

**Back Trajectory Analysis Prepared by the Kentucky Division for Air Quality**

**For the Posey County, Indiana Ozone Monitor**

**Using NOAA's HYSPLIT Trajectory Model**

**Posey County, Indiana Ozone Monitor (Site ID - 18-129-0003)**  
**2000 8-Hour Average Top Four Maximum Values**

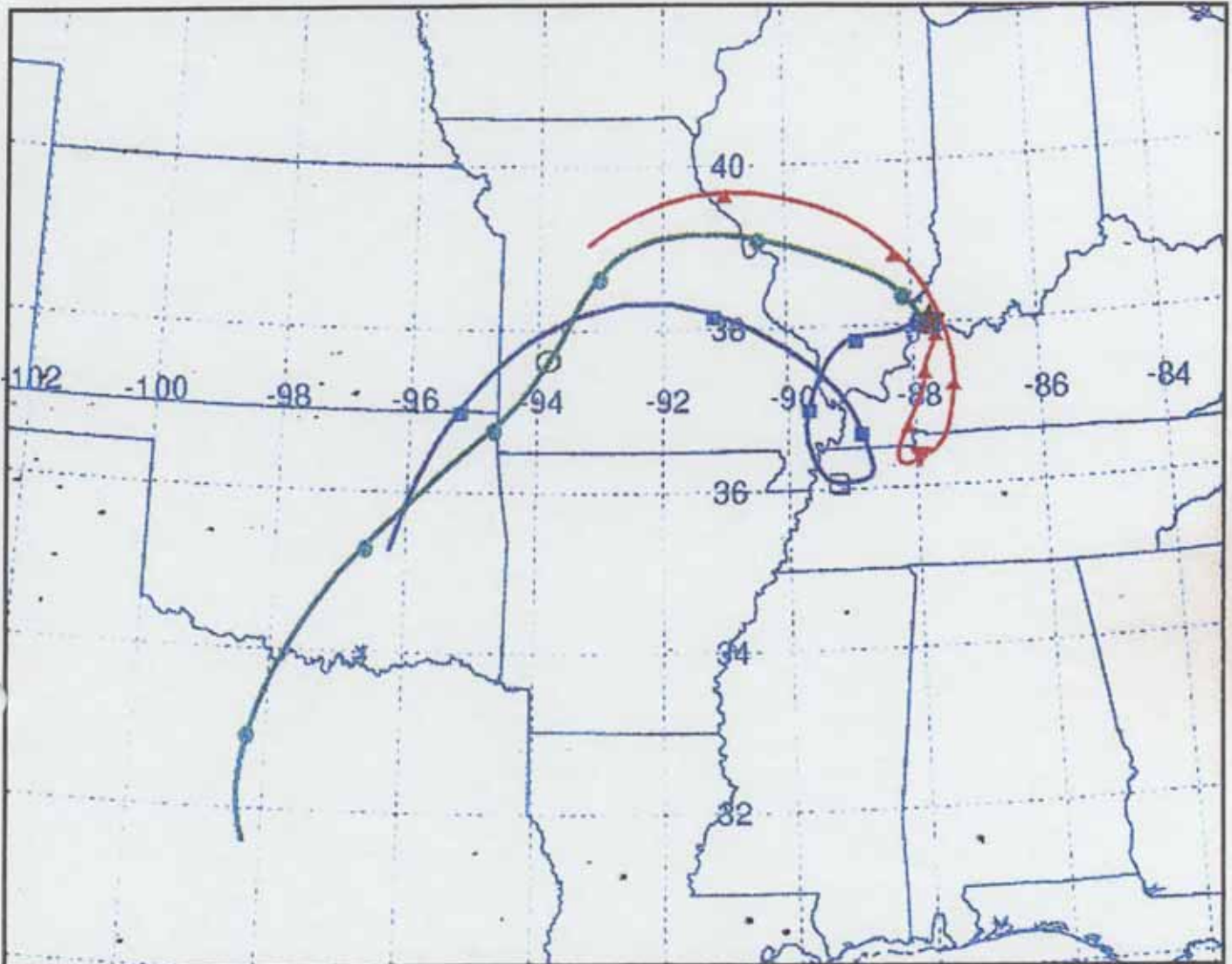
<b>Date</b>	<b>Start Hour (CST)</b>	<b>8-Hour Reading (PPM)</b>	
08/29/2000	11	.093	
07/09/2000	11	.086	
07/27/2000	10	.086	
06/08/2000	10	.085	(4 <sup>th</sup> Max)
08/17/2000	11	.085	(4 <sup>th</sup> Max)

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

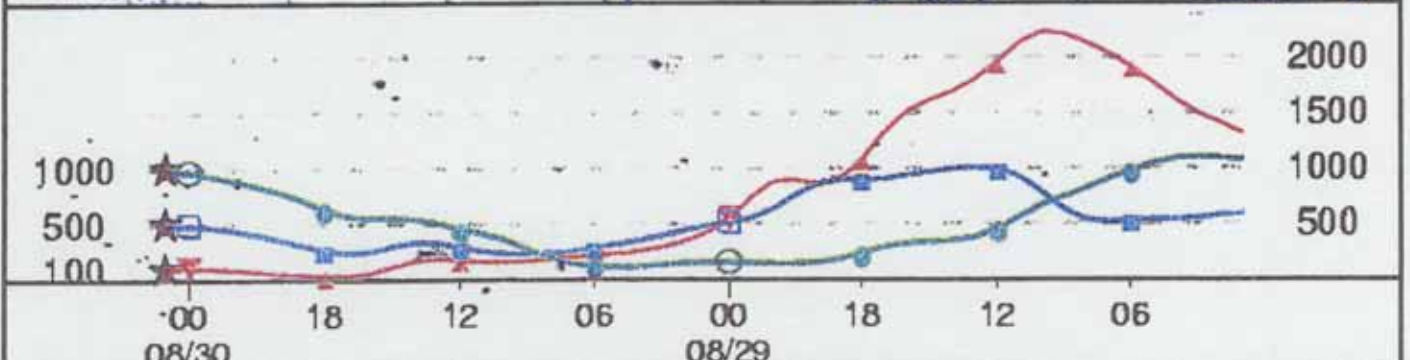
## Backward trajectories ending at 01 UTC 30 Aug '00

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Meters AGL



Job ID: 3110    Job Start: Tue Apr 8 15:14:18 GMT 2003  
 lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

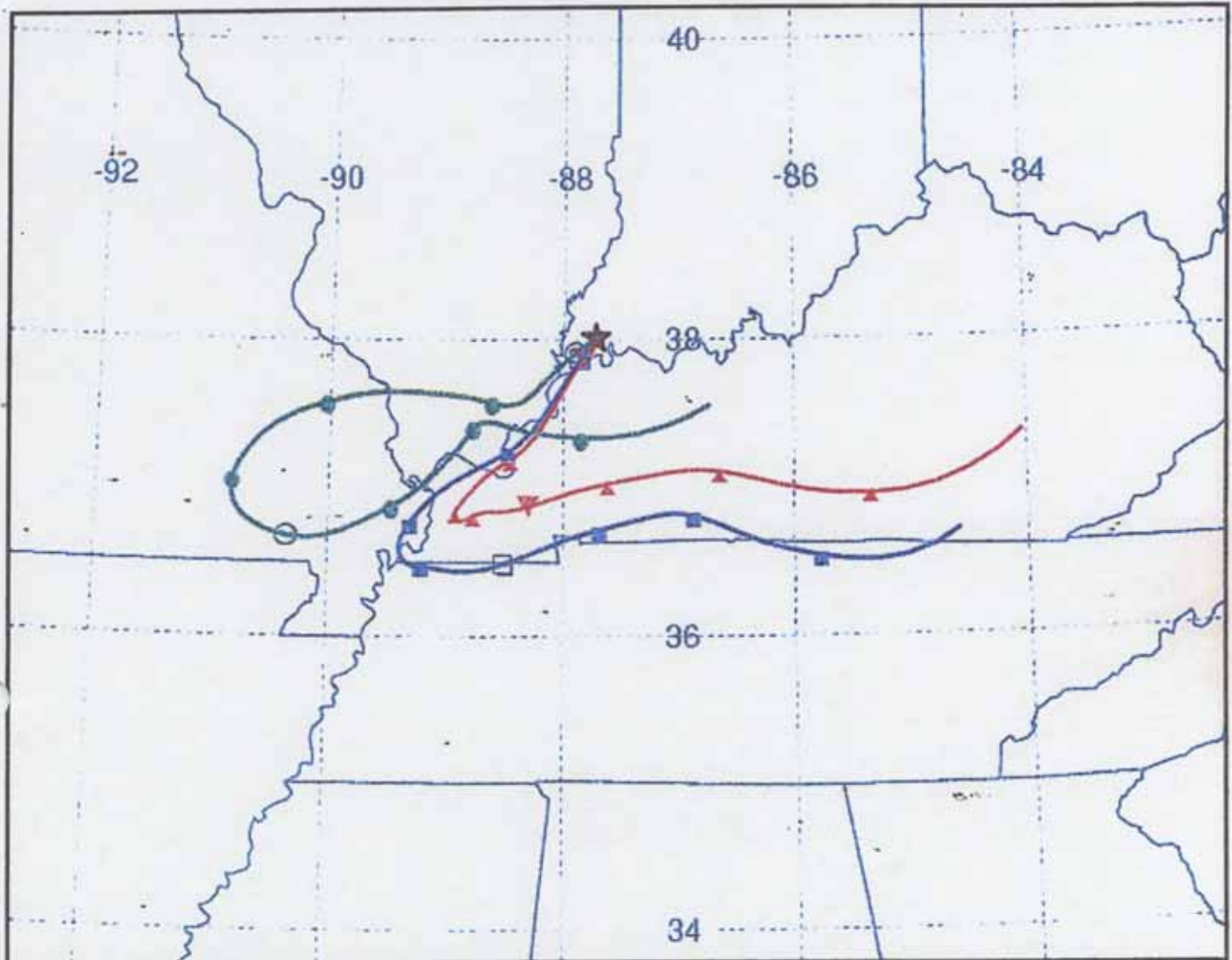
Trajectory Direction: Backward    Duration: 48 hrs  
 Vertical Motion Calculation Method: Model Vertical Velocity  
 Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

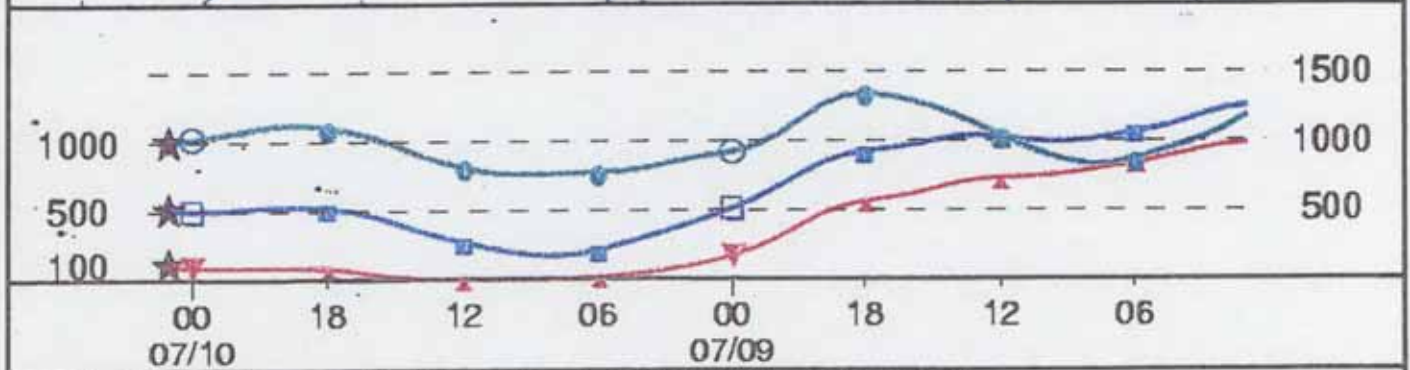
## Backward trajectories ending at 01 UTC 10 Jul 00

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Meters AGL



Job ID: 3256 Job Start: Tue Apr 8 15:24:13 GMT 2003  
lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

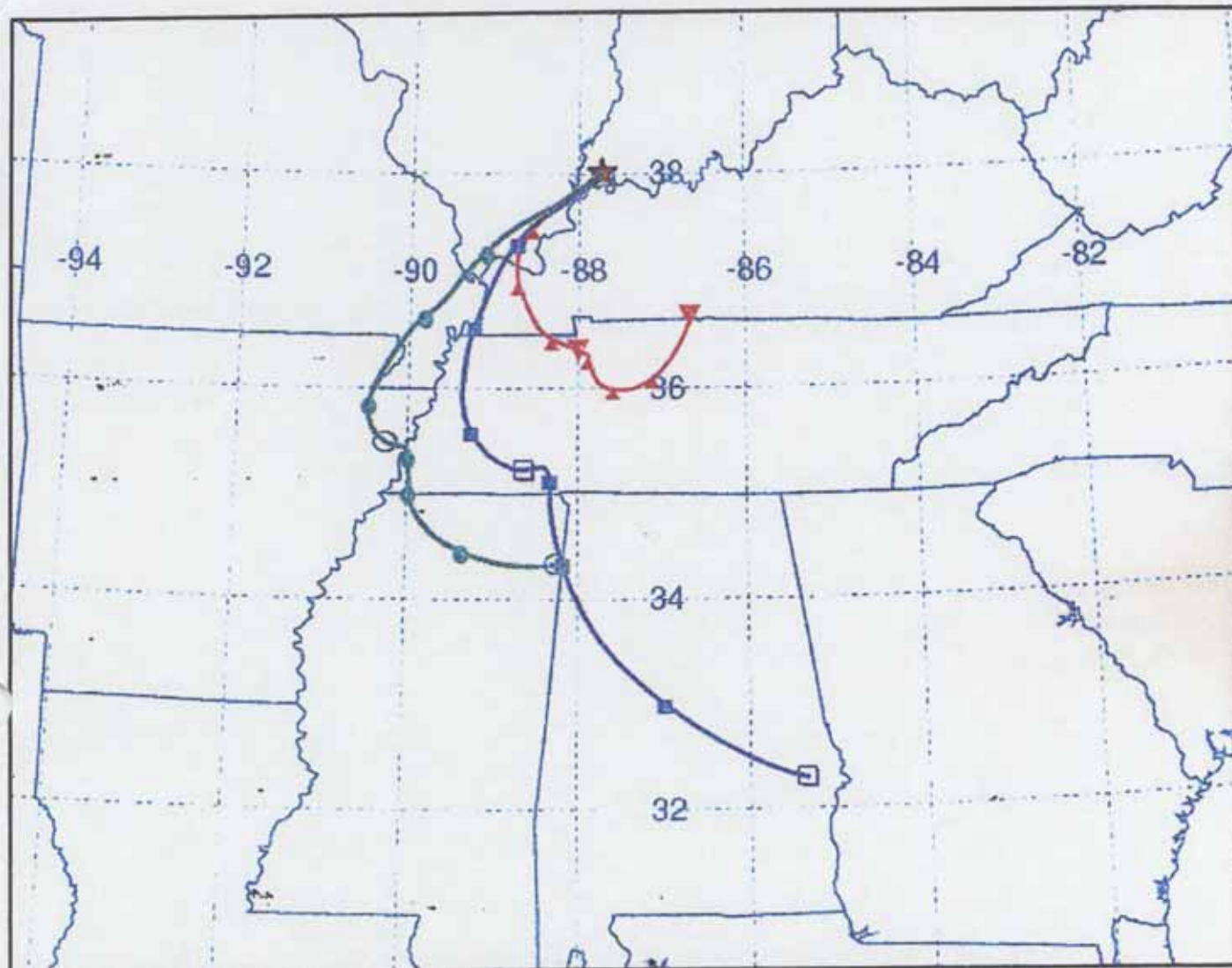
Trajectory Direction: Backward Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

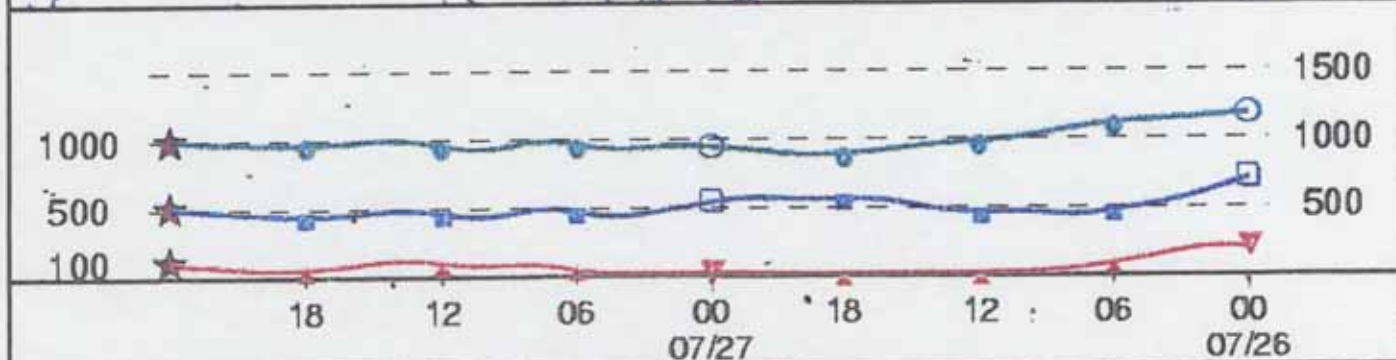
## Backward trajectories ending at 00 UTC 28 Jul 00

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Meters AGL



Job ID: 3417 Job Start: Tue Apr 8 15:34:09 GMT 2003  
lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

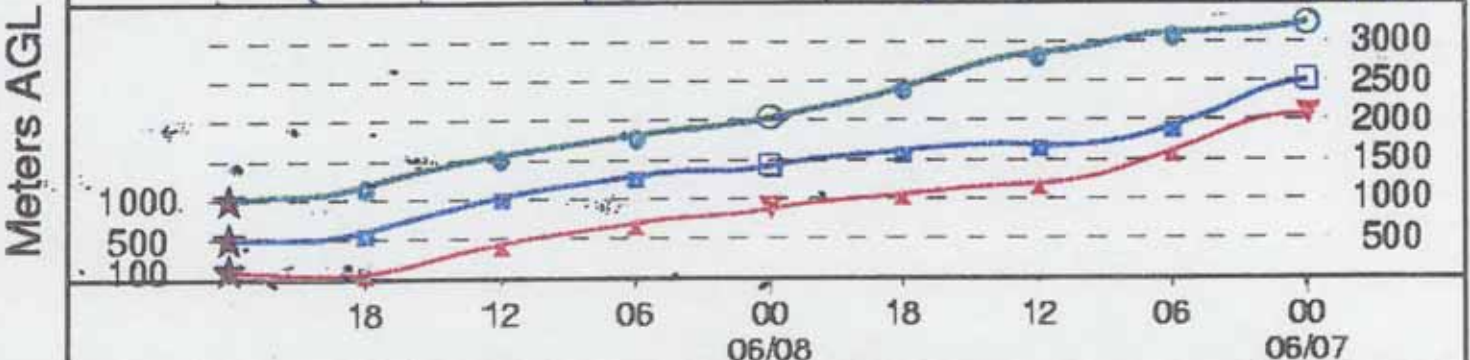
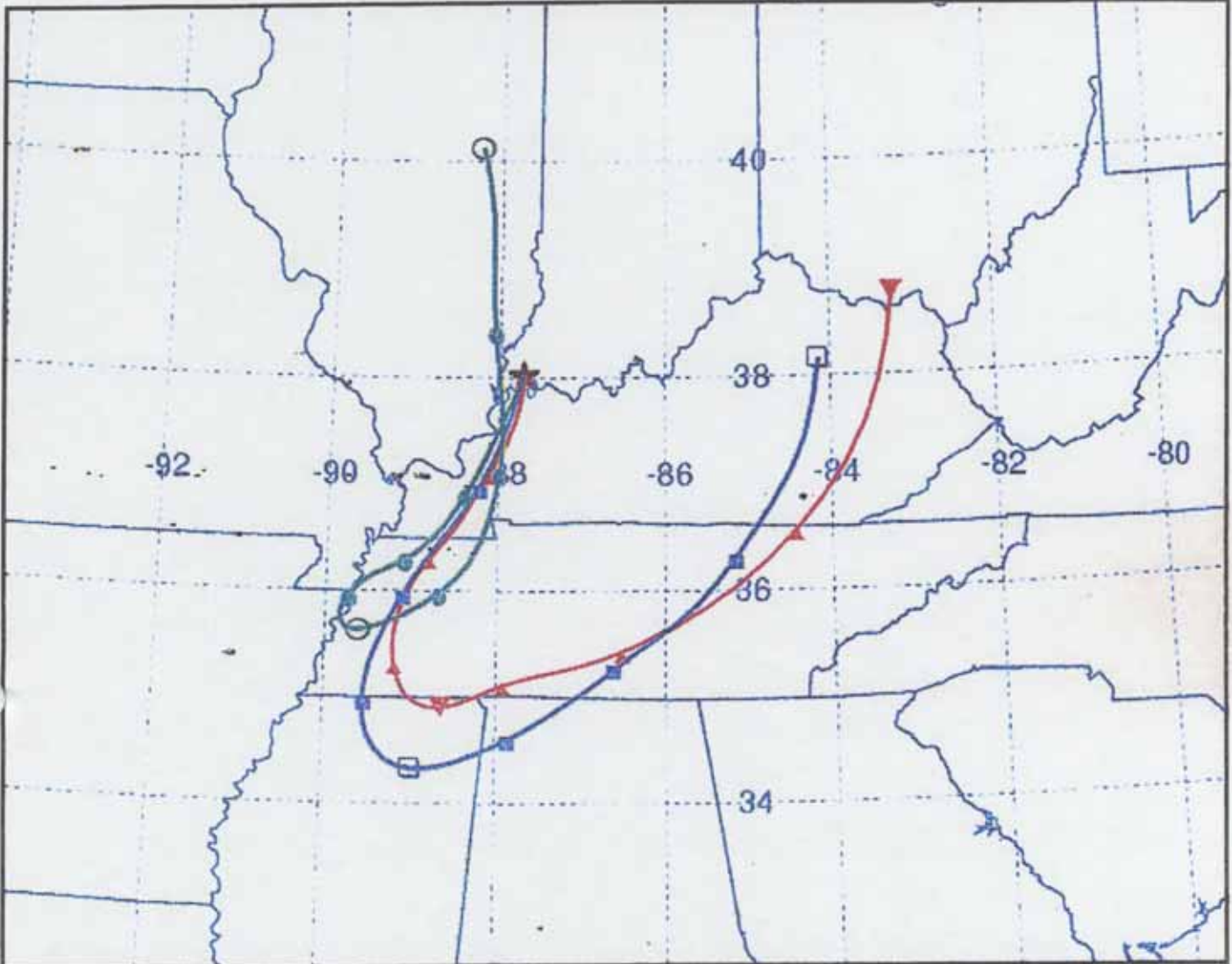
Trajectory Direction: Backward Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 00 UTC 09 Jun 00

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 3711 Job Start: Tue Apr 8 15:46:34 GMT 2003  
lat.: 38.01 lon.: -87.72 hgts: 100, 500, 1000 m AGL

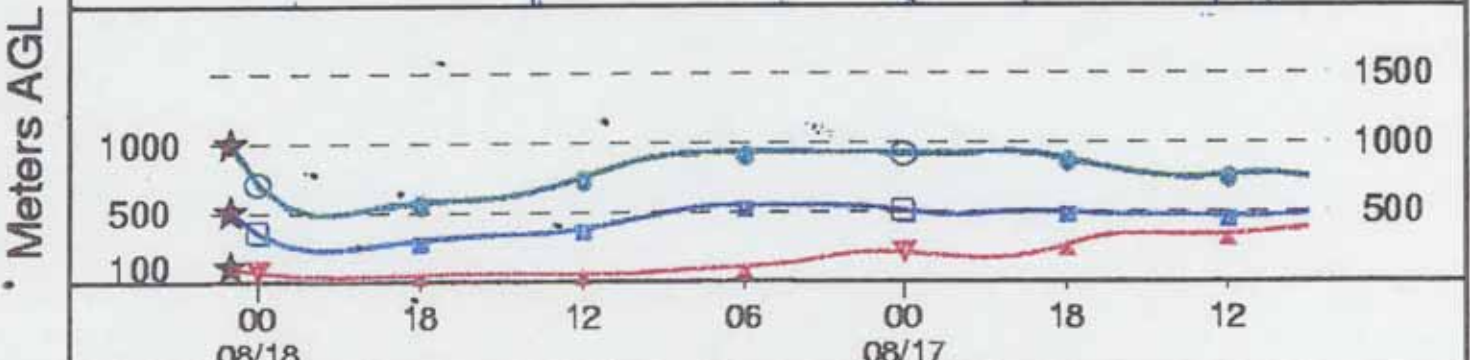
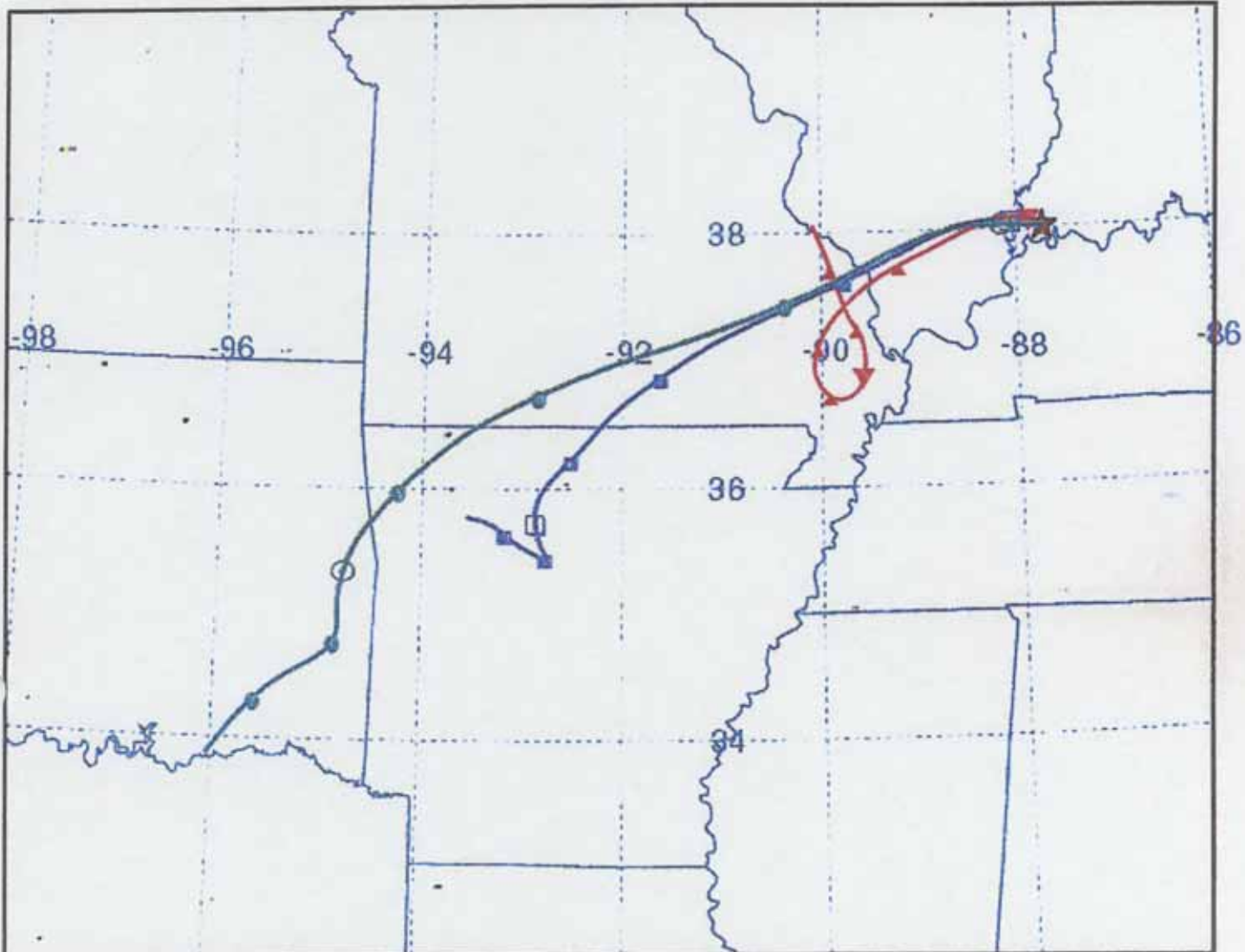
Trajectory Direction: Backward Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 01 UTC 18 Aug 00

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 3890      Job Start: Tue Apr 8 15:52:37 GMT 2003  
lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

Trajectory Direction: Backward      Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

**Posey County, Indiana Ozone Monitor (Site ID - 18-129-0003)  
2001 8-Hour Average Top Four Maximum Values**

<b>Date</b>	<b>Start Hour (CST)</b>	<b>8-Hour Reading (PPM)</b>
06/18/2001	11	.080
06/19/2001	09	.080
05/10/2001	10	.079
06/12/2001	09	.079 (4 <sup>th</sup> Max)



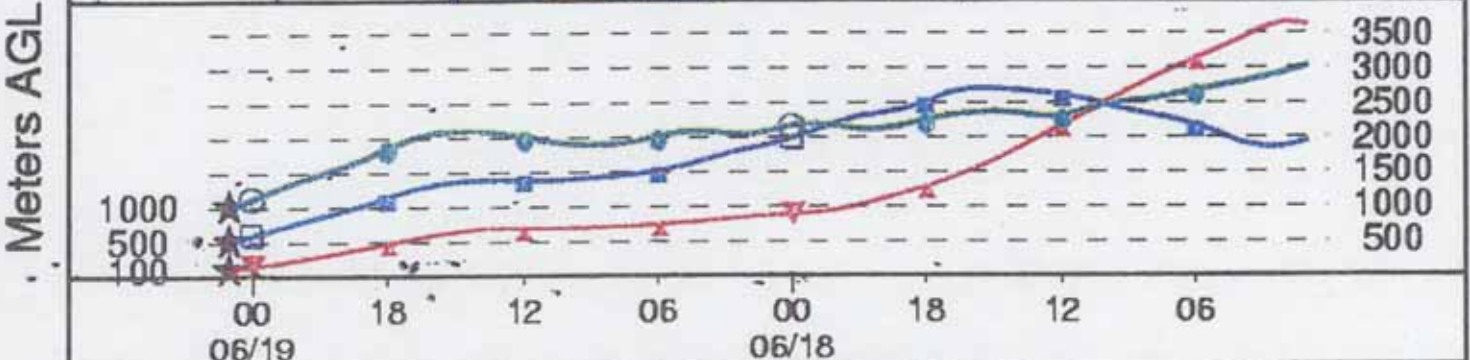
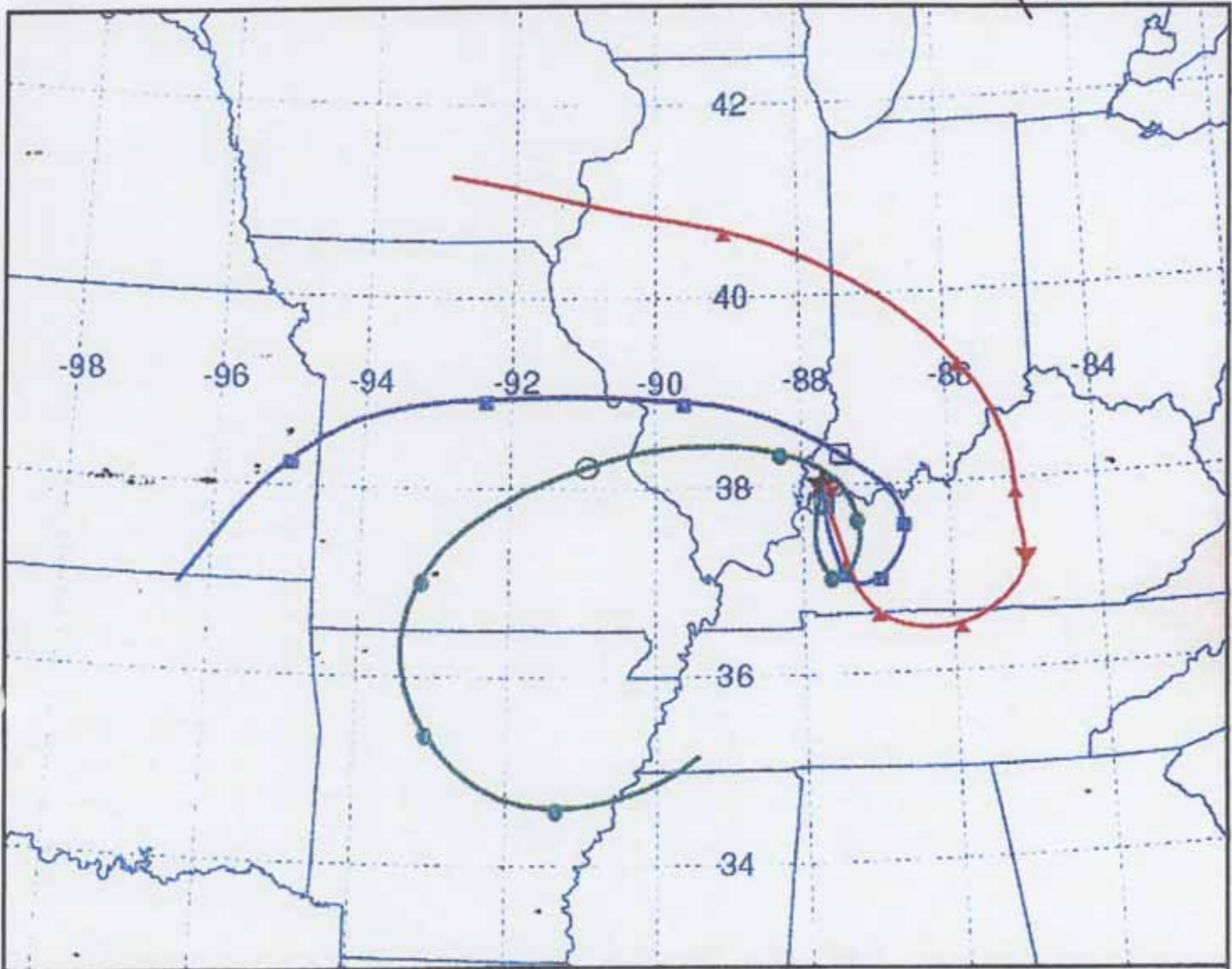
# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 01 UTC 19 Jun 01

### EDAS Meteorological Data

*Handwritten initials*

Source ★ at 38.01 N 87.72 W

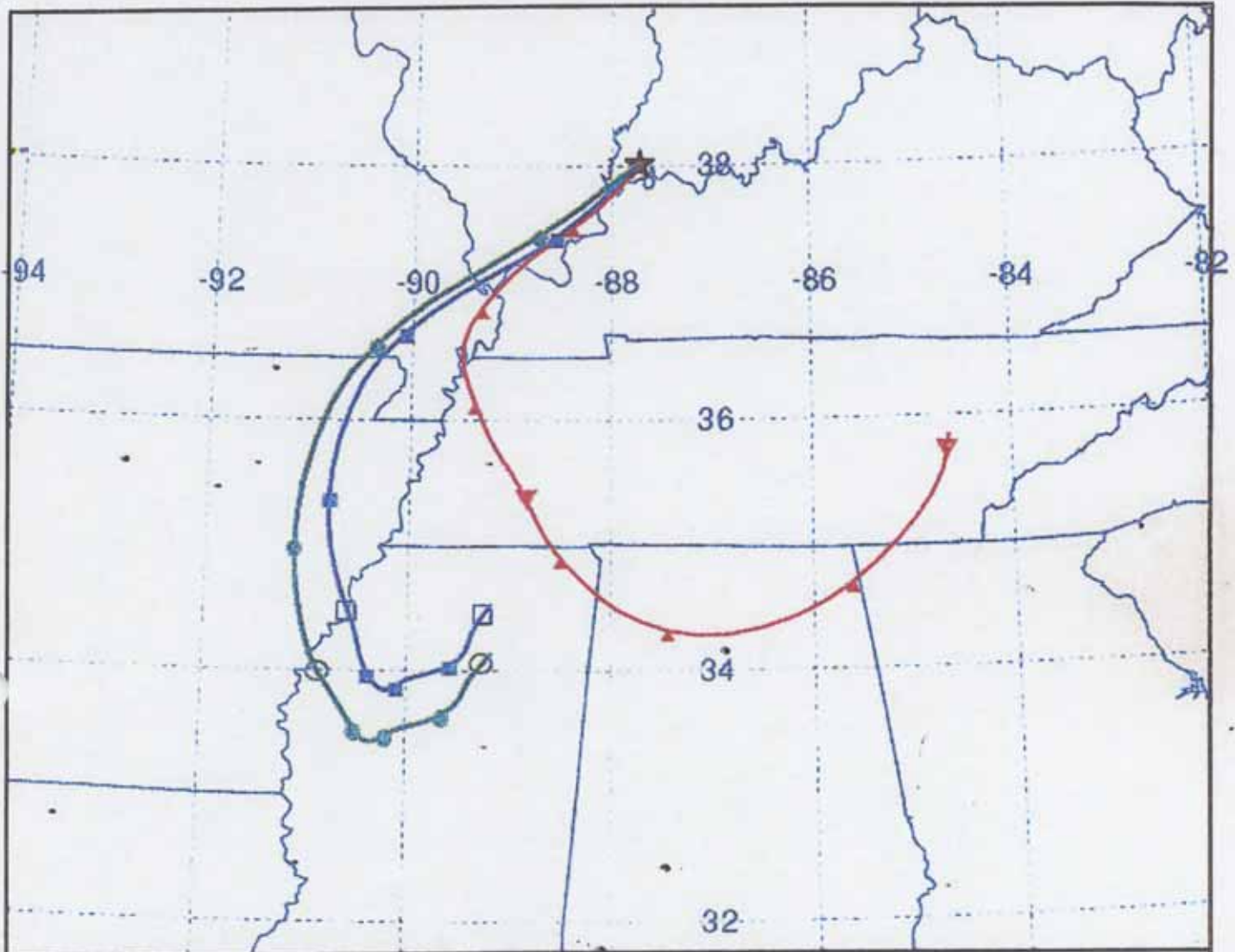


Job ID: 32492    Job Start: Tue Apr 8 17:13:08 GMT 2003  
 lat.: 38.01   lon.: -87.72   hghts: 100, 500, 1000 m AGL

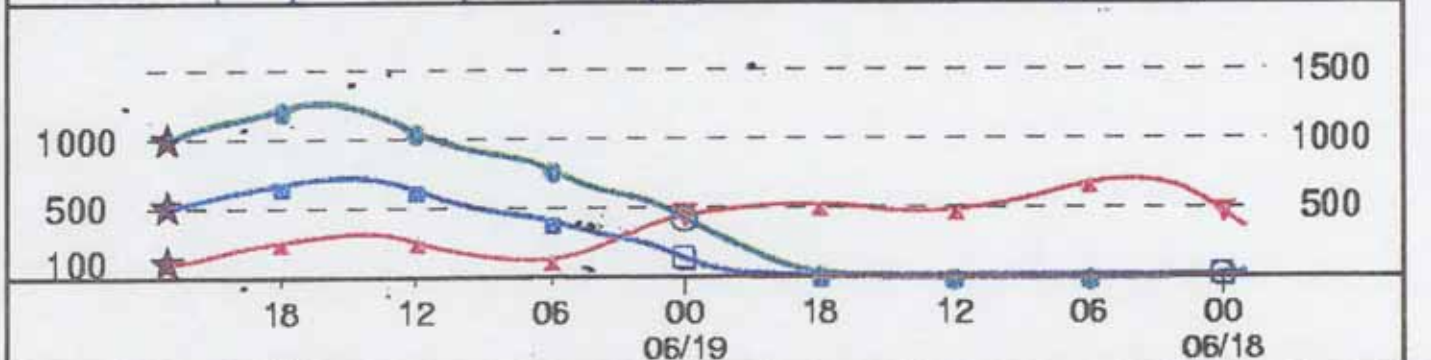
Trajectory Direction: Backward    Duration: 48 hrs  
 Vertical Motion Calculation Method: Model Vertical Velocity  
 Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION Backward trajectories ending at 23 UTC 19 Jun 01 EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Meters AGL



Job ID: 348545      Job Start: Wed Apr 2 16:47:51 GMT 2003  
lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

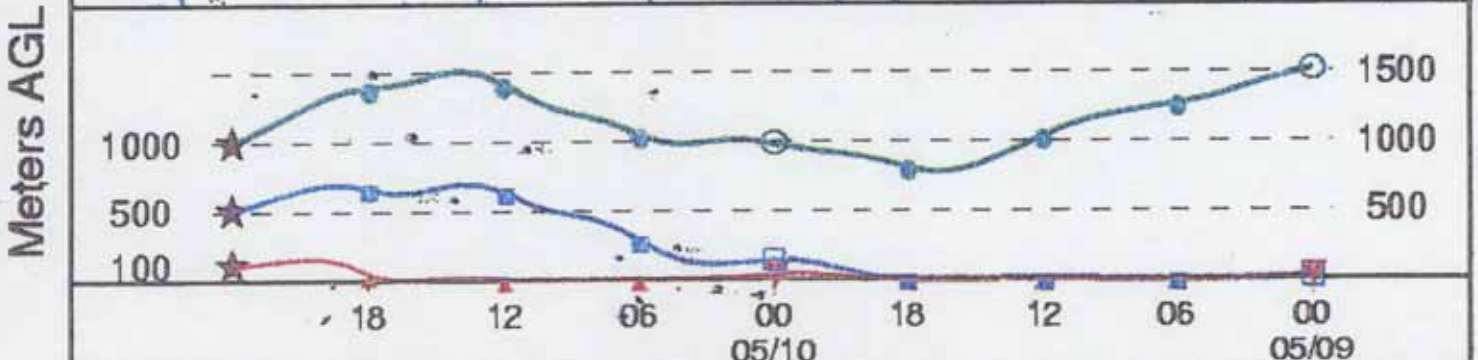
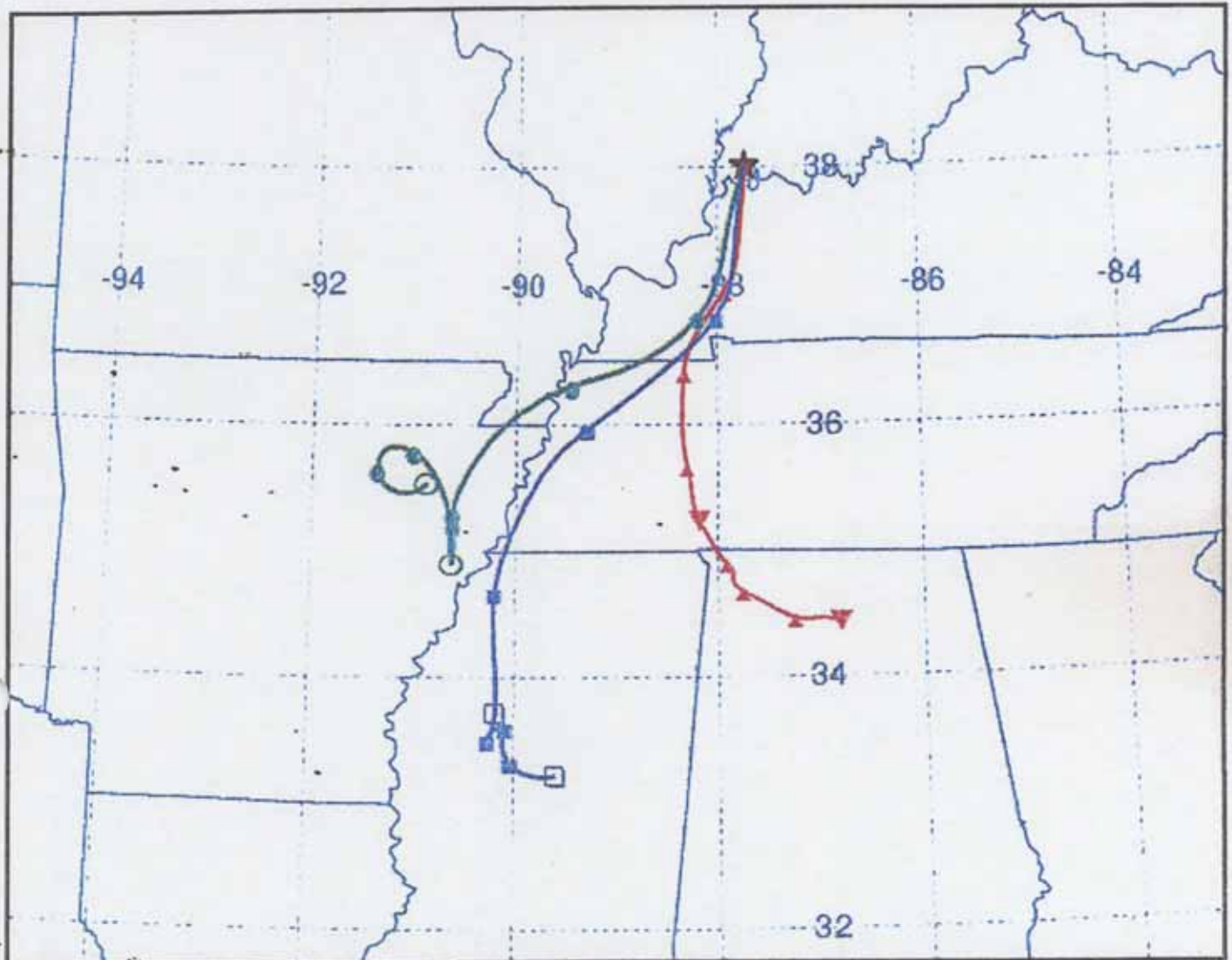
Trajectory Direction: Backward      Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 00 UTC 11 May 01

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 32541    Job Start: Tue Apr 8 17:20:40 GMT 2003  
 lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

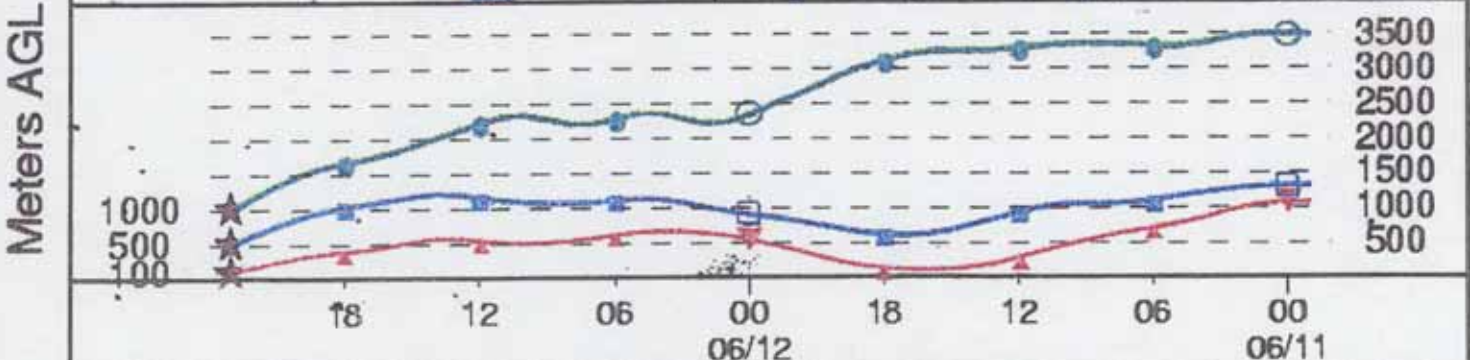
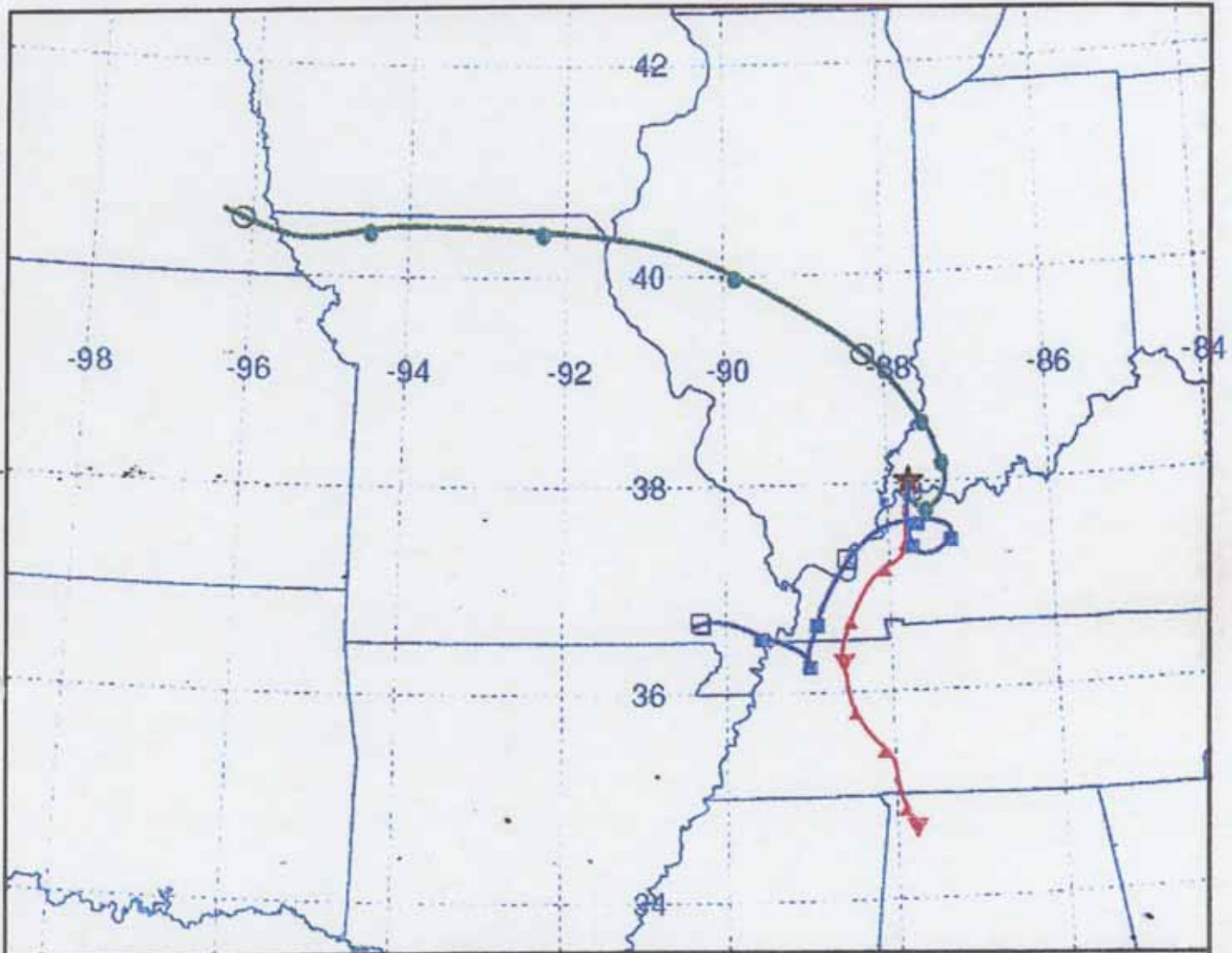
Trajectory Direction: Backward    Duration: 48 hrs  
 Vertical Motion Calculation Method: Model Vertical Velocity  
 Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 23 UTC 12 Jun 01

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 348384      Job Start: Wed Apr 2 16:36:21 GMT 2003  
 lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

Trajectory Direction: Backward      Duration: 48 hrs  
 Vertical Motion Calculation Method: Model Vertical Velocity  
 Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

**Posey County, Indiana Ozone Monitor (Site ID - 18-129-0003)**  
**2002 8-Hour Average Top Four Maximum Values**

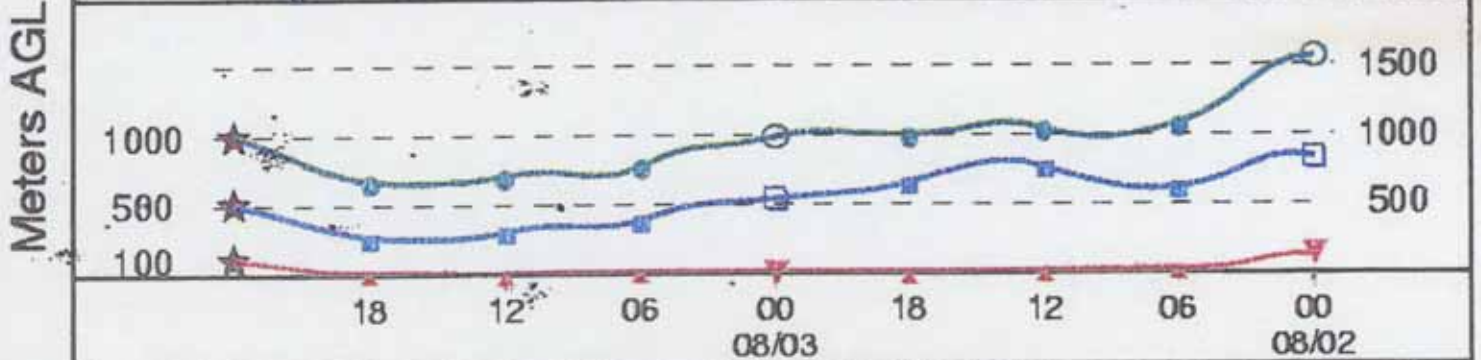
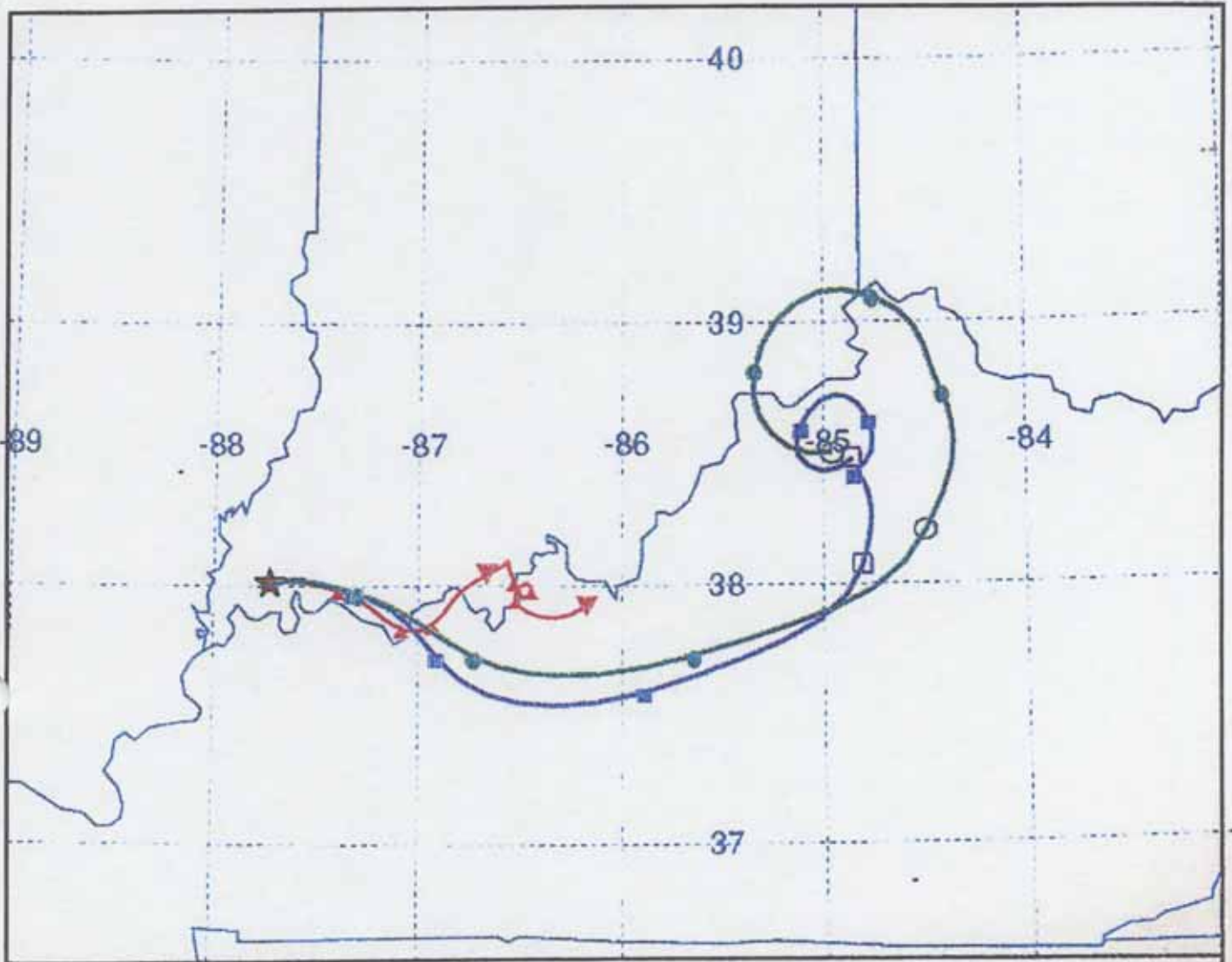
<b>Date</b>	<b>Start Hour (CST)</b>	<b>8-Hour Reading (PPM)</b>
08/03/2002	10	.106
08/09/2002	11	.099
09/08/2002	10	.098
06/20/2002	10	.097 (4 <sup>th</sup> Max)
09/06/2002	10	.097 (4 <sup>th</sup> Max)

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 00 UTC 04 Aug 02

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 32598 Job Start: Tue Apr 8 17:26:30 GMT 2003  
lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

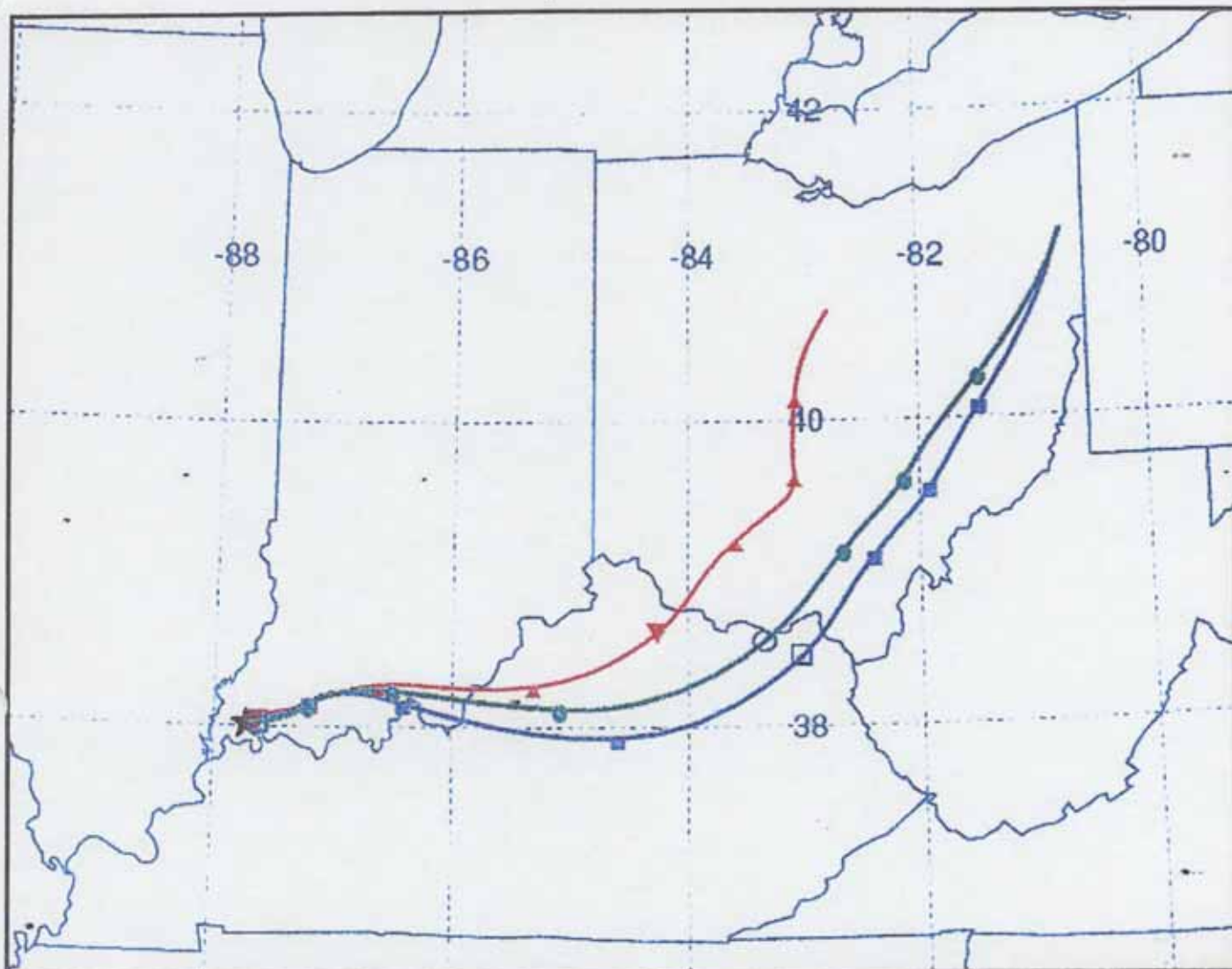
Trajectory Direction: Backward Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

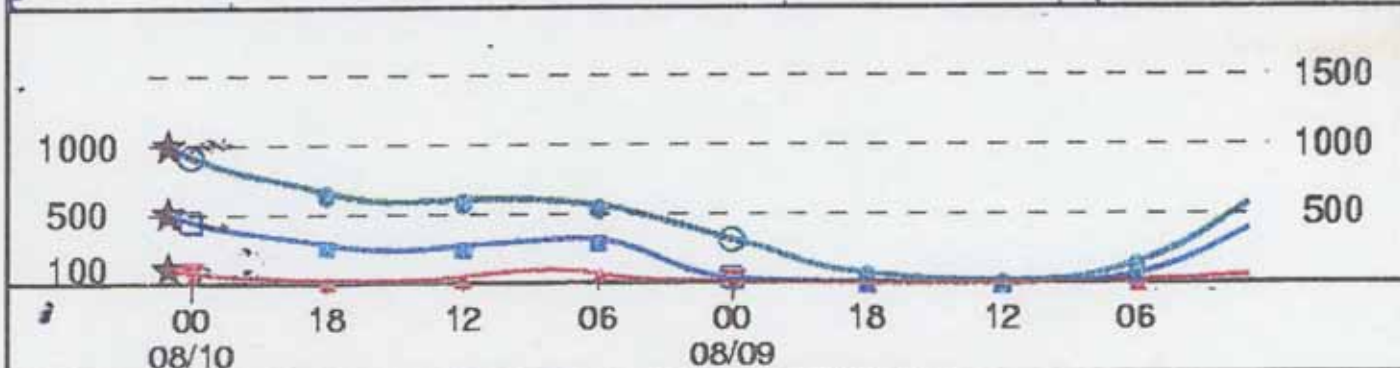
## Backward trajectories ending at 01 UTC 10 Aug 02

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Meters AGL



Job ID: 32653      Job Start: Tue Apr 8 17:30:33 GMT 2003  
 lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

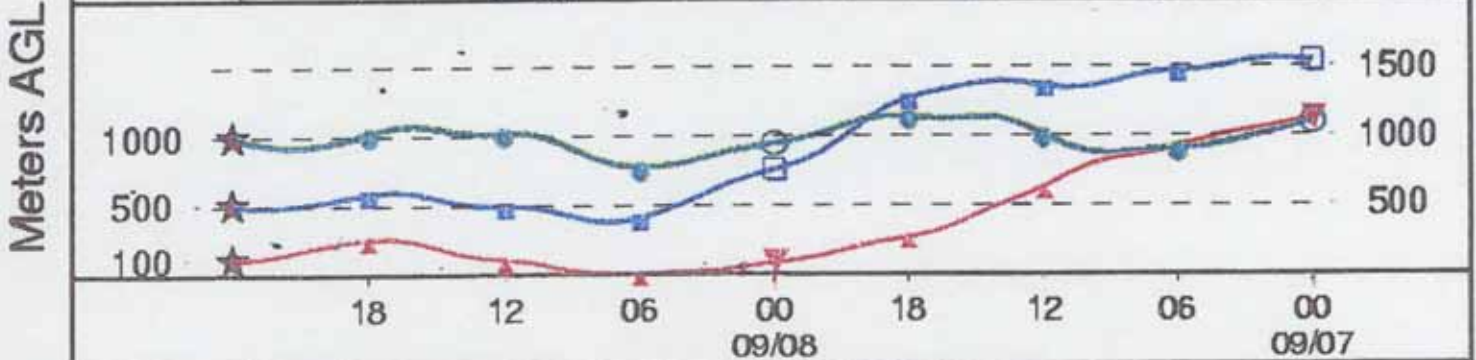
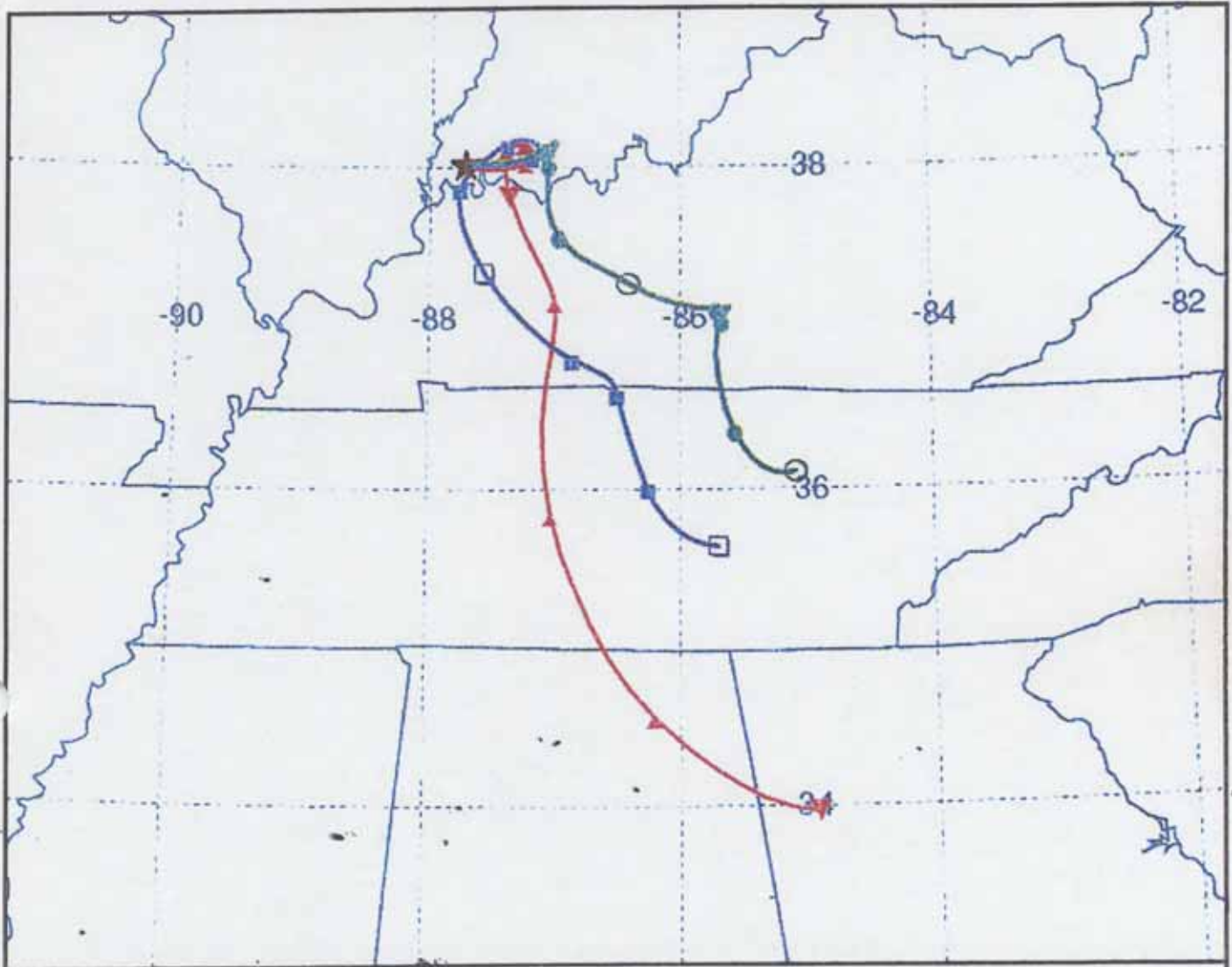
Trajectory Direction: Backward      Duration: 48 hrs  
 Vertical Motion Calculation Method: Model Vertical Velocity  
 Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 00 UTC 09 Sep 02

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 32802      Job Start: Tue Apr 8 17:38:06 GMT 2003  
lat.: 38.01 lon.: -87.72 hgts: 100, 500, 1000 m AGL

Trajectory Direction: Backward      Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

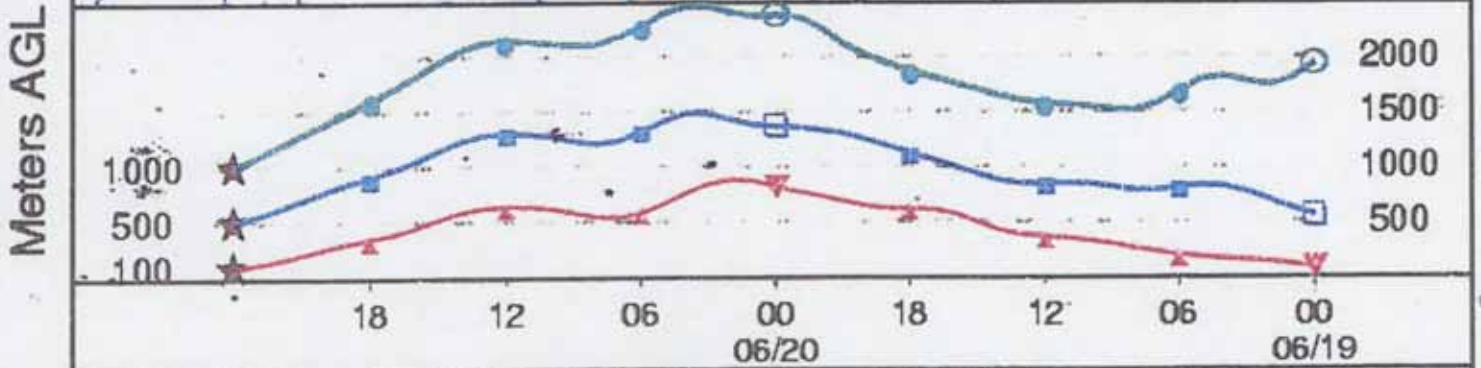
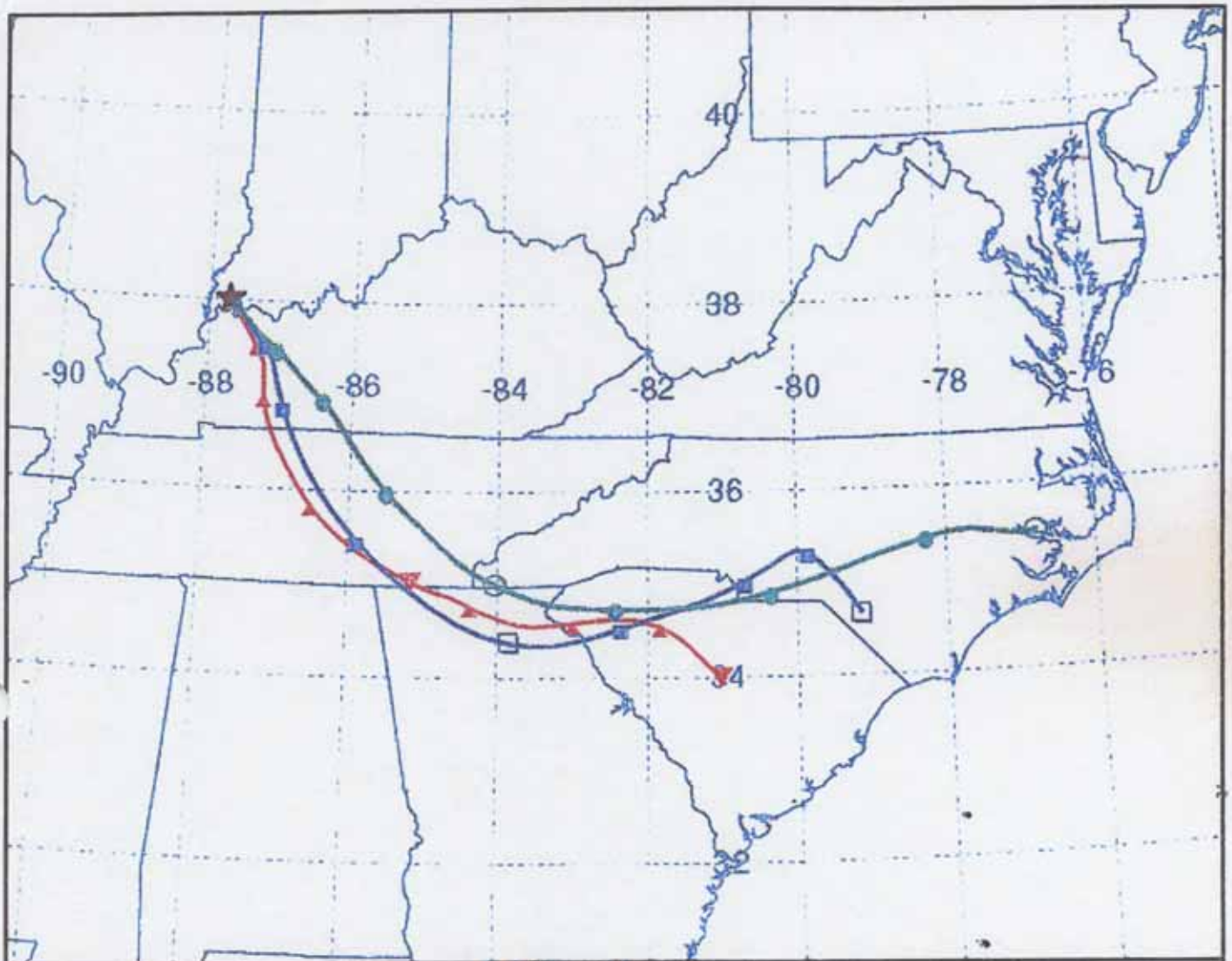


# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 00 UTC 21 Jun 02

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 32895 Job Start: Tue Apr 8 17:45:48 GMT 2003  
lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

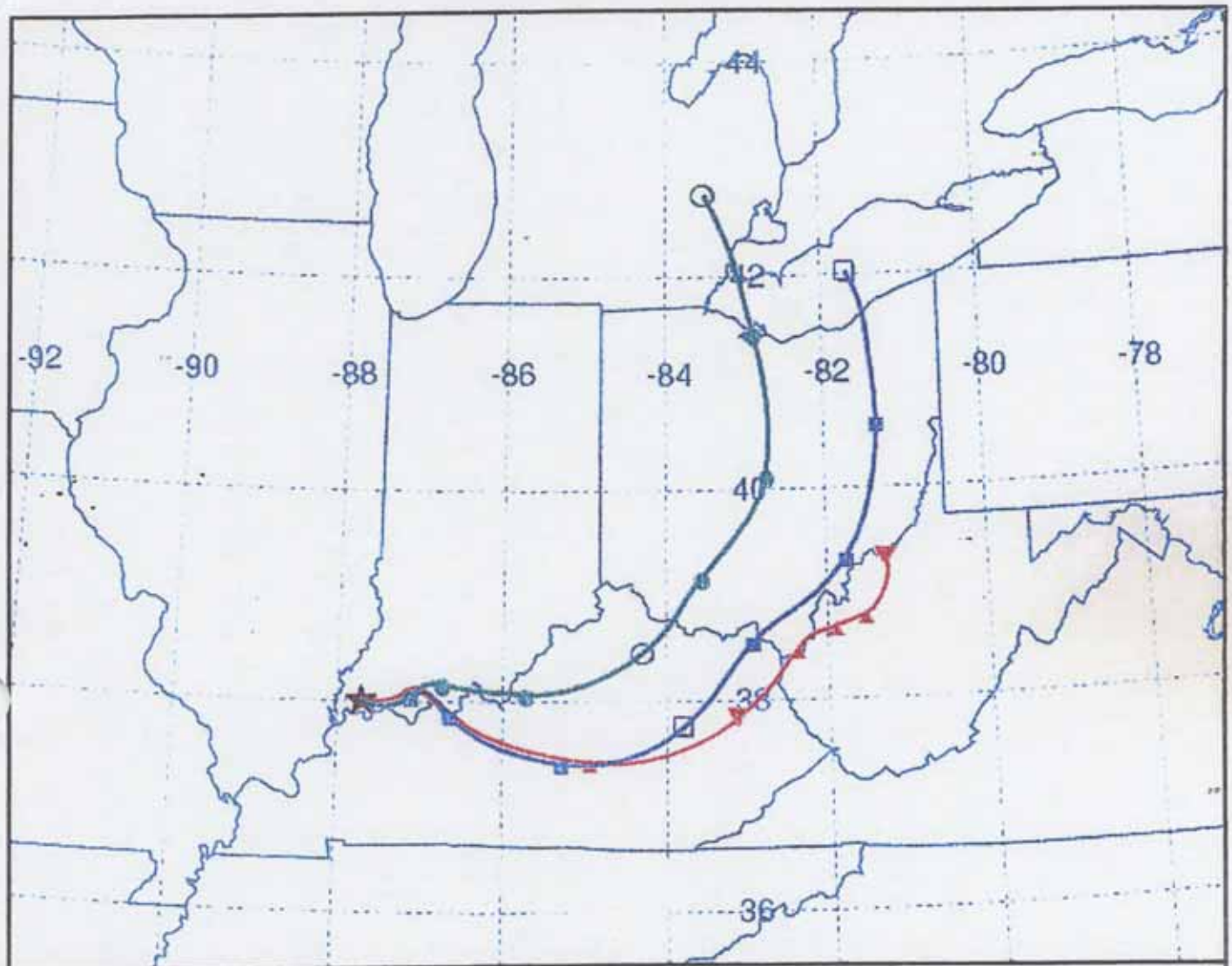
Trajectory Direction: Backward Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

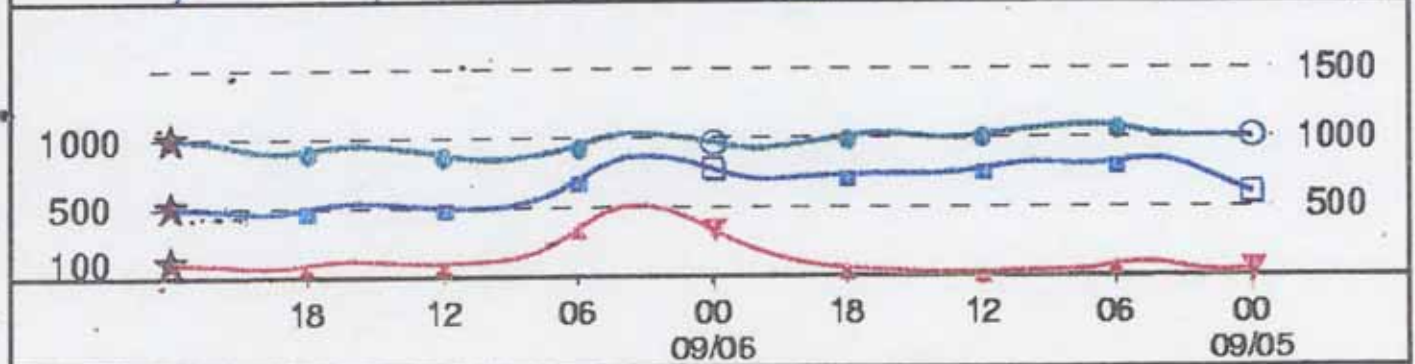
## Backward trajectories ending at 00 UTC 07 Sep 02

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Meters AGL



Job ID: 32842 Job Start: Tue Apr 8 17:40:46 GMT 2003  
lat.: 38.01 lon.: -87.72 hgts: 100, 500, 1000 m AGL

Trajectory Direction: Backward Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

**Posey County, Indiana Ozone Monitor (Site ID - 18-129-0003)**  
**2000-2002 1-Hour Average Top Four Maximum Values**

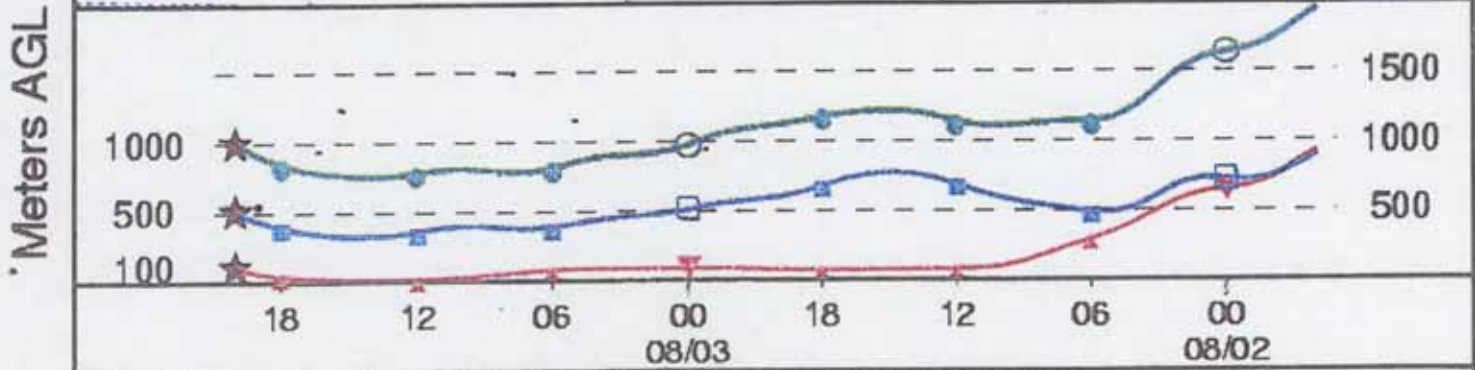
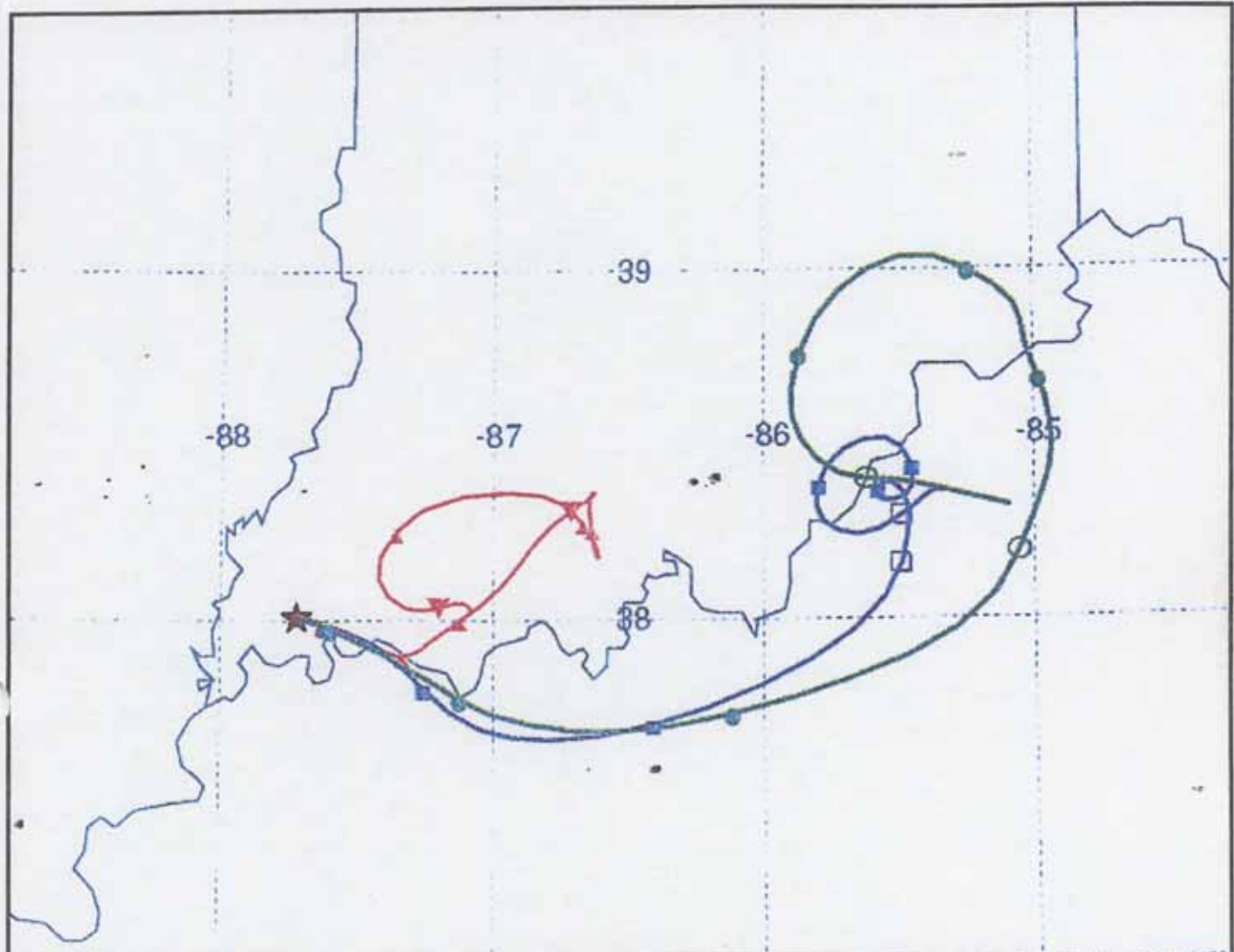
<b>Date</b>	<b>Start Hour (CST)</b>	<b>1-Hour Reading (PPM)</b>
08/03/2002	13	.121
08/29/2000	14	.116
08/09/2002	15	.109
06/20/2002	16	.108 (4 <sup>th</sup> Max)

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 20 UTC 03 Aug 02

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W

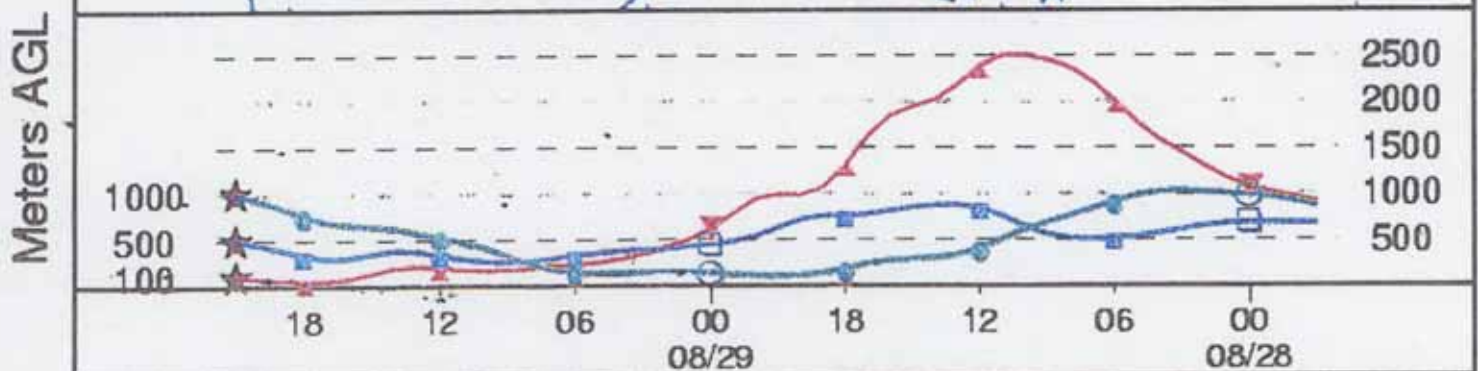
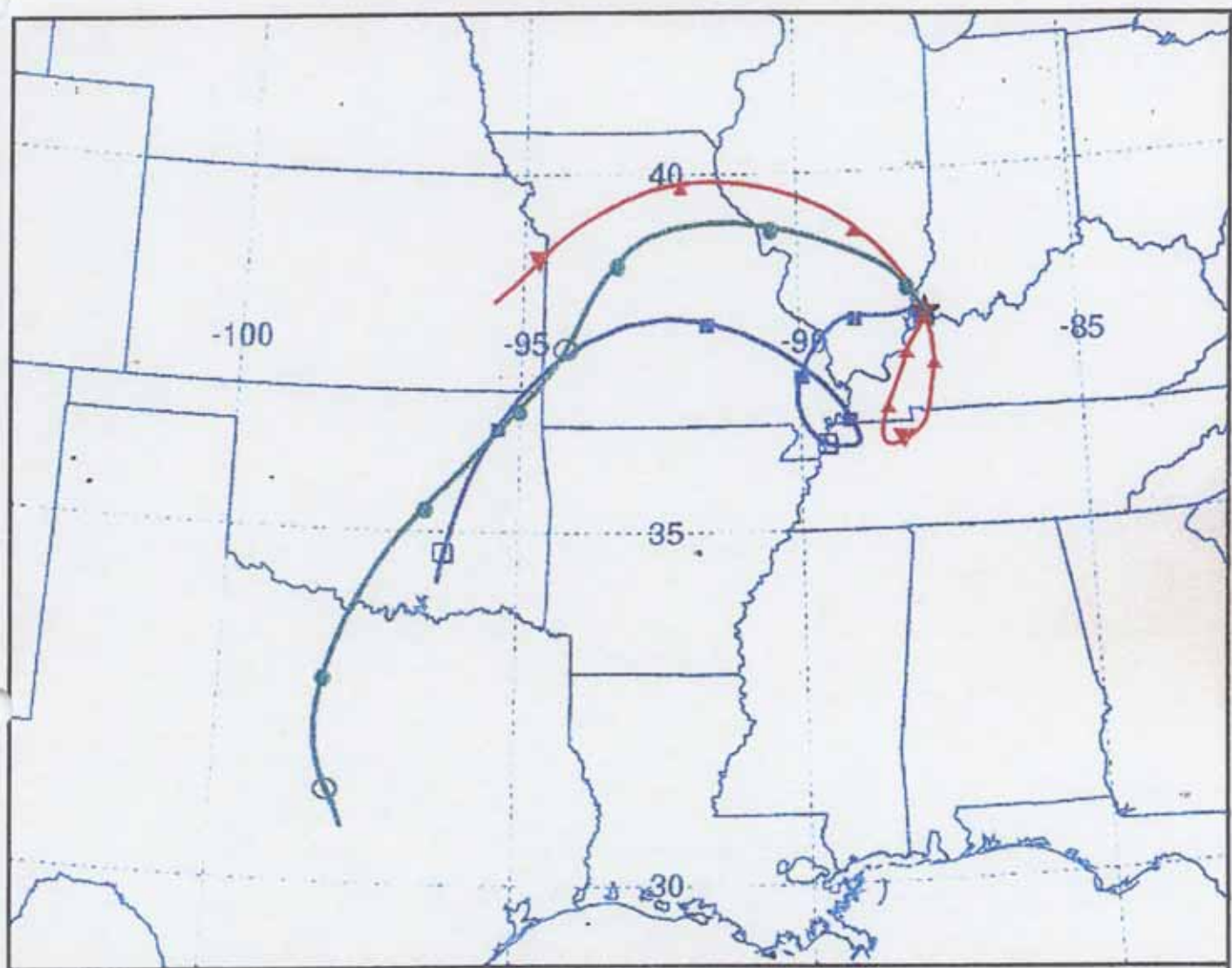


Job ID: 348904      Job Start: Wed Apr 2 17:14:39 GMT 2003  
lat.: 38.01 lon.: -87.72 hghts: 100, 500, 1000 m AGL

Trajectory Direction: Backward      Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION Backward trajectories ending at 21 UTC 29 Aug 00 EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 348272      Job Start: Wed Apr 2 16:30:38 GMT 2003  
 lat.: 38.01 lon.: -87.72 hgts: 100, 500, 1000 m AGL

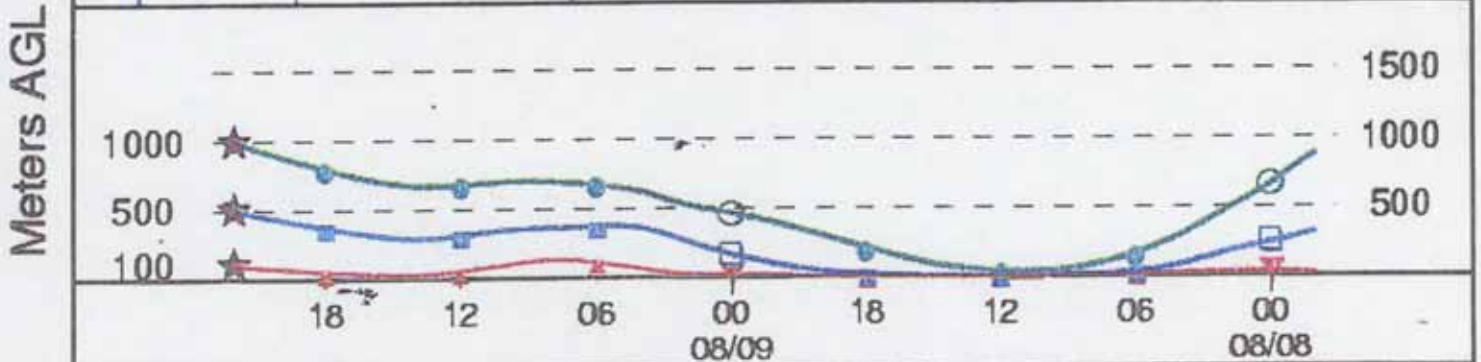
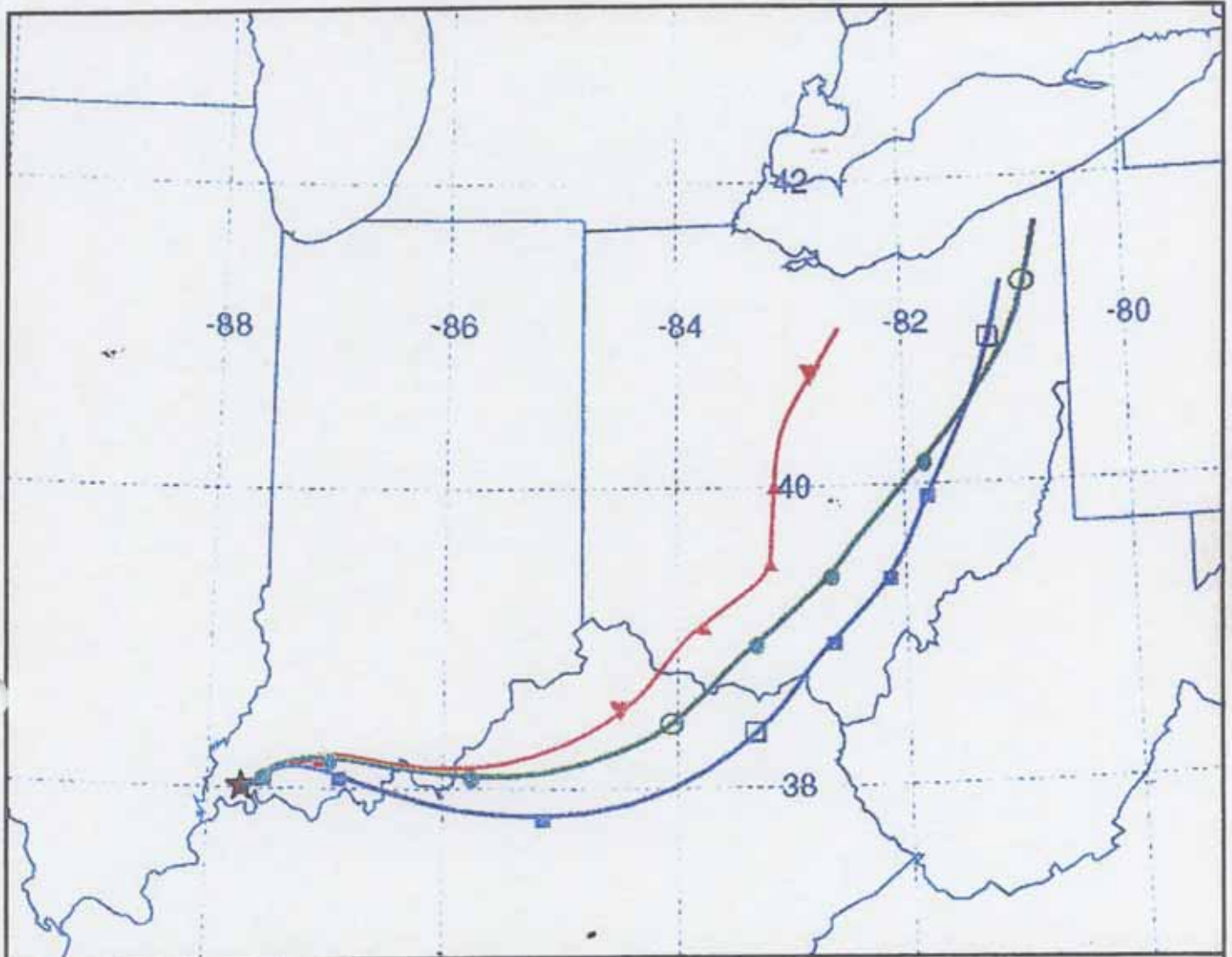
Trajectory Direction: Backward      Duration: 48 hrs  
 Vertical Motion Calculation Method: Model Vertical Velocity  
 Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 22 UTC 09 Aug 02

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 348931 Job Start: Wed Apr 2 17:17:32 GMT 2003  
lat.: 38.01 lon.: -87.72 hgts: 100, 500, 1000 m AGL

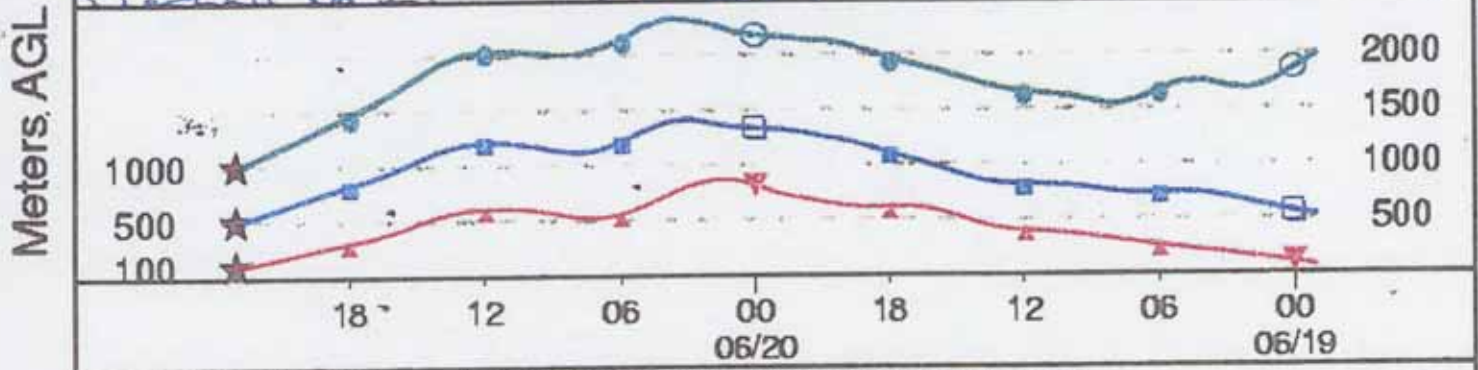
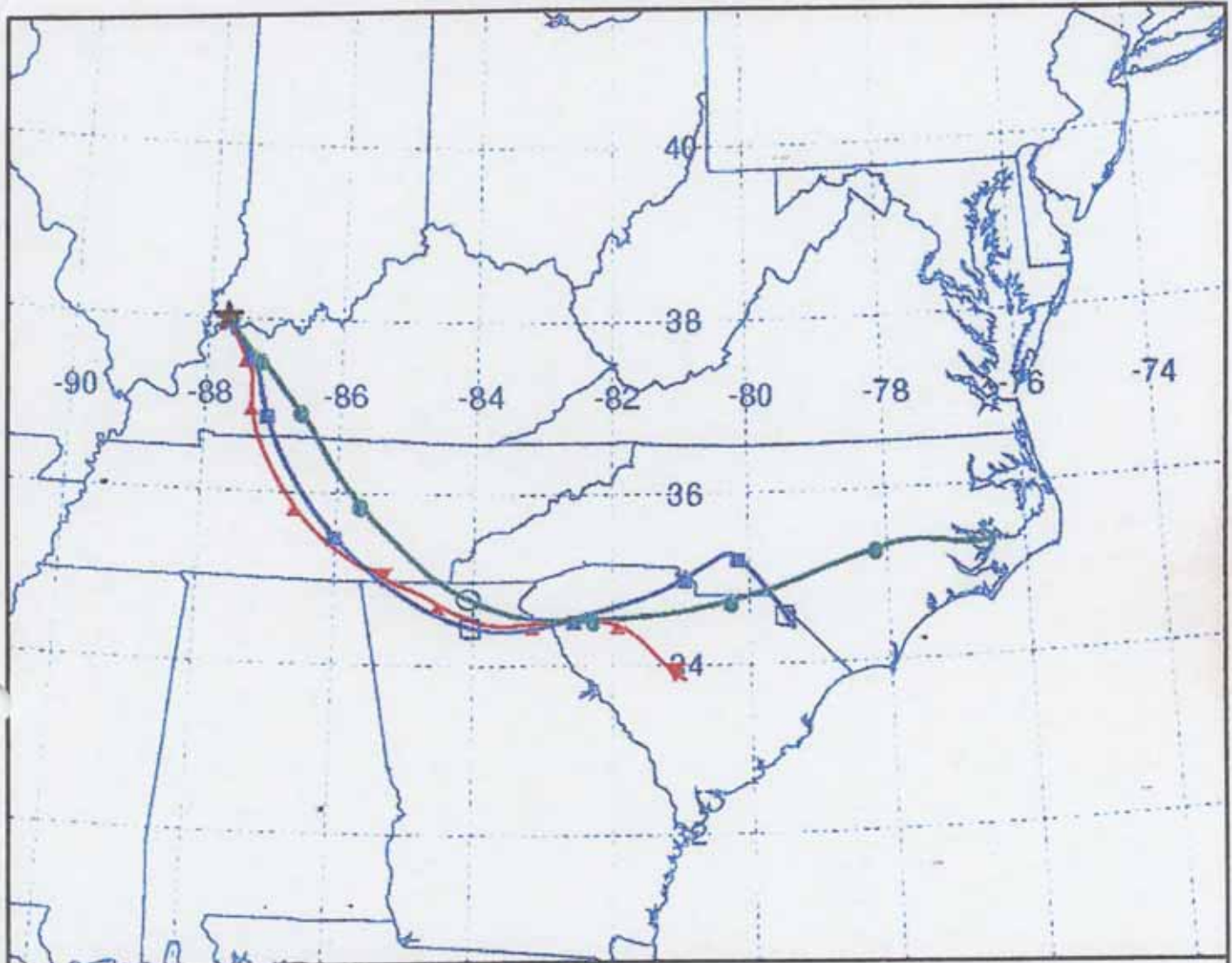
Trajectory Direction: Backward Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

# NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

## Backward trajectories ending at 23 UTC 20 Jun 02

### EDAS Meteorological Data

Source ★ at 38.01 N 87.72 W



Job ID: 349009 Job Start: Wed Apr 2 17:24:36 GMT 2003  
lat.: 38.01 lon.: -87.72 hgts: 100, 500, 1000 m AGL

Trajectory Direction: Backward Duration: 48 hrs  
Vertical Motion Calculation Method: Model Vertical Velocity  
Produced using NOAA ARL Website ([www.arl.noaa.gov/ready/](http://www.arl.noaa.gov/ready/))

### Time Conversion Table

Z Time (UTC)	Pacific Standard Time	Mountain Standard Time	Central Standard Time	Eastern Standard Time
00Z	4:00 PM	5:00 PM	6:00 PM	7:00 PM
03Z	7:00 PM	8:00 PM	9:00 PM	10:00 PM
06Z	10:00 PM	11:00 PM	12:00 AM	1:00 AM
09Z	1:00 AM	2:00 AM	3:00 AM	4:00 AM
12Z	4:00 AM	5:00 AM	6:00 AM	7:00 AM
15Z	7:00 AM	8:00 AM	9:00 AM	10:00 AM
18Z	10:00 AM	11:00 AM	12:00 PM	1:00 PM
21Z	1:00 PM	2:00 PM	3:00 PM	4:00 PM

Z Time (UTC)	Pacific Daylight Savings Time	Mountain Daylight Savings Time	Central Daylight Savings Time	Eastern Daylight Savings Time
00Z	5:00 PM	6:00 PM	7:00 PM	8:00 PM
03Z	8:00 PM	9:00 PM	10:00 PM	11:00 PM
06Z	11:00 PM	12:00 AM	1:00 AM	2:00 AM
09Z	2:00 AM	3:00 AM	4:00 AM	5:00 AM
12Z	5:00 AM	6:00 AM	7:00 AM	8:00 AM
15Z	8:00 AM	9:00 AM	10:00 AM	11:00 AM
18Z	11:00 AM	12:00 PM	1:00 PM	2:00 PM
21Z	2:00 PM	3:00 PM	4:00 PM	5:00 PM