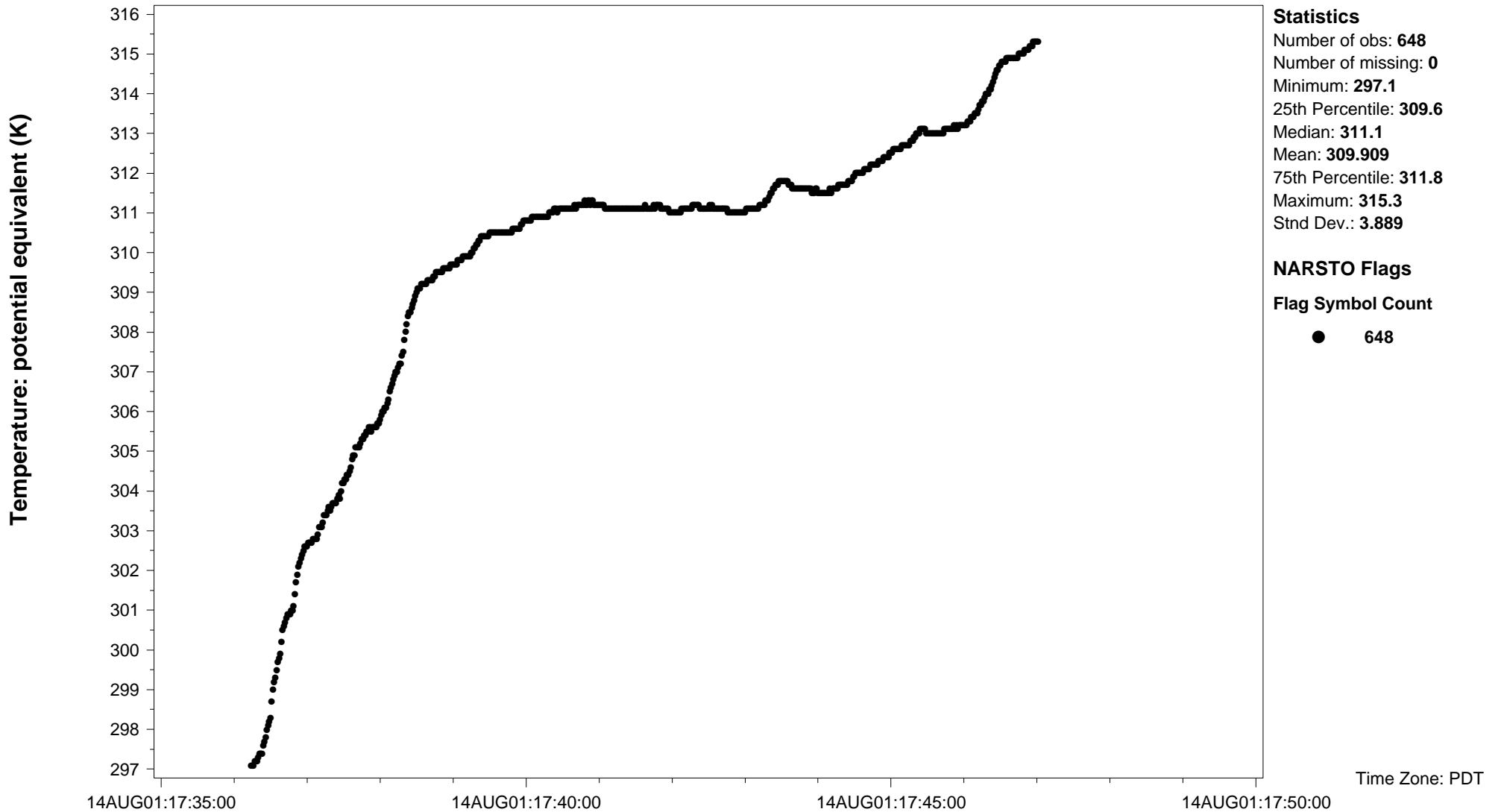
24SEP2004

Site ID: **PC01CABCCONV** Variable name: **Temperature: dew point** Units: **deg C** Sampling interval: **1 second**
Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data**
Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti**
Instrument name and model number: **EG+G Hygrometer** Measurement principal investigator: **Dr. Shao-Meng Li** Detection Limit: **Not available**
Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Site ID: **PC01CABCCONV** Variable name: **Temperature: potential equivalent** Units: **K** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data**
 Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti**
 Measurement principal investigator: **Dr. Shao-Meng Li**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

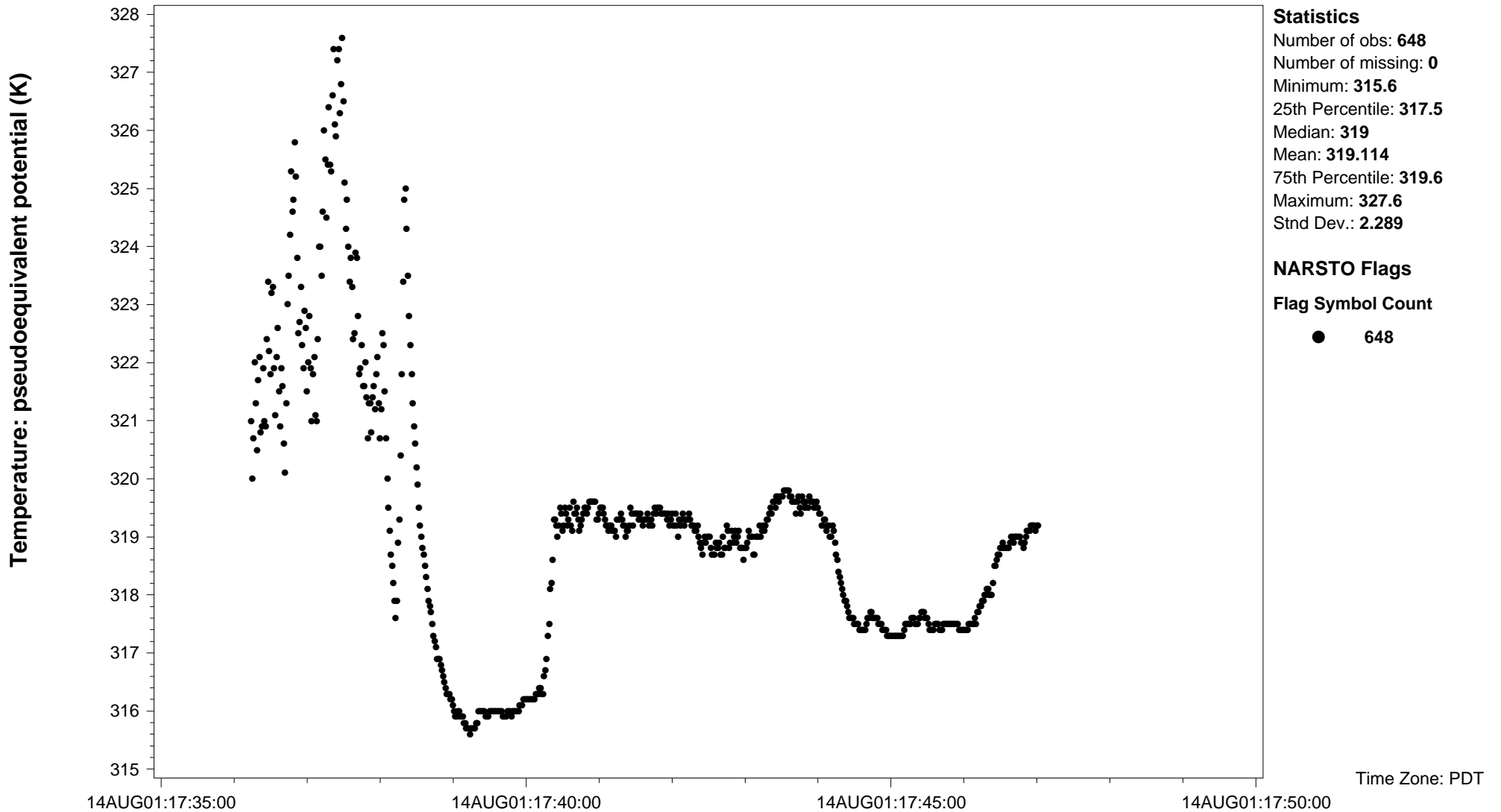


NAtChem Time Series Plot

24SEP2004

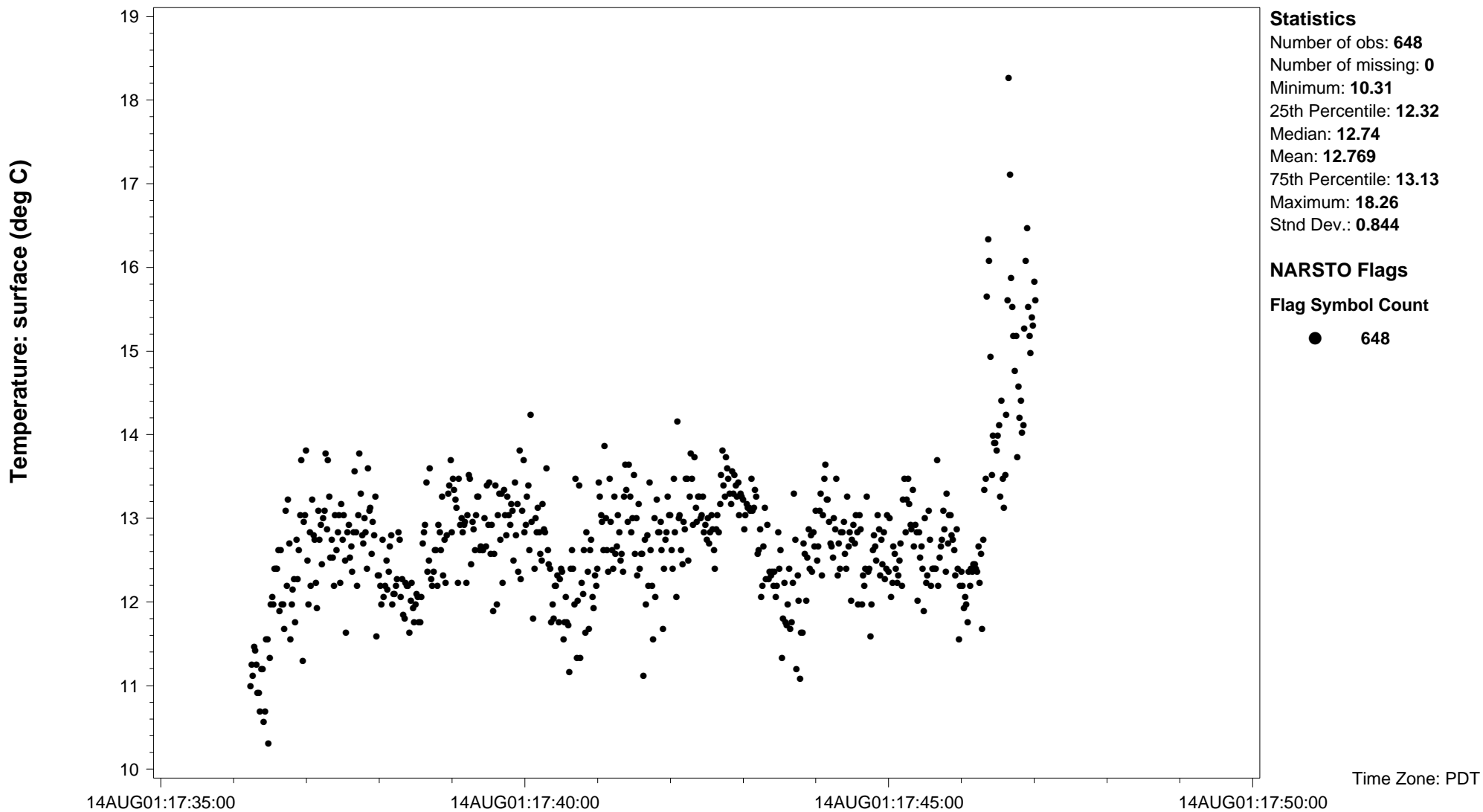
Site ID: **PC01CABCCONV** Variable name: **Temperature: pseudoequivalent potential** Units: **K** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data**
 Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti**
 Measurement principal investigator: **Dr. Shao-Meng Li**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



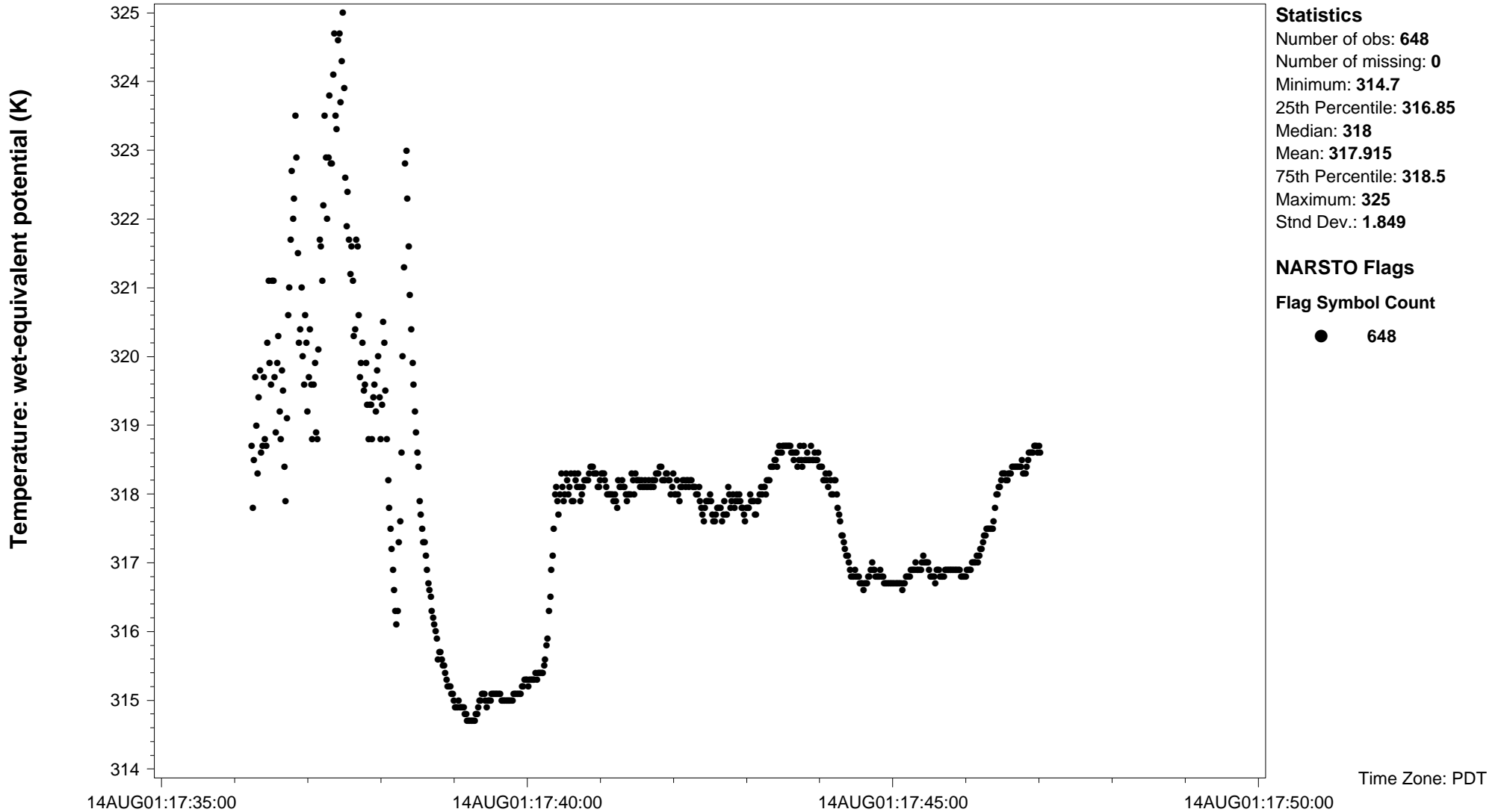
Site ID: **PC01CABCCONV** Variable name: **Temperature: surface** Units: **deg C** Sampling interval: **1 second** Sampling frequency: **Same as sampling interval**
 Observation type: **Supplementary data** Field sampling or measurement principle: **Radiometer**
 Sampling Height above ground (m): **Varies--see variable Alti** Instrument name and model number: **Barns RadiometerPRT-5**
 Measurement principal investigator: **Dr. Shao-Meng Li**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



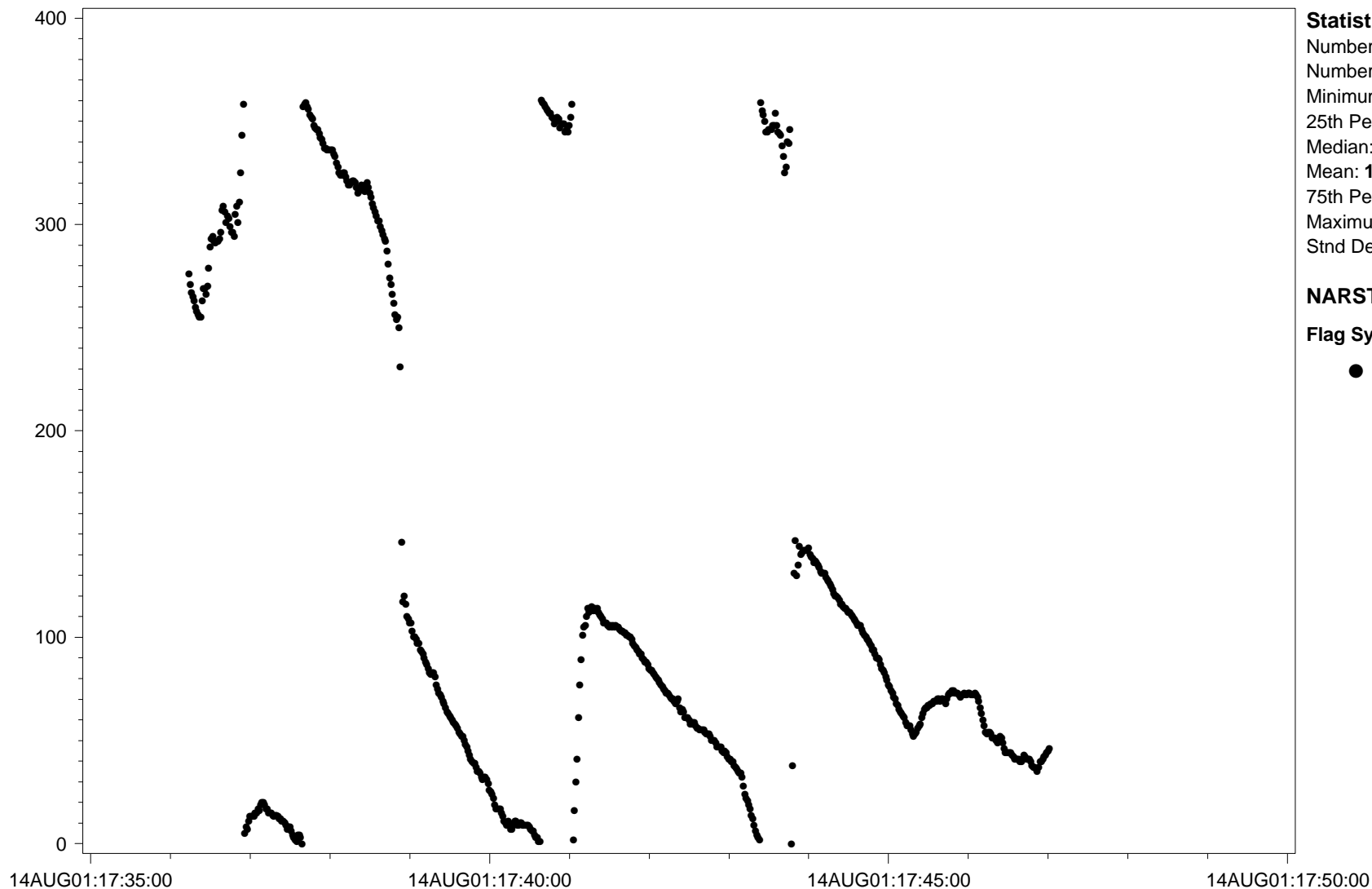
Site ID: **PC01CABCCONV** Variable name: **Temperature: wet-equivalent potential** Units: **K** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data**
 Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti**
 Measurement principal investigator: **Dr. Shao-Meng Li**

Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**



Site ID: **PC01CABCCONV** Variable name: **Wind direction: horizontal resultant vector mean** Units: **degree from true north** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data**
 Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Information not available** Measurement principal investigator: **Dr. Shao-Meng Li**
 Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

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



Statistics

Number of obs: **648**
 Number of missing: **0**
 Minimum: **0**
 25th Percentile: **44**
 Median: **76.5**
 Mean: **127.590**
 75th Percentile: **240.5**
 Maximum: **360**
 Stnd Dev.: **116.667**

NARSTO Flags

Flag Symbol Count

● 648

Time Zone: PDT

Site ID: **PC01CABCCONV** Variable name: **Wind speed: horizontal scalar mean** Units: **m/s** Sampling interval: **1 second**
 Sampling frequency: **Same as sampling interval** Observation type: **Supplementary data**
 Field sampling or measurement principle: **Aircraft instrumentation** Sampling Height above ground (m): **Varies--see variable Alti**
 Instrument name and model number: **Information not available** Measurement principal investigator: **Dr. Shao-Meng Li**
 Site Name: **Convair 580, British Columbia** Flight ID: **Flight_01_P03** Start Date: **2001-08-14** End Date: **2001-08-30**

