

Rachel Carson State Office Building
P.O. Box 8468
Harrisburg, PA 17105-8468
March 12, 2009

Bureau of Air Quality

717-787-6548

Mr. Andrew Hass
US Environmental Protection Agency Region 3
1650 Arch Street, Mail Stop 3AP22
Philadelphia, PA 19103-2029

Subject: Flagging of Ozone data due to the 2008 North Carolina Wildfires

Dear Mr. Hass,

As you are aware, the lightning-sparked North Carolina fires in June 2008, impacted numerous air monitoring stations across central and eastern Pennsylvania resulting in elevated ozone concentrations. Whenever such fires occur, they emit volatile organic compounds (VOC's) including hydrocarbons and partially oxidized compounds that can result in unusually high ozone levels when combined with sunlight and temperatures in the high 80s and low 90s .

Specifically, Pennsylvania recorded elevated ozone readings at many sites throughout the central and eastern portions of the state on June 13 and 14, 2008. We have examined the ozone data for June 13 and June 14, 2008 and have flagged a significant portion of this data in the AQS database with the exceptional event "RT" flag. If EPA is in agreement with the flagging of these data points, we ask that you place a concurrence flag in the Air Quality System (AQS) database for each of our flags. The "RT" flag is the exceptional event code used by the U.S. Environmental Protection Agency (EPA) to identify readings due to wildfires.

In support of our exceptional event data flagging request we are enclosing AQS data reports from the affected monitoring sites that show the readings before and after the fire event. We are also including forward and backward trajectories using the National Oceanic and Atmospheric Administration (NOAA) "HYSPLIT" transport and dispersion model, satellite measurements of the depth or thickness of atmospheric aerosol and news headlines. We feel that this information adequately describes the episode and serves as a justification for concurrence of the exceptional event data flags.

Ozone Data (see Attachment 1)

Attachment 1 shows the ozone data for the dates that the North Carolina fires caused elevated concentrations and for several days before and after the event. The data that we have flagged are highlighted in yellow. We have flagged the ozone data at the Norristown (420910013), Allentown (420770004), Freemansburg (420950025), Easton (420958000), Reading (420110011), Kutztown (420110008), Nanticoke (420791100), Wilkes-Barre (420791101), Scranton (420692006), Peckville (420690101), Pocono (420890002), Lancaster (420710007), Lancaster DW (420710012), Harrisburg (420430401), Hershey (420431100), York (421330008), York DW (421330011), Perry County (420990301), Biglerville (420010002) and Montoursville (420810100) sites for June 13, 2008. For June 14, 2008 we have flagged data for the Bristol (420170012) and Chester (420450002) sites.

Forward Trajectories using the NOAA Model (see Attachment 2)

Pennsylvania has used the National Oceanic and Atmospheric Administration (NOAA) "HYSPLIT" transport and dispersion model and plotted forward trajectories for the North Carolina fires. We have selected the Pocosin Lakes National Wildlife Refuge in eastern North Carolina as the reference point because it is here that the fires were burning most intensely and where the heaviest smoke concentrations originated for the longest duration. As can be seen in these plots, the air mass originated from North Carolina and moved into Pennsylvania on June 13, 2008 and June 14, 2008.

Backward Trajectories using the NOAA Model (see Attachment 3)

Pennsylvania has used the National Oceanic and Atmospheric Administration (NOAA) "HYSPLIT" transport and dispersion model and plotted backward trajectories for the Freemansburg and Scranton sites. We used these sites because they mark the approximate north eastern and south eastern geographical boundaries of the state affected by the smoke event. Both these trajectories indicate that the air masses were at point across Northern Virginia about roughly 18 hours prior to the trajectory ending time. Satellite images in Attachment 4 clearly show that these trajectories picked up the smoke and directed it towards Central and Eastern Pennsylvania.

Satellite Images measuring Aerosol Optical Depth (AOD) (see Attachment 4)

Attached are satellite images which show the path of highest AOD from June 12, 13, 14 and 15, 2008. These maps show satellite measurements of the depth or thickness of atmospheric aerosol (fine particulate matter, smoke, ozone precursors) over a given area. The areas in red denote the highest concentrations of aerosol, and areas in blue are areas of low concentration. The attached images clearly show these aerosols which initially only affected North Carolina progressing northward and eventually affecting Pennsylvania, on June 13th and on June 14th of 2008.

Reports from various Web Sites (see Attachment 5)

We are including headlines and reports from various media sources to authenticate the intensity and size of the wild fires in North Carolina.

To provide public notice and the opportunity to comment on our exceptional event flagging concurrence, we have posted this letter along with all the attached supporting documentation on our website at <http://www.dep.state.pa.us/dep/deputate/airwaste/aq/default.htm>. We have received no public comments at this time.

If you have any questions regarding this report, please contact Kirit Dalal or me at (717) 787-6548.

Sincerely,

Jeffrey Miller, Chief
Division of Air Quality Monitoring

Enclosure

Cc: Walter Wilkie (EPA Region III)
Lori Hyden (EPA Region III)
Cathleen Kennedy (EPA Region III)

bcc: Reading File

Attachment 1

Attachment 1 shows all the ozone data for the affected sites from June 6, 2008 through June 20, 2008. The data that we have flagged are highlighted in yellow. We have flagged the ozone data at the Norristown, Allentown, Freemansburg, Easton, Reading, Kutztown, Nanticoke, Wilkes-Barre, Scranton, Peckville, Pocono (Swiftwater), Lancaster, Lancaster DW, Harrisburg, Hershey, York, York DW, Perry County, Biglerville and Montoursville sites for June 13, 2008. For June 14, 2008 we have flagged data for the Bristol and Chester sites.

User ID: VSH

RAW DATA REPORT

Report Request ID: 614703

Report Code: AMP350

Feb. 27, 2009

GEOGRAPHIC SELECTIONS

Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region	Method	Duration	Begin Date	End Date
	42	077	0004												
	42	001	0002												
	42	017	0012												
	42	045	0002												
	42	095	8000												
	42	095	0025												
	42	043	0401												
	42	043	1100												

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		1

SELECTED OPTIONS

Option Type	Option Value
RAW DATA EVENTS	INCLUDE EVENTS
INCLUDE NULLS	YES
DAILY STATISTICS	MAXIMUM
MERGE PDF FILES	YES
UNITS	STANDARD

SORT ORDER

Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC

GLOBAL DATES

Start Date	End Date
2008 06 06	2008 06 20

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-001-0002 POC: 1
 COUNTY: (001) Adams
 CITY: (06296) Biglerville
 SITE ADDRESS: UNIVERSITY DRIVE- PENN STATE RESEACH ORCHART
 SITE COMMENTS:
 MONITOR COMMENTS: MONITOR OPERATED BY PENN STATE

STATE: (42) Pennsylvania
 AQCR: (196) SOUTH CENTRAL PENNSYLVANIA
 URBANIZED AREA: (0000) NOT IN AN URBAN AREA
 LAND USE: AGRICULTURAL
 LOCATION SETTING: RURAL

CAS NUMBER: 10028-15-6
 LATITUDE: 39.9300000009
 LONGITUDE: -77.25
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 0
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: OTHER
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQAQ ORG: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: JUNE 2008
 DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.042	.034	.028	.026	.027	.029	.030	.030	.029	.032	.033	.035	.038	.043	.048	.053	.058	.061	.061	.056	.053	.049	.048	.041	.041	24	.061	
7	.037	.032	.032	.021	.018	.018	.018	.020	.027	.039	.052	.053	.056	.054	.055	.056	.055	.050	.042	.041	.035	.029	.028	.028	24	.056		
8	.027	.022	.022	.023	.023	.020	.018	.026	.035	.041	.041	.042	.042	.043	.045	.044	.044	.047	.044	.042	.044	.036	.035	.027	24	.047		
9	.028	.040	.037	.035	.036	.037	.039	.044	.046	.046	.050	.054	.056	.056	.053	.052	.053	.051	.044	.040	.044	.041	.035	.027	24	.056		
10	.023	.020	.020	.025	.022	.015	.013	.022	.038	.047	.053	.066	.067	.071	.071	.070	.059	.056	.049	.041	.035	.038	.042	.042	24	.071		
11	.046	.044	.042	.044	.048	.048	.047	.051	.054	.056	.058	.059	.061	.061	.061	.061	.060	.059	.051	.047	.045	.042	.029	.038	24	.061		
12	.033	.017	.030	.028	.041	.033	.031	.043	.052	.059	.063	.067	.070	.076	.074	.075	.074	.071	.072	.060	.066	.051	.054	.058	24	.076		
13	.046rt	.058rt	.038rt	.030rt	.042rt	.043rt	.041rt	.041rt	.056rt	.061rt	.071rt	.078rt	.086rt	.086rt	.088rt	.083rt	.093rt	.089rt	.080rt	.073rt	.069rt	.065rt	.060rt	.055rt	24	.093		
14	.055	.047	.043	.040	.038	.027	.035	.041	.044	.047	.049	.051	.055	.056	.054	.054	.047	.041	.040	.036	.033	.031	.027	.023	24	.056		
15	.025	.032	.028	.030	.036	.037	.037	.039	.045	.049	.052	.055	.056	.054	.055	.054	.053	.049	.042	.042	.042	.047	.046	.045	24	.056		
16	.044	.038	.035	.033	.029	.018	.016	.016	.032	.048	.056	.054	.053	.050	.047	.045	.046	.045	.043	.040	.031	.031	.030	.028	24	.056		
17	.026	.029	.035	.043	.036	.046	.045	.043	.045	.046	.045	.045	.044	.042	.046	.047	.048	.048	.045	.044	.042	.040	.035	.035	24	.048		
18	.032	.029	.027	.019	.029	.029	.031	.034	.038	.041	.043	.047	.051	.053	.047	.043	.042	.041	.035	.034	.035	.030	.025	.025	24	.053		
19	.026	.025	.020	.018	.014	.014	.020	.026	.031	.034	.037	.041	.041	.043	.044	.048	.049	.049	.046	.038	.042	.037	.025	.027	24	.049		
20	.027	.017	.011	.016	.011	.016	.014	.032	.036	.041	.050	.058	.060	.059	.059	.061	.053	.048	.040	.033	.027	.040	.030	.037	24	.061		
21																										0		
22																										0		
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26																										0		
27																										0		
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29																										0		
30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.055	.058	.043	.044	.048	.048	.047	.051	.056	.061	.071	.078	.086	.086	.088	.083	.093	.089	.080	.073	.069	.065	.060	.058				
AVG:	.0345	.0323	.0299	.0287	.0300	.0287	.0290	.0339	.0405	.0458	.0502	.0537	.0557	.0565	.0565	.0559	.0552	.0539	.0491	.0443	.0427	.0402	.0363	.0357				

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0425 MONTHLY MAX: .093

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-017-0012 POC: 1
 COUNTY: (017) Bucks
 CITY: (08760) Bristol
 SITE ADDRESS: ROCKVIEW LANE
 SITE COMMENTS: FDR JUNIOR HIGH SCHOOL P0900501 PA SITE CODE
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (045) METROPOLITAN PHILADELPHIA
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.107222
 LONGITUDE: -74.882222
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 12
 PROBE HEIGHT: 2

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: JUNE 2008 DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.044	.048	.043	.042	.039	.037	.034	.033	.033	.034	.036	.040	.051	.065	.070	.072	.073	.066	.067	.052	.035	.029	.023	.019	.019	24	.073	
7	.017	.007	.009	.012	.013	.010	.009	.010	.018	.034	.054	.081	.099	.109	.088	.064	.072	.075	.064	.054	.048	.040	.039	.034	.024	24	.109	
8	.024	.019	.016	.013	.011	.010	.019	.031	.035	.045	.054	.059	.062	.059	.060	.056	.056	.054	.049	.044	.040	.041	.033	.020	24	.062		
9	.010	.009	.002	.013	.019	.019	.023	.034	.048	.058	.065	.067	.071	.074	.082	.077	.077	.076	.061	.058	.045	.042	.050	.046	24	.082		
10	.035	.020	.011	.002	.002	.002	.008	.017	.048	.070	.092	.105	.111	.119	.119	.107	.095	.074	.067	.066	.052	.043	.039	.031	24	.119		
11	.024	.022	.013	.013	.011	.008	.022	.031	.038	.043	.051	.056	.061	.066	.069	.068	.068	.069	.065	.050	.023	.002	.002	.002	24	.069		
12	.002	.002	.002	.002	.002	.002	.029	.041	AT	.048	.051	.054	.060	.063	.066	.068	.066	.061	.054	.078	.080	.070	.063	.052	23	.080		
13	.041	.030	.020	.002	.002	.002	.012	.035	.046	.057	.063	.066	.072	.076	.079	.079	.069	.064	.061	.052	.048	.043	.040	.034	24	.079		
14	.032rt	.036rt	.037rt	.039rt	.034rt	.025rt	.026rt	.038rt	.044rt	.054rt	.066rt	.086rt	.103rt	.093rt	.091rt	.104rt	.100rt	.095rt	.065rt	.064rt	.049rt	.040rt	.032rt	.029rt	24	.104		
15	.034	.025	.019	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	3	.034		
16	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AQ	AV	.063	.067	.066	.071	.056	.048	.046	.049	.042	.032	.016	11	.071		
17	.014	AT	.007	.002	.002	.002	BA	.026	.034	.045	.050	.053	.054	.051	.046	.046	.044	.044	.041	.036	.033	.031	.023	.015	22	.054		
18	.008	.002	.002	.002	.002	.002	.015	.027	.034	.038	.042	.042	.043	.042	.047	.046	.049	.041	.031	.023	.007	.002	.002	.002	24	.049		
19	.002	.002	.002	.002	.002	.002	.006	.014	.022	.030	.034	.037	.042	.045	.047	.049	.049	.050	.046	.039	.022	.005	.002	.002	24	.050		
20	.002	.002	.002	.002	.002	.002	.002	.013	.023	.035	.048	.054	.058	.061	.062	.064	.065	.062	.058	.055	.055	.048	.044	.039	24	.065		
21																										0		
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31																										0		
NO.:	14	13	14	13	13	13	12	13	12	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14			
MAX:	.044	.048	.043	.042	.039	.037	.034	.041	.048	.070	.092	.105	.111	.119	.119	.107	.100	.095	.067	.078	.080	.070	.063	.052				
AVG:	.0206	.0172	.0132	.0112	.0108	.0095	.0171	.0269	.0353	.0455	.0543	.0615	.0682	.0704	.0709	.0690	.0681	.0634	.0555	.0512	.0419	.0341	.0303	.0244				

MONTHLY OBSERVATIONS: 323 MONTHLY MEAN: .0408 MONTHLY MAX: .119

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-043-0401 POC: 1
 COUNTY: (043) Dauphin
 CITY: (32800) Harrisburg
 SITE ADDRESS: 1833 UPS DRIVE HARRISBURG PA
 SITE COMMENTS: COPAMS #1 MOVED FROM SITE 393880361P01 IN JUNE 1978
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (196) SOUTH CENTRAL PENNSYLVANIA
 URBANIZED AREA: (3239) HARRISBURG, PA
 LAND USE: COMMERCIAL
 LOCATION SETTING: RURAL

CAS NUMBER: 10028-15-6
 LATITUDE: 40.245
 LONGITUDE: -76.844722
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 125
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection
 HOUR

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.039	.041	.046	.046	.043	.039	.033	.028	.024	.025	.029	.031	.039	.047	.052	.051	.052	.053	.043	.032	.028	.020	.015	.031	24	.053		
7	.032	.016	.009	.002	.002	.002	.002	.014	.025	.033	.054	.060	.056	.057	.059	.060	.058	.057	.050	.035	.018	.021	.025	.031	24	.060		
8	.019	.009	.010	.013	.005	.009	.020	.022	.032	.042	.046	.043	.044	.047	.046	.047	.047	.049	.048	.040	.033	.027	.024	.025	24	.049		
9	.023	.016	.018	.011	.007	.007	.013	.024	.044	.049	BA	BA	AM	.044	.048	.055	.056	.052	.044	.029	.019	.019	.013	.006	21	.056		
10	.002	.002	.002	.002	.002	.002	.002	.008	.022	.045	.064	.068	.068	.060	.073	.066	.059	.054	.048	.039	.036	.034	.040	.043	24	.073		
11	.045	.043	.043	.042	.038	.033	.035	.041	.049	.055	.060	.062	.064	.063	.063	.062	.063	.063	.058	.044	.030	.011	.024	.020	24	.064		
12	.002	.005	.002	.002	.002	.002	.005	.023	.049	.049	.058	.062	.060	.062	.063	.064	.066	.065	.053	.051	.046	.027	.008	.002	24	.066		
13	.002rt	.002rt	.016rt	.002rt	.002rt	.009rt	.017rt	.034rt	.040rt	.049rt	.065rt	.078rt	.086rt	.082rt	.086rt	.093rt	.105rt	.099rt	.094rt	.086rt	.075rt	.060rt	.059rt	.049rt	24	.105		
14	.042	.044	.038	.035	.031	.024	.029	.044	.050	.054	.057	.062	.058	.060	.065	.055	.039	.045	.041	.041	.036	.033	.033	.027	24	.065		
15	.024	.022	.022	.024	.022	.023	.026	.031	.040	.047	.053	.055	.056	.057	.057	.056	.055	.053	.047	.036	.027	.025	.028	24	.057			
16	.017	.019	.013	.015	.005	.006	.013	.017	.023	.042	.059	.059	.060	.058	.054	.051	.046	.044	.042	.021	.017	.007	.025	.018	24	.060		
17	.007	.007	.002	.002	.002	.007	.019	.032	.041	.043	.042	.042	.040	.040	.040	.041	.042	.044	.041	.039	.038	.035	.028	.010	24	.044		
18	.010	.022	.024	.016	.013	.012	.012	.018	.028	.036	.041	.044	.045	.047	.043	.040	.038	.034	.034	.034	.028	.025	.020	.013	24	.047		
19	.006	.008	.002	.002	.002	.002	.007	.017	.026	.028	.033	.033	.037	.038	.039	.041	.042	.043	.036	.025	.020	.009	.002	.005	24	.043		
20	.002	.002	.002	.002	.002	.002	.011	.014	.022	.025	.037	.052	.056	.058	.061	.060	.058	.054	.051	.038	.041	.032	.018	.014	24	.061		
21																										0		
22																										0		
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30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	15	15	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.045	.044	.046	.046	.043	.039	.035	.044	.050	.055	.065	.078	.086	.082	.086	.093	.105	.099	.094	.086	.075	.060	.059	.049				
AVG:	.0181	.0172	.0166	.0144	.0119	.0119	.0163	.0245	.0343	.0415	.0499	.0536	.0549	.0547	.0566	.0561	.0551	.0541	.0491	.0401	.0334	.0258	.0239	.0215				

MONTHLY OBSERVATIONS: 357 MONTHLY MEAN: .0347 MONTHLY MAX: .105

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-043-1100 POC: 1
 COUNTY: (043) Dauphin
 CITY: (34144) Hershey
 SITE ADDRESS: SIPE AVE & MAE STREET
 SITE COMMENTS: HERSHEY FOODS TECHNICAL CENTER - REAR OF BLDG 32291206 PA SITE CODE
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (196) SOUTH CENTRAL PENNSYLVANIA
 URBANIZED AREA: (3239) HARRISBURG, PA
 LAND USE: COMMERCIAL
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10028-15-6
 LATITUDE: 40.272222
 LONGITUDE: -76.681389
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 125
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.042	.046	.045	.045	.045	.044	.038	.033	.032	.030	.032	.035	.041	.055	.061	.068	.063	.060	.061	.051	.036	.021	.018	.025	24	.068		
7	.011	.009	.002	.002	.002	.002	.005	.008	.019	.039	.060	.064	.060	.062	.062	.063	.060	.061	.046	.035	.027	.024	.033	.029	24	.064		
8	.020	.026	.026	.017	.015	.013	.022	.024	.035	.045	.050	.047	.046	.048	.049	.047	.046	.044	.043	.037	.031	.029	.029	.032	24	.050		
9	.024	.025	.021	.022	.020	.014	.015	.024	.046	.050	.050	.050	.055	.061	.061	.064	.065	.061	.048	.040	.034	.018	.006	.010	24	.065		
10	.002	.002	.002	.002	.002	.002	.002	.013	.020	.049	.067	.071	.074	.063	.068	.075	.068	.056	.054	.042	.034	.036	.036	.039	24	.075		
11	.039	.033	.036	.032	.030	.027	.039	.045	.050	.054	.058	.061	.063	.061	.064	.061	.060	.062	.059	.048	.027	.030	.019	.008	24	.064		
12	.002	.002	.002	.002	.002	.002	.008	.031	.047	.057	.064	.068	.066	.060	.061	.064	.066	.065	.064	.048	.026	.030	.020	.011	24	.068		
13	.005rt	.033rt	.018rt	.002rt	.006rt	.007rt	.026rt	.040rt	.046rt	.049rt	.061rt	.080rt	.087rt	.093rt	.093rt	.105rt	.112rt	.098rt	.090rt	.082rt	.076rt	.066rt	.059rt	.052rt	24	.112		
14	.048	.046	.040	.039	.032	.037	.033	.045	.051	.056	.063	.070	.066	.055	.071	.062	.048	.049	.042	.041	.036	.037	.029	.026	24	.071		
15	.022	.020	.021	.018	.018	.023	.025	.033	.040	.048	.052	.055	.059	.055	.053	.053	.053	.048	.040	.034	.023	.025	.021	.024	24	.059		
16	.026	.026	.012	.016	.009	.005	.009	.019	.025	.044	.058	.062	.062	.064	.058	.057	.053	.048	.046	.034	.026	.018	.022	.029	24	.064		
17	.020	.009	.009	.009	.005	.002	.008	.025	AL	.038	.041	.040	.040	.040	.039	.041	.041	.042	.039	.030	.030	.034	.031	.025	23	.042		
18	.020	.022	.020	.012	.015	.016	.012	.016	.025	.037	.042	.045	.046	.048	.044	.036	.038	.037	.037	.032	.024	.020	.011	.011	24	.048		
19	.011	.005	.002	.002	.002	.002	.009	.018	.024	.029	.035	.036	.039	.039	.040	.041	.040	.042	.036	.029	.009	.005	.015	.002	24	.042		
20	.002	.002	.002	.002	.002	.002	.005	.013	.023	.035	.041	.052	.057	.059	.060	.060	.063	.059	.057	.053	.049	.030	.021	.011	24	.063		
21																											0	
22																											0	
23																											0	
24																											0	
25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.048	.046	.045	.045	.045	.044	.039	.045	.051	.057	.067	.080	.087	.093	.093	.105	.112	.098	.090	.082	.076	.066	.059	.052				
AVG:	.0196	.0204	.0172	.0148	.0137	.0132	.0171	.0258	.0345	.0440	.0516	.0557	.0574	.0575	.0589	.0598	.0584	.0558	.0513	.0428	.0333	.0281	.0249	.0221				

MONTHLY OBSERVATIONS: 359 MONTHLY MEAN: .0366 MONTHLY MAX: .112

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-045-0002 POC: 1
 COUNTY: (045) Delaware
 CITY: (13208) Chester
 SITE ADDRESS: FRONT ST & NORRIS ST
 SITE COMMENTS: CHESTER COPAMS SITE / PHILADELPHIA GAS P2300111 PA SITE CODE
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (045) METROPOLITAN PHILADELPHIA
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ
 LAND USE: INDUSTRIAL
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10028-15-6
 LATITUDE: 39.835556
 LONGITUDE: -75.3725
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 3
 PROBE HEIGHT: 2

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection
 HOUR

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.046	.042	.040	.040	.040	.035	.034	.036	.039	.040	.041	.040	.047	.052	.054	.056	.057	.049	.042	.034	.028	.031	.038	.037	.037	24	.057	
7	.030	.023	.022	.011	.009	.011	.010	.014	.015	.023	.032	.045	.067	.071	.067	.065	.062	.063	.053	.037	.039	.038	.033	.027	.024	24	.071	
8	.026	.020	.023	.020	.017	.021	.020	.017	.030	.037	.052	.053	.051	.056	.053	.048	.048	.041	.054	.050	.047	.028	.027	.019	24	.056		
9	.017	.011	.008	.023	.022	.018	.026	.034	.046	.058	.063	.067	.067	.072	.077	.069	.071	.057	.071	.064	.041	.046	.040	.035	24	.077		
10	.029	.013	.024	.007	.012	.009	.012	.016	AM	.039	.053	.070	.091	.083	.078	.074	.075	.065	.063	.068	.059	.047	.042	.033	23	.091		
11	.028	.025	.021	.022	.021	.021	.025	.032	.038	.044	.053	.059	.061	.067	.072	.069	.071	.070	.067	.055	.028	.015	.009	.005	24	.072		
12	.012	.024	.024	.021	.021	.022	.020	.027	.037	.044	.054	.063	.069	.071	.064	.068	.068	.069	.065	.072	.073	.071	.070	.064	24	.073		
13	.059	.055	.052	.051	.045	.031	.030	.028	.044	.064	.070	.080	.079	.074	.075	.075	.069	.065	.058	.052	.046	.040	.032	.035	24	.080		
14	.035rt	.038rt	.037rt	.033rt	.037rt	.035rt	.037rt	.037rt	.047rt	.057rt	.068rt	.080rt	.083rt	.084rt	.089rt	.084rt	.082rt	.078rt	.050rt	.053rt	.043rt	.033rt	.029rt	.029rt	24	.089		
15	.021	.022	.016	.018	.014	.013	.016	.020	.029	.031	.039	.045	.049	.052	.056	.056	.059	.059	.057	.041	.027	.031	.031	.029	24	.059		
16	.028	.002	.002	.002	.006	.006	.014	.019	.025	.038	.055	.062	.065	.068	.083	.067	.056	.046	.042	.047	.046	.036	.022	.031	24	.083		
17	.030	.029	.024	.019	.014	.015	.022	.029	.036	.047	.054	.054	.053	.050	.047	.046	.047	.047	.042	.036	.037	.031	.019	.014	24	.054		
18	.016	.020	.008	.002	.002	.002	.014	.021	.028	.039	.045	.046	.041	.046	.049	.048	.044	.040	.032	.022	.024	.023	.013	.012	24	.049		
19	.015	.012	.009	.009	.007	.006	.008	.016	.022	.031	.035	.039	.042	.043	.046	.049	.048	.048	.045	.035	.014	.002	.002	.002	24	.049		
20	.002	.002	.005	.002	.002	.002	.002	.013	.027	.042	.052	.058	.056	.055	.059	.064	.068	.070	.069	.058	.056	.049	.043	.033	24	.070		
21																										0		
22																										0		
23																										0		
24																										0		
25																										0		
26																										0		
27																										0		
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29																										0		
30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.059	.055	.052	.051	.045	.035	.037	.037	.047	.064	.070	.080	.091	.084	.089	.084	.082	.078	.071	.072	.073	.071	.070	.064				
AVG:	.0263	.0225	.0210	.0187	.0179	.0165	.0193	.0239	.0331	.0423	.0511	.0574	.0614	.0629	.0646	.0625	.0617	.0578	.0540	.0483	.0405	.0347	.0300	.0270				

MONTHLY OBSERVATIONS: 359 MONTHLY MEAN: .0398 MONTHLY MAX: .091

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-077-0004 POC: 1
 COUNTY: (077) Lehigh
 CITY: (02000) Allentown
 SITE ADDRESS: STATE HOSPITAL REAR 1600 HANOVER AVE
 SITE COMMENTS: REPLACES COPAMS SITE A01 7/84 PA SITE CODE A3900119
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (0240) ALLENTOWN-BETHLEHEM-EASTON, PA-NJ
 LAND USE: COMMERCIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.611944
 LONGITUDE: -75.4325
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 116
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection
 HOUR

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.040	.040	.047	.043	.041	.039	.037	.033	.033	.037	.036	.041	.048	.058	.064	.067	.068	.061	.048	.045	.042	.043	.042	.040	24	.068		
7	.038	.024	.038	.029	.009	.005	.015	.023	.038	.053	.064	.069	.069	.069	.064	.058	.060	.063	.057	.055	.049	.041	.043	.035	24	.069		
8	.030	.030	.029	.025	.024	.023	.024	.032	.042	.048	.054	.059	.060	.060	.056	.054	.055	.054	.051	.045	.030	.034	.040	.039	24	.060		
9	.032	.021	.021	.017	.018	.020	.021	.035	.052	.059	.061	.061	.062	.061	.065	.068	.067	.066	.068	.048	.058	.056	.049	.038	24	.068		
10	.030	.023	.023	.021	.023	.024	.016	.019	.034	.059	.074	.079	.086	.085	.083	.087	.077	.066	.069	.063	.054	.037	.033	.028	24	.087		
11	.022	.029	.031	.037	.034	.033	.033	.038	.043	.052	.059	.064	.066	.068	.066	.064	.064	.060	.057	.053	.042	.039	.043	.041	24	.068		
12	.030	.025	.016	.012	.013	.008	.011	.029	.042	.055	.060	.058	.059	.060	.060	.062	.062	.063	.060	.058	.056	.035	.038	.060	24	.063		
13	.056rt	.026rt	.032rt	.026rt	.021rt	.014rt	.014rt	.025rt	.046rt	.062rt	.068rt	.079rt	.089rt	.098rt	.100rt	.099rt	.095rt	.090rt	.083rt	.078rt	.067rt	.060rt	.052rt	.044rt	24	.100		
14	.039	.039	.037	.047	.040	.035	.032	.036	.048	.057	.062	.070	.081	.087	.079	.071	.072	.071	.059	.045	.041	.025	.027	.023	24	.087		
15	.024	.009	.018	.010	.012	.023	.025	.030	.040	.042	.043	.050	.054	.056	.058	.058	.056	.054	.053	.047	.039	.039	.041	.018	24	.058		
16	.011	.005	.010	.007	.002	.002	.005	.014	.018	.031	.053	.064	.073	.074	.072	.072	.070	.051	.046	.044	.034	.033	.031	.031	24	.074		
17	.031	.019	.018	.014	.021	.019	.019	.030	.038	.041	.049	.048	.045	.044	.043	.042	.042	.040	.040	.039	.033	.029	.017	.008	24	.049		
18	.010	.010	.012	.012	.013	.018	.019	.024	.027	.034	.038	.043	.041	.039	.044	.043	.040	.035	.037	.034	.030	.028	.023	.018	24	.044		
19	.012	.008	.006	.002	.005	.005	.009	.013	.021	.028	.036	.041	.044	.047	.046	.044	.044	.043	.041	.036	.028	.017	.022	.033	24	.047		
20	.025	.002	.002	.013	.002	.002	.007	.014	.025	.047	.052	.056	.058	.061	.061	.062	.061	.062	.055	.050	.053	.055	.052	.045	24	.062		
21																										0		
22																										0		
23																										0		
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27																										0		
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29																										0		
30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX:	.056	.040	.047	.047	.041	.039	.037	.038	.052	.062	.074	.079	.089	.098	.100	.099	.095	.090	.083	.078	.067	.060	.052	.060				
AVG:	.0287	.0207	.0227	.0210	.0185	.0180	.0191	.0263	.0365	.0470	.0539	.0588	.0623	.0645	.0641	.0634	.0622	.0586	.0549	.0493	.0437	.0381	.0369	.0334				

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0418 MONTHLY MAX: .100

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-095-0025 POC: 1
 COUNTY: (095) Northampton
 CITY: (27760) Freemansburg
 SITE ADDRESS: WASHINGTON & CAMBRIA STS. FREEMANSBURG
 SITE COMMENTS: REPLACED PA SITE 420950017 (A21 BETHLEHEM)
 MONITOR COMMENTS:

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (0240) ALLENTOWN-BETHLEHEM-EASTON, PA-NJ
 LAND USE: COMMERCIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.628056
 LONGITUDE: -75.341111
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 0
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.040	.044	.042	.043	.040	.036	.030	.029	.030	.030	.032	.039	.042	.054	.060	.058	.058	.057	.051	.046	.032	.019	.022	.024	24	.060		
7	.021	.027	.018	.020	.017	.009	.012	.018	.032	.049	.063	.067	.067	.064	.063	.056	.058	.057	.054	.053	.037	.027	.021	.021	24	.067		
8	.009	.006	.010	.019	.019	.019	.026	.031	.039	.045	.050	.056	.058	.057	.054	.051	.053	.051	.047	.040	.026	.026	.031	.023	24	.058		
9	.019	.015	.013	.002	.005	.015	.022	.025	.048	.058	.061	.059	.061	.058	.062	.066	.066	.062	.061	.056	.022	.026	.026	.019	24	.066		
10	.011	.002	.002	.002	.002	.002	.018	.040	.061	.074	.077	.076	.076	.088	.081	.086	.078	.071	AQ	AQ	.056	.028	.027	.023	22	.088		
11	.020	.015	.031	.029	.013	.010	.027	.035	.040	.048	.055	.060	.063	.066	.065	.062	.061	.056	.053	.042	.026	.011	.008	.002	24	.066		
12	.002	.002	.002	.002	.002	.002	.007	.028	.032	.043	.054	.056	.057	.060	.060	.062	.061	.061	.052	.035	.017	.002	.005	.029	24	.062		
13	.014rt	.002rt	.002rt	.002rt	.002rt	.002rt	.007rt	.020rt	.039rt	.059rt	.067rt	.081rt	.090rt	.102rt	.107rt	.102rt	.098rt	.093rt	.084rt	.076rt	.063rt	.057rt	.049rt	.041rt	24	.107		
14	.037	.029	.019	.018	.016	.021	.031	.034	.039	.054	.065	.066	.082	.086	.084	.075	.069	.068	.051	.042	.031	.024	.025	.023	24	.086		
15	.024	.014	.012	.002	.002	.005	.017	.027	.037	.042	.043	.048	.050	.054	.054	.055	.054	.053	.048	.038	.010	.013	.011	.007	24	.055		
16	.016	.019	.011	.012	.007	.007	.006	.011	.017	BA	BA	BA	.067	.068	.064	.064	.062	.044	.040	.038	.027	.017	.026	.021	21	.068		
17	.020	.013	.007	.002	.002	.002	.014	.024	BA	BA	.043	.042	.041	.039	.039	.037	.036	.035	.033	.033	.027	.021	.014	.006	22	.043		
18	.002	.002	.002	.002	.002	.002	.002	.018	.025	.029	.033	.038	.038	.035	.038	.037	.035	.028	.029	.026	.018	.015	.013	.006	24	.038		
19	.008	.002	.002	.002	.002	.002	.005	.010	.012	BA	.030	.035	.039	.042	.043	.040	.039	.039	.036	.031	.020	.006	.002	.002	23	.043		
20	.002	.002	.002	.002	.002	.002	.002	.008	.016	.037	.047	.051	.052	.056	.057	.056	.056	.055	.056	.047	.041	.050	.046	.044	24	.057		
21																										0		
22																										0		
23																										0		
24																										0		
25																										0		
26																										0		
27																										0		
28																										0		
29																										0		
30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	14	12	14	14	15	15	15	15	15	15	14	14	15	15	15	15				
MAX:	.040	.044	.042	.043	.040	.036	.031	.035	.048	.061	.074	.081	.090	.102	.107	.102	.098	.093	.084	.076	.063	.057	.049	.044				
AVG:	.0163	.0129	.0117	.0106	.0089	.0091	.0140	.0224	.0319	.0463	.0512	.0554	.0589	.0619	.0621	.0605	.0589	.0553	.0496	.0431	.0302	.0228	.0217	.0194				

MONTHLY OBSERVATIONS: 352 MONTHLY MEAN: .0345 MONTHLY MAX: .107

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-095-8000 POC: 1
 COUNTY: (095) Northampton
 CITY: (85592) Wilson
 SITE ADDRESS: 17TH AND SPRING GARDEN STREETS
 SITE COMMENTS:
 MONITOR COMMENTS: MOVED FROM EASTON 42-095-0100

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (0240) ALLENTOWN-BETHLEHEM-EASTON, PA-NJ
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.692224
 LONGITUDE: -75.237156
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 0
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: JUNE 2008
 DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.041	.041	.042	.042	.043	.040	.035	.033	.031	.031	.033	.037	.043	.051	.060	.063	.062	.056	.051	.040	.033	.009	.002	.006	.006	24	.063	
7	.008	.007	.006	.002	.002	.002	.006	.018	.029	.035	.055	.065	.064	.058	.057	.054	.052	.050	.039	.032	.028	.008	.002	.002	.002	24	.065	
8	.002	.002	.002	.002	.002	.002	.011	.025	.035	.042	.047	.052	.053	.055	.054	.051	.049	.049	.041	.024	.010	.026	.026	.009	.009	24	.055	
9	.002	.007	.002	.002	.002	.002	.006	.025	.041	.052	.054	.056	.056	.061	.057	.059	.061	.061	.054	.022	.002	.002	.002	.002	.002	24	.061	
10	.002	.002	.002	.002	.002	.002	.002	.013	.034	.050	.068	.074	.076	.084	.083	.079	.079	.067	.059	.052	.042	.030	.020	.022	.022	24	.084	
11	.025	.021	.017	.014	.007	.007	.018	.029	.034	.043	.051	.055	.058	.061	.058	.055	.054	.055	.048	.013	.002	.002	.002	.002	.002	24	.061	
12	.002	.002	.002	.002	.002	.002	.015	.026	.035	.050	.052	.052	.058	.057	.055	.052	.054	.048	.037	.006	.002	.002	.002	.002	.002	24	.058	
13	.002rt	.002rt	.002rt	.002rt	.002rt	.005rt	.009rt	.024rt	.045rt	.058rt	.063rt	.071rt	.082rt	.092rt	.103rt	.106rt	.098rt	.092rt	.084rt	.072rt	.067rt	.057rt	.048rt	.035rt	24	.106		
14	.023	.014	.009	.012	.002	.005	.023	.038	.043	.048	.057	.059	.065	.075	.083	.079	.071	.061	.039	.039	.032	.032	.028	.022	.022	24	.083	
15	.015	.010	.007	.002	.002	.005	.011	.017	.031	.032	.040	.041	.043	.049	.051	.052	.053	.052	.043	.019	.002	.002	.002	.009	.009	24	.053	
16	.018	.023	.023	.015	.007	.008	.014	.018	.022	.031	.044	.058	.067	.070	.067	.063	.055	.033	.025	.034	.025	.019	.017	.020	.020	24	.070	
17	.007	.010	.002	.002	.002	.002	.011	.020	.030	.036	.043	.044	.043	.042	.036	.036	.034	.036	.034	.032	.028	.019	.006	.002	.002	24	.044	
18	.002	.002	.002	.002	.002	.002	.012	.020	.025	.033	.035	.039	.037	.037	.039	.040	.036	.029	.021	.002	.007	.013	.002	.002	.002	24	.040	
19	.002	.002	.002	.002	.002	.002	.006	.012	.016	.022	.031	.038	.041	.044	.045	.044	.040	.041	.038	.034	.015	.002	.002	.002	.002	24	.045	
20	.002	.002	.002	.002	.002	.002	.002	.009	.017	.031	.044	.054	.055	.057	.058	.055	.054	.056	.051	.041	.031	.043	.051	.048	.048	24	.058	
21																											0	
22																											0	
23																											0	
24																											0	
25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX:	.041	.041	.042	.042	.043	.040	.035	.038	.045	.058	.068	.074	.082	.092	.103	.106	.098	.092	.084	.072	.067	.057	.051	.048				
AVG:	.0102	.0098	.0081	.0070	.0054	.0059	.0121	.0218	.0312	.0396	.0478	.0530	.0561	.0595	.0604	.0592	.0568	.0524	.0443	.0308	.0217	.0177	.0141	.0123				

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0307 MONTHLY MAX: .106

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

QUALIFIER CODES:

Qualifier Code	Qualifier Description	Qualifier Type
AL	Voided by Operator	NULL
AM	Miscellaneous Void	NULL
AQ	Collection Error	NULL
AT	Calibration	NULL
AV	Power Failure	NULL
BA	Maintenance/Routine Repairs	NULL
rt	Wildfire-U. S.	NAT

Note: Qualifier codes with regional concurrence are shown in upper case,
and those without regional concurrence are shown in lower case.

User ID: VSH

RAW DATA REPORT

Report Request ID: 614705

Report Code: AMP350

Feb. 27, 2009

GEOGRAPHIC SELECTIONS

Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region	Method	Duration	Begin Date	End Date
	42	011	0006												
	42	071	0012												
	42	071	0007												
	42	081	0100												
	42	079	1100												
	42	091	0013												
	42	069	0101												
	42	099	0301												

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		1

SELECTED OPTIONS

Option Type	Option Value
RAW DATA EVENTS	INCLUDE EVENTS
INCLUDE NULLS	YES
DAILY STATISTICS	MAXIMUM
MERGE PDF FILES	YES
UNITS	STANDARD

SORT ORDER

Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC

GLOBAL DATES

Start Date	End Date
2008 06 06	2008 06 20

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-011-0006 POC: 1
 COUNTY: (011) Berks
 CITY: (00000) Not in a city
 SITE ADDRESS: Kutztown University Campus
 SITE COMMENTS: Downwind site
 MONITOR COMMENTS: DOWNWIND SITE

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (0000) NOT IN AN URBAN AREA
 LAND USE: COMMERCIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.514080009
 LONGITUDE: -75.789721
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 144
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: JUNE 2008

DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.034	.037	.038	.039	.040	.039	.036	.037	.037	.038	.040	.044	.047	.051	.055	.056	.055	.060	.049	.033	.020	.022	.017	.008	24	.060		
7	.007	.010	.002	.002	.002	.002	.008	.028	.030	.041	.044	.054	.059	.056	.056	.052	.054	.054	.049	.033	.028	.026	.020	.015	24	.059		
8	.015	.012	.011	.010	.007	.011	.019	.022	.032	.041	.049	.052	.053	.050	.047	.047	.046	.043	.033	.019	.017	.024	.034	.020	24	.053		
9	.011	.008	.002	.002	.005	.007	.014	.029	.044	.043	.040	.045	.054	.056	.058	.058	.063	.062	.059	.048	.015	.010	.012	.002	24	.063		
10	.002	.002	.002	.002	.002	.002	.002	.018	.031	.051	.063	.071	.071	.074	.080	.092	.077	AQ	AQ	AV	.032	.027	.025	.023	21	.092		
11	.019	.033	.032	.025	.015	.016	.032	.037	.040	.049	.043	.058	.056	.057	.059	.058	.058	.057	.054	.033	.031	.014	.006	.017	24	.059		
12	.002	.002	.006	.002	.002	.002	.027	.045	.049	.056	.059	.060	.059	.058	.059	.061	.061	.061	.055	.044	.033	.005	.014	.041	24	.061		
13	.045rt	.040rt	.025rt	.019rt	.019rt	.015rt	.028rt	.042rt	.055rt	.067rt	.074rt	AM	AT	.087rt	.086rt	.086rt	.081rt	.080rt	.075rt	.068rt	.063rt	.045rt	.050rt	.051rt	22	.087		
14	.037	.024	.029	.019	.011	.015	.027	.039	.046	.037	.047	.059	.068	.066	.068	.061	.066	.063	.055	.041	.040	.036	.020	.021	24	.068		
15	.011	.010	.007	.007	.005	.012	.018	.029	.035	.039	.048	.051	.055	.055	.055	.053	.052	.053	.045	.030	.016	.017	.002	.006	24	.055		
16	.007	.002	.002	.002	.002	.002	.009	.014	.021	.028	.050	.067	.073	.073	.073	.069	.064	.050	.045	.043	.022	.020	.026	.023	24	.073		
17	.017	.014	.002	.006	.002	.002	.016	.024	.031	.039	.044	.040	.039	.039	.040	.039	.038	.035	.036	.033	.024	.011	.008	.002	24	.044		
18	.002	.002	.002	.002	.002	.002	.009	.018	.028	.032	.033	.032	.033	.040	.044	.040	.036	.040	.036	.025	.022	.023	.015	.002	24	.044		
19	.002	.002	.002	.002	.002	.002	.005	.014	.021	.028	.036	.039	.036	.039	.035	.038	.038	.037	.035	.020	.016	.002	.002	.006	24	.039		
20	.006	.002	.002	.002	.002	.002	.002	.013	.024	.040	.049	.050	.055	.056	.057	.053	.060	.063	.059	.047	.040	.039	.047	.045	24	.063		
21																										0		
22																										0		
23																										0		
24																										0		
25																										0		
26																										0		
27																										0		
28																										0		
29																										0		
30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	15	15	15	14	14	15	15	15	15	14	14	14	15	15	15	15				
MAX:	.045	.040	.038	.039	.040	.039	.036	.045	.055	.067	.074	.071	.073	.087	.086	.092	.081	.080	.075	.068	.063	.045	.050	.051				
AVG:	.0145	.0133	.0109	.0094	.0079	.0087	.0168	.0273	.0349	.0419	.0479	.0516	.0541	.0571	.0581	.0576	.0566	.0541	.0489	.0369	.0279	.0214	.0199	.0188				

MONTHLY OBSERVATIONS: 355 MONTHLY MEAN: .0330 MONTHLY MAX: .092

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-069-0101 POC: 1
 COUNTY: (069) Lackawanna
 CITY: (06928) Blakely
 SITE ADDRESS: WILSON FIRE CO. ERIE & PLEASANT
 SITE COMMENTS: REPLACES CARBONDALE O3 NAMS SITE 42-069-0100 ON 4/1/94
 MONITOR COMMENTS: DESIGNATE AS NAMS O3 TO REPLACE CARBONDALE 42-069-0100 4/1/94 OZONE SEASON MONITOR ONLY

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (7560) SCRANTON-WILKES-BARRE, PA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 41.479116
 LONGITUDE: -75.578186
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 260
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: JUNE 2008

DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.039	.036	.038	.039	.040	.037	.034	.031	.033	.035	.041	.047	.054	.061	.062	.062	.062	.062	.059	.054	.045	.038	.023	.014	.014	24	.062	
7	.012	.008	.002	.006	.005	.005	.018	.033	.043	.051	.056	.056	.055	.052	.048	.046	.040	.035	.033	.023	.012	.011	.010	.009	.009	24	.056	
8	.007	.002	.002	.002	.002	.002	.007	.016	.031	.041	.048	.047	.045	.045	.044	.039	.037	.036	.037	.027	.026	.019	.011	.009	.009	24	.048	
9	.009	.006	.002	.002	.002	.002	.008	.015	.025	.045	.051	.049	.049	.052	.058	.062	.061	.062	.055	.037	.024	.018	.016	.018	.018	24	.062	
10	.013	.013	.011	.008	.006	.007	.017	.032	.051	.064	.068	.067	.066	.069	.070	.068	.069	.057	.036	.052	.041	.033	.037	.034	.034	24	.070	
11	.026	.022	.020	.014	.010	.010	.026	.039	.047	.050	.054	.052	.052	.053	.054	.054	.056	.057	.055	.038	.025	.024	.022	.019	.019	24	.057	
12	.015	.013	.012	.010	.007	.009	.019	.035	.040	.046	.048	.051	.053	.052	.054	.054	.052	.051	.045	.035	.022	.024	.023	.021	.021	24	.054	
13	.021rt	.017rt	.017rt	.014rt	.012rt	.011rt	.019rt	.043rt	.065rt	.074rt	.079rt	.084rt	.083rt	.083rt	.087rt	.086rt	.083rt	.085rt	.087rt	.085rt	.078rt	.073rt	.071rt	.062rt	24	.087		
14	.055	.046	.039	.033	.027	.024	.021	.044	.051	.051	.064	.069	.070	.067	.049	.048	.043	.036	.030	.030	.029	.026	.022	.016	.016	24	.070	
15	.013	.007	.012	.019	.029	.030	.031	.034	.040	.046	.050	.054	.055	.054	.053	.052	.052	.043	.033	.021	.021	.020	.020	.023	.024	24	.055	
16	.021	.016	.015	.015	.018	.013	.017	.023	.033	.034	.054	.063	.064	.066	.065	.059	.044	.040	.037	.029	.031	.028	.023	.018	.018	24	.066	
17	.016	.018	.021	.024	.022	.021	.022	.032	.034	.035	.032	.032	.034	.035	.034	.036	.033	.032	.027	.027	.029	.018	.010	.008	.008	24	.036	
18	.010	.008	.005	.002	.002	.008	.018	.023	.028	.031	.032	.031	.035	.031	.033	.032	.031	.032	.029	.023	.021	.015	.009	.006	.006	24	.035	
19	.002	.002	.002	.002	.002	.002	.007	.011	.014	.020	.027	.030	.030	.033	.033	.031	.031	.032	.029	.022	.011	.006	.008	.006	.006	24	.033	
20	.006	.005	.005	.002	.002	.002	.002	.010	.023	.040	.043	.043	.041	.039	.050	.052	.045	.040	.038	.029	.020	.012	.010	.012	.012	24	.052	
21																											0	
22																											0	
23																											0	
24																											0	
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26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX:	.055	.046	.039	.039	.040	.037	.034	.044	.065	.074	.079	.084	.083	.083	.087	.086	.083	.085	.087	.085	.078	.073	.071	.062				
AVG:	.0177	.0146	.0135	.0128	.0124	.0122	.0177	.0281	.0372	.0442	.0498	.0517	.0524	.0528	.0529	.0521	.0493	.0473	.0427	.0363	.0290	.0244	.0210	.0183				

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0329 MONTHLY MAX: .087

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-071-0007 POC: 1
 COUNTY: (071) Lancaster
 CITY: (41216) Lancaster
 SITE ADDRESS: ABRAHAM LINCOLN JR HIGH GROFFTOWN RD
 SITE COMMENTS: LANCASTER-COPAMS REMOTE STATION 007
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (196) SOUTH CENTRAL PENNSYLVANIA
 URBANIZED AREA: (4000) LANCASTER, PA
 LAND USE: INDUSTRIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.046667
 LONGITUDE: -76.283333
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 99
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.048	.050	.050	.048	.044	.040	.036	.035	.038	.041	.044	.048	.050	.052	.053	.055	.059	.061	.059	.055	.051	.048	.036	.031	24	.061		
7	.024	.014	.014	.019	.015	.010	.013	.017	.038	.052	.065	.071	.067	.060	.060	.062	.064	.060	.055	.044	.037	.032	.035	.035	24	.071		
8	.033	.026	.025	.018	.013	.010	.016	.032	.041	.051	.055	.051	.049	.048	.052	.049	.049	.048	.043	.036	.032	.028	.028	.028	24	.055		
9	.031	.030	.024	.019	.020	.013	.022	.035	.050	.060	.068	.066	.069	.069	.066	.067	.065	.063	.055	.046	.042	.041	.037	.029	24	.069		
10	.017	.012	.006	.002	.002	.002	.002	.028	.047	.060	.059	.066	.069	.070	.067	.087	.101	.070	.070	AV	.042	.035	.030	.024	23	.101		
11	.019	.037	.032	.026	.030	.029	.033	.041	.048	.057	.061	.064	.065	.067	.073	.075	.069	.065	.064	.058	.028	.013	.017	.010	24	.075		
12	.010	.002	.002	.002	.002	.002	.002	.018	.040	.045	.063	.067	.069	.068	.064	.066	.067	.065	.060	.046	.041	.034	.028	.049	24	.069		
13	.057rt	.052rt	.045rt	.031rt	.022rt	.025rt	.023rt	.047rt	.054rt	.065rt	.072rt	.076rt	.079rt	.083rt	.087rt	.086rt	.080rt	.077rt	.074rt	.070rt	.060rt	.055rt	.055rt	.057rt	24	.087		
14	.056	.052	.050	.048	.040	.024	.032	.045	.055	.061	.065	.075	.084	.068	.073	.080	.075	.058	.040	.045	.035	.033	.032	.029	24	.084		
15	.025	.020	.024	.024	.021	.018	.021	.024	.029	.035	.040	.048	.054	.058	.060	.063	.062	.061	.058	.048	.024	.016	.019	.025	24	.063		
16	.019	.010	.009	.002	.002	.002	.002	.029	.039	.050	.060	.064	.065	.064	.062	.056	.052	.050	.049	.047	.043	.037	.027	.032	24	.065		
17	.026	.018	.013	.010	.007	.002	.014	.033	.036	.042	.048	.049	.048	.046	.045	.046	.043	.042	.041	.037	.030	.023	.029	.027	24	.049		
18	.020	.020	.020	.012	.009	.006	.023	.030	.037	.042	.045	.046	.047	.043	.045	.041	.035	.040	.031	.029	.025	.020	.021	.019	24	.047		
19	.019	.016	.017	.012	.007	.007	.016	.021	.022	.029	.033	.033	.036	.039	.040	.047	.042	.045	.039	.016	.007	.005	.002	24	.047			
20	.002	.002	.002	.002	.002	.002	.006	.010	.032	.044	.049	.050	.055	.061	.061	.061	.061	.059	.055	.050	.045	.030	.019	.016	24	.061		
21																										0		
22																										0		
23																										0		
24																										0		
25																										0		
26																										0		
27																										0		
28																										0		
29																										0		
30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15	15				
MAX:	.057	.052	.050	.048	.044	.040	.036	.047	.055	.065	.072	.076	.084	.083	.087	.087	.101	.077	.074	.070	.060	.055	.055	.057				
AVG:	.0271	.0241	.0222	.0183	.0157	.0128	.0174	.0297	.0404	.0489	.0551	.0583	.0604	.0597	.0605	.0627	.0619	.0574	.0533	.0464	.0367	.0301	.0279	.0275				

MONTHLY OBSERVATIONS: 359 MONTHLY MEAN: .0398 MONTHLY MAX: .101

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-071-0012 POC: 1
 COUNTY: (071) Lancaster
 CITY: (00000) Not in a city
 SITE ADDRESS: 3545 W. Newport Road
 SITE COMMENTS: Downwind site for Lancaster COPAMS site.
 MONITOR COMMENTS: DOWNWIND SITE

STATE: (42) Pennsylvania
 AQCR: (196) SOUTH CENTRAL PENNSYLVANIA
 URBANIZED AREA: (0000) NOT IN AN URBAN AREA
 LAND USE: AGRICULTURAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.0438330009
 LONGITUDE: -76.1124
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 116
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: JUNE 2008

DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.045	.045	.046	.047	.043	.039	.038	.037	.038	.040	.044	.047	.051	.053	.055	.056	.059	.059	.055	.048	.042	.040	.019	.015	.015	24	.059	
7	.018	.020	.021	.013	.011	.006	.011	.022	.032	.047	.065	.077	.066	.060	.058	.057	.055	.051	.043	.038	.038	.038	.035	.028	.024	24	.077	
8	.019	.008	.006	.002	.002	.002	.012	.028	.036	.045	.051	.051	.045	.044	.045	.048	.043	.041	.030	.020	.019	.021	.020	.011	.011	24	.051	
9	.017	.013	.005	.002	.002	.002	.006	.022	.041	.053	.061	.065	.064	.065	.061	.060	.057	.055	.048	.031	.023	.009	.005	.002	.002	24	.065	
10	.002	.002	.002	.002	.002	.002	.007	.024	.040	.053	.060	.062	.063	.062	.064	.094	.103	.074	.068	.060	.042	.035	.026	.023	.024	24	.103	
11	.023	.026	.032	.028	.022	.020	.026	.036	.044	.052	.060	.061	.065	.065	.067	.068	.066	.061	.052	.031	.015	.009	.008	.007	.007	24	.068	
12	.007	.002	.002	.002	.002	.002	.012	.026	.046	.057	.061	.065	.069	.070	.073	.067	.063	.068	.056	.028	.023	.017	.041	.051	.051	24	.073	
13	.054rt	.046rt	.042rt	.038rt	.034rt	.032rt	.040rt	.048rt	.052rt	.065rt	.075rt	.079rt	.079rt	.077rt	.083rt	.085rt	.082rt	.077rt	.063rt	.058rt	.051rt	.039rt	.050rt	.053rt	.053	24	.085	
14	.048	.046	.040	.028	.031	.020	.030	.045	.055	.064	.063	.073	.086	.090	.088	.077	.068	.054	.052	.052	.041	.031	.023	.016	.016	24	.090	
15	.018	.013	.014	.016	.018	.014	.017	.019	.027	.033	.040	.047	.051	.053	.056	.057	.056	.055	.048	.027	.013	.010	.009	.008	.008	24	.057	
16	.009	.005	.002	.006	.005	.002	.009	.028	.042	.048	.056	.057	.059	.060	.058	.056	.050	.046	.045	.045	.036	.028	.024	.027	.024	24	.060	
17	.026	.011	.007	.002	.002	.002	.011	.019	.036	.040	.048	.047	.046	.044	.041	.044	.042	.041	.040	.037	.027	.017	.010	.014	.014	24	.048	
18	.011	.002	.002	.002	.002	.002	.013	.026	.034	.041	.042	.045	.046	.042	.043	.042	.035	.037	.035	.024	.020	.011	.014	.009	.009	24	.046	
19	.007	.002	.002	.002	.002	.002	.008	.018	.018	.028	.034	.035	.037	.039	.040	.040	.041	.041	.041	.022	.007	.002	.008	.009	.009	24	.041	
20	.009	.005	.002	.002	.002	.002	.010	.023	.031	.043	.051	.050	.054	.059	.060	.060	.059	.055	.052	.048	.027	.013	.008	.018	.018	24	.060	
21																											0	
22																											0	
23																											0	
24																											0	
25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX:	.054	.046	.046	.047	.043	.039	.040	.048	.055	.065	.075	.079	.086	.090	.088	.094	.103	.077	.068	.060	.051	.040	.050	.053				
AVG:	.0209	.0164	.0150	.0128	.0120	.0099	.0167	.0281	.0381	.0473	.0541	.0574	.0587	.0589	.0595	.0607	.0586	.0543	.0485	.0379	.0283	.0213	.0200	.0194				

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0356 MONTHLY MAX: .103

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-079-1100 POC: 1
 COUNTY: (079) Luzerne
 CITY: (52584) Nanticoke
 SITE ADDRESS: 255 LOWER BROADWAY(NEXT TO LEON&EDDY'S)
 SITE COMMENTS: TSP MONITOR RELOCATED FROM NANTICOKE HS-1ST READING JULY 19, 1986
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (7560) SCRANTON-WILKES-BARRE, PA
 LAND USE: COMMERCIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 41.209167
 LONGITUDE: -76.003333
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 165
 PROBE HEIGHT: 2

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.038	.037	.031	.028	.030	.038	.038	.034	.033	.034	.038	.042	.046	.048	.050	.052	.052	.052	.041	.025	.017	.013	.014	.011	.011	24	.052	
7	.009	.005	.002	.002	.002	.002	.002	.007	.023	.037	.046	.048	.049	.050	.054	.055	.038	.033	.026	.018	.012	.006	.002	.002	.002	24	.055	
8	.002	.002	.002	.002	.002	.002	.002	.009	.027	.039	.046	.047	.050	.046	.044	.043	.046	.047	.037	.031	.023	.021	.016	.010	.010	24	.050	
9	.010	.008	.007	.005	.002	.002	.002	.008	.029	.040	.044	.050	.054	.056	.060	.057	.054	.051	.033	.022	.022	.020	.018	.015	.015	24	.060	
10	.011	.011	.009	.002	.002	.002	.010	.019	.033	.051	.060	.064	.057	.057	.061	.060	.057	.052	.047	.036	.022	.018	.017	.015	.015	24	.064	
11	.011	.015	.013	.011	.009	.010	.018	.028	.036	.043	.048	.052	.052	.052	.051	.051	.050	.050	.040	.028	.027	.020	.016	.012	.012	24	.052	
12	.009	.008	.007	.006	.002	.006	.014	.023	.045	.047	.049	.051	.051	.050	.052	.054	.052	.054	.042	.026	.026	.023	.020	.015	.015	24	.054	
13	.013rt	.008rt	.007rt	.005rt	.002rt	.005rt	.011rt	.021rt	.045rt	.062rt	.079rt	.083rt	.083rt	.086rt	.087rt	.089rt	.087rt	.081rt	.075rt	.073rt	.050rt	.042rt	.039rt	.038rt	24	.089		
14	.039	.033	.033	.031	.023	.020	.023	.030	.039	.045	.050	.052	.051	.053	.056	.054	.046	.044	.038	.034	.024	.026	.017	.013	.013	24	.056	
15	.012	.010	.007	.008	.006	.006	.007	.014	.032	.044	.048	.050	.049	.049	.048	.049	.050	.050	.033	.024	.023	.023	.018	.012	.012	24	.050	
16	.005	.002	.006	.007	.005	.002	.005	.017	.029	.043	.058	.063	.064	.062	.065	.058	.042	.034	.035	.036	.030	.025	.024	.017	.017	24	.065	
17	.015	.014	.014	.011	.011	.019	.022	.024	.029	.030	.031	.033	.033	.033	.034	.035	.034	.031	.025	.013	.009	.009	.007	.005	.015	24	.035	
18	.002	.002	.002	.007	.007	.009	.012	AL	AL	AL	AT	.037	.041	.045	.038	.035	.033	.034	.026	.019	.011	.009	.006	.007	.020	20	.045	
19	.007	.005	.005	.002	.002	.002	.006	.015	.020	.026	.030	.032	.035	.038	.037	.037	.038	.037	.035	.023	.018	.015	.013	.010	.010	24	.038	
20	.006	.002	.005	.002	.002	.002	.002	.007	.029	.034	.043	.052	.051	.042	.044	.048	.045	.049	.049	.044	.036	.032	.031	.022	.024	24	.052	
21																											0	
22																											0	
23																											0	
24																											0	
25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX:	.039	.037	.033	.031	.030	.038	.038	.034	.045	.062	.079	.083	.083	.086	.087	.089	.087	.081	.075	.073	.050	.042	.039	.038	.038			
AVG:	.0126	.0108	.0100	.0086	.0071	.0085	.0116	.0183	.0321	.0411	.0479	.0504	.0511	.0511	.0521	.0518	.0483	.0466	.0388	.0301	.0233	.0201	.0172	.0136				

MONTHLY OBSERVATIONS: 356 MONTHLY MEAN: .0292 MONTHLY MAX: .089

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-081-0100 POC: 1
 COUNTY: (081) Lycoming
 CITY: (50720) Montoursville
 SITE ADDRESS: 899 CHERRY STREET
 SITE COMMENTS: SITE REPLACES WILLIAMSPORT 42-081-0403
 MONITOR COMMENTS: REPLACES WILLIAMSPORT SITE 42-081-0403

STATE: (42) Pennsylvania
 AQCR: (195) CENTRAL PENNSYLVANIA
 URBANIZED AREA: (9140) WILLIAMSPORT, PA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 10028-15-6
 LATITUDE: 41.2508
 LONGITUDE: -76.9238
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 161.54
 PROBE HEIGHT: 3.5

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.045	.047	.044	.038	.033	.032	.033	.033	.031	.032	.034	.039	.045	.053	.057	.058	.059	.060	.058	.052	.040	.039	.033	.021	.024	24	.060	
7	.013	.007	.006	.006	.006	.002	.005	.024	.029	.039	.045	.050	.049	.046	.047	.052	.050	.042	.025	.014	.008	.002	.002	.002	.024	24	.052	
8	.002	.002	.002	.002	.002	.002	.002	.012	.027	.040	.045	.046	.047	.049	.051	.052	.052	.052	.048	.040	.040	.031	.026	.020	.024	24	.052	
9	.017	.012	.009	.007	.002	.002	.002	.014	.040	.056	.062	.059	.061	.059	.058	.060	.066	.072	.073	.064	.033	.031	.029	.025	.024	24	.073	
10	.022	.013	.009	.012	.008	.002	.010	.025	.038	.050	.061	.068	.072	.071	.066	.067	.066	.055	.044	.039	.036	.035	.034	.028	.024	24	.072	
11	.026	.020	.016	.014	.012	.008	.014	.027	.038	.046	.051	.053	.051	.052	.053	.054	.053	.053	.052	.037	.027	.028	.029	.026	.024	24	.054	
12	.024	.021	.018	.014	.006	.009	.012	.023	.040	.047	.055	.060	.059	.058	.057	.057	.058	.060	.057	.045	.030	.027	.020	.020	.024	24	.060	
13	.012rt	.015rt	.010rt	.018rt	.017rt	.011rt	.014rt	.019rt	.044rt	.062rt	.070rt	.080rt	.081rt	.082rt	.086rt	.092rt	.094rt	.090rt	.089rt	.089rt	.087rt	.086rt	.089rt	.082rt	24	.094	.094	
14	.077	.070	.047	.045	.027	.023	.026	.036	.046	.054	.055	.056	.055	.055	.054	.052	.048	.047	.043	.041	.039	.037	.031	.024	.024	24	.077	
15	.022	.032	.031	.029	.026	.024	.026	.031	.039	.052	.055	.055	.057	.057	.055	.054	.053	.054	.052	.035	.031	.026	.022	.021	.024	24	.057	
16	.020	.020	.016	.019	.017	.027	.028	.032	.046	.055	.059	.060	.059	.065	.061	.049	.038	.032	.027	.025	.016	.016	.011	.012	.024	24	.065	
17	.014	.014	.012	.014	.015	.011	.014	.028	.029	.032	.031	.031	.032	.033	.032	.035	.034	.034	.031	.026	.024	.032	.034	.034	.024	24	.035	
18	.031	.027	.025	.024	.020	.015	.017	.024	AM	.018	.021	.027	.034	.030	.032	.031	.028	.026	.025	.022	.007	.009	.008	.006	.023	23	.034	
19	.005	.002	.002	.002	.002	.002	.005	.010	.014	.018	.021	.028	.032	.032	.034	.035	.038	.037	.035	.029	.012	.014	.011	.007	.024	24	.038	
20	.010	.008	.008	.006	.002	.002	.002	.010	.019	.035	.047	.046	.046	.052	.057	.062	.061	.047	.042	.035	.031	.022	.025	.019	.024	24	.062	
21																											0	
22																											0	
23																											0	
24																											0	
25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX:	.077	.070	.047	.045	.033	.032	.033	.036	.046	.062	.070	.080	.081	.082	.086	.092	.094	.090	.089	.089	.087	.086	.089	.082	.024	24	.094	
AVG:	.0227	.0207	.0170	.0167	.0130	.0115	.0140	.0232	.0343	.0424	.0475	.0505	.0520	.0529	.0533	.0540	.0532	.0507	.0467	.0395	.0307	.0290	.0269	.0231	.024	24	.094	

MONTHLY OBSERVATIONS: 359 MONTHLY MEAN: .0344 MONTHLY MAX: .094

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-091-0013 POC: 1
 COUNTY: (091) Montgomery
 CITY: (54656) Norristown
 SITE ADDRESS: STATE ARMORY - 1046 BELVOIR RD
 SITE COMMENTS: COPAMS REMOTE STATION 013
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (045) METROPOLITAN PHILADELPHIA
 URBANIZED AREA: (6160) PHILADELPHIA, PA-NJ
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.112222
 LONGITUDE: -75.309167
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 53
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.043	.040	.042	.042	.037	.027	.029	.027	.026	.031	.032	.043	.047	.063	.070	.070	.068	.065	.055	.044	.034	.030	.026	.024	24	.070		
7	.015	.007	.002	.007	.014	.017	.014	.018	.033	.053	.067	.074	.074	.063	.065	.070	.075	.070	.079	.085	.083	.077	.072	.062	24	.085		
8	.054	.043	.039	.034	.030	.026	.027	.030	.040	.046	.056	.056	.059	.061	.053	.055	.056	.054	.050	.043	.043	.043	.037	.030	24	.061		
9	.026	.019	.020	.021	.019	.017	.021	.033	.050	.063	.067	.071	.078	.073	.071	.074	.076	.065	.059	.047	.037	.047	.051	.057	24	.078		
10	.053	.041	.035	.028	.012	.010	.015	.027	.045	.062	.076	.074	.079	.080	.076	.076	.076	.072	.073	.062	.049	.033	.025	.027	24	.080		
11	.021	.020	.020	.023	.020	.019	.026	.032	.038	.047	.055	.060	.062	.066	.074	.076	.074	.070	.065	.058	.048	.039	.029	.020	24	.076		
12	.019	.013	.018	.019	.011	.011	.013	.028	.040	.049	.055	.062	.065	.069	.066	.070	.072	.072	.068	.051	.058	.074	.073	.067	24	.074		
13	.060rt	.054rt	.050rt	.038rt	.027rt	.013rt	.010rt	.018rt	.033rt	.062rt	.074rt	.088rt	.090rt	.091rt	.088rt	.089rt	.081rt	.074rt	.062rt	.052rt	.050rt	.040rt	.027rt	.026rt	24	.091		
14	.030	.035	.039	.033	.023	.019	.029	.039	.050	.063	.071	.075	.075	.074	.076	.075	.074	.073	.068	.053	.043	.035	.028	.030	24	.076		
15	.025	.021	.014	.017	.023	.018	.017	.021	.024	.033	.047	.053	.052	.054	.056	.057	.060	.059	.055	.048	.037	.021	.012	.010	24	.060		
16	.002	.002	.002	.002	.002	.002	.002	.008	.028	.046	.054	.062	.061	.070	.086	.077	.063	.057	.052	.054	.046	.037	.041	.036	24	.086		
17	.030	.029	.029	.023	.019	.019	.018	.027	.036	.044	.052	.055	.053	.049	.050	.049	.048	.045	.043	.039	.037	.033	.026	.021	24	.055		
18	.019	.015	.014	.011	.008	.006	.012	.026	.033	.037	.045	.048	.045	.047	.046	.046	.048	.040	.036	.021	.013	.002	.012	.016	24	.048		
19	.015	.012	.013	.011	.008	.008	.011	.017	.023	.031	.036	.040	.041	.046	.049	.050	.051	.049	.048	.043	.028	.018	.005	.007	24	.051		
20	.002	.002	.002	.002	.002	.002	.002	.016	.029	.045	.054	.058	.059	.063	.064	.068	.063	.062	.068	.069	.061	.052	.049	.045	24	.069		
21																										0		
22																										0		
23																										0		
24																										0		
25																										0		
26																										0		
27																										0		
28																										0		
29																										0		
30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.060	.054	.050	.042	.037	.027	.029	.039	.050	.063	.076	.088	.090	.091	.088	.089	.081	.074	.079	.085	.083	.077	.073	.067				
AVG:	.0276	.0235	.0226	.0207	.0170	.0143	.0164	.0245	.0352	.0475	.0561	.0611	.0623	.0645	.0663	.0668	.0657	.0618	.0587	.0513	.0445	.0387	.0342	.0319				

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0422 MONTHLY MAX: .091

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-099-0301 POC: 1
 COUNTY: (099) Perry
 CITY: (00000) Not in a city
 SITE ADDRESS: ROUTE 34 LITTLE BUFFALO STATE PARK
 SITE COMMENTS: LITTLE BUFFALO STATE PARK 35091105 PA SITE CODE MOVED FROM SEWAGE TRMT PLANT IN 1
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (196) SOUTH CENTRAL PENNSYLVANIA
 URBANIZED AREA: (0000) NOT IN AN URBAN AREA
 LAND USE: UNKNOWN
 LOCATION SETTING: RURAL

CAS NUMBER: 10028-15-6
 LATITUDE: 40.456944
 LONGITUDE: -77.165556
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 126
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.022	.033	.037	.035	.037	.037	.035	.031	.030	.029	.030	.034	.041	.045	.054	.059	.059	.054	.042	.028	.016	.006	.002	.002	.002	24	.059	
7	.002	.002	.002	.002	.002	.002	.005	.006	.013	.041	.053	.056	.059	.058	.052	.051	.053	.042	.035	.023	.022	.019	.018	.020	.024	24	.059	
8	.022	.015	.011	.007	.005	.002	.009	.020	.033	.044	.045	.046	.047	.047	.047	.046	.047	.047	.040	.025	.029	.024	.022	.021	.024	24	.047	
9	.021	.014	.015	.018	.024	.017	.017	.034	.046	.052	.055	.057	.060	.054	.051	.051	.056	.054	.040	.027	.024	.018	.015	.011	.024	24	.060	
10	.007	.005	.005	.002	.002	.002	.011	.018	.031	.045	.056	.060	.065	.066	.068	.067	.058	.047	.040	.032	.017	.030	.032	.028	.024	24	.068	
11	.038	.035	.021	.020	.019	.016	.022	.040	.053	.058	.061	.062	.062	.063	.062	.065	.064	.059	.051	.034	.030	.024	.022	.015	.024	24	.065	
12	.010	.007	.005	.002	.002	.006	.011	.018	.045	.058	.064	.070	.069	.066	.068	.067	.068	.065	.061	.040	.027	.026	.020	.016	.024	24	.070	
13	.017rt	.013rt	.011rt	.009rt	.006rt	.005rt	.014rt	.034rt	.050rt	.062rt	.075rt	.086rt	.089rt	.089rt	.088rt	.089rt	.089rt	.084rt	.061rt	.073rt	.070rt	.076rt	.074rt	.061rt	24	.089		
14	.045	.034	.026	.019	.020	.021	.027	.042	.050	.048	.053	.057	.061	.064	.064	.060	.054	.050	.042	.037	.026	.020	.016	.015	.024	24	.064	
15	.011	.012	.019	.018	.024	.025	.033	.040	.044	.047	.053	.054	.055	.054	.055	.055	.050	.047	.035	.033	.031	.029	.025	.024	.024	24	.055	
16	.024	.017	.015	.011	.009	.007	.007	.013	.042	.056	.059	.059	.063	.056	.053	.053	.053	.051	.039	.026	.021	.029	.028	.020	.024	24	.063	
17	.014	.012	.011	.016	.010	.011	.022	.036	.039	.038	.039	.040	.039	.041	.042	.042	.044	.042	.039	.036	.036	.040	.042	.039	.024	24	.044	
18	.025	.024	.019	.023	.028	.023	.022	.028	.035	.037	.041	.046	.048	.044	.043	.041	.036	.035	.029	.024	.016	.012	.009	.008	.024	24	.048	
19	.009	.008	.007	.007	.005	.005	.010	.020	.026	.029	.034	.037	.038	.038	.039	.041	.043	.045	.041	.027	.023	.018	.016	.014	.024	24	.045	
20	.011	.009	.008	.005	.002	.002	.009	.014	.020	.038	.049	.054	.056	.059	.060	.061	.062	.060	.058	.055	.045	.033	.027	.020	.024	24	.062	
21																											0	
22																											0	
23																											0	
24																											0	
25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MAX:	.045	.035	.037	.035	.037	.037	.035	.042	.053	.062	.075	.086	.089	.089	.088	.089	.089	.084	.061	.073	.070	.076	.074	.061	.024	24	.061	
AVG:	.0185	.0160	.0141	.0129	.0130	.0121	.0169	.0263	.0371	.0455	.0511	.0545	.0568	.0563	.0564	.0565	.0561	.0523	.0443	.0348	.0290	.0271	.0248	.0210	.024	24	.0210	

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0347 MONTHLY MAX: .089

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

QUALIFIER CODES:

Qualifier Code	Qualifier Description	Qualifier Type
AL	Voided by Operator	NULL
AM	Miscellaneous Void	NULL
AQ	Collection Error	NULL
AT	Calibration	NULL
AV	Power Failure	NULL
rt	Wildfire-U. S.	NAT

Note: Qualifier codes with regional concurrence are shown in upper case,
and those without regional concurrence are shown in lower case.

User ID: VSH

RAW DATA REPORT

Report Request ID: 614706

Report Code: AMP350

Feb. 27, 2009

GEOGRAPHIC SELECTIONS

Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region	Method	Duration	Begin Date	End Date
	42	089	0002												
	42	011	0011												
	42	069	2006												
	42	079	1101												
	42	133	0011												
	42	133	0008												

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		1

SELECTED OPTIONS

Option Type	Option Value
RAW DATA EVENTS	INCLUDE EVENTS
INCLUDE NULLS	YES
DAILY STATISTICS	MAXIMUM
MERGE PDF FILES	YES
UNITS	STANDARD

SORT ORDER

Order	Column
1	STATE_CODE
2	COUNTY_CODE
3	SITE_ID
4	PARAMETER_CODE
5	POC

GLOBAL DATES

Start Date	End Date
2008 06 06	2008 06 20

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-011-0011 POC: 1
 COUNTY: (011) Berks
 CITY: (00000) Not in a city
 SITE ADDRESS: 1059 Arnold Road
 SITE COMMENTS: READING AIRPORT COPAMS REMOTE STATION 009
 MONITOR COMMENTS:

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (6680) READING, PA
 LAND USE: COMMERCIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 40.38335
 LONGITUDE: -75.9686
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 92
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: JUNE 2008
 DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.032	.046	.043	.042	.038	.040	.036	.037	.038	.041	.043	.047	.053	.055	.060	.065	.065	.054	.051	.045	.042	.039	.043	.034	24	.065		
7	.025	.015	.002	.002	.002	.002	.014	.029	.035	.044	.053	.063	.062	.064	.062	.060	.059	.056	.052	.042	.028	.016	.009	.008	24	.064		
8	.010	.020	.013	.008	.007	.005	.015	.025	.035	.041	.048	.052	.054	.051	.050	.048	.049	.042	.039	.035	.019	.018	.027	.026	24	.054		
9	.020	.013	.012	.015	.012	.002	.008	.033	.047	.058	.057	.056	.055	.057	.060	.063	.062	.066	.058	.041	.027	.015	.009	.011	24	.066		
10	.009	.005	.002	.002	.002	.002	.002	.024	.047	.058	.065	.068	.071	.077	.090	.083	.070	.074	.066	.054	.043	.031	.023	.013	24	.090		
11	.028	.035	.037	.034	.028	.014	.028	.035	.043	.055	.060	.060	.063	.065	.066	.066	.065	.063	.056	.036	.018	.019	.008	.007	24	.066		
12	.005	.002	.002	.002	.002	.002	.005	.025	.040	.052	.059	.065	.063	.062	.060	.062	.064	.060	.054	.045	.034	.016	.014	.039	24	.065		
13	.058rt	.043rt	.035rt	.023rt	.014rt	.015rt	.015rt	.030rt	.048rt	.048rt	.071rt	.081rt	.082rt	.082rt	.084rt	.081rt	.086rt	.087rt	.078rt	.070rt	.059rt	.053rt	.050rt	.049rt	24	.087		
14	.045	.044	.033	.028	.025	.019	.022	.036	.047	.054	.063	.070	.071	.068	.071	.070	.070	.064	.048	.044	.040	.030	.026	.019	24	.071		
15	.014	.016	.015	.015	.015	.012	.017	.027	.030	.034	.045	.051	.055	.055	.057	.056	.055	.050	.033	.020	.013	.009	.002	24	.057			
16	.006	.002	.002	.002	.002	.002	.002	.010	.023	.043	.059	.067	.072	.071	.071	.068	.061	.052	.051	.042	.026	.026	.025	.022	24	.072		
17	.025	.016	.012	.017	.007	.005	.015	.022	.034	.042	.047	.043	.043	.042	.042	.040	.041	.038	.037	.035	.028	.005	.002	.002	24	.047		
18	.002	.002	.002	.002	.002	.002	.014	.025	.031	.035	.039	.041	.042	.043	.044	.039	.036	.040	.039	.033	.021	.024	.014	.007	24	.044		
19	.011	.007	.002	.002	.002	.002	.008	.018	.022	.028	.034	.037	.039	.040	.041	.043	.043	.042	.038	.027	.015	.008	.002	.002	24	.043		
20	.002	.002	.002	.002	.002	.002	.002	.011	.030	.045	.052	.054	.055	.059	.062	.065	.066	.066	.061	.056	.049	.041	.037	.016	24	.066		
21																										0		
22																										0		
23																										0		
24																										0		
25																										0		
26																										0		
27																										0		
28																										0		
29																										0		
30																										0		
31																										0		
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.058	.046	.043	.042	.038	.040	.036	.037	.048	.058	.071	.081	.082	.082	.090	.083	.086	.087	.078	.070	.059	.053	.050	.049				
AVG:	.0195	.0179	.0143	.0131	.0107	.0084	.0135	.0258	.0367	.0452	.0530	.0570	.0587	.0594	.0613	.0607	.0595	.0573	.0519	.0425	.0313	.0236	.0199	.0171				

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0358 MONTHLY MAX: .090

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-069-2006 POC: 1
 COUNTY: (069) Lackawanna
 CITY: (69000) Scranton
 SITE ADDRESS: GEORGE ST TROOP AND CITY OF SCRANTON
 SITE COMMENTS: COPAMS STATION 006
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (7560) SCRANTON-WILKES-BARRE, PA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 41.442778
 LONGITUDE: -75.623056
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 251
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.041	.036	.038	.040	.042	.041	.034	.025	.031	.033	.038	.044	.051	.058	.057	.060	.059	.061	.056	.053	.049	.047	.039	.032	.032	24	.061	
7	.041	.026	.016	.015	.010	.005	.013	.035	.041	.051	.057	.057	.056	.053	.047	.051	.043	.030	.037	.022	.015	.005	.006	.009	.009	24	.057	
8	.005	.002	.002	.002	.002	.002	.008	.015	.033	.042	.047	.048	.047	.047	.042	.036	.032	.025	.039	.031	.026	.008	.002	.005	.005	24	.048	
9	.002	.005	.006	.002	.002	.002	.002	.010	.028	.044	.052	.050	.046	.052	.059	.060	.061	.062	.054	.041	.033	.024	.002	.006	.006	24	.062	
10	.010	.015	.016	.014	.011	.012	.021	.025	.040	.058	.064	.065	.064	.069	.066	.066	.065	.054	.039	.055	.041	.033	.031	.034	.034	24	.069	
11	.031	.040	.032	.023	.017	.025	.032	.036	.043	.051	.053	.052	.052	.053	.054	.054	.055	.054	.050	.032	.024	.007	.012	.014	.014	24	.055	
12	.016	.013	.014	.009	.002	.005	.024	.035	.038	AM	BA	.050	.056	.058	.056	.053	.053	.051	.048	.040	.026	.029	.026	.022	22	.058		
13	.017rt	.016rt	.019rt	.018rt	.018rt	.012rt	.023rt	.039rt	.054rt	.070rt	.079rt	.082rt	.083rt	.086rt	.087rt	.087rt	.085rt	.088rt	.088rt	.087rt	.080rt	.077rt	.072rt	.070rt	24	.088		
14	.059	.054	.040	.037	.034	.029	.025	.035	.041	.051	.061	.065	.066	.061	.049	.049	.042	.033	.025	.030	.023	.023	.020	.018	.018	24	.066	
15	.020	.019	.018	.023	.023	.025	.032	.036	.041	.046	.050	.053	.055	.055	.054	.053	.052	.046	.033	.014	.002	.020	.022	.022	.024	24	.055	
16	.015	.005	.013	.018	.019	.008	.010	.019	.025	.036	.054	.062	.062	.065	.063	.065	.044	.041	.031	.030	.031	.032	.022	.021	.024	24	.065	
17	.023	.019	.014	.015	.015	.017	.021	.027	.032	.034	.033	.033	.034	.033	.035	.034	.029	.028	.021	.023	.028	.020	.005	.002	.024	24	.035	
18	.002	.002	.002	.002	.008	.014	.014	.020	.026	.031	.027	.030	.032	.033	.030	.027	.029	.029	.027	.022	.017	.002	.002	.002	.024	24	.033	
19	.002	.002	.002	.002	.002	.002	.005	.008	.012	.025	.029	.027	.030	.033	.031	.029	.027	.029	.023	.017	.010	.002	.002	.002	.024	24	.033	
20	.002	.009	.006	.002	.002	.005	.005	.011	.025	.037	.040	.041	.038	.039	.046	.050	.046	.041	.038	.025	.013	.012	.034	.025	.024	24	.050	
21																											0	
22																											0	
23																											0	
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25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	15	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX:	.059	.054	.040	.040	.042	.041	.034	.039	.054	.070	.079	.082	.083	.086	.087	.087	.085	.088	.088	.087	.080	.077	.072	.070	.070			
AVG:	.0191	.0175	.0159	.0148	.0138	.0136	.0179	.0251	.0340	.0435	.0489	.0506	.0515	.0530	.0517	.0516	.0481	.0452	.0415	.0361	.0287	.0215	.0197	.0189				

MONTHLY OBSERVATIONS: 358 MONTHLY MEAN: .0325 MONTHLY MAX: .088

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-079-1101 POC: 1
 COUNTY: (079) Luzerne
 CITY: (85152) Wilkes-Barre
 SITE ADDRESS: CHILWICK & WASHINGTON STS
 SITE COMMENTS: ADJACENT TO HOLLENBACK GOLF COURSE S40001128 PA SITE CODE (MOVED COPAMS SITE S21
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (7560) SCRANTON-WILKES-BARRE, PA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 41.265556
 LONGITUDE: -75.846389
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 172
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.041	.032	.033	.036	.036	.035	.033	.032	.032	.036	.037	.040	.046	.052	.053	.055	.056	.055	.055	.050	.041	.041	.041	.034	24	.056		
7	.016	.006	.002	.002	.002	.002	.009	.028	.039	.044	.050	.051	.052	.049	.054	.059	.052	.044	.035	.027	.015	.009	.005	.002	24	.059		
8	.002	.002	.002	.002	.002	.002	.006	.015	.033	.043	.047	.049	.051	.051	.048	.048	.049	.054	.046	.030	.035	.026	.015	.012	24	.054		
9	.012	.002	.002	.002	.002	.002	.002	.014	.037	.045	.049	.049	.054	.058	.059	.061	.057	.059	.053	.046	.031	.014	.007	.002	24	.061		
10	.002	.002	.002	.002	.002	.002	.011	.021	.034	.060	.059	.060	.060	.057	.058	.060	.058	.054	.050	.043	.034	.029	.019	.012	24	.060		
11	.018	.025	.025	.013	.006	.002	.022	.030	.035	.046	.051	.053	.051	.050	.049	.049	.049	.049	.048	.041	.023	.007	.002	.002	24	.053		
12	.002	.002	.002	.002	.002	.002	.012	.038	.042	.045	.048	.048	.048	.049	.051	.051	.051	.051	.049	.039	.020	.012	.012	.002	24	.051		
13	.002rt	.002rt	.002rt	.002rt	.002rt	.002rt	.009rt	.017rt	.033rt	.055rt	.070rt	.075rt	.080rt	.079rt	.080rt	.082rt	.085rt	.082rt	.077rt	.072rt	.072rt	.071rt	.066rt	.063rt	24	.085		
14	.063	.056	.052	.046	.040	.037	.040	.041	.047	.051	.054	.055	.053	.053	.050	.043	.042	.043	.039	.034	.025	.025	.020	.015	24	.063		
15	.012	.005	.010	.014	.011	.018	.027	.032	.036	.042	.045	AQ	.048	.049	.049	.049	.049	.049	.047	.032	.005	.007	.007	.012	23	.049		
16	.009	.002	.002	.002	.002	.002	.012	.013	.017	.033	.053	.056	.057	.057	.059	.055	.041	.036	.030	.036	.028	.021	.021	.026	24	.059		
17	.028	.014	.002	.002	.002	.020	.023	.023	.030	.031	.030	.031	.031	.031	.031	.030	.030	.029	.025	.022	.011	.002	.002	.002	24	.031		
18	.002	.006	.008	.012	.014	.013	.018	.022	.028	.030	.033	.035	.038	.041	.037	.030	.032	.029	.028	.027	.025	.020	.011	.002	24	.041		
19	.002	.002	.002	.002	.002	.002	.006	.012	.018	.024	.029	.030	.031	.032	.032	.029	.031	.034	.033	.025	.013	.006	.002	.002	24	.034		
20	.002	.002	.002	.002	.002	.002	.002	.007	.012	.031	.042	.048	.048	.046	.046	.051	.053	.047	.039	.033	.033	.028	.021	.013	24	.053		
21																										0		
22																										0		
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31																											0	
NO.:	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.063	.056	.052	.046	.040	.037	.040	.041	.047	.060	.070	.075	.080	.079	.080	.082	.085	.082	.077	.072	.072	.071	.066	.063				
AVG:	.0142	.0107	.0099	.0094	.0085	.0095	.0155	.0230	.0315	.0411	.0465	.0486	.0499	.0503	.0504	.0501	.0490	.0477	.0436	.0371	.0274	.0212	.0167	.0134				

MONTHLY OBSERVATIONS: 359 MONTHLY MEAN: .0302 MONTHLY MAX: .085

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-089-0002 POC: 1
 COUNTY: (089) Monroe
 CITY: (00000) Not in a city
 SITE ADDRESS: HC 1, BOX 95-B NEAR RT 611 & BROOKDALE ROAD
 SITE COMMENTS: SITE IS LOCATED AT DEP/DCNR POCONO DISTRICT OFFICE
 MONITOR COMMENTS: SWIFTWATER SITE

STATE: (42) Pennsylvania
 AQCR: (151) NORTHEAST PENNSYLVANIA-UPPER DELAW
 URBANIZED AREA: (7560) SCRANTON-WILKES-BARRE, PA
 LAND USE: FOREST
 LOCATION SETTING: RURAL

CAS NUMBER: 10028-15-6
 LATITUDE: 41.08306
 LONGITUDE: -75.32328
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 370
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS

REPORT FOR: JUNE 2008

DURATION: 1 HOUR

COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI

UNITS: Parts per million

PQAO ORG: (0851) Pennsylvania Department Of Environmental Protection

MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.028	.040	.039	.038	.038	.038	.037	.036	.035	.035	.035	.036	.041	.049	.042	.045	.048	.048	.046	.043	.035	.025	.013	.008	24	.049		
7	.007	.002	.002	.002	.006	.009	.016	.016	.019	.042	.043	.044	.044	.047	.047	.053	.054	.047	.042	.028	.027	.013	.020	.024	24	.054		
8	.032	.035	.037	.035	.028	.021	.024	.029	.033	.036	.041	.044	.044	.047	.047	.044	.037	.042	.041	.041	.037	.038	.033	.021	24	.047		
9	.012	.009	.034	.033	.036	.032	.026	.034	.042	.046	.047	.046	.049	.056	.061	.063	.060	.054	.043	.026	.025	.024	.023	.037	24	.063		
10	.049	.053	.048	.034	.025	.017	.008	.015	.041	.055	.059	.060	.061	.064	.067	.076	.081	.069	.050	.048	.031	.024	.040	.040	24	.081		
11	.041	.041	.039	.037	.029	.024	.032	.040	.044	.053	.057	.056	.055	.054	.053	.054	.055	.054	.052	.039	.029	.027	.024	.031	24	.057		
12	.037	.033	.035	.030	.035	.032	.032	.043	.048	.050	.052	.052	.052	.052	.054	.053	.052	.048	.041	.032	.029	.026	.025	.025	24	.054		
13	.024rt	.020rt	.020rt	.017rt	.017rt	.009rt	.019rt	.042rt	.056rt	.063rt	.061rt	.073rt	.082rt	.086rt	.094rt	.107rt	.108rt	.101rt	.090rt	.080rt	.067rt	.052rt	.055rt	.060rt	24	.108		
14	.052	.039	.035	.027	.020	.015	.027	.038	.042	.045	.042	.048	.048	.050	.045	.038	.032	.032	.026	.024	.026	.022	.018	.014	24	.052		
15	.016	.014	.016	.017	.016	.021	.034	.037	.039	.041	.045	.045	.049	.052	.054	.053	.052	.050	.043	.025	.022	.018	.017	.017	24	.054		
16	.017	.013	.012	.010	.010	.008	.008	.023	.032	.034	.048	.057	.061	.064	.071	.070	.056	.041	.042	.046	.031	.023	.027	.032	24	.071		
17	.042	.038	.037	.034	.031	.022	.029	.034	.040	.040	.038	.034	.033	.034	.035	.035	.033	.033	.031	.029	.027	.023	.012	.007	24	.042		
18	.007	.005	.005	.008	.012	.016	.024	.028	.029	.030	.034	.037	.037	.038	.037	.041	.037	.036	.033	.028	.022	.016	.014	.016	24	.041		
19	.017	.013	.011	.013	.002	.005	.013	.019	BA	.030	.035	.036	.038	.040	.038	.038	.037	.033	.034	.025	.015	.006	.006	.009	23	.040		
20	.008	.006	.006	.007	.009	.011	.010	.017	.030	.041	.046	.049	.050	.051	.048	.051	.056	.052	.048	.035	.044	.042	.036	.030	24	.056		
21																										0		
22																										0		
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31																										0		
NO.:	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.052	.053	.048	.038	.038	.038	.037	.043	.056	.063	.061	.073	.082	.086	.094	.107	.108	.101	.090	.080	.067	.052	.055	.060				
AVG:	.0259	.0241	.0251	.0228	.0209	.0187	.0226	.0301	.0379	.0427	.0455	.0478	.0496	.0523	.0529	.0547	.0532	.0493	.0441	.0366	.0311	.0253	.0242	.0247				

MONTHLY OBSERVATIONS: 359 MONTHLY MEAN: .0359 MONTHLY MAX: .108

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-133-0008 POC: 1
 COUNTY: (133) York
 CITY: (87048) York
 SITE ADDRESS: HILL ST.
 SITE COMMENTS: PHINEAS T. DAVIS JUNIOR HIGH SCHOOL Y6700101 PA SITE CODE
 MONITOR COMMENTS: 11

STATE: (42) Pennsylvania
 AQCR: (196) SOUTH CENTRAL PENNSYLVANIA
 URBANIZED AREA: (9280) YORK, PA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 39.965278
 LONGITUDE: -76.699444
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 125
 PROBE HEIGHT: 4

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection
 HOUR

REPORT FOR: JUNE 2008 DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.044	.045	.046	.044	.037	.029	.027	.030	.032	.033	.034	.040	.046	.052	.055	.058	.063	.065	.070	.067	.058	.047	.038	.031	24	.070		
7	.020	.011	.002	.002	.002	.002	.012	.019	.023	.036	.053	.053	.053	.054	.057	.058	.058	.058	.055	.047	.044	.042	.038	.032	24	.058		
8	.023	.023	.018	.018	.008	.005	.019	.028	.038	.042	.044	.045	.044	.046	.045	.046	.045	.043	.040	.034	.032	.032	.027	.028	24	.046		
9	.031	.022	.016	.011	.012	.015	.021	.032	.042	.048	.048	.050	.053	.058	.059	.059	.057	.059	.058	.049	.036	.027	.034	.027	24	.059		
10	.019	.002	.002	.002	.002	.002	.005	.024	.028	.042	.042	.062	.064	.073	.071	.080	.076	.066	.055	.049	.040	.037	.033	.032	24	.084		
11	.036	.038	.038	.034	.029	.023	.024	.033	.042	.052	BA	.062	.063	.062	.062	.064	.066	.062	.061	.053	.028	.013	.007	.006	23	.066		
12	.013	.019	.008	.006	.002	.006	.015	.025	.046	.059	.065	.066	.063	.070	.072	.071	.072	.075	.071	.057	.032	.020	.009	.015	24	.075		
13	.018rt	.011rt	.021rt	.030rt	.027rt	.028rt	.031rt	.032rt	.042rt	.068rt	.076rt	.081rt	.087rt	.093rt	.113rt	.114rt	.100rt	.096rt	.089rt	.077rt	.066rt	.056rt	.050rt	.049rt	24	.114		
14	.051	.048	.046	.044	.043	.043	.045	.050	.053	.057	.058	.061	.062	.066	.069	.066	.054	.044	.040	.034	.031	.025	.023	.020	24	.069		
15	.020	.016	.018	.020	.014	.016	.019	.026	.032	.032	.048	.056	.060	.061	.059	.058	.058	.056	.055	.051	.039	.024	.023	.018	24	.061		
16	.013	.014	.002	.002	.002	.002	.012	.035	.037	.048	.058	.062	.062	.058	.056	.051	.051	.047	.043	.040	.038	.039	.035	.031	24	.062		
17	.024	.017	.016	.014	.013	.017	.021	.031	.041	.048	.048	.046	.044	.040	.043	.044	.039	.040	.041	.041	.037	.030	.031	.030	24	.048		
18	.031	.024	.002	.002	.006	.012	.026	.032	.035	.039	AM	.043	.044	.046	.044	.035	.035	.039	.031	.027	.026	.018	.018	.013	23	.046		
19	.011	.012	.008	.005	.002	.002	.011	.014	.023	.032	.036	.039	.038	.040	.040	.043	.043	.046	.045	.040	.016	.007	.002	.002	24	.046		
20	.002	.002	.002	.002	.002	.002	.013	.027	.034	.037	.049	.051	.054	.059	.058	.057	.061	.054	.055	.050	.045	.036	.028	.010	24	.061		
21																										0		
22																											0	
23																											0	
24																											0	
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30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	15	15	13	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MAX:	.051	.048	.046	.044	.043	.043	.045	.050	.053	.068	.076	.081	.087	.093	.113	.114	.100	.096	.089	.077	.066	.056	.050	.049				
AVG:	.0237	.0203	.0163	.0157	.0134	.0136	.0201	.0292	.0365	.0449	.0522	.0546	.0564	.0584	.0608	.0605	.0585	.0567	.0539	.0477	.0379	.0302	.0264	.0229				

MONTHLY OBSERVATIONS: 358 MONTHLY MEAN: .0379 MONTHLY MAX: .114

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Feb. 27, 2009

(44201) Ozone

SITE ID: 42-133-0011 POC: 1
 COUNTY: (133) York
 CITY: (00000) Not in a city
 SITE ADDRESS: 2650 Delta Road
 SITE COMMENTS: Downwind site
 MONITOR COMMENTS: DOWNWIND SITE

STATE: (42) Pennsylvania
 AQCR: (196) SOUTH CENTRAL PENNSYLVANIA
 URBANIZED AREA: (0000) NOT IN AN URBAN AREA
 LAND USE: AGRICULTURAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 10028-15-6
 LATITUDE: 39.8609700009
 LONGITUDE: -76.462055
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 240
 PROBE HEIGHT: 3

SUPPORT AGENCY: (0851) Pennsylvania Department Of Environmental Protection
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (087) INSTRUMENTAL ULTRA VIOLET ABSORPTI
 PQA0 ORG: (0851) Pennsylvania Department Of Environmental Protection

REPORT FOR: JUNE 2008

DURATION: 1 HOUR
 UNITS: Parts per million
 MIN DETECTABLE: .005

DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MAXIMUM		
1																										0		
2																											0	
3																											0	
4																											0	
5																											0	
6	.046	.048	.050	.047	.044	.043	.040	.039	.040	.043	.045	.049	.052	.056	.060	.064	.069	.072	.067	.054	.043	.040	.038	.036	.036	24	.072	
7	.028	.026	.022	.021	.016	.015	.015	.013	.025	.044	.054	.055	.055	.056	.059	.058	.056	.054	.051	.049	.042	.042	.037	.037	.037	24	.059	
8	.035	.032	.030	.027	.028	.027	.026	.031	.034	.040	.044	.045	.042	.044	.047	.046	.046	.045	.042	.039	.036	.036	.037	.034	.034	24	.047	
9	.031	.033	.034	.032	.031	.029	.030	.037	.046	.052	.056	.055	.053	.056	.057	.061	.059	.055	.053	.053	.052	.047	.042	.038	.038	24	.061	
10	.036	.032	.031	.031	.031	.030	.029	.028	.041	.050	.054	.060	.056	.065	.079	.099	.108	.091	.052	.048	.043	.039	.036	.032	.032	24	.108	
11	.033	.035	.036	.035	.033	.032	.034	.041	.047	.054	.059	.063	.065	.072	.070	.068	.067	.063	.058	.056	.057	.059	.053	.055	.055	24	.072	
12	.055	.054	.051	.048	.037	.031	.040	.044	.051	.056	.064	.073	.075	.075	.075	.072	.073	.072	.068	.067	.068	.067	.062	.044	.044	24	.075	
13	.043rt	.043rt	.041rt	.045rt	.039rt	.037rt	.038rt	.043rt	.047rt	.059rt	.069rt	.077rt	.087rt	.097rt	.101rt	.086rt	.081rt	.081rt	.077rt	.073rt	.062rt	.053rt	.048rt	.047rt	.047rt	24	.101	
14	.047	.044	.043	.039	.037	.035	.036	.041	.050	.056	.058	.067	.068	.069	.075	.065	.055	.047	.044	.039	.042	.035	.030	.025	.025	24	.075	
15	.025	.024	.023	.025	.025	.023	.021	.026	.033	.038	.046	.051	.056	.059	.063	.060	.059	.057	.053	.048	.049	.046	.044	.042	.042	24	.063	
16	.044	.043	.041	.039	.036	.038	.028	.029	.034	.046	.055	.059	.061	.058	.058	.054	.050	.048	.047	.043	.036	.035	.034	.033	.033	24	.061	
17	.031	.021	.022	.021	.028	.037	.039	.043	.043	.048	.052	.050	.047	.046	.041	.046	.043	.039	.040	.039	.039	.037	.036	.036	.036	24	.052	
18	.036	.033	.031	.029	.027	.024	.022	.032	.040	.043	.046	.048	.049	.050	.050	.048	.042	.042	.040	.034	.030	.026	.021	.024	.024	24	.050	
19	.024	.022	.022	.021	.020	.021	.022	.024	.028	.032	.037	.041	.044	.045	.044	.048	.049	.047	.045	.034	.038	.040	.037	.043	.043	24	.049	
20	.045	.045	.042	.046	.043	.042	.037	.042	.046	.051	.053	.055	.055	.058	.060	.059	.060	.060	.057	.056	.055	.049	.041	.039	.039	24	.060	
21																											0	
22																											0	
23																											0	
24																											0	
25																											0	
26																											0	
27																											0	
28																											0	
29																											0	
30																											0	
31																											0	
NO.:	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
MAX:	.055	.054	.051	.048	.044	.043	.040	.044	.051	.059	.069	.077	.087	.097	.101	.099	.108	.091	.077	.073	.068	.067	.062	.055				
AVG:	.0373	.0357	.0346	.0337	.0317	.0309	.0305	.0342	.0403	.0475	.0528	.0565	.0577	.0604	.0626	.0623	.0611	.0582	.0529	.0488	.0461	.0434	.0397	.0377				

MONTHLY OBSERVATIONS: 360 MONTHLY MEAN: .0457 MONTHLY MAX: .108

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

QUALIFIER CODES:

Qualifier Code	Qualifier Description	Qualifier Type
AM	Miscellaneous Void	NULL
AQ	Collection Error	NULL
BA	Maintenance/Routine Repairs	NULL
rt	Wildfire-U. S.	NAT

Note: Qualifier codes with regional concurrence are shown in upper case,
and those without regional concurrence are shown in lower case.

Attachment 2

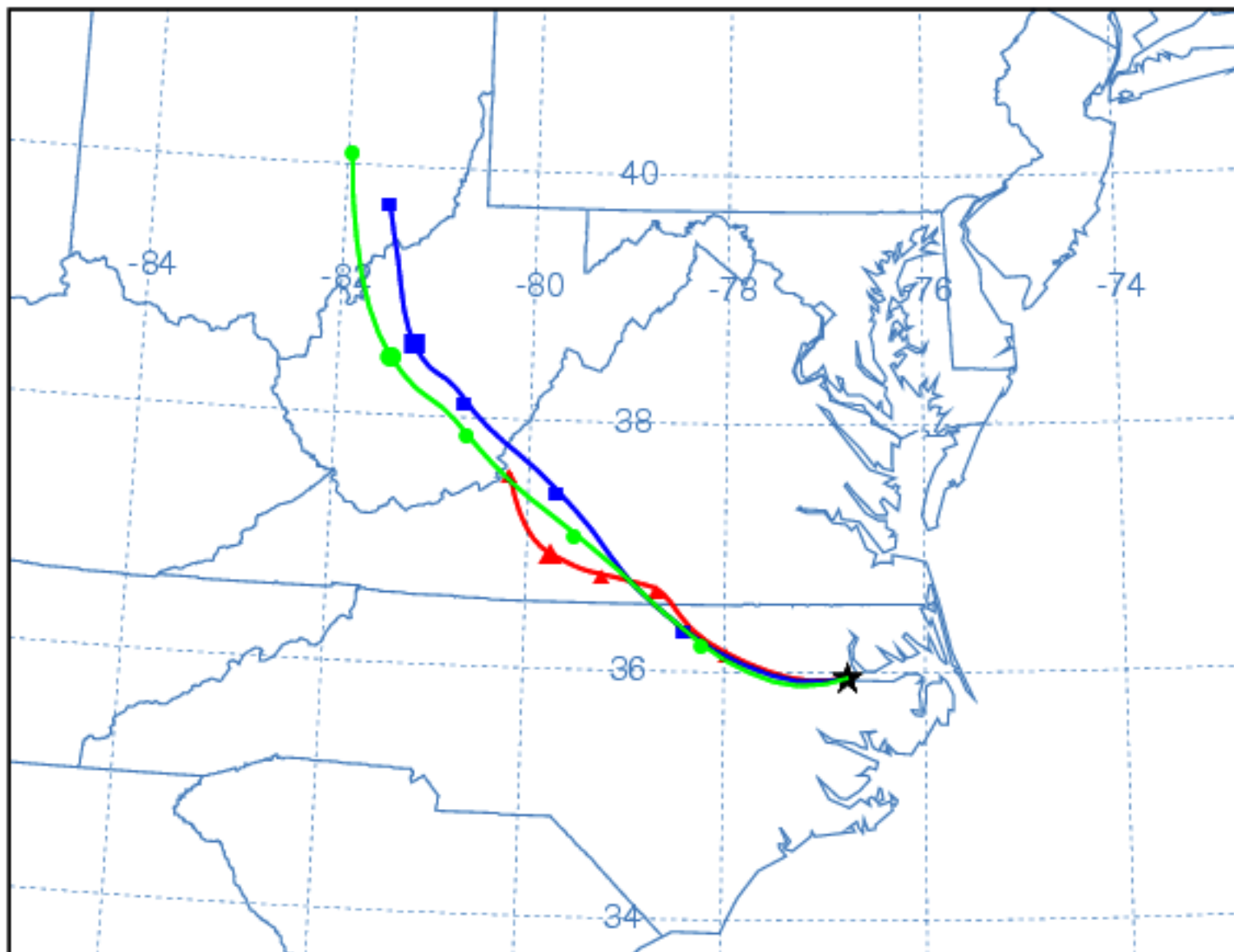
Attachment 2 contains the forward trajectories for the wildfires that originated in North Carolina. Pennsylvania DEP has used the National Oceanic and Atmospheric Administration (NOAA) “HYSPLIT” transport and dispersion model and plotted forward trajectories for the North Carolina fires. We have selected the Pocosin Lakes National Wildlife Refuge in eastern North Carolina as the reference point because it is here that the fires were burning most intensely and where the heaviest smoke concentrations originated for the longest duration.

NOAA HYSPLIT MODEL

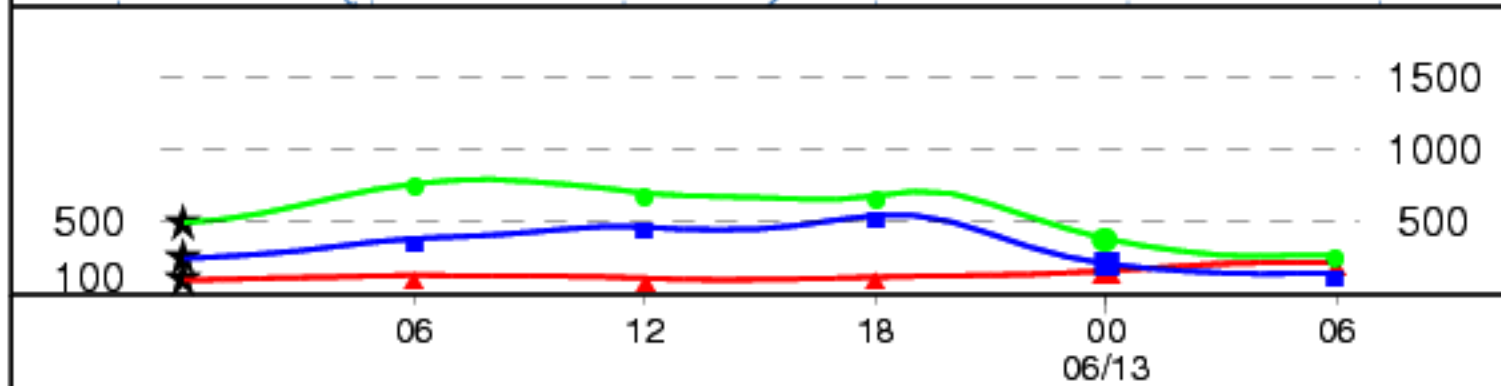
Forward trajectories starting at 0000 UTC 12 Jun 08

EDAS Meteorological Data

Source ★ at 35.96 N 76.76 W



Meters AGL



Job ID: 374570 Job Start: Wed Dec 10 13:58:22 GMT 2008
 Source 1 lat.: 35.96 lon.: -76.76 hgts: 100, 250, 500 m AGL

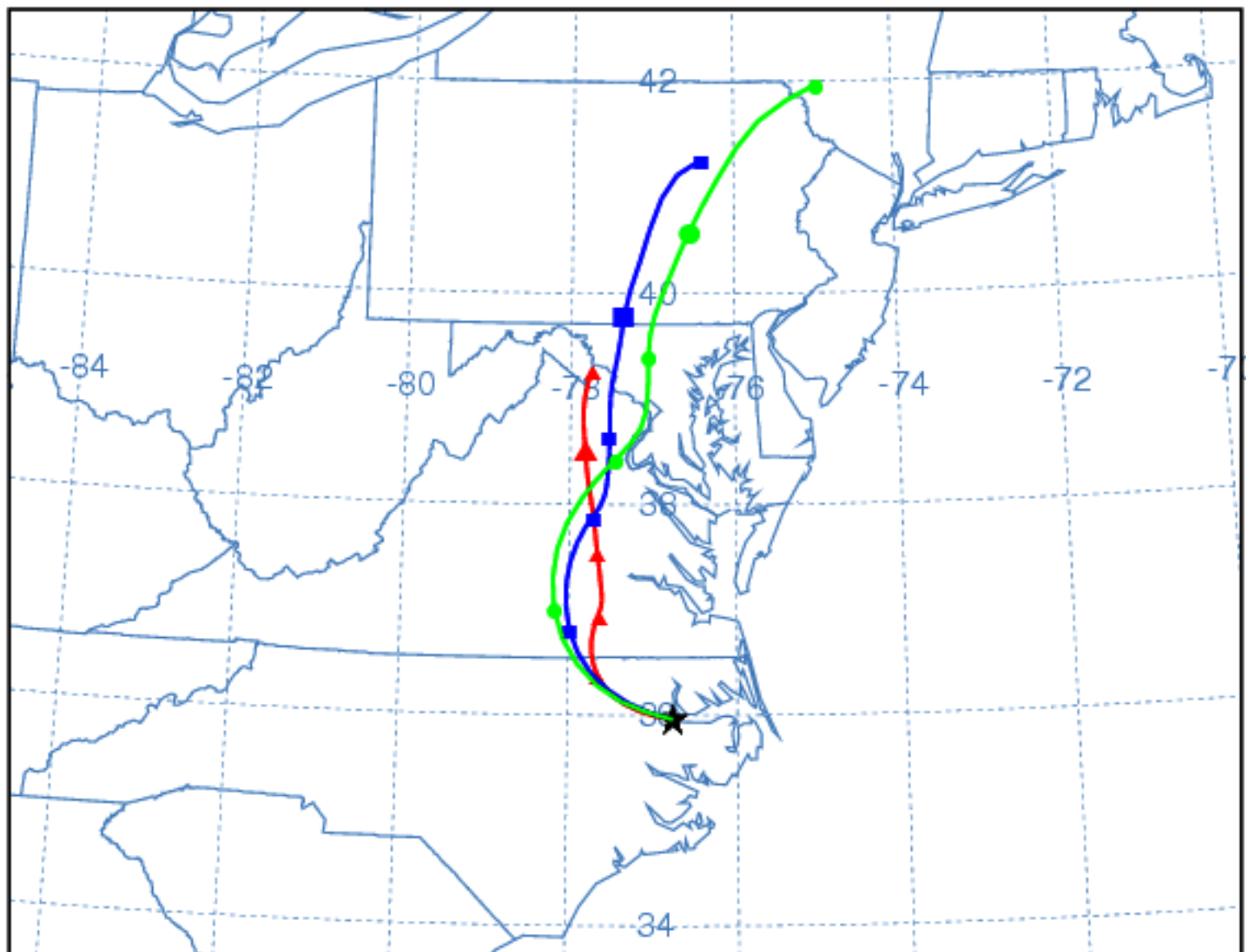
Trajectory Direction: Forward Duration: 30 hrs Meteo Data: EDAS40
 Vertical Motion Calculation Method: Model Vertical Velocity
 Produced with HYSPLIT from the NOAA ARL Website (<http://www.arl.noaa.gov/ready/>)

NOAA HYSPLIT MODEL

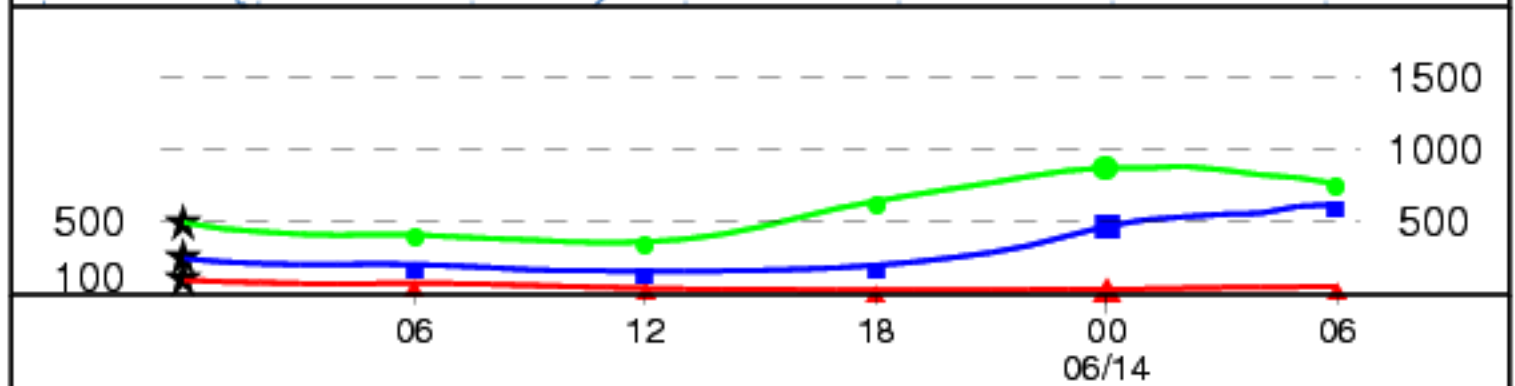
Forward trajectories starting at 0000 UTC 13 Jun 08

EDAS Meteorological Data

Source ★ at 35.96 N 76.76 W



Meters AGL



Job ID: 374472 Job Start: Wed Dec 10 13:51:24 GMT 2008
 Source 1 lat.: 35.96 lon.: -76.76 hghts: 100, 250, 500 m AGL

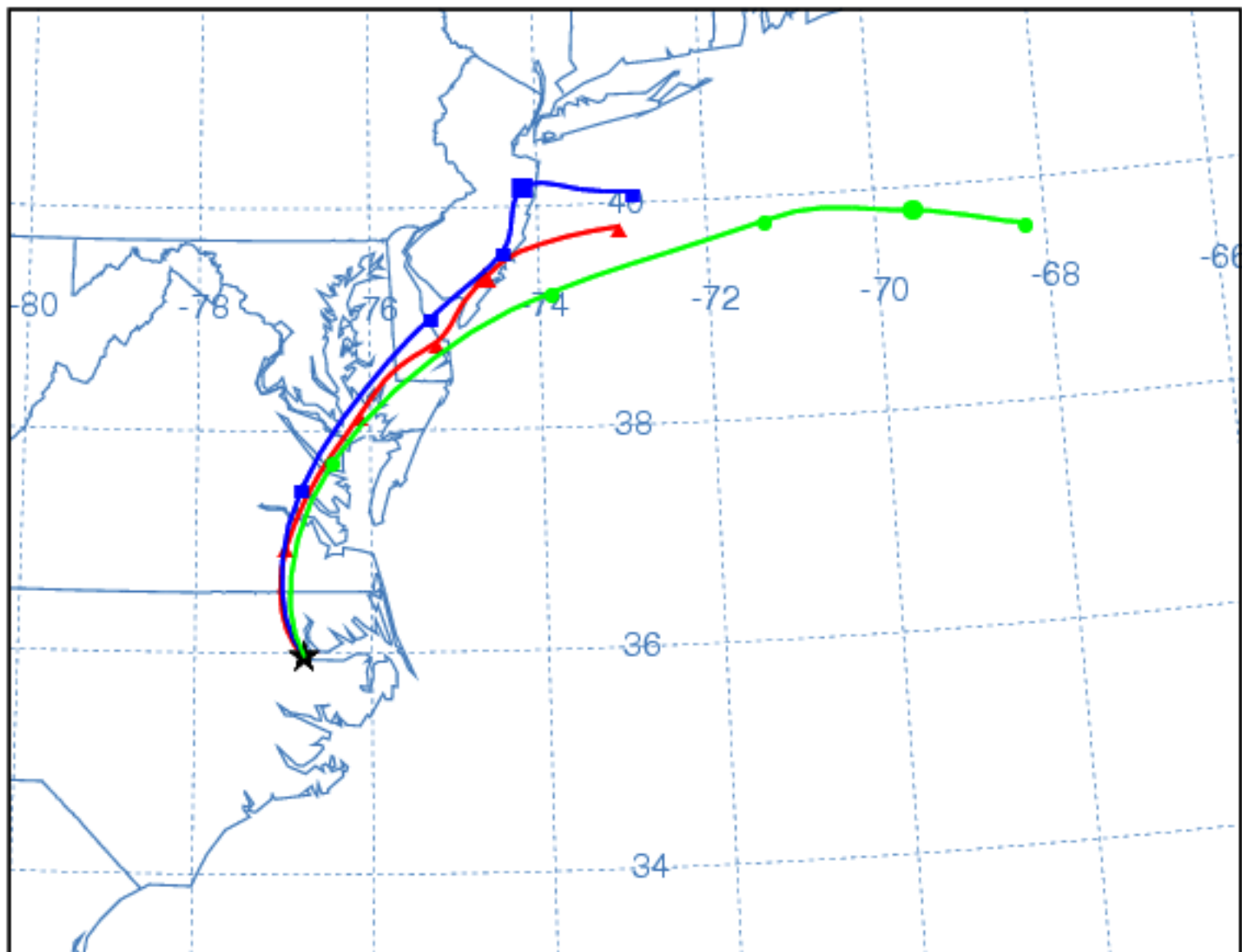
Trajectory Direction: Forward Duration: 30 hrs Meteo Data: EDAS40
 Vertical Motion Calculation Method: Model Vertical Velocity
 Produced with HYSPLIT from the NOAA ARL Website (<http://www.arl.noaa.gov/ready/>)

NOAA HYSPLIT MODEL

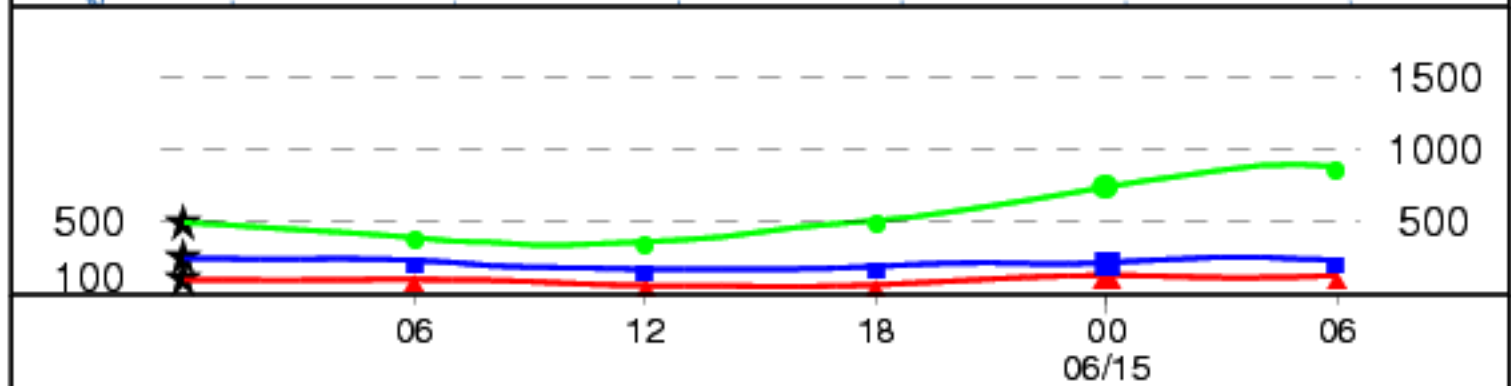
Forward trajectories starting at 0000 UTC 14 Jun 08

EDAS Meteorological Data

Source ★ at 35.96 N 76.76 W



Meters AGL



Job ID: 374733 Job Start: Wed Dec 10 14:08:16 GMT 2008
 Source 1 lat.: 35.96 lon.: -76.76 hgts: 100, 250, 500 m AGL

Trajectory Direction: Forward Duration: 30 hrs Meteo Data: EDAS40
 Vertical Motion Calculation Method: Model Vertical Velocity
 Produced with HYSPLIT from the NOAA ARL Website (<http://www.arl.noaa.gov/ready/>)

Attachment 3

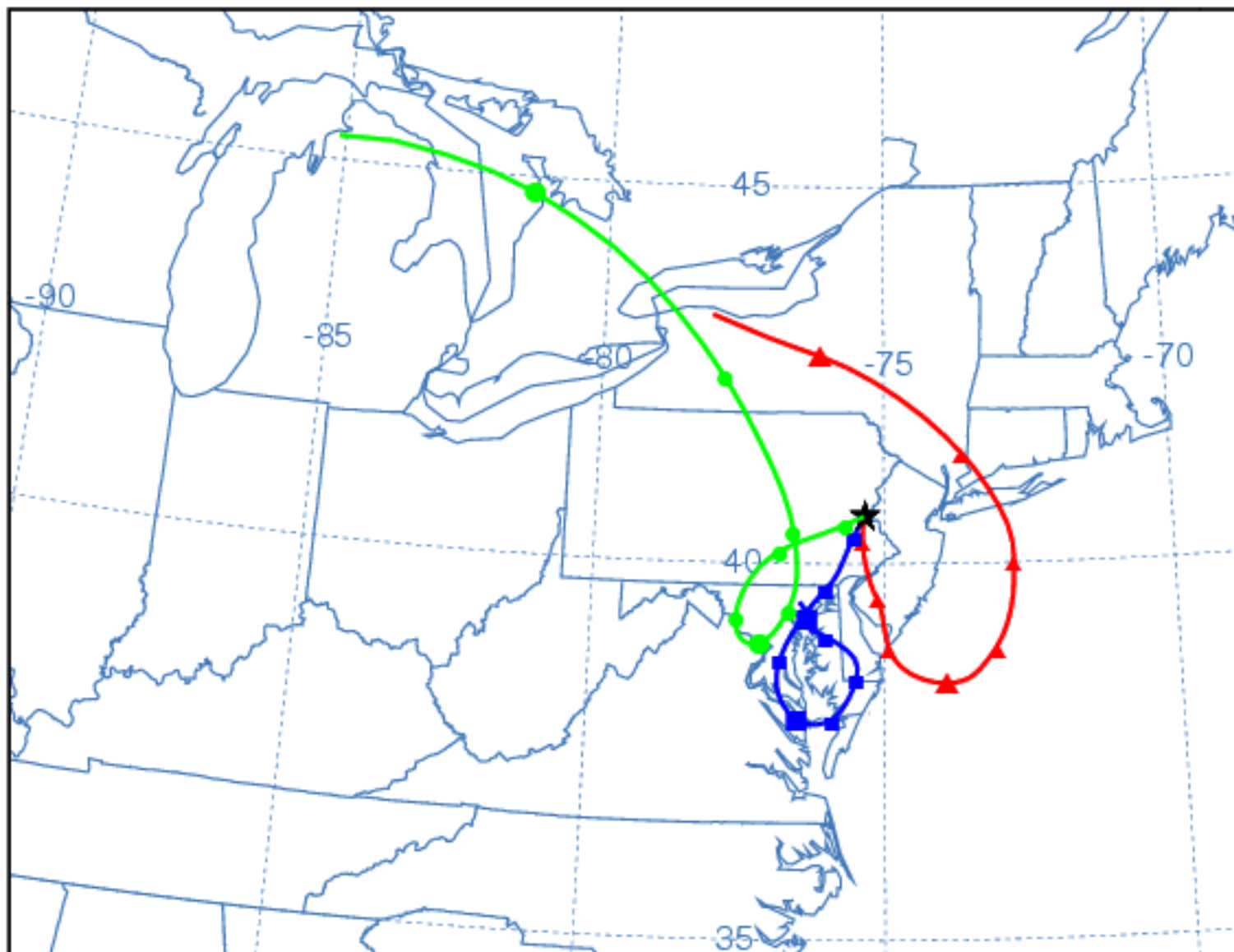
Attachment 3 contains the backward trajectories using the National Oceanic and Atmospheric Administration (NOAA) model. Pennsylvania DEP has used the NOAA “HYSPLIT” transport and dispersion model and plotted backward trajectories for the Freemansburg and Scranton sites. We used these sites because they mark the approximate north eastern and south eastern geographical boundaries of the state affected by the smoke event.

NOAA HYSPLIT MODEL

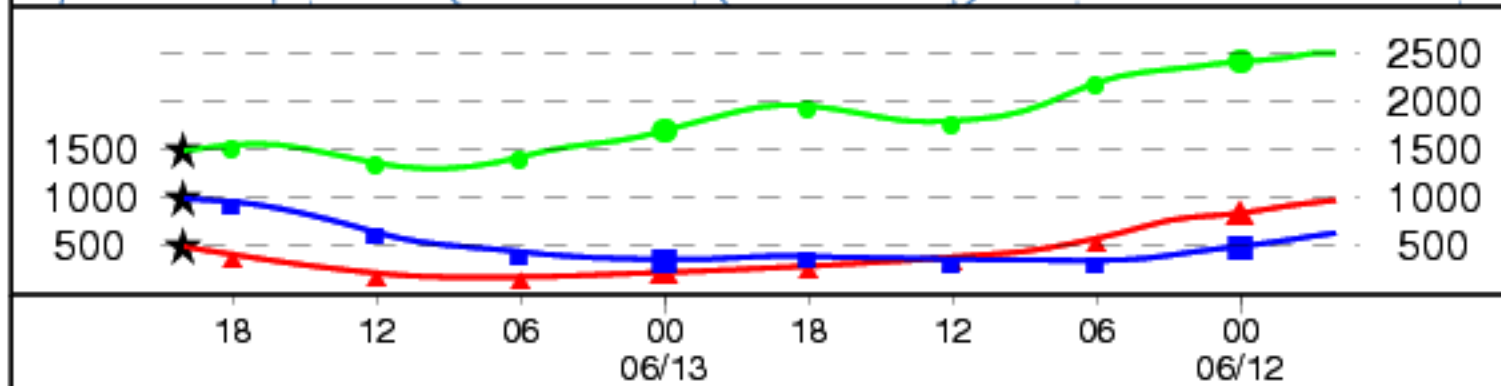
Backward trajectories ending at 2000 UTC 13 Jun 08

GDAS Meteorological Data

Source ★ at 40.63 N 75.34 W



Meters AGL



Job ID: 352341 Job Start: Thu Feb 26 21:01:58 GMT 2009
 Source 1 lat: 40.628 lon.: -75.342 hgts: 500, 1000, 1500 m AGL

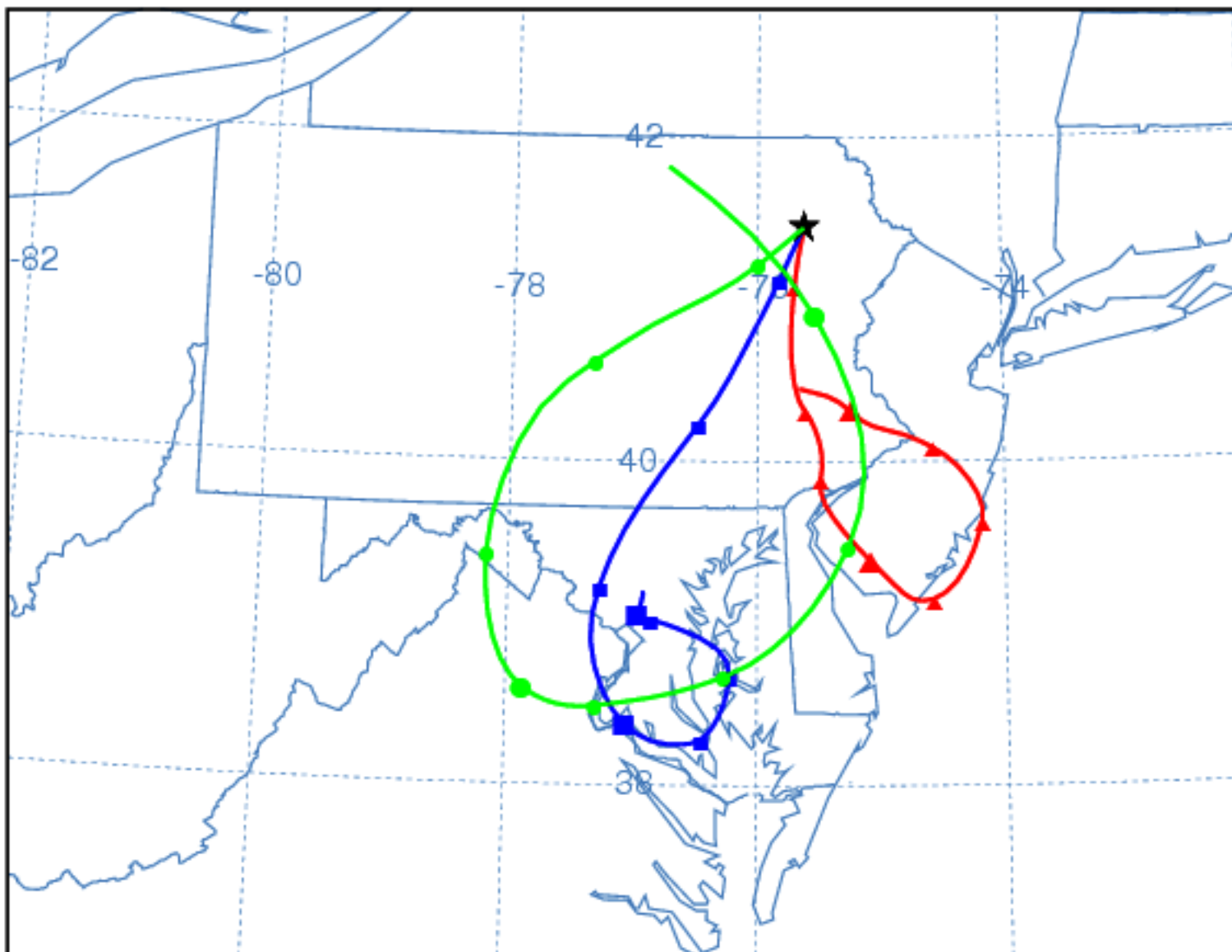
Trajectory Direction: Backward Duration: 48 hrs Meteo Data: GDAS1 / GFS
 Vertical Motion Calculation Method: Model Vertical Velocity
 Produced with HYSPLIT from the NOAA ARL Website (<http://www.arl.noaa.gov/ready/>)

NOAA HYSPLIT MODEL

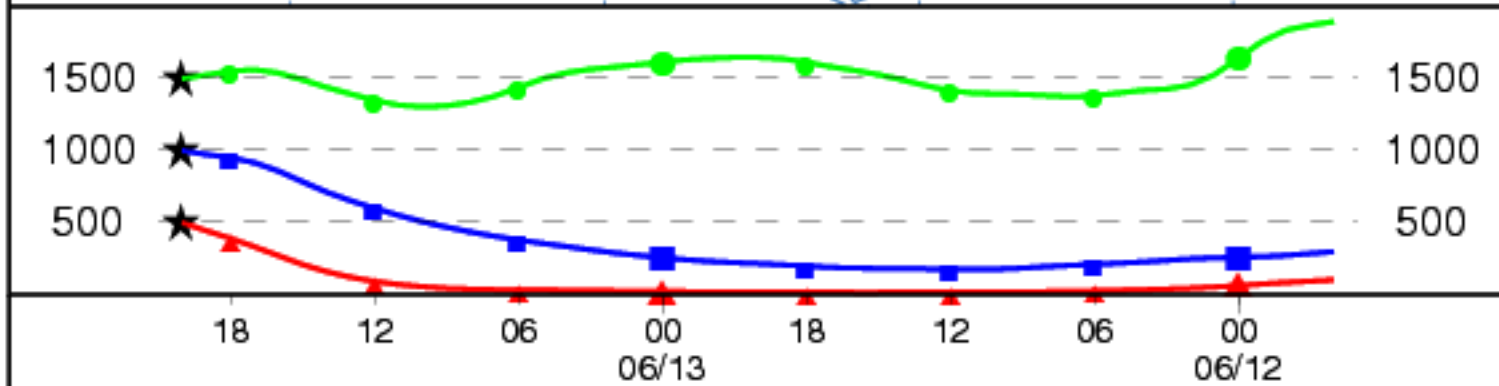
Backward trajectories ending at 2000 UTC 13 Jun 08

GDAS Meteorological Data

Source ★ at 41.44 N 75.62 W



Meters AGL

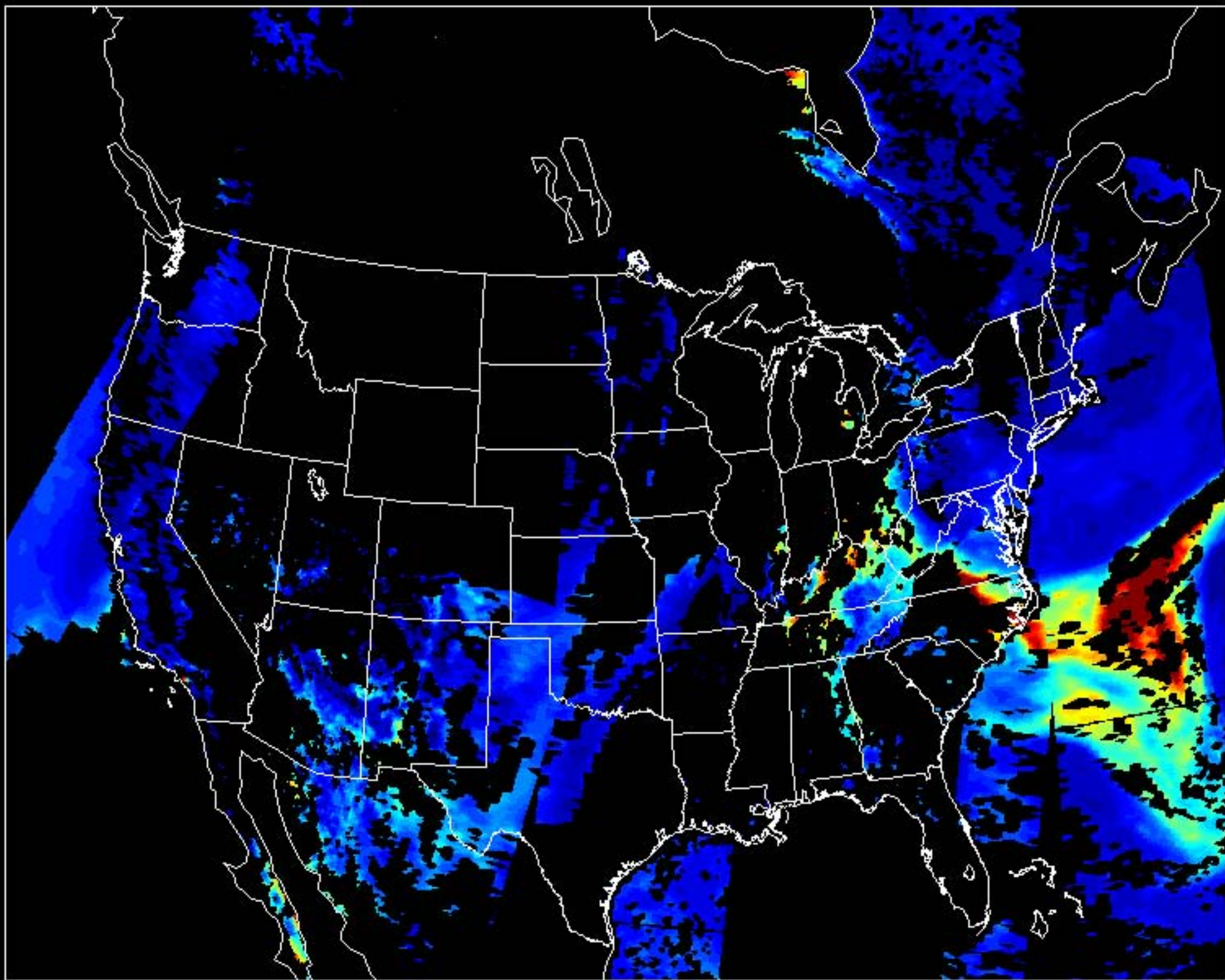


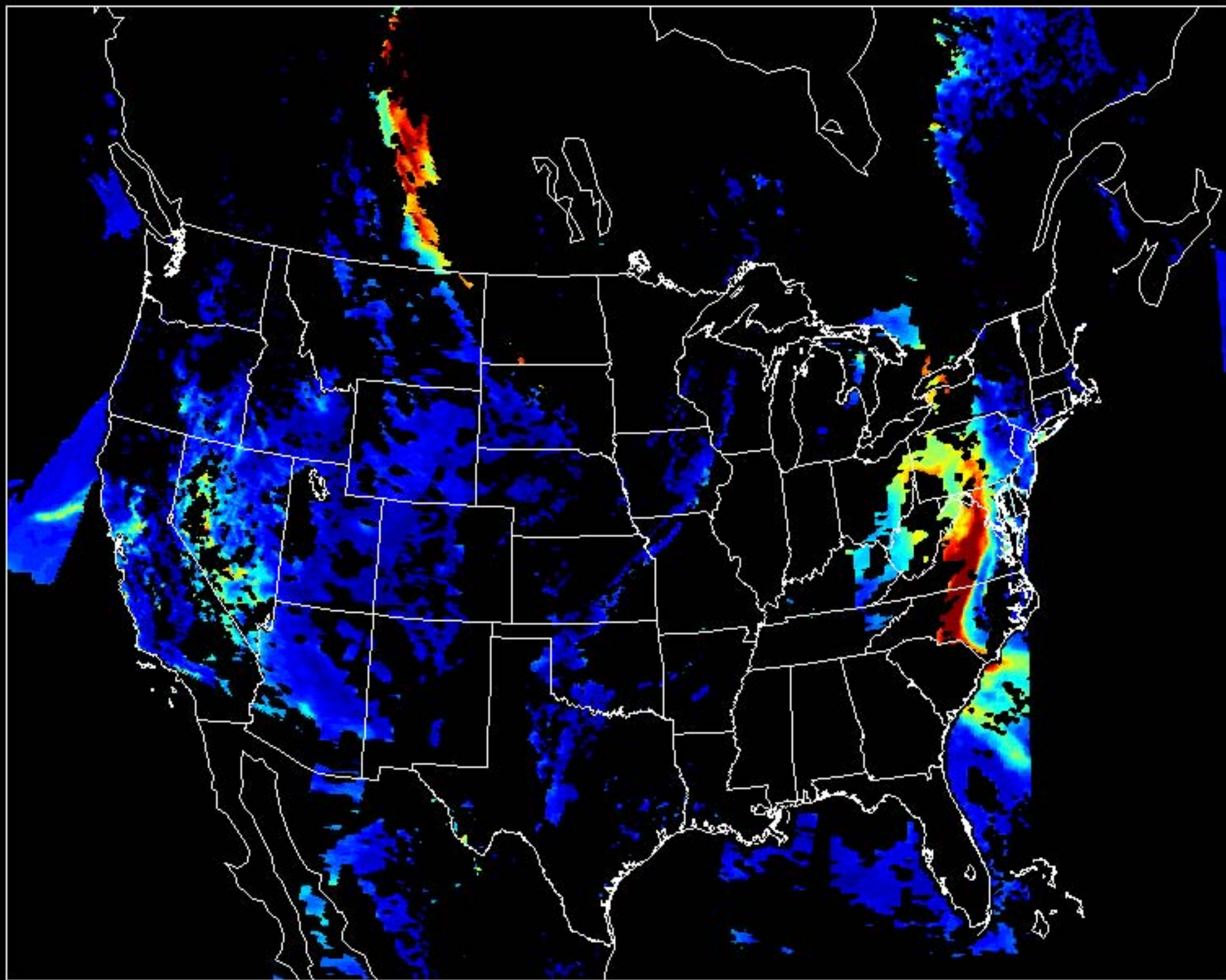
Job ID: 352335 Job Start: Thu Feb 26 20:58:20 GMT 2009
Source 1 lat.: 41.443 lon.: -75.623 hghts: 500, 1000, 1500 m AGL

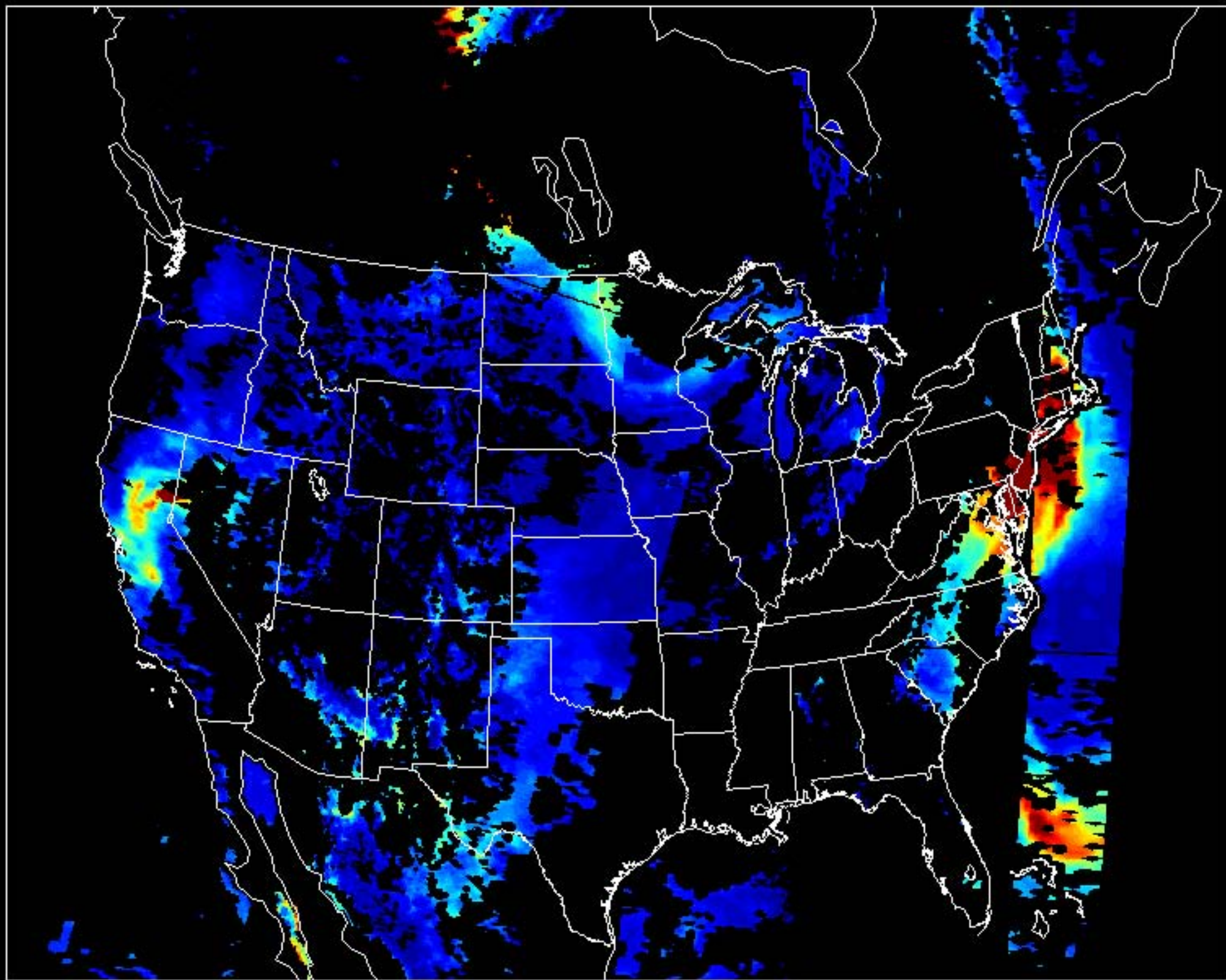
Trajectory Direction: Backward Duration: 48 hrs Meteo Data: GDAS1 / GFS
Vertical Motion Calculation Method: Model Vertical Velocity
Produced with HYSPLIT from the NOAA ARL Website (<http://www.arl.noaa.gov/ready/>)

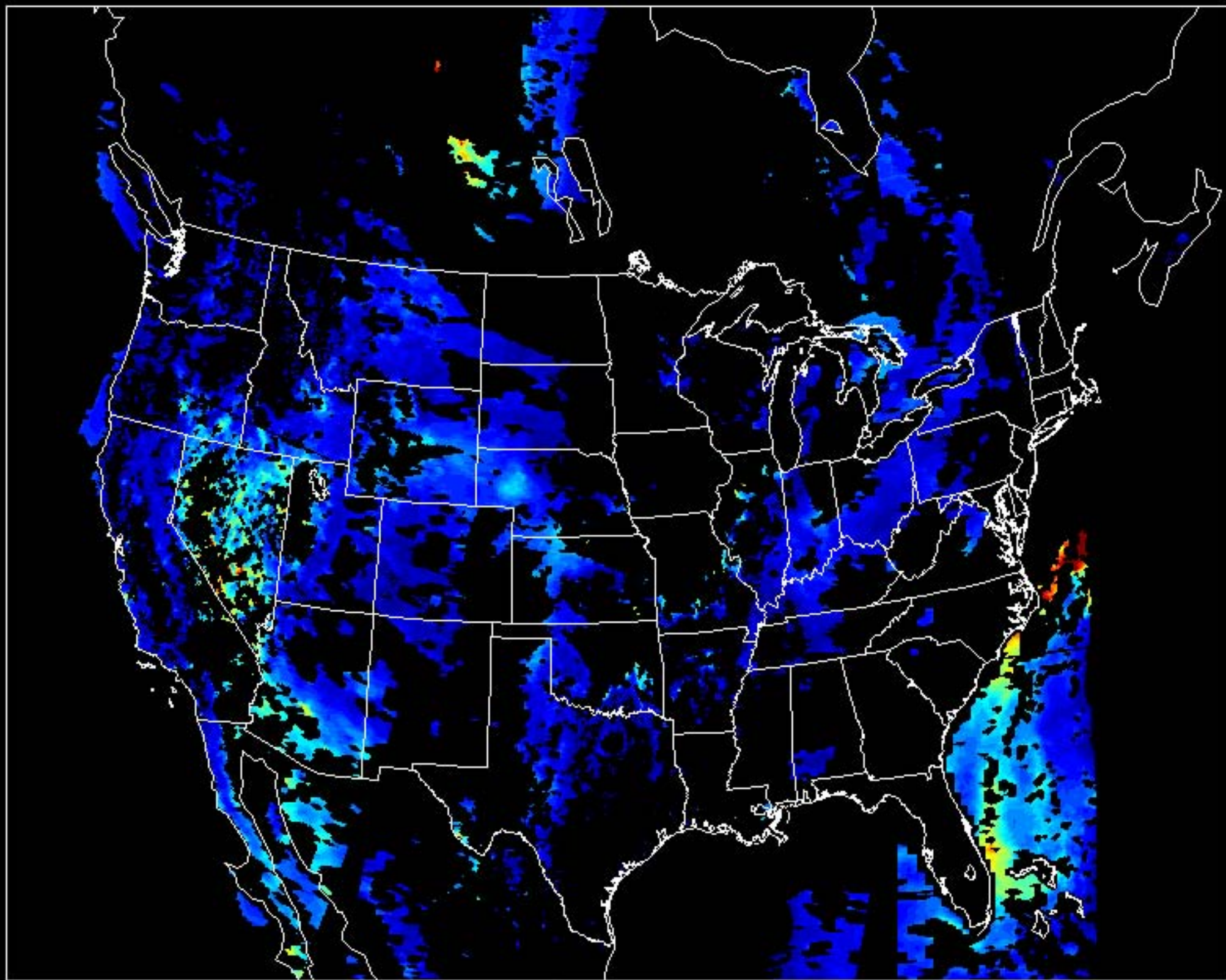
Attachment 4

Attachment 4 contains the satellite images measuring the vertical aerosol optical depth (AOD) through the atmosphere. Aerosol may be defined as a mixture of particulate matter, smoke and ozone precursors present in the atmosphere. Attached are satellite images which show the path of highest AOD from June 12, 13, 14 and 15, 2008. The areas in red denote the highest concentrations of aerosol, and areas in blue are areas of low concentration. The attached loop of these images clearly show these aerosols which initially only affected North Carolina progressing northward and eventually affecting Pennsylvania, mainly on June 13th and on June 14th of 2008.









Attachment 5

Attachment 5 contains headlines and reports of the North Carolina wildfires from various media sources. These reports authenticate the fact that these fires were very intense and burned roughly 50 square miles of the forest. This prompted Governor Mike Easley to declare a state of emergency in the immediate vicinity of the fire as well as neighboring counties to combat the blazes.

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Marketplace

N.C. wildfire triggers state of emergency

Part of state and neighboring Virginia under cloudy haze



Chris Curry / AP

The wildfire that started in a North Carolina wildlife refuge on Thursday spread towards this grove of trees Thursday Hyde County.

Ap Associated Press

updated 5:45 p.m. ET, Fri., June. 6, 2008

COLUMBIA, N.C. - North Carolina's governor declared a state of emergency Friday as firefighters worked to contain a massive wildfire at a federal wildlife refuge that spread smoke into Virginia.

Officials hoped lighter winds would help them control the blaze that has burned 28,985 acres — roughly 50 square miles — in and around the Pocosin Lakes National Wildlife Refuge in eastern North Carolina, about 70 miles south of Norfolk, Va.

Video: Weather

[Going inside tornadoes](#)

Feb. 23: TODAY's Al Roker gives a preview of The Weather Channel's new hour-long special that looks at the most terrifying tornadoes in history.



[Winter storm slams New England](#)

[Storms bearing down on U.S. coasts](#)

[Snow causes 50-car pileup](#)

[Winter blast hits the Midwest](#)

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Gov. Mike Easley declared a state of emergency in three counties to bring firefighters from multiple agencies under a single authority. He warned that roads — including U.S. 64, U.S. 264 and three state routes — could be obscured by smoke.

Story continues below ↓

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The fire was only 30 percent contained Friday morning. No injuries or structure damage were reported. Authorities urged the evacuation of about 80 homes.

"Anytime the winds go lighter, that makes a vast improvement," said Dennis Wahlers, a spokesman for the North Carolina Forest Service.

Smoke drifted as far north as Richmond, Va., and clogged filters on two air monitoring stations a few dozen miles west of the fire, said state Division of Air Quality spokesman Tom Mather.

"You can't really see it. You can smell it," said Sonia Mark, a meteorologist at the National Weather Service office in Wakefield, Va., more than 80 miles away.

Officials said no roads had been closed, although access to the wildlife refuge was limited. Several school systems opened late Friday because of low visibility. Two temporary shelters were available for evacuees.

The National Weather Service issued a heat advisory for the region Friday, with temperatures forecast to reach the high 90s.

"Once it starts warming up, the smoke will start lifting up and start dispersing a whole lot better," Wahlers said.

Fire officials in South Carolina have been battling 10 to 15 small wildfires daily, slightly above normal for this time of year, said state Forestry Commission fire chief Paul Watts.

He said high temperatures can be worrisome because of the rising drought problems. "If we have an occurrence it makes it extremely tough on our firefighters to fight fire in 100-degree temperatures," he said.

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 Images of the year's most extreme climate conditions around the world.

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[The most dangerous vehicles of 2009](#)

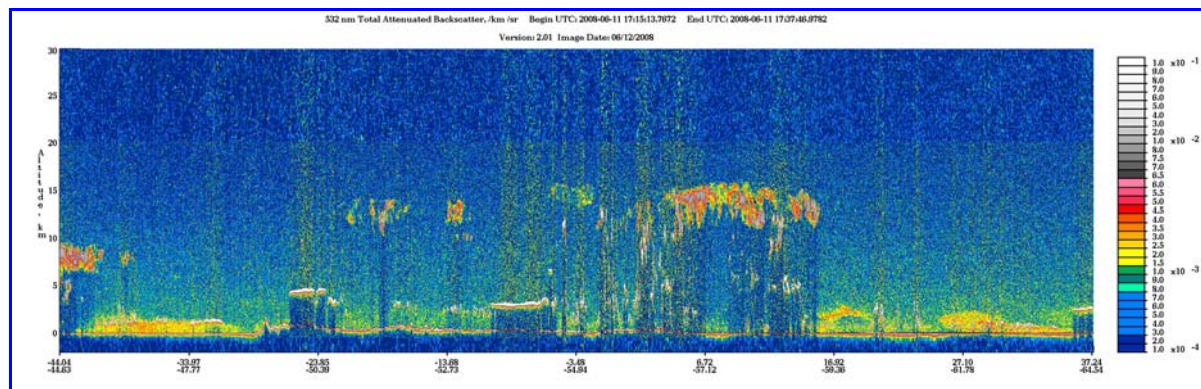
[Police: \\$1,000 bill foils teen safe-robbers](#)

[Reagan redux](#)

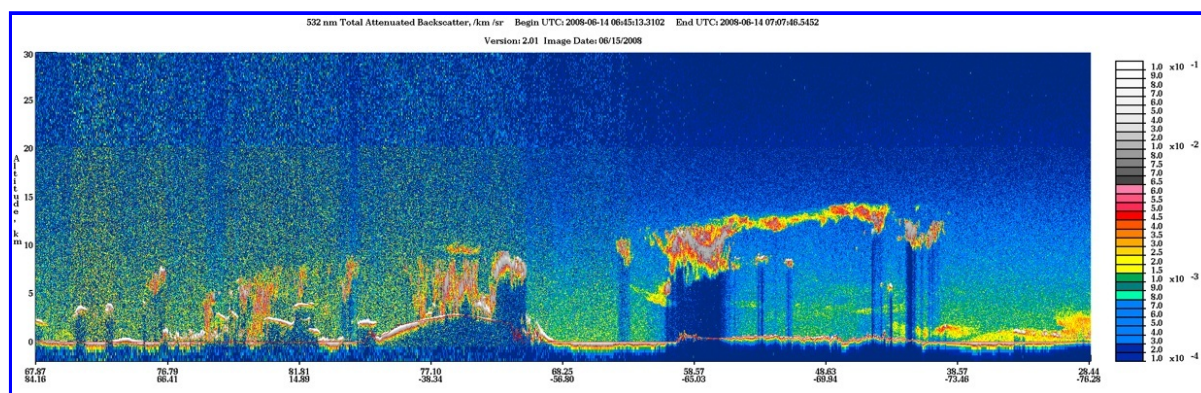
[9 killed in airliner crash in Amsterdam](#)

[No free lunch: Schools get tough on deadbeats](#)

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Note: Chieko Kittaka also sent this image around on pyroCb's List.



Posted by Ray Hoff at 6:00 PM | [Comments \(0\)](#) | [TrackBack](#)

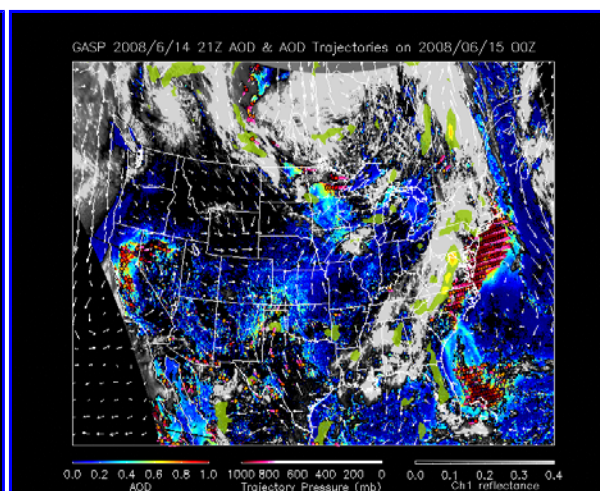
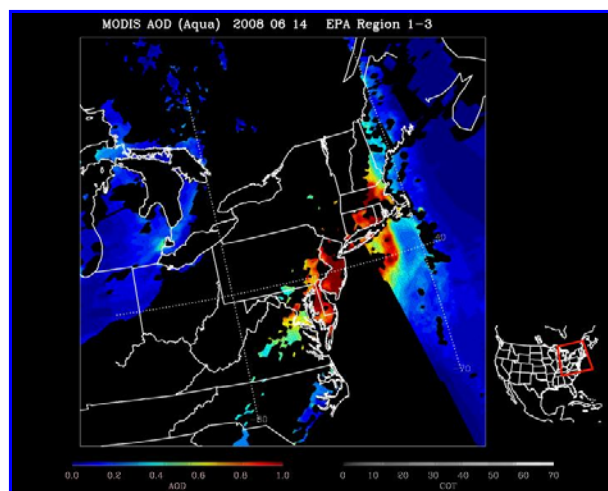
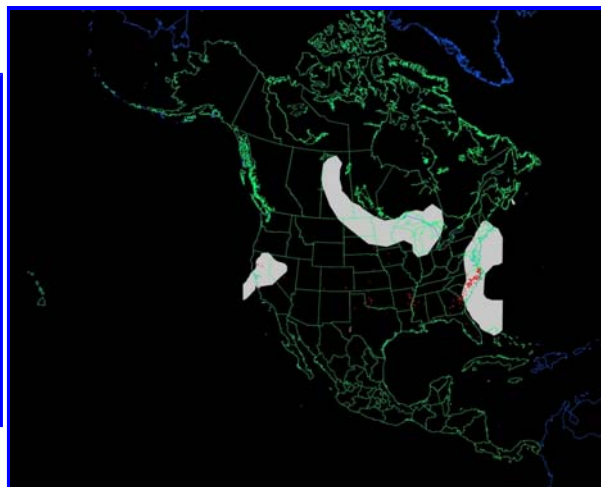
June 14, 2008

SMOKE FANNING OUT OF THE EAST COAST AND FURTHER INLAND OVER CALIFORNIA

Both today's MODIS AQUA True color image (top left) and NOAA's HMS analysis (top right) show that smoke remains over Maryland, New Jersey and Connecticut but is already fanning out over the Atlantic. The additional information provided by [MODIS AQUA's infrared channel 31](#) helps distinguish haze from clouds over the area of interest. Smoke induced strong AOD values along the east coast from Maryland to southern New Hampshire (between 0.8 and 1 at 550 nm) as observed on the MODIS AQUA AOD map (bottom left). It is unfortunately impossible to link the total load of particles on the vertical (AOD) to the particulate matter (PM) at the ground as today's EPA Airnow's PM values are not available.

Today's NOAA HMS map still shows smoke over California. This can also clearly be observed on the MODIS AQUA true color image. When comparing today's and June 12's HMS map (see June 12's post), the smoke plume seems covering a greater area further inland. According to the IDEA's GASP AOD, pressure and wind trajectories forecast (bottom right), the particles are expected to reach Nevada in the next 2 days due to southeasterly winds.

Note that the large smoke plume shown on the HMS map over Wisconsin, Minnesota and North Dakota is not clearly observed on the MODIS AQUA true color image and the area around lake Michigan does not show large [MODIS AOD values](#) (lower than 0.4 at 550 nm).



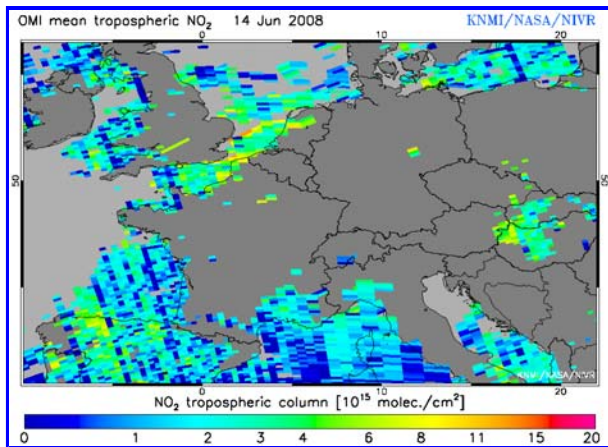
Posted by Meloe Kacenenbogen at [8:13 PM](#) | [Comments \(0\)](#) | [TrackBack](#)

INTERNATIONAL: AIR QUALITY SERVICES IN EUROPE

Since I will be moving to Malaysia next month, my new role at the Smog Blog is 'foreign correspondent.' I'll likely be covering Asia air quality most often, since it sometimes has an impact on the U.S. and I'll be located in the region.

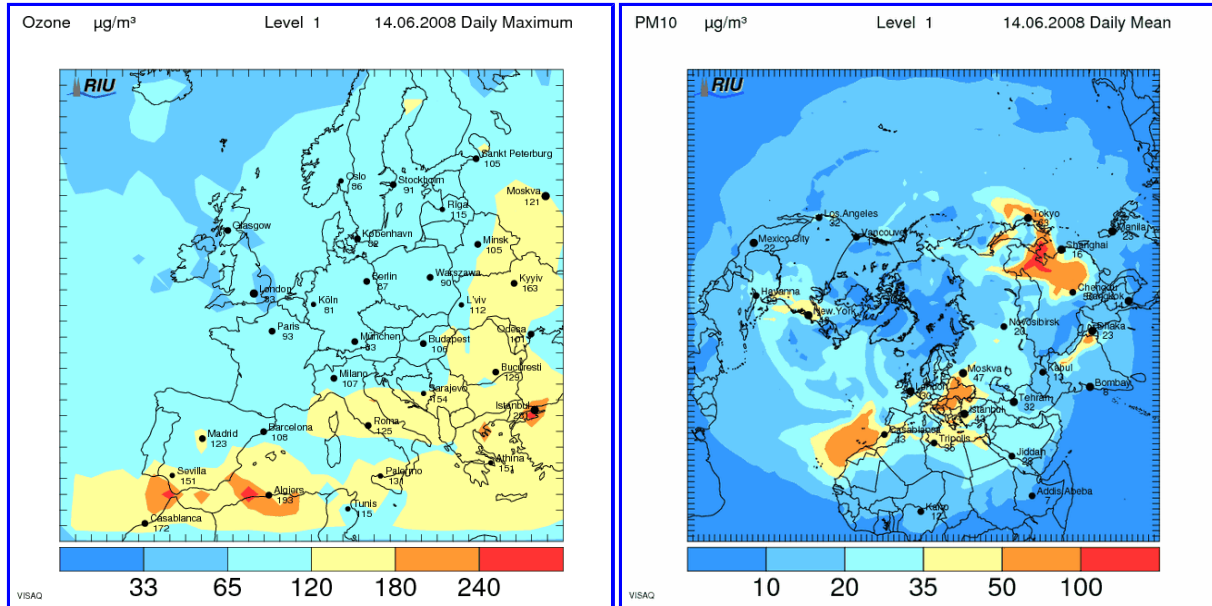
However, this week I am in Copenhagen, Denmark attending a workshop on air quality services in Europe. Specifically, an end users workshop as part of a [European Space Agency](#)-sponsored project called [PROtocol MOniToring for the GMES Service Element: Atmosphere](#). PROMOTE is part of ESA's focus on applications of ESA satellite data and tools to atmospheric issues, including air quality, UV exposure, climate change, ozone layer, and aviation.

One interesting fact I learned is that Europe is focused on ozone and particulate matter like the U.S., but also NO₂, especially as it affects urban areas. Europe has over 2,000 NO₂ ground-based monitors. Below is the NO₂ product from the OMI satellite sensor, as developed by KNMI (image from the PROMOTE portal but the original source is [TEMIS](#)).

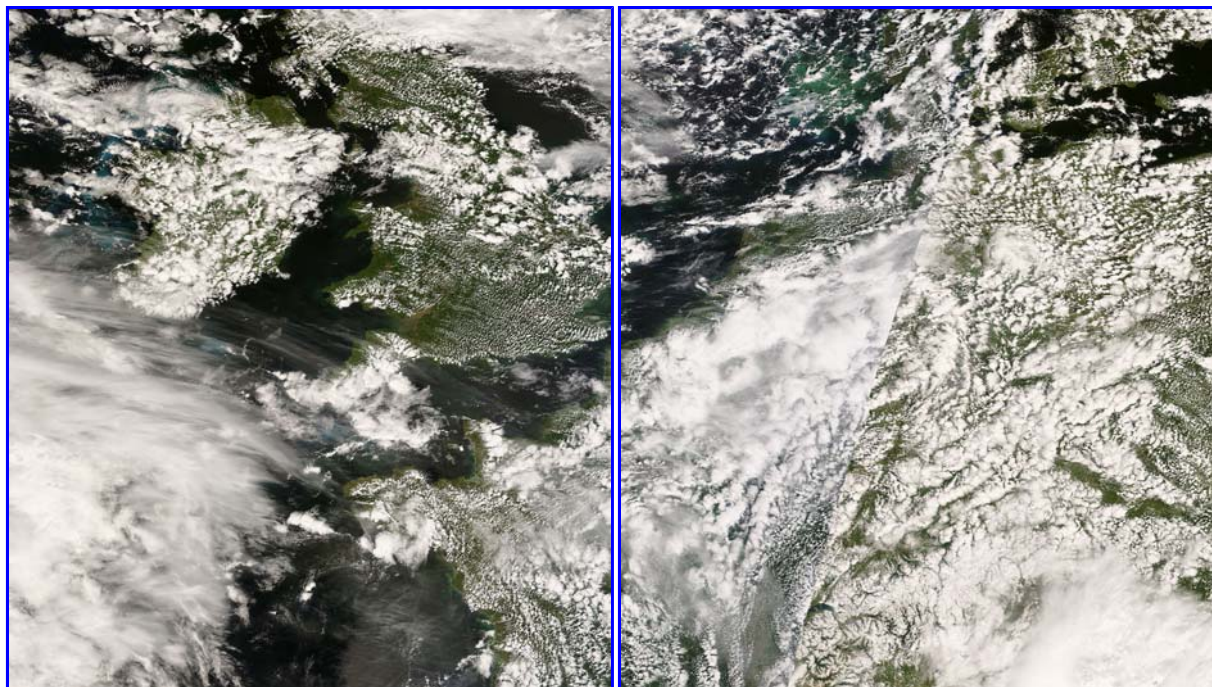


There are several sites to get European ground-based air quality information. For example, the workshop I attended was held at the European Environment Agency who produces a near real-time [map of ozone pollution across Europe](#). The [Air Quality Now](#) site has air quality values for select cities. There is even a site ([airTEXT](#)) that forecasts street level pollutant concentrations in London and provides SMS instant messages when the forecasts will be high. I think the biggest challenge in Europe for reporting on air quality is that monitoring is extensive and sophisticated but communication is decentralized and not consistent between member states of the European Union.

Another site of note is the [EURAD Project](#) at the Rhenish Institute for Environmental Research. They forecast ozone, NO2, PM10, SO2, CO, and benzene. Below left is their ozone forecast for Europe today. But what I really like is the perspective of their northern hemisphere forecasts, which include the U.S., Asia, and Europe. On the right is their northern hemisphere forecast for daily mean PM10 today.

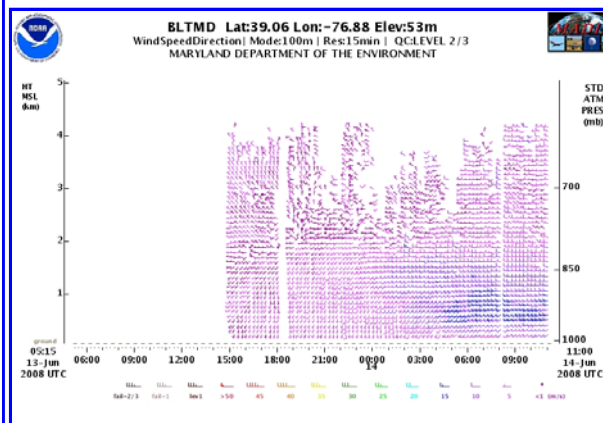
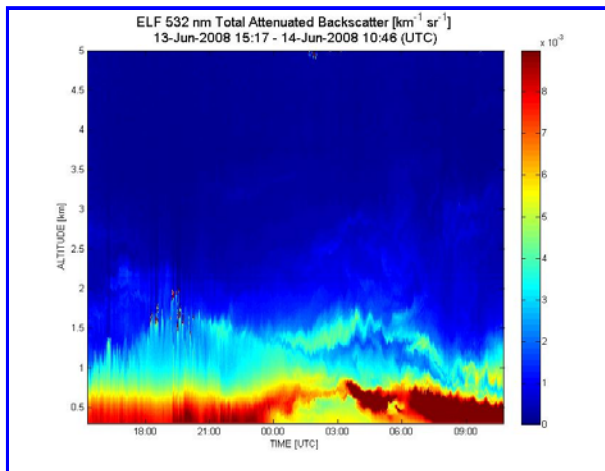


For the future, ESA is planning the [GMES Sentinel](#) satellites, that will be launched not for research but specifically for applications to issues on Earth. [Sentinels 4 and 5](#) will be for atmospheric applications. In the meantime, here's how northern Europe looks from MODIS today. I hope we may partner more closely with our European air quality and Earth observing satellite colleagues in the future.



Posted by Jill Engel-Cox at [1:07 PM](#) | [Comments \(0\)](#) | [TrackBack](#)

FRIDAY 13TH: ELF PROWLS LOW LEVEL JETS



Today's observations kickoff our hunt (monitoring) of summer low level jets. These observations support the joint efforts of UMBC's Atmospheric Lidar Group and Maryland Department of the Environment (MDE) Air Quality Planning and Monitoring Program on educating the general public about local sources and long range transport of pollutants that affect the state of Maryland. The HYSPLIT backtrajectories shown by Ana on the previous post show that the airmasses are coming from North Carolina. Transport of smoke from North California was enhanced by the formation of a low level jet. This low level jet (LLJ) is characterized by wind speeds greater than 10m/s within the first 1.5 km of the troposphere and the air parcel that can travel >300 km up the eastern seaboard overnight to mix with the local air under the jet ensuing vertical mixing during the daytime.

The lidar timeseries (left figure) shows that after 0:00 UTC the boundary layer was inhomogeneous with stratification. Enhanced turbulent inhomogeneities observed in the residual layer are the result of LLJ activity in the boundary layer. The presence of the LLJ was also confirmed by the MDE Wind Profiler, located in Beltsville, MD (right figure). Wind speeds and direction at Beltsville were ~15 m/s SSW. Maximum wind speeds match in time with the increase of aerosol near surface observed by ELF. As soon as quality controlled wind profiler data is available we will assess the

aerosol distribution within the nose/core of LLJ and transport. To be continued...

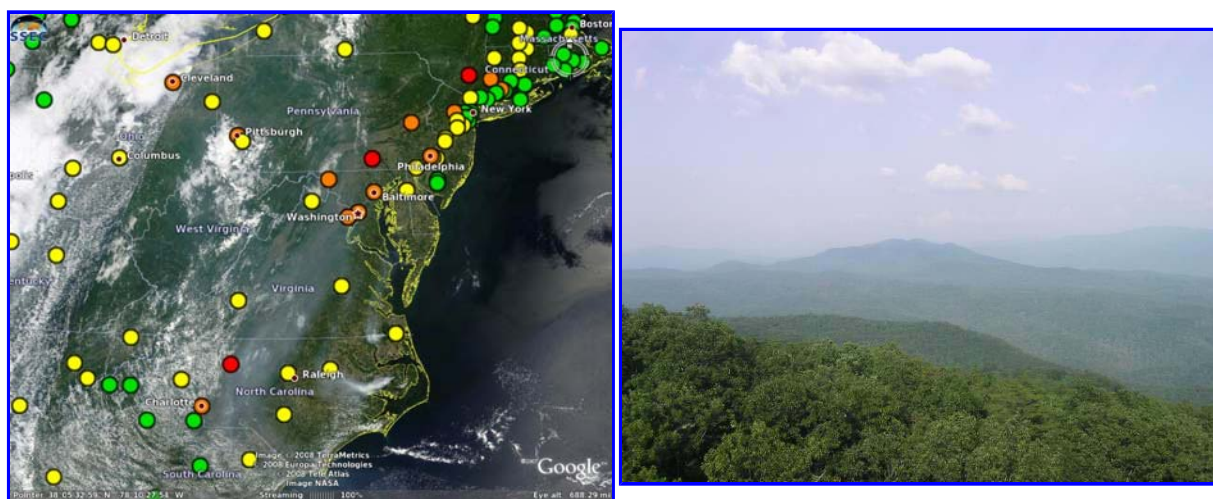
Posted by Ruben Delgado at [2:46 AM](#) | [Comments \(0\)](#) | [TrackBack](#)

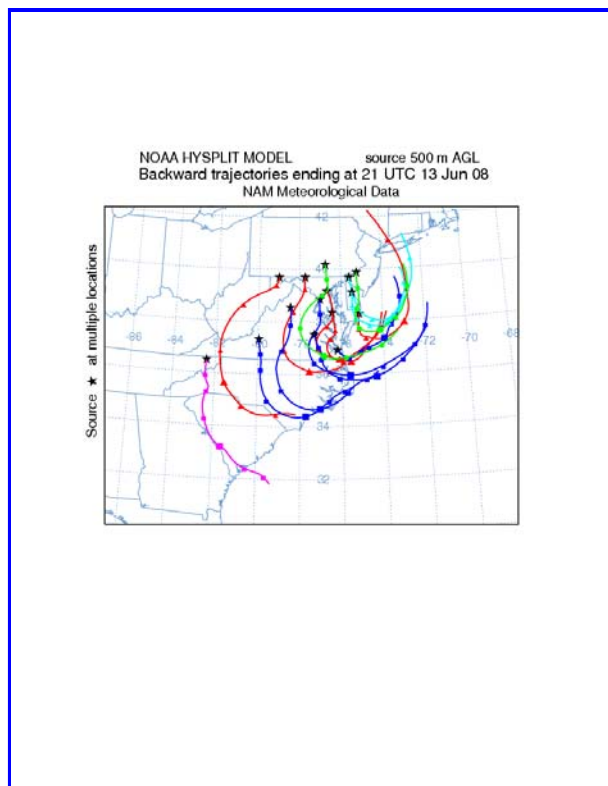
June 13, 2008

SMOKE RETURNS TO THE D.C AREA, HIGH OZONE IN CALIFORNIA, PENNSYLVANIA AND NEW YORK

Complicated air quality picture today. The main story again is the North Carolina fire smoke, which as Meloe reported yesterday has been making its way south over the ocean and also further inland. It appears the circulation around the high pressure system over the mid-Atlantic pulled the smoke that was off the north Carolina shore a couple days ago, south, and then west into central North Carolina, and then today north, into western and central Virginia. This is best seen in the [GASP AOD loop](#), and also in the NOAA Hysplitt model backtrajectories shown at the bottom, with trajectories ending at 21 Z today at 500 m. The band of smoke is clearly visible from the Terra overpass over North Carolina and Virginia, and reached the Washington D.C region today (left, UW MODIS Terra and EPA AIRNow AQI). Another thinner band of smoke can be seen in the Terra RGB over eastern Virginia from a fire in the VA/NC border over the Newport News/Norfolk region and the Chesapeake bay. The spread of this plume is also consistent with the backtrajectories over eastern Virginia shown below. All this smoke is leading to moderate to unhealthy air quality in central North Carolina and possibly also in Virginia. In Winston-Salem, NC the air quality reached code red. The image to the right shows the NPS webcam photo from Look Rock, eastern Tennessee in the Great Smoky Mountains National Park and haze to the east where the camera is pointing.

Meanwhile..... further north, ozone was the lead AQI at many locations in eastern Pennsylvania, New Jersey and New York, with a couple monitors reaching the code red range. Ozone was also the lead AQI in central California which reached the unhealthy (orange) range. Click here for the separate [PM2.5](#) and [Ozone](#) AQI maps. In western Pennsylvania and eastern Ohio though PM2.5 was the lead AQI. Check this weekend's blog for continued coverage

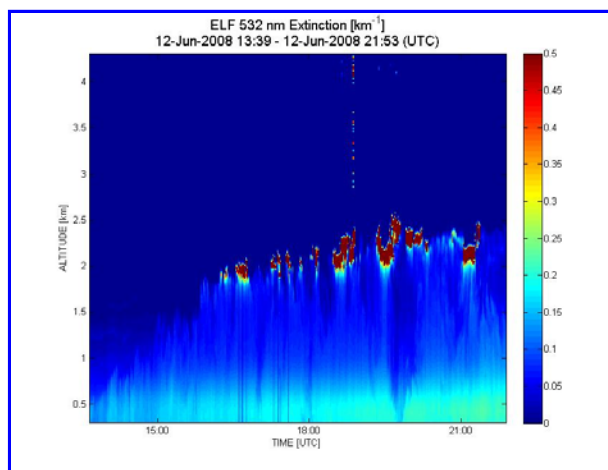




Posted by Ana Prados at [7:30 PM](#) | [Comments \(2\)](#) | [TrackBack](#)

June 12, 2008

CALIPSO AND HAZY SKIES



Hazy skies prevailed during today's observations. The colorbar was increased for today's observations. A cloud capped boundary layer is featured in today's observations, as well as the rise of the boundary layer (up to 2.3 km). Calipso overpassed 22 km east of UMBC at 18:21 UTC.

Posted by Ruben Delgado at [10:26 PM](#) | [Comments \(0\)](#) | [TrackBack](#)

STILL SMOKE OVER NORTH CAROLINA, CALIFORNIA AND "MODERATE" AIR QUALITY IN THE EASTERN PART OF THE US

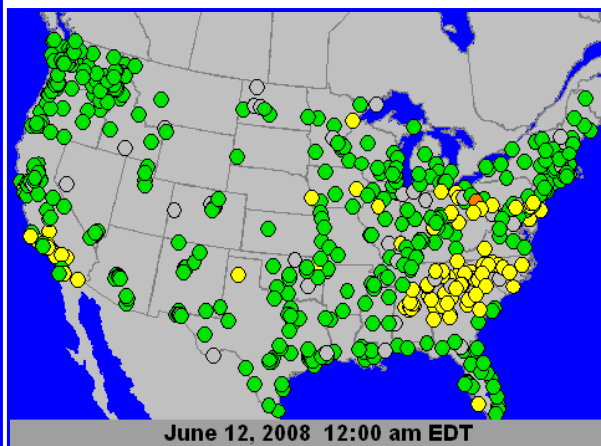
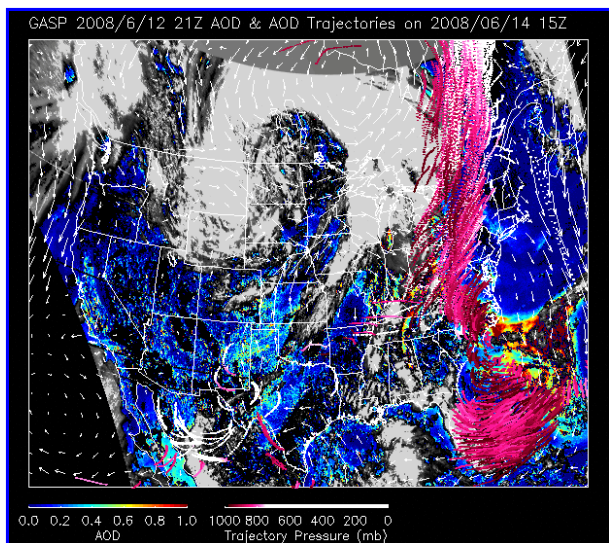
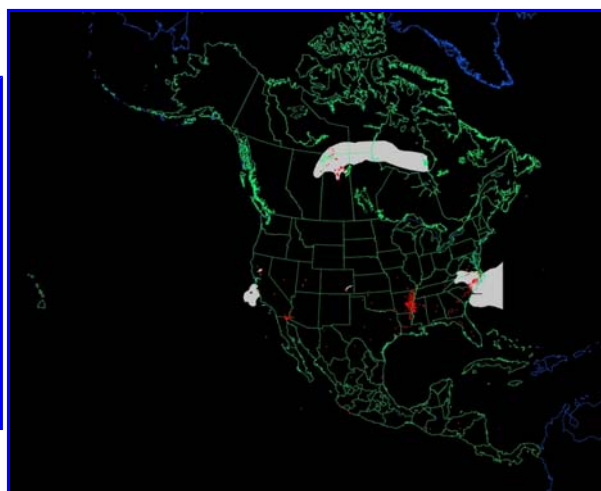
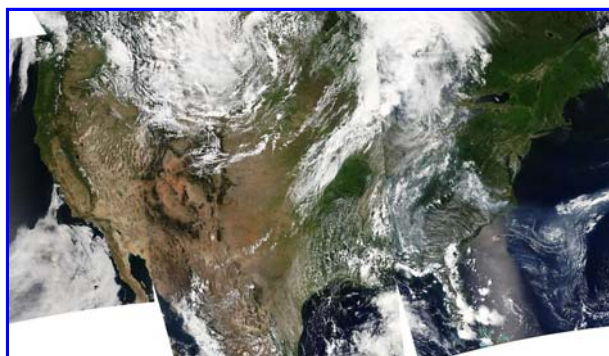
Although the plume seems less intense compared to yesterday, today's MODIS Aqua RGB (top left) shows there is still some haze over North Carolina, southeastern VA, and the Atlantic (*) due to transported fire smoke. According to the [MODIS Active Fire Mapping Program](#), the burnt area in Hyde County is already assessed to be of about 39,779 Acres due to lightning. It also says the fire has not yet been contained.

When comparing today and yesterday's MODIS AQUA RGB, it seems the plume has drifted further south above the Atlantic. This can also be observed when comparing both yesterday and today's NOAA HMS analysis (top right). In addition of being further south, today's NOAA HMS analysis shows the smoke plume has traveled deeper into land (now mostly over NC and further in VA). This could be explained by the east southerly winds close to the ground shown on the GASP AOD and wind trajectory map (bottom left).

Today's NOAA HMS analysis also shows that fire activity continues in California. According to the MODIS Active Fire Mapping Program, evacuations and road closures are in effect for several California communities.

Today's EPA AIRNow's particulate matter levels (bottom right, PM2.5) show "moderate" to "unhealthy" conditions in southern California and NC, specially at 5:00 PM. Air quality was also "moderate" over a large part of the eastern united states (Wisconsin, Illinois, Indiana, Michigan, Ohio...).

() Please don't confuse the sunglint with haze!*



Posted by Meloe Kacenenbogen at [5:47 PM](#) | [Comments \(2\)](#) | [TrackBack](#)