

File Names

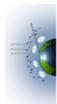
15:51 Sunday, August 19, 2007 1

File #	Original File Name
1	EPA_SS_BALTIMORE_PONCA_SEAS_PM25_CYTOKINE_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)	Ondov ; Dr.John	Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742	UMCP SEAS_Cytokine ; UMCP SEAS Cytokine mass induced in PM2.1 aerosol slurry samples	Variable interval



Dataset Key Phrases

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	2	EPA_PM_SS	EPA Particulate Matter Supersites Program	Baltimore Supersite of the U.S. EPA Particulate Matter Supersites Program	EPA_SS_BALTIMOR



Dataset Key Phrases

Study Or Network Name	Country Code	State Or Province Code	Principal Investigator Contact Information	Co-investigator Name--last first	Co-investigator Affiliation
EPA_Supersites--Baltimore	US	MD	Dr. John M. Ondov, University of Maryland, Department of Chemistry and Biochemistry, College Park,MD 20742 tel: 301-405-1859; email: jondov@umd.edu	None ; None	None



Dataset Key Phrases

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
Gregory Beachley, University of Maryland	2006/12/18	MS Excel, v2003, sp3



Dataset Key Phrases

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
None ; None	2004/09/19 ; 1	Zero values and negative values are permitted in this file. Negative cytokine values mean that the normal release of the cytokine from the bioassay cells was inhibited. The baseline media cytokine concentration from cells only exposed to normal media is subtracted from the media cytokine concentration from cells exposed to particles in their media. Thus, negative numbers are reported when less cytokine is released to the media when the cells are exposed to particles.	Detection limits stated by manufacturer of assay kits used in the measurements



Dataset Key Phrases

Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4
uncertainty reported	Cytokines induced in PM2.5 sampled with the University of Maryland SEAS (Semi-continuous Elements in Aerosol Sampler; Kidwell, C.B., Ondov, J. M.(2001)	Kidwell, C.B., Ondov, J. M. 2001. Development and evaluation of a prototype system for collecting sub-hourly ambient aerosol for chemical analysis. AEROSOL SCIENCE AND TECHNOLOGY 35 (1): 596-601.		



Dataset Key Phrases

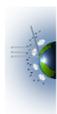
Table Name	Table Focus
PM-2.5_Elements	Surface--fixed



Site Information

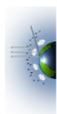
Site ID	Name	State Province code	Latitude: decimal degree	Longitude: decimal degree	Sampling height above ground (m)	Ground elevation above sea level (m)
BMSSUSMDBPON	Baltimore Ponca St.	MD	39.28889	-76.55444	5.5	130.0

Site ID	Site land use	Site location setting	Measurement start date	Measurement end date	Co-incident measurements	Study site ID	Lat lon accuracy
BMSSUSMDBPON	Industrial	Urban and center city	2002/02/14	2002/09/23	None	BPON	-999.9



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

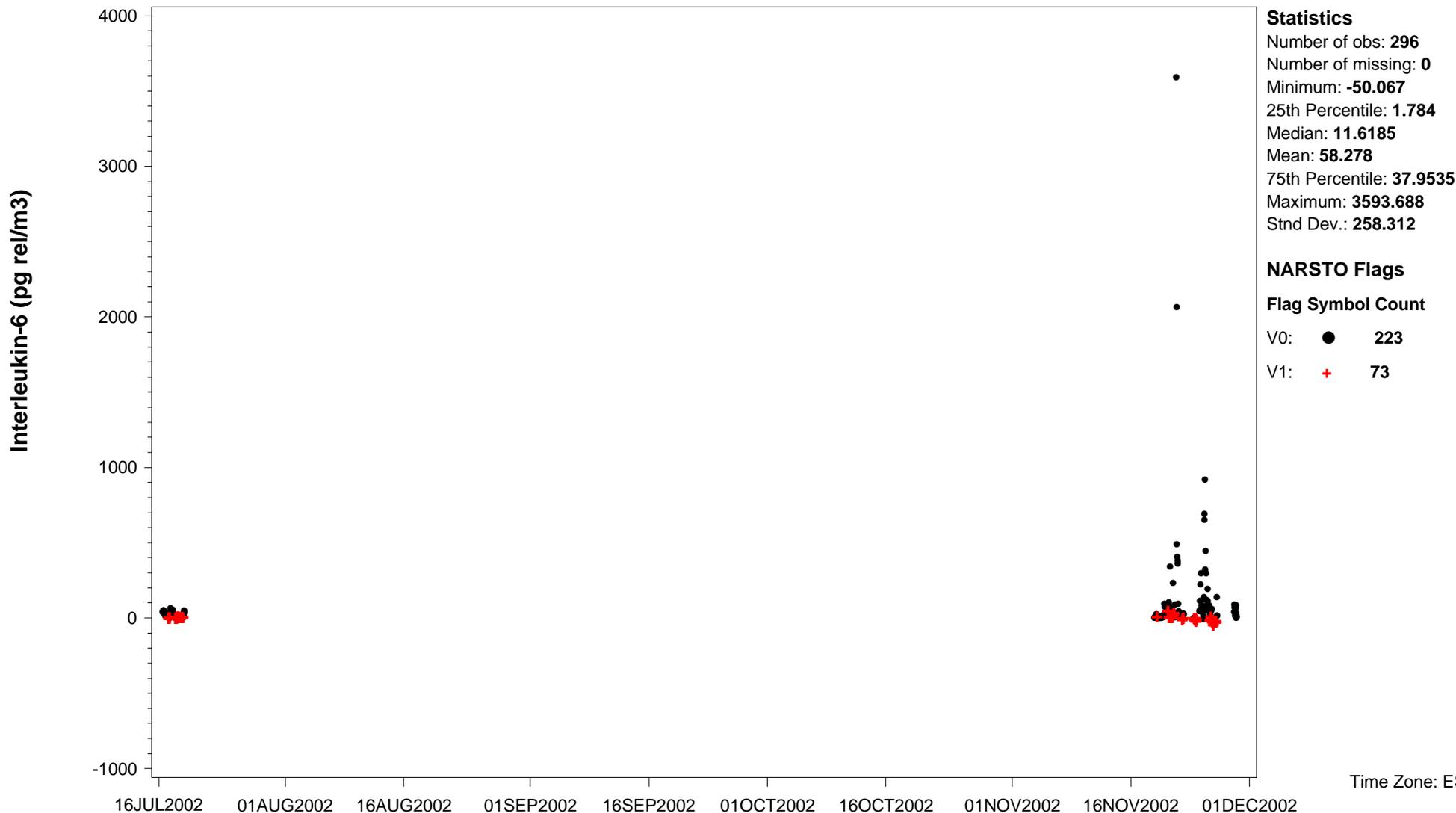


NARSTO Time Series Plot

19AUG2007

Site ID: **BMSSUSMDBPON** Variable name: **Interleukin-6** Units: **pg rel/m3** Basis: **S/N121** Sampling interval: **Variable interval**
 Sampling frequency: **Same as sampling interval** CAS ID: **C145990-81-4** Observation type: **Particles** Particle diameter--lower bound (UM): **0.05**
 Particle diameter--upper bound (UM): **2.1** Field sampling or measurement principle: **SEAS** Medium: **Slurry** Inlet type: **Impactor**
 Laboratory analytical method: **Cytokine ELISA assay** Sample preparation: **Evaporate water** Blank Correction: **Corrected for medium rele**
 Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5** Instrument name and model number: **SEAS-II**
 Measurement principal investigator: **Ondov, Prof. J. M.** Detection Limit: **3.3 - 10.4**

Site Name: **Baltimore Ponca St., Maryland** Latitude: **39.28889 deg.** Longitude: **-76.55444 deg.** Start Date: **2002-02-14** End Date: **2002-09-23**

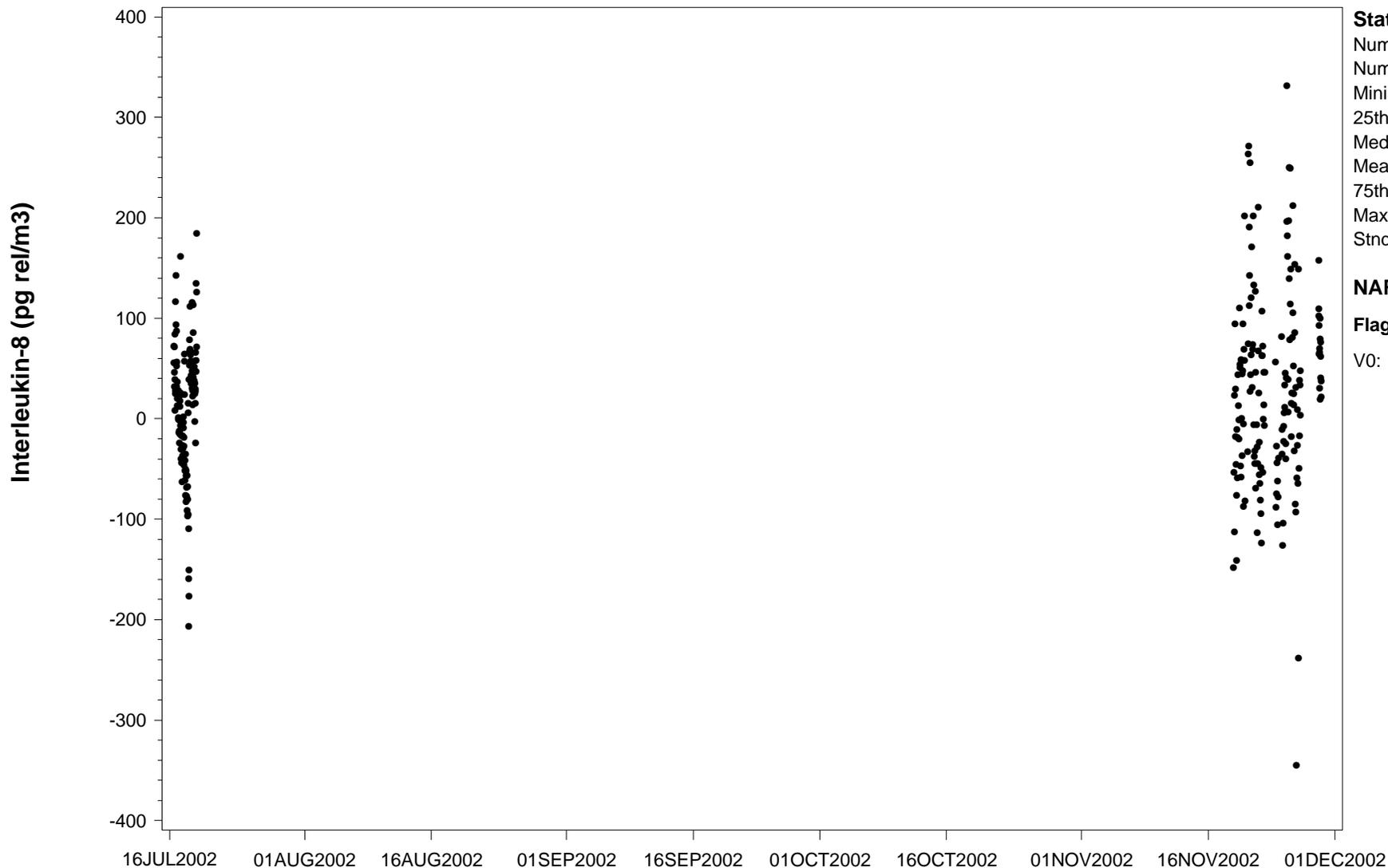


NARSTO Time Series Plot

19AUG2007

Site ID: **BMSSUSMDBPON** Variable name: **Interleukin-8** Units: **pg rel/m3** Basis: **S/N121** Sampling interval: **Variable interval**
Sampling frequency: **Same as sampling interval** CAS ID: **C545380-34-5** Observation type: **Particles** Particle diameter--lower bound (UM): **0.05**
Particle diameter--upper bound (UM): **2.1** Field sampling or measurement principle: **SEAS** Medium: **Slurry** Inlet type: **Impactor**
Laboratory analytical method: **Cytokine ELISA assay** Sample preparation: **Evaporate water** Blank Correction: **Corrected for medium rele**
Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5** Instrument name and model number: **SEAS-II**
Measurement principal investigator: **Ondov, Prof. J. M.** Detection Limit: **3.3 - 10.4**

Site Name: **Baltimore Ponca St., Maryland** Latitude: **39.28889 deg.** Longitude: **-76.55444 deg.** Start Date: **2002-02-14** End Date: **2002-09-23**

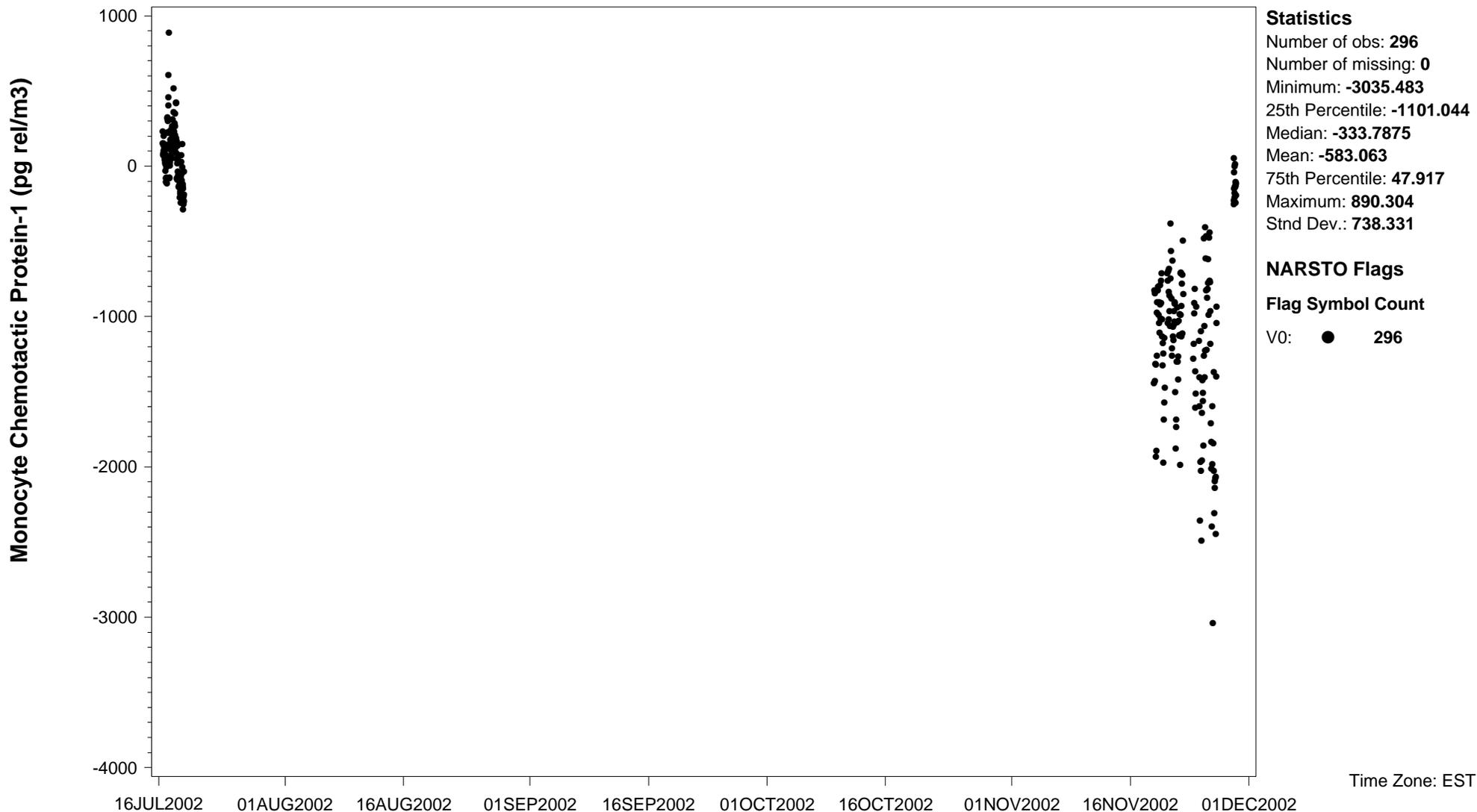


NARSTO Time Series Plot

19AUG2007

Site ID: **BMSSUSMDBPON** Variable name: **Monocyte Chemotactic Protein-1** Units: **pg rel/m3** Basis: **S/N121** Sampling interval: **Variable interval**
Sampling frequency: **Same as sampling interval** Observation type: **Particles** Particle diameter--lower bound (UM): **0.05**
Particle diameter--upper bound (UM): **2.1** Field sampling or measurement principle: **SEAS** Medium: **Slurry** Inlet type: **Impactor**
Laboratory analytical method: **Cytokine ELISA assay** Sample preparation: **Evaporate water** Blank Correction: **Corrected for medium rele**
Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5** Instrument name and model number: **SEAS-II**
Measurement principal investigator: **Ondov, Prof. J. M.** Detection Limit: **3.3 - 10.4**

Site Name: **Baltimore Ponca St., Maryland** Latitude: **39.28889 deg.** Longitude: **-76.55444 deg.** Start Date: **2002-02-14** End Date: **2002-09-23**

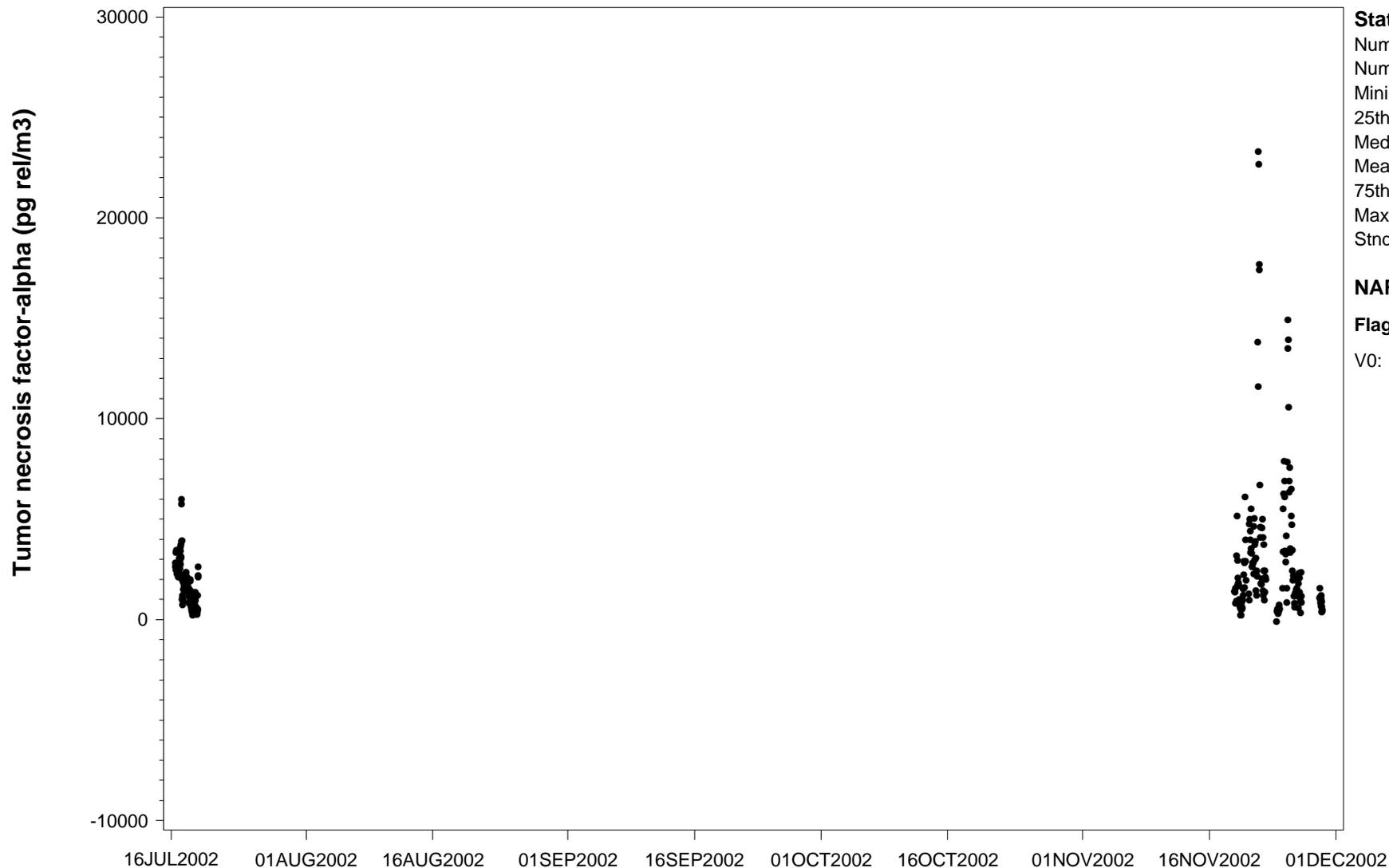


NARSTO Time Series Plot

19AUG2007

Site ID: **BMSSUSMDBPON** Variable name: **Tumor necrosis factor-alpha** Units: **pg rel/m3** Basis: **S/N121** Sampling interval: **Variable interval**
Sampling frequency: **Same as sampling interval** CAS ID: **C94948-59-1** Observation type: **Particles** Particle diameter--lower bound (UM): **0.05**
Particle diameter--upper bound (UM): **2.1** Field sampling or measurement principle: **SEAS** Medium: **Slurry** Inlet type: **Impactor**
Laboratory analytical method: **Cytokine ELISA assay** Sample preparation: **Evaporate water** Blank Correction: **Corrected for medium rele**
Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5** Instrument name and model number: **SEAS-II**
Measurement principal investigator: **Ondov, Prof. J. M.** Detection Limit: **3.3 - 10.4**

Site Name: **Baltimore Ponca St., Maryland** Latitude: **39.28889 deg.** Longitude: **-76.55444 deg.** Start Date: **2002-02-14** End Date: **2002-09-23**



Statistics

Number of obs: **296**
Number of missing: **0**
Minimum: **-113.112**
25th Percentile: **953.891**
Median: **1727.059**
Mean: **2531.881**
75th Percentile: **2859.526**
Maximum: **23309.345**
Std Dev.: **3035.598**

NARSTO Flags

Flag Symbol Count

V0: ● 296

Time Zone: EST

