Real-time Transport and Dispersion from Illinois Nuclear Power Plants

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NUMUG 2005
Wilmington, NC

Remote Monitoring System

Reactor Data Link

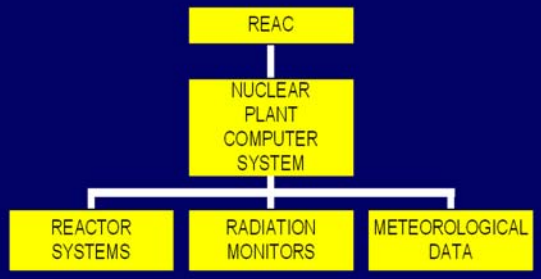
Gaseous Effluent Monitoring System

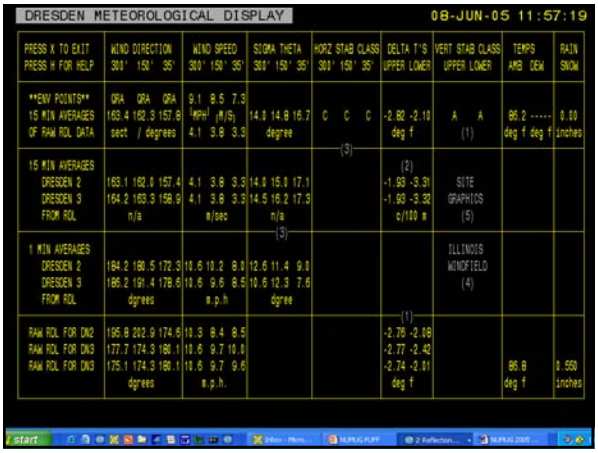
Gamma Detector Network

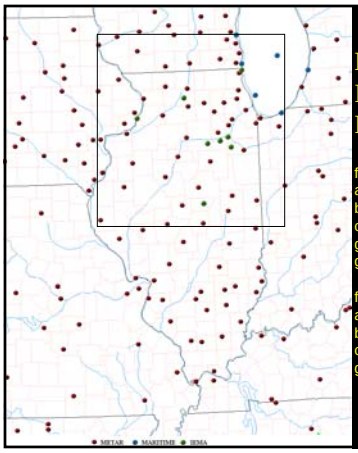
REAC

SODAR

Reactor Data Link



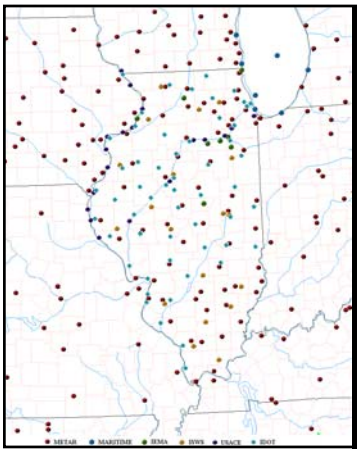




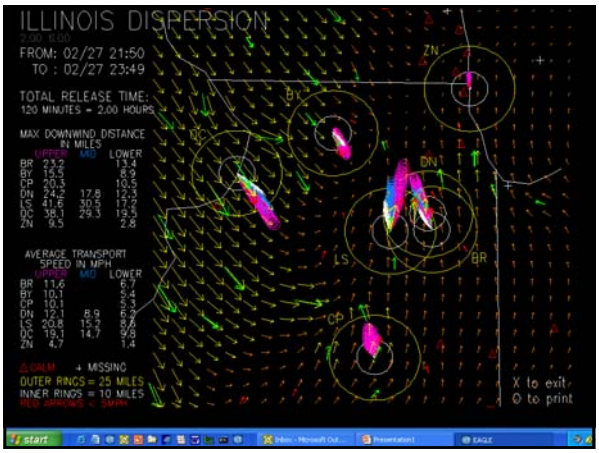
NWS and NDBC Internet download by FTP every 20 minutes

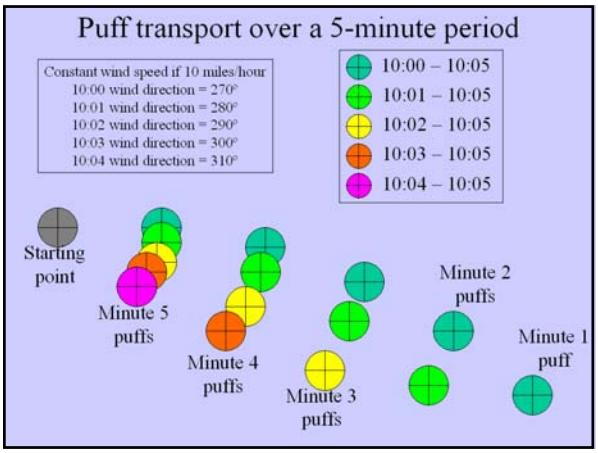
ftp weather.noaa.gov
anonymous
bellinger@iema.state.il.us
cd data/observations/metar/cycles
get 19Z.TXT
get 20Z.TXT

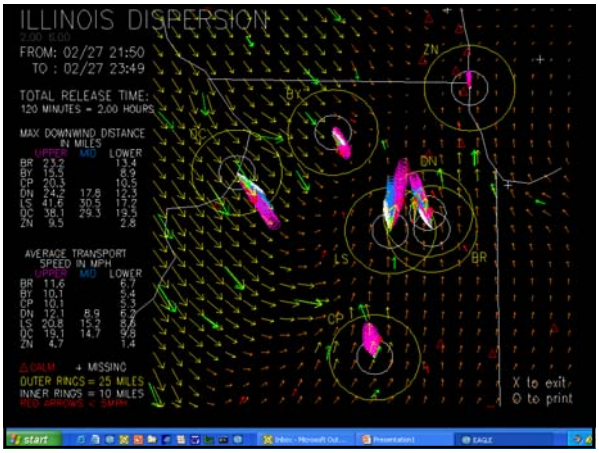
ftp www.ndbc.noaa.gov
anonymous
bellinger@iema.state.il.us
cd data/realtime2
get 45007.txt

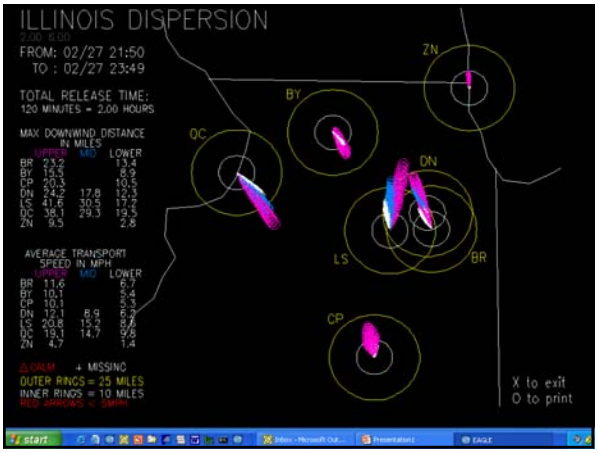


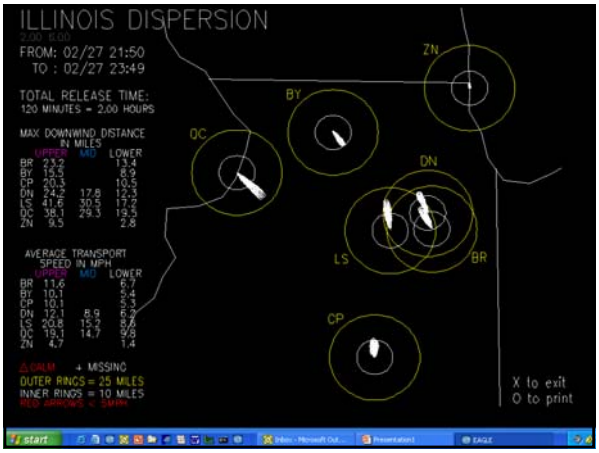
Potential Illinois Mesonet


ILLINOIS DISPERSION
FROM: 02/27 21:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print


Puff transport over a 5-minute period
Constant wind speed if 10 miles/hour
10:00 wind direction = 270°
10:01 wind direction = 280°
10:02 wind direction = 290°
10:03 wind direction = 300°
10:04 wind direction = 310°
10:00 – 10:05
10:01 – 10:05
10:02 – 10:05
10:03 – 10:05
10:04 – 10:05
Starting point
Minute 5 puffs
Minute 4 puffs
Minute 3 puffs
Minute 2 puffs
Minute 1 puff


ILLINOIS DISPERSION
FROM: 02/27 21:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print


ILLINOIS DISPERSION
FROM: 02/27 21:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print


ILLINOIS DISPERSION
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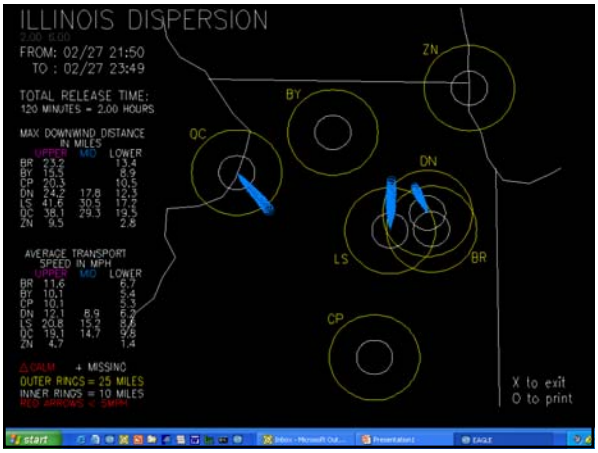
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print


ILLINOIS DISPERSION
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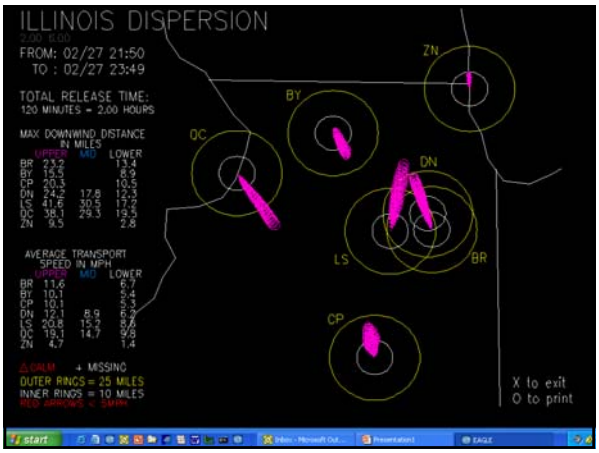
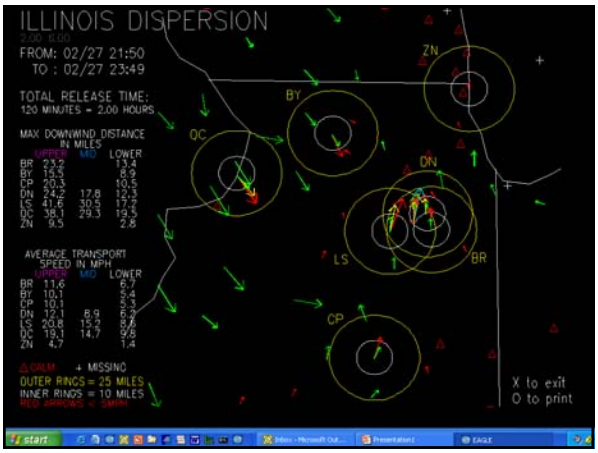
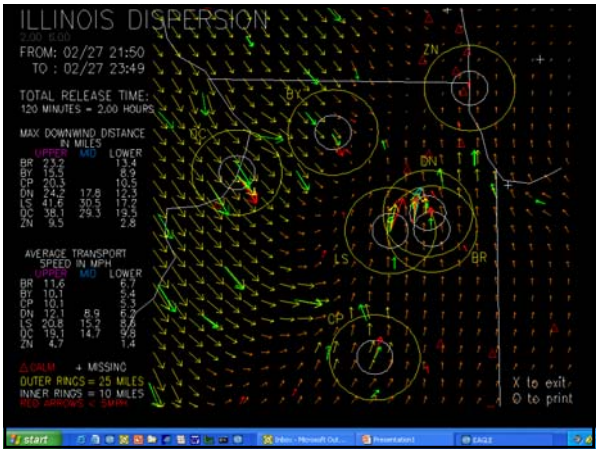
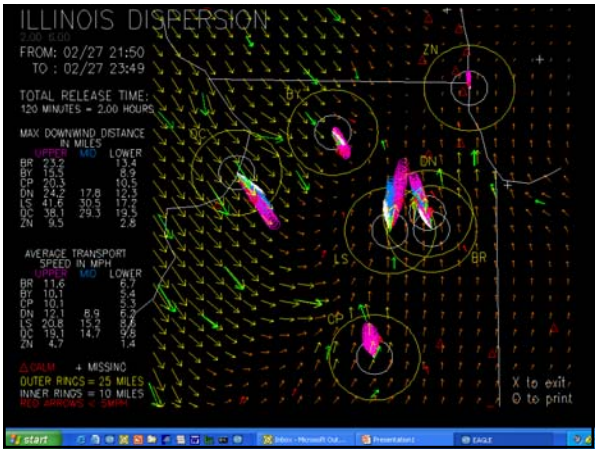
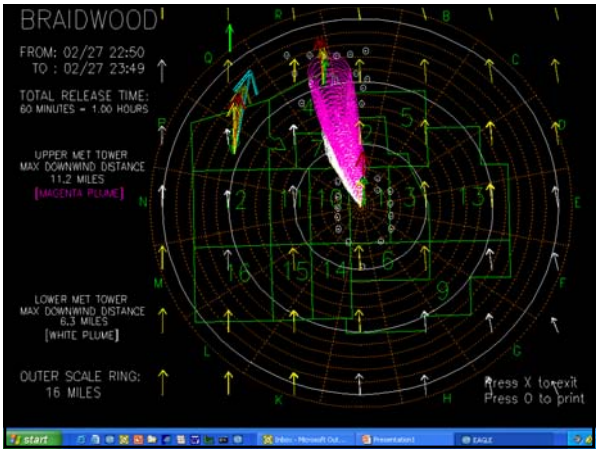
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

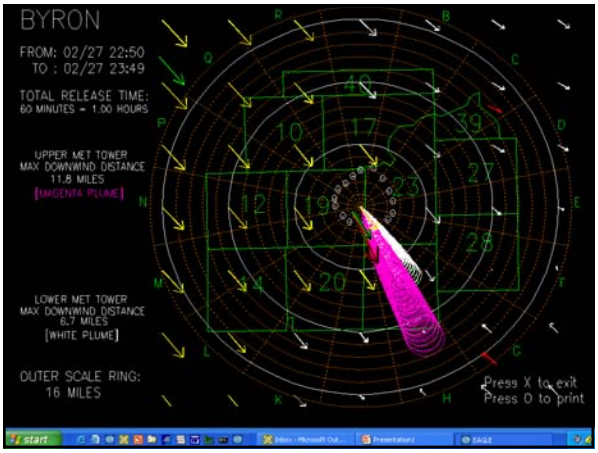

ILLINOIS DISPERSION
FROM: 02/27 21:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

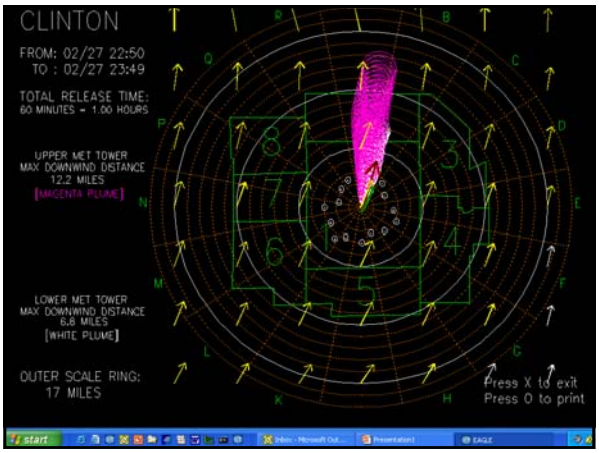

ILLINOIS DISPERSION
FROM: 02/27 21:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

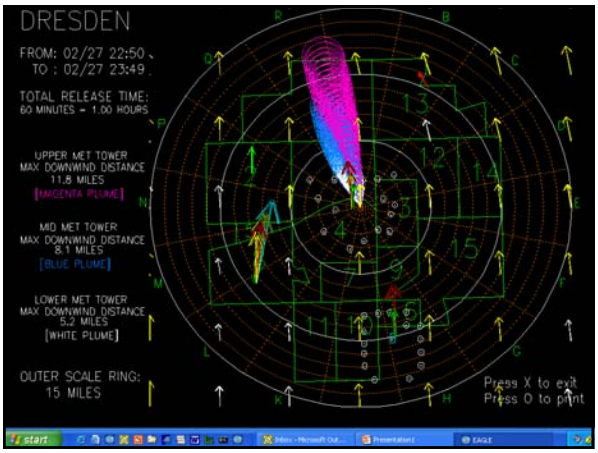

ILLINOIS DISPERSION
FROM: 02/27 21:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

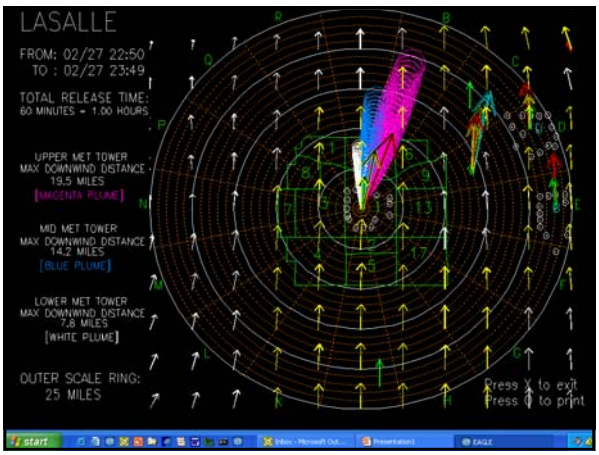

ILLINOIS DISPERSION
FROM: 02/27 21:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE TRANSPORT SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

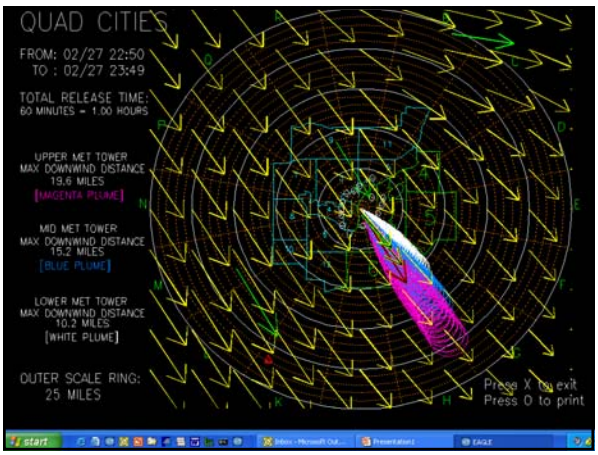

BRAIDWOOD
FROM: 02/27 22:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
11.2 MILES
[MAGENTA PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
6.3 MILES
[WHITE PLUME]
OUTER SCALE RING:
16 MILES
Press X to exit
Press O to print

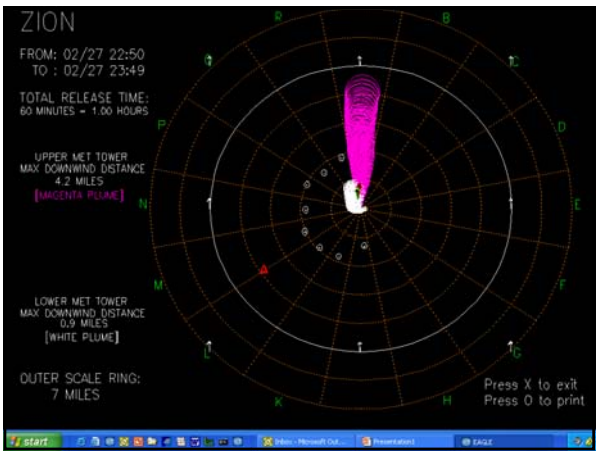

BYRON
FROM: 02/27 22:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
11.8 MILES
[MAGENTA PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
6.7 MILES
[WHITE PLUME]
OUTER SCALE RING:
16 MILES
Press X to exit
Press O to print

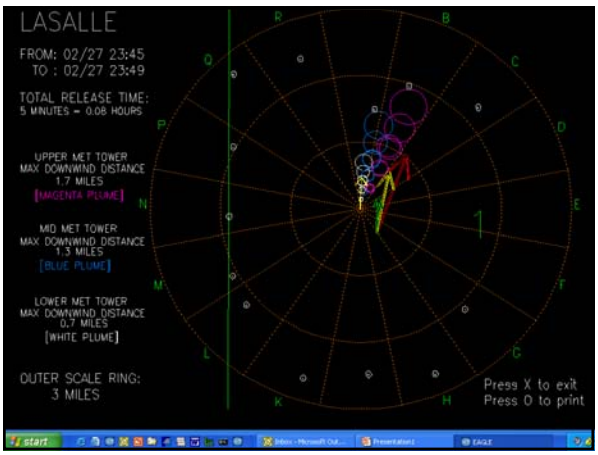

CLINTON
FROM: 02/27 22:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
12.2 MILES
[MAGENTA PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
6.8 MILES
[WHITE PLUME]
OUTER SCALE RING:
17 MILES
Press X to exit
Press O to print

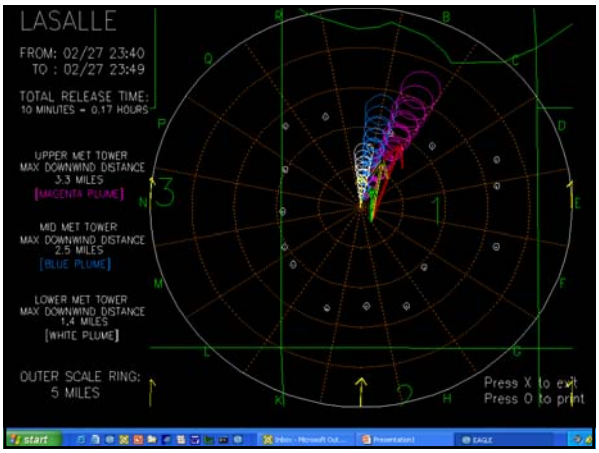

DRESDEN
FROM: 02/27 22:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
11.8 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
8.1 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
5.2 MILES
[WHITE PLUME]
OUTER SCALE RING:
15 MILES
Press X to exit
Press O to print

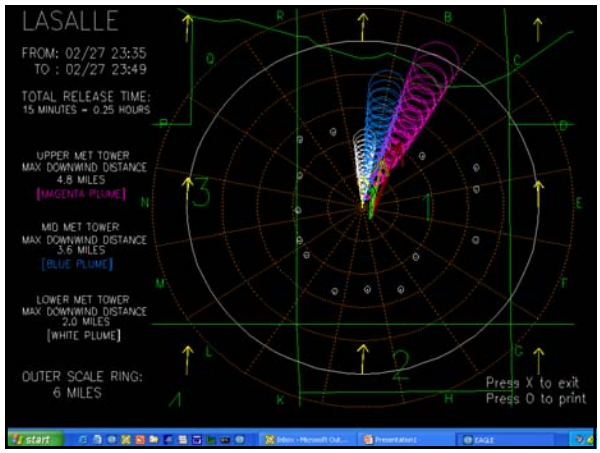

LASALLE
FROM: 02/27 22:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
19.5 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
14.2 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
7.8 MILES
[WHITE PLUME]
OUTER SCALE RING:
25 MILES
Press X to exit
Press O to print

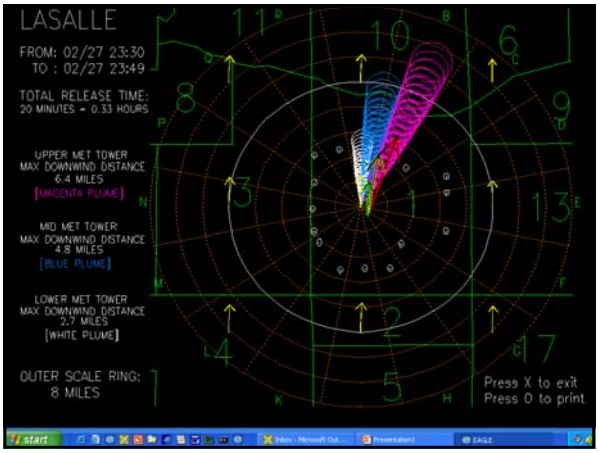

QUAD CITIES
FROM: 02/27 22:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
19.6 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
15.2 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
10.2 MILES
[WHITE PLUME]
OUTER SCALE RING:
25 MILES
Press X to exit
Press O to print

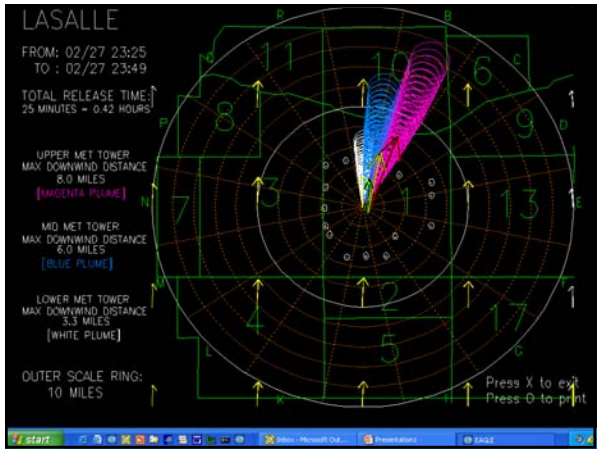

ZION
FROM: 02/27 22:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
4.2 MILES
[MAGENTA PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
0.9 MILES
[WHITE PLUME]
OUTER SCALE RING:
7 MILES
Press X to exit
Press O to print

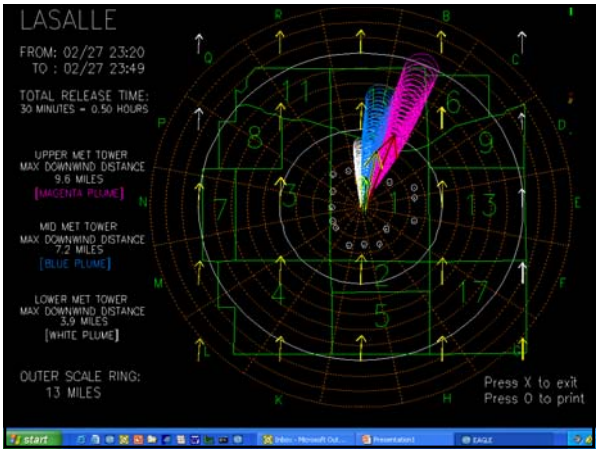

LASALLE
FROM: 02/27 23:45
TO : 02/27 23:49
TOTAL RELEASE TIME:
5 MINUTES = 0.08 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
1.7 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
1.3 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
0.7 MILES
[WHITE PLUME]
OUTER SCALE RING:
3 MILES
Press X to exit
Press O to print

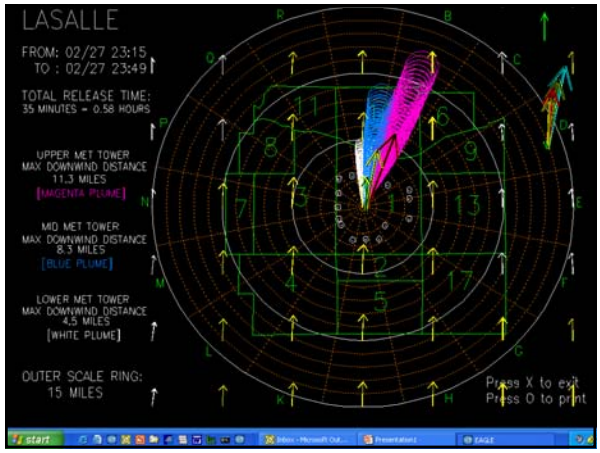

LASALLE
FROM: 02/27 23:40
TO : 02/27 23:49
TOTAL RELEASE TIME:
10 MINUTES = 0.17 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
3.3 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
2.5 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
1.4 MILES
[WHITE PLUME]
OUTER SCALE RING:
5 MILES
Press X to exit
Press O to print

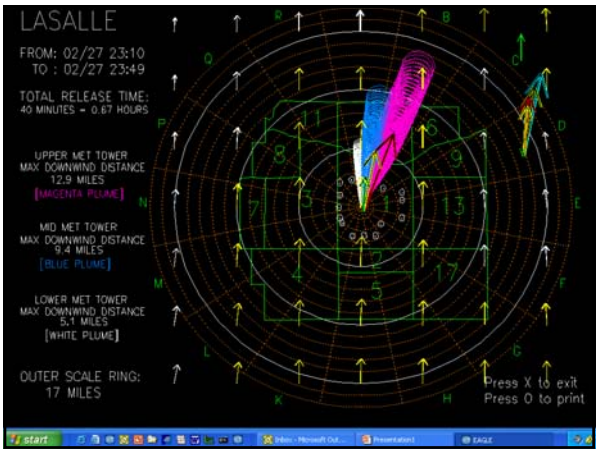

LASALLE
FROM: 02/27 23:35
TO : 02/27 23:49
TOTAL RELEASE TIME:
15 MINUTES = 0.25 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
4.8 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
3.6 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
2.0 MILES
[WHITE PLUME]
OUTER SCALE RING:
6 MILES
Press X to exit
Press O to print

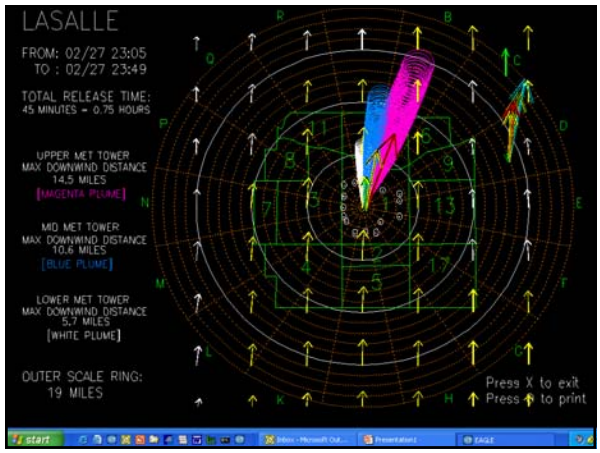

LASALLE
FROM: 02/27 23:30
TO : 02/27 23:49
TOTAL RELEASE TIME:
20 MINUTES = 0.33 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
6.4 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
4.8 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
2.7 MILES
[WHITE PLUME]
OUTER SCALE RING:
8 MILES
Press X to exit
Press O to print

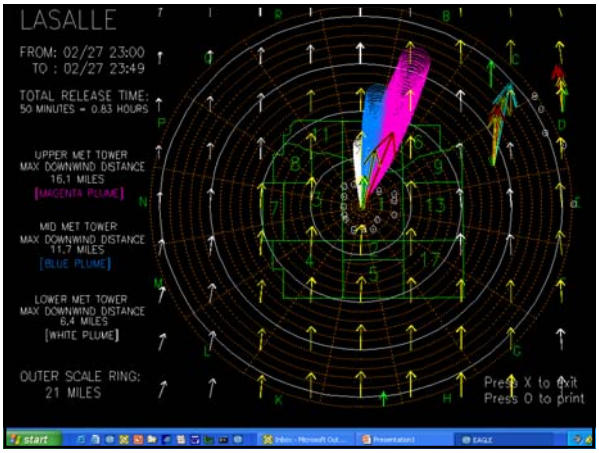

LASALLE
FROM: 02/27 23:25
TO : 02/27 23:49
TOTAL RELEASE TIME:
25 MINUTES = 0.42 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
8.0 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
6.0 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
3.3 MILES
[WHITE PLUME]
OUTER SCALE RING:
10 MILES
Press X to exit
Press O to print

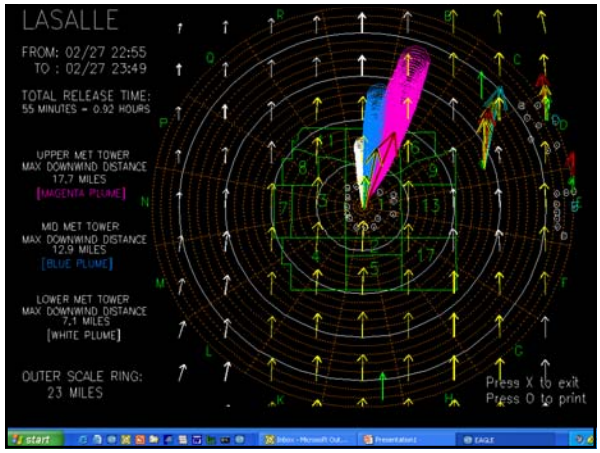

LASALLE
FROM: 02/27 23:20
TO : 02/27 23:49
TOTAL RELEASE TIME:
30 MINUTES = 0.50 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
9.6 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
7.2 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
3.9 MILES
[WHITE PLUME]
OUTER SCALE RING:
13 MILES
Press X to exit
Press O to print

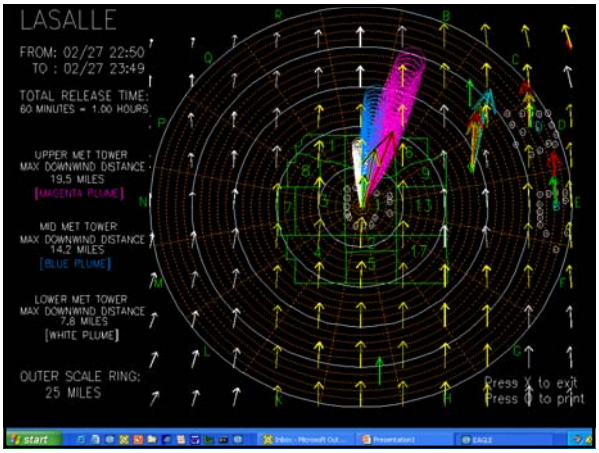

LASALLE
FROM: 02/27 23:15
TO : 02/27 23:49
TOTAL RELEASE TIME:
35 MINUTES = 0.58 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
11.3 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
8.5 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
4.5 MILES
[WHITE PLUME]
OUTER SCALE RING:
15 MILES
Press X to exit
Press O to print

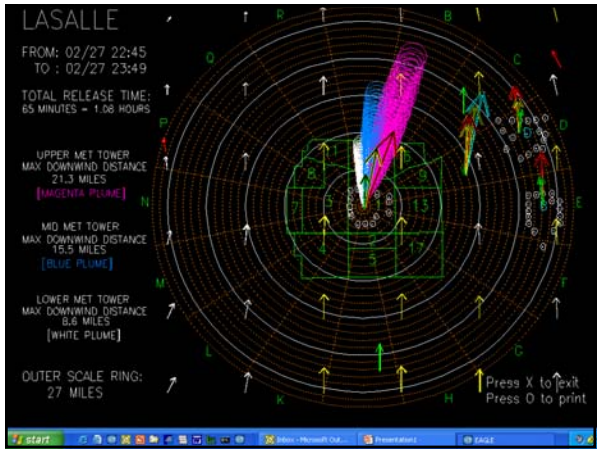

LASALLE
FROM: 02/27 23:10
TO : 02/27 23:49
TOTAL RELEASE TIME:
40 MINUTES = 0.67 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
12.9 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
9.4 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
5.1 MILES
[WHITE PLUME]
OUTER SCALE RING:
17 MILES
Press X to exit
Press O to print

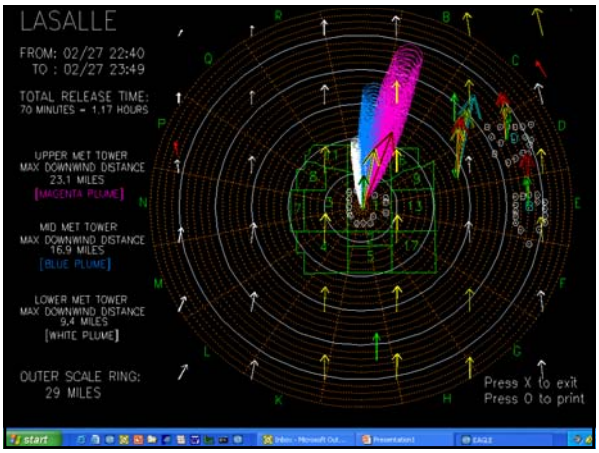

LASALLE
FROM: 02/27 23:05
TO : 02/27 23:49
TOTAL RELEASE TIME:
45 MINUTES = 0.75 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
14.5 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
10.6 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
5.7 MILES
[WHITE PLUME]
OUTER SCALE RING:
19 MILES
Press X to exit
Press O to print

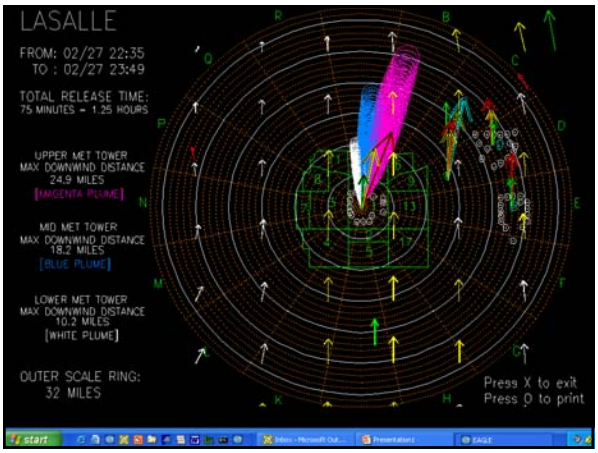

LASALLE
FROM: 02/27 23:00
TO : 02/27 23:49
TOTAL RELEASE TIME:
50 MINUTES = 0.83 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
16.1 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
11.7 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
6.4 MILES
[WHITE PLUME]
OUTER SCALE RING:
21 MILES
Press X to exit
Press O to print

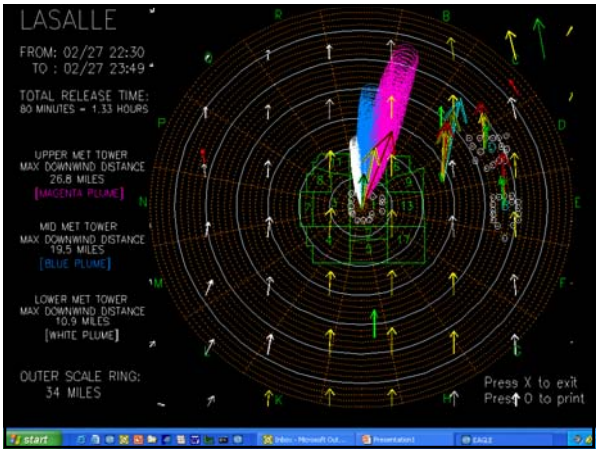

LASALLE
FROM: 02/27 22:55
TO : 02/27 23:49
TOTAL RELEASE TIME:
55 MINUTES = 0.92 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
17.7 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
12.9 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
7.1 MILES
[WHITE PLUME]
OUTER SCALE RING:
23 MILES
Press X to exit
Press O to print

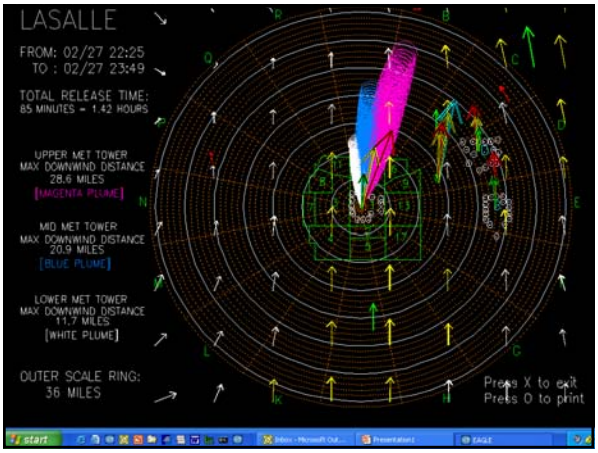

LASALLE
FROM: 02/27 22:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
19.5 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
14.2 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
7.8 MILES
[WHITE PLUME]
OUTER SCALE RING:
25 MILES
Press X to exit
Press O to print

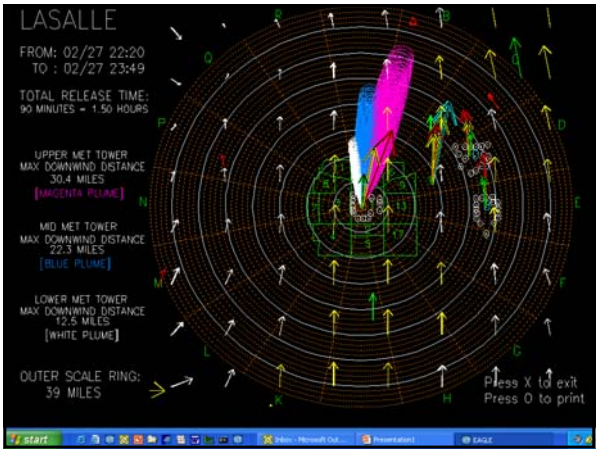

LASALLE
FROM: 02/27 22:45
TO : 02/27 23:49
TOTAL RELEASE TIME:
65 MINUTES = 1.08 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
21.3 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
15.5 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
8.6 MILES
[WHITE PLUME]
OUTER SCALE RING:
27 MILES
Press X to exit
Press O to print



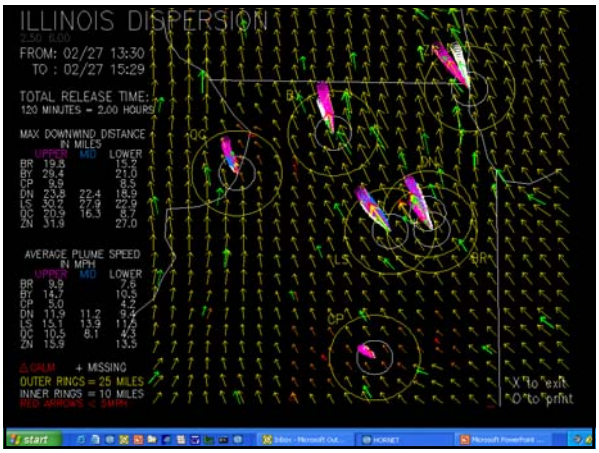


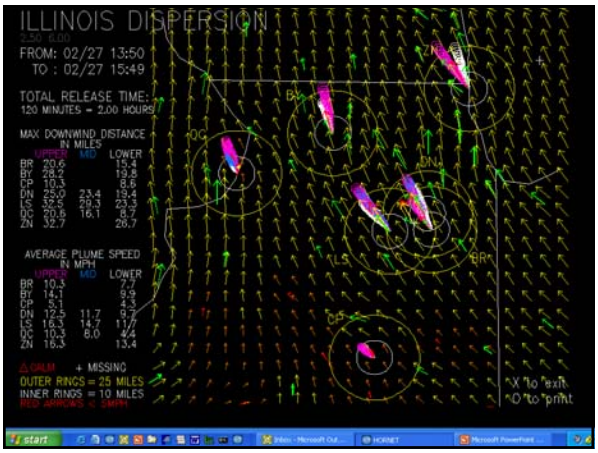


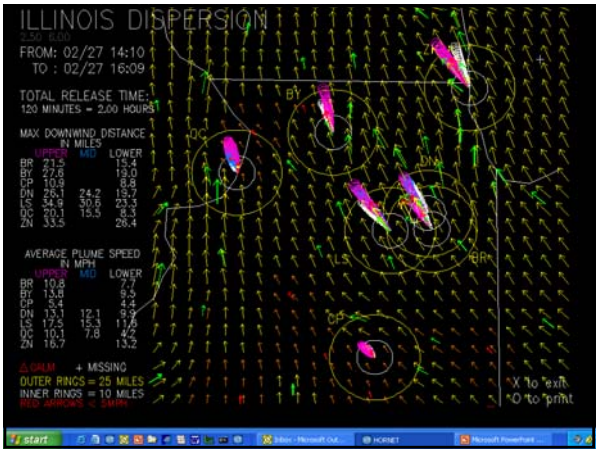


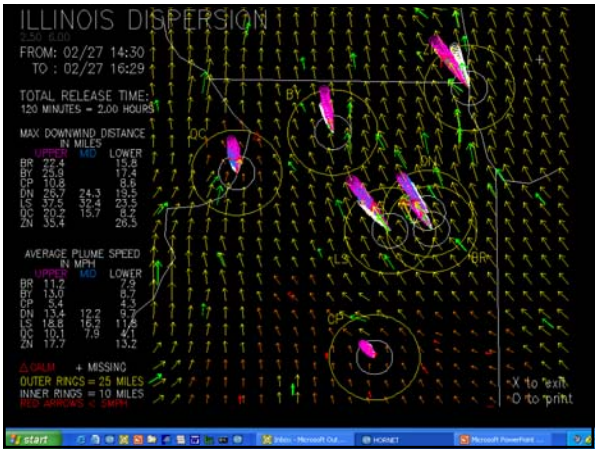


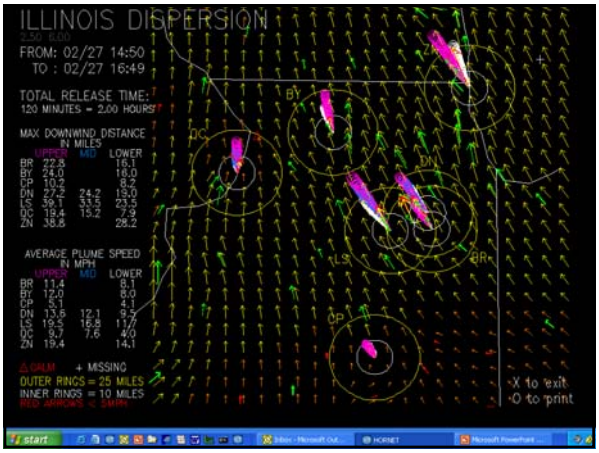
A Passing Cold Front
02/27/2005

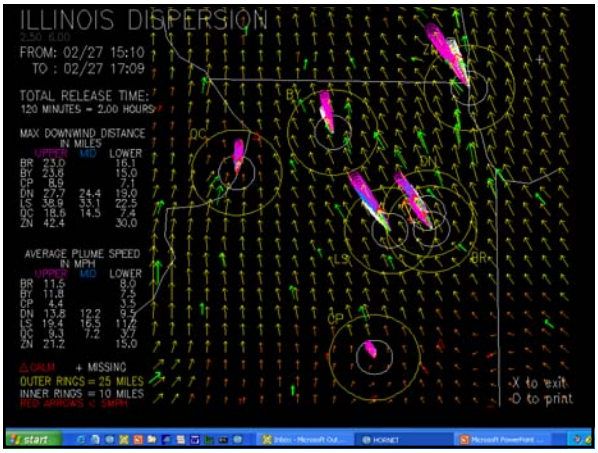

ILLINOIS DISPERSION
FROM: 02/27 13:30
TO : 02/27 15:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
^X to exit
^O to print

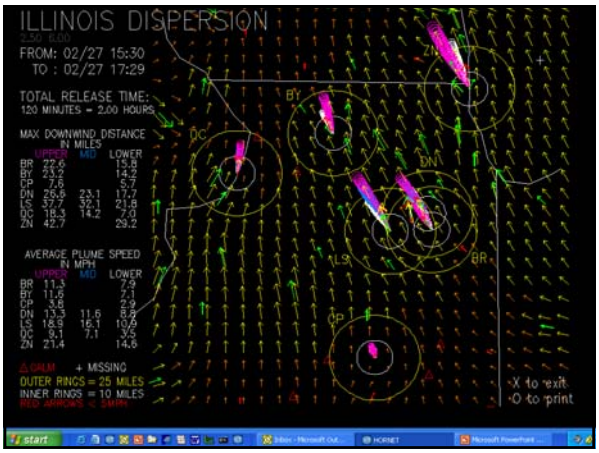

ILLINOIS DISPERSION
FROM: 02/27 13:50
TO : 02/27 15:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
^X to exit
^O to print

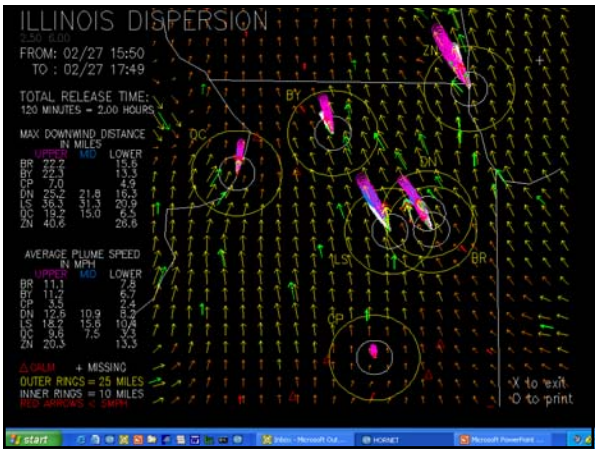

ILLINOIS DISPERSION
FROM: 02/27 14:10
TO : 02/27 16:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
^X to exit
^O to print

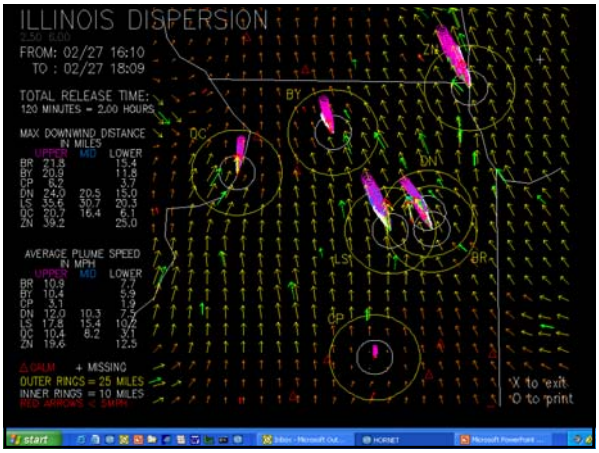

ILLINOIS DISPERSION
FROM: 02/27 14:30
TO : 02/27 16:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
^X to exit
^O to print

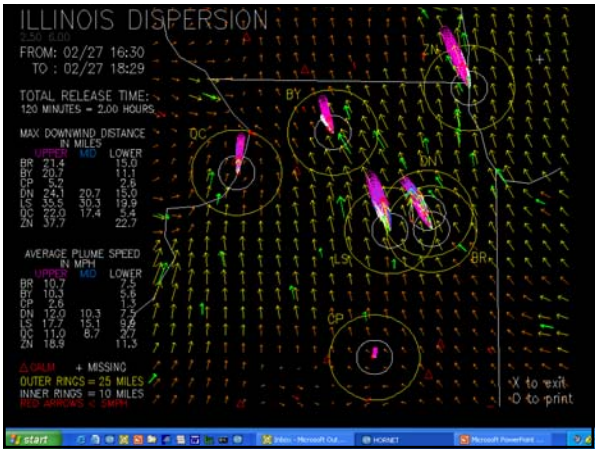

ILLINOIS DISPERSION
FROM: 02/27 14:50
TO : 02/27 16:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
^X to exit
^O to print

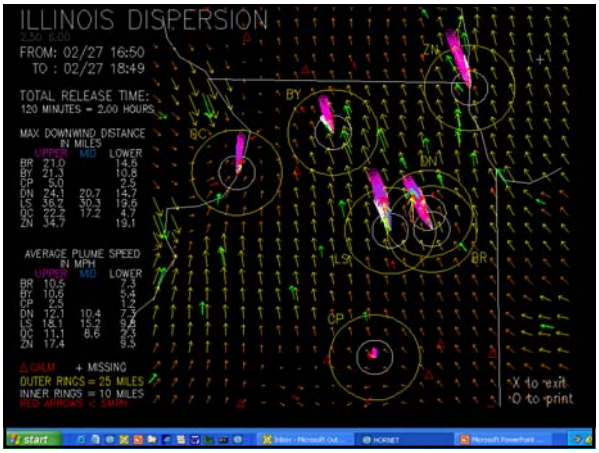

ILLINOIS DISPERSION
FROM: 02/27 15:10
TO : 02/27 17:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
^X to exit
^O to print

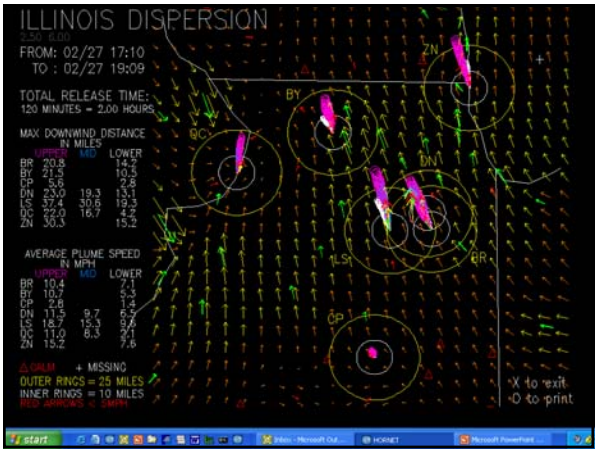

ILLINOIS DISPERSION
FROM: 02/27 15:30
TO : 02/27 17:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
X to exit
O to print

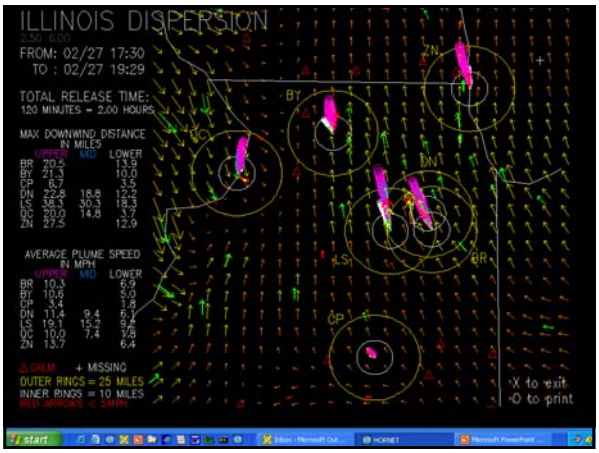

ILLINOIS DISPERSION
FROM: 02/27 15:50
TO : 02/27 17:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
X to exit
O to print

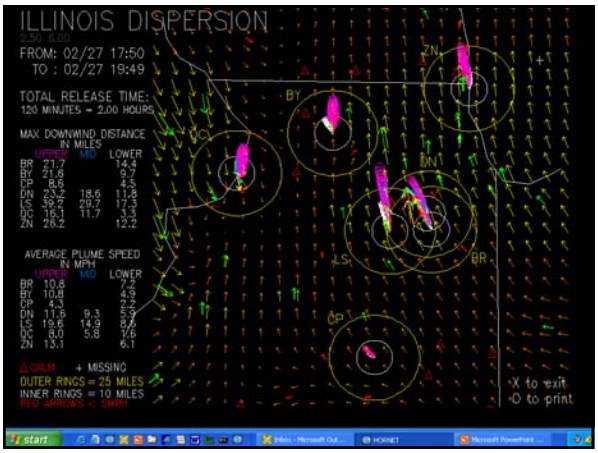

ILLINOIS DISPERSION
FROM: 02/27 16:10
TO : 02/27 18:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
X to exit
O to print

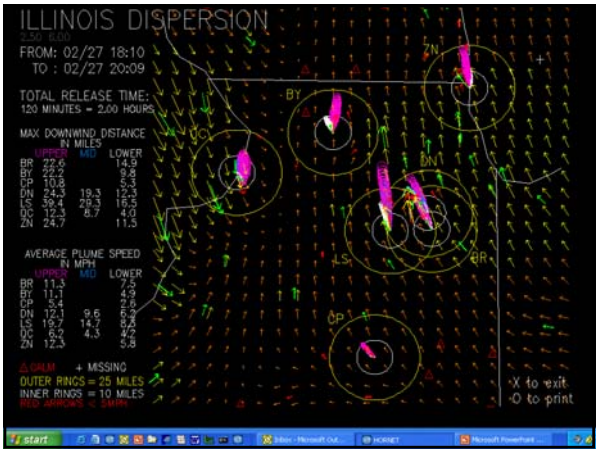

ILLINOIS DISPERSION
FROM: 02/27 16:30
TO : 02/27 18:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
X to exit
O to print


ILLINOIS DISPERSION
FROM: 02/27 16:50
TO : 02/27 18:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
X to exit
O to print


ILLINOIS DISPERSION
FROM: 02/27 17:10
TO : 02/27 19:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
X to exit
O to print


ILLINOIS DISPERSION
FROM: 02/27 17:30
TO : 02/27 19:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
-X to exit
-O to print


ILLINOIS DISPERSION
FROM: 02/27 17:50
TO : 02/27 19:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
-X to exit
-O to print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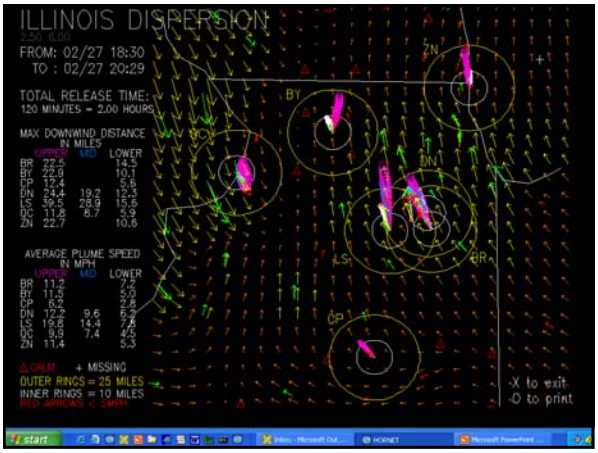
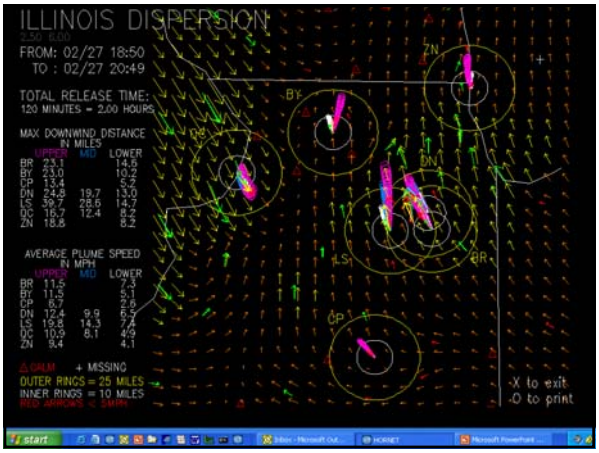
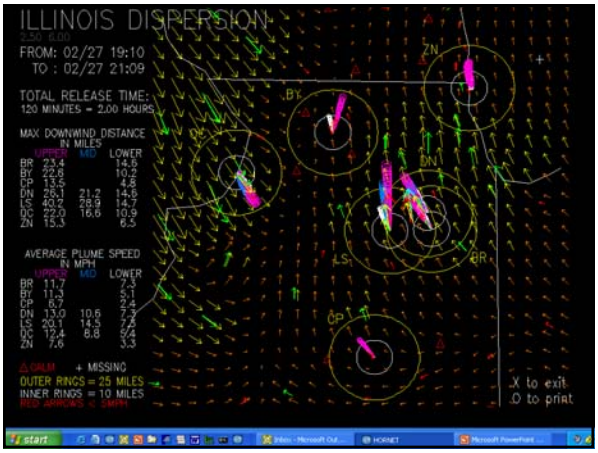
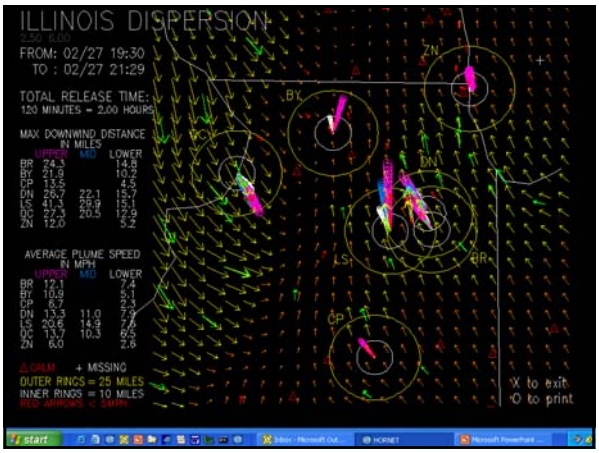
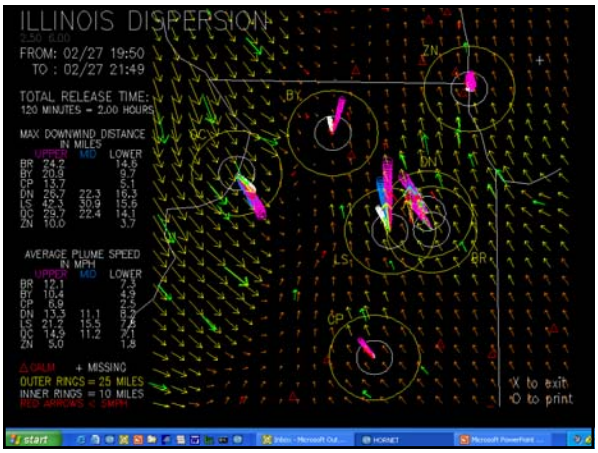
FROM: 02/27 18:10
TO : 02/27 20:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
-X to exit
-O to print

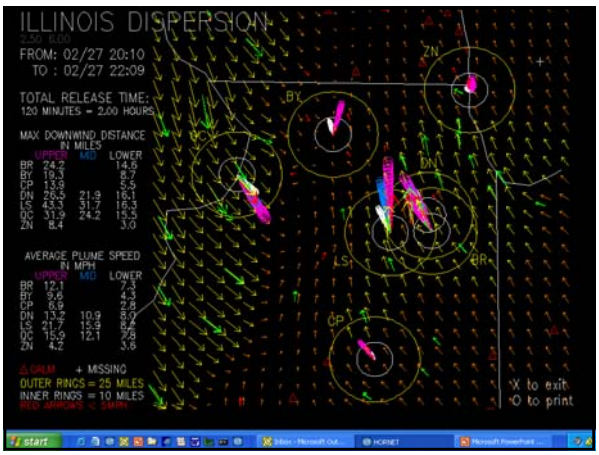

ILLINOIS DISPERSION
FROM: 02/27 18:30
TO : 02/27 20:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
-X to exit
-O to print


ILLINOIS DISPERSION
FROM: 02/27 18:50
TO : 02/27 20:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
-X to exit
-O to print


ILLINOIS DISPERSION
FROM: 02/27 19:10
TO : 02/27 21:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
RED ARROWS < 5MPH
-X to exit
-O to print


ILLINOIS DISPERSION
FROM: 02/27 19:30
TO : 02/27 21:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print


ILLINOIS DISPERSION
FROM: 02/27 19:50
TO : 02/27 21:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print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TO : 02/27 22:09
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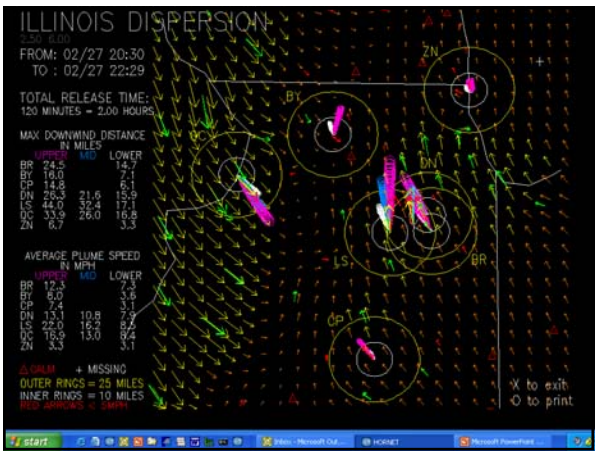
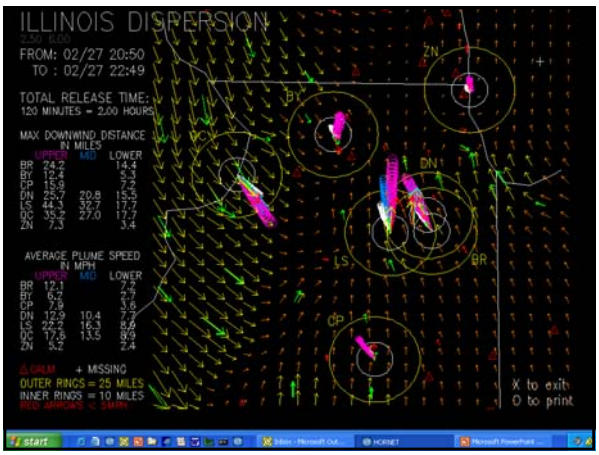
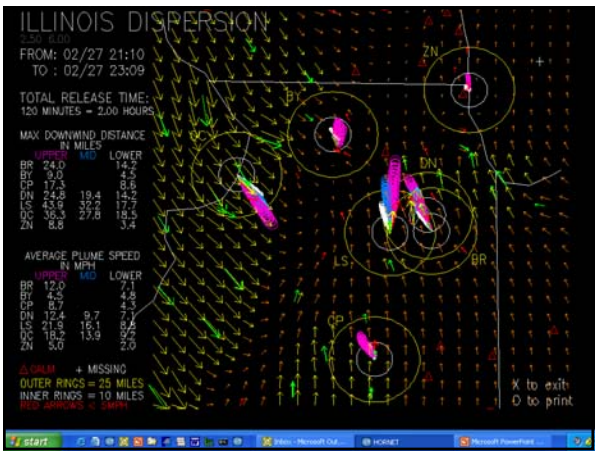
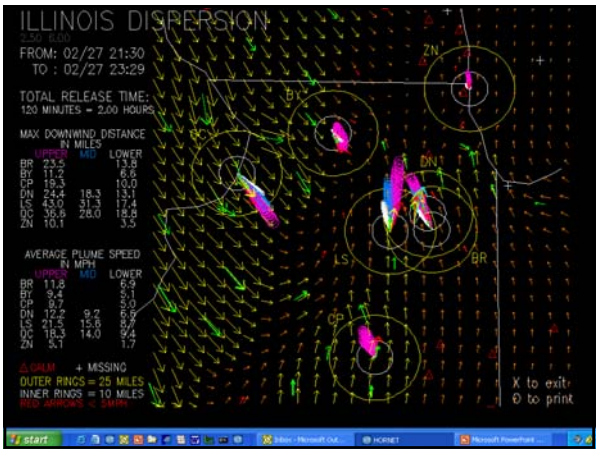
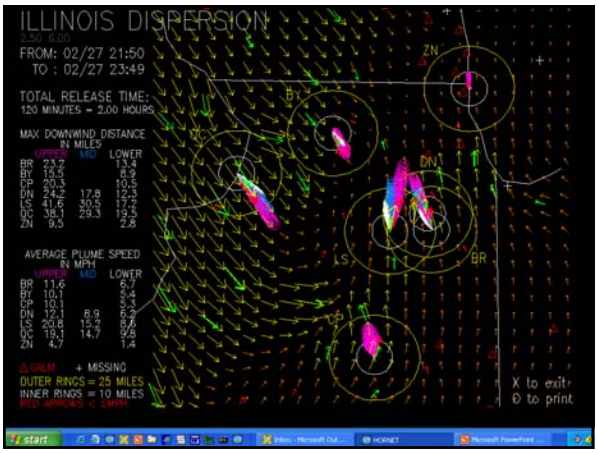
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

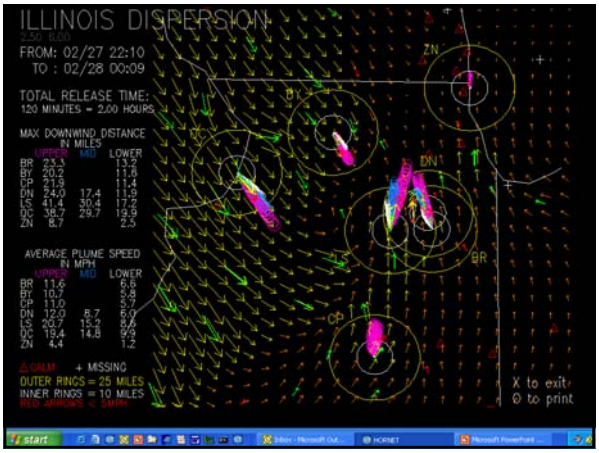

ILLINOIS DISPERSION
FROM: 02/27 20:30
TO : 02/27 22:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

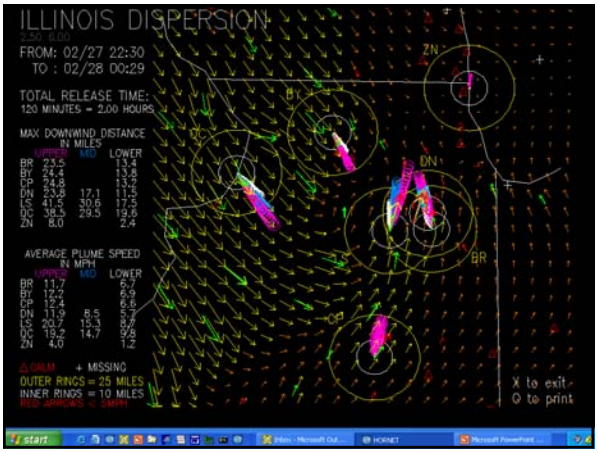

ILLINOIS DISPERSION
FROM: 02/27 20:50
TO : 02/27 22:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

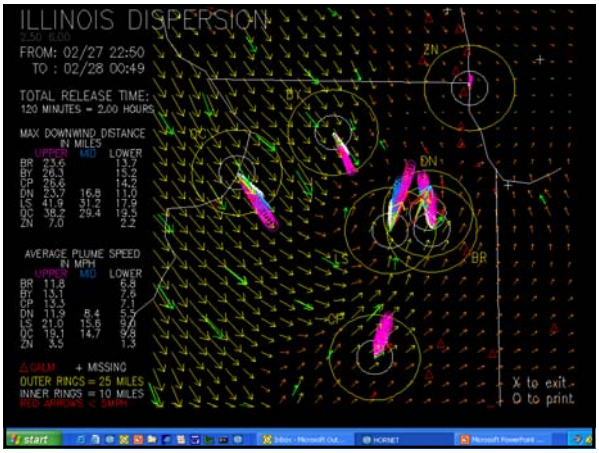

ILLINOIS DISPERSION
FROM: 02/27 21:10
TO : 02/27 23:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

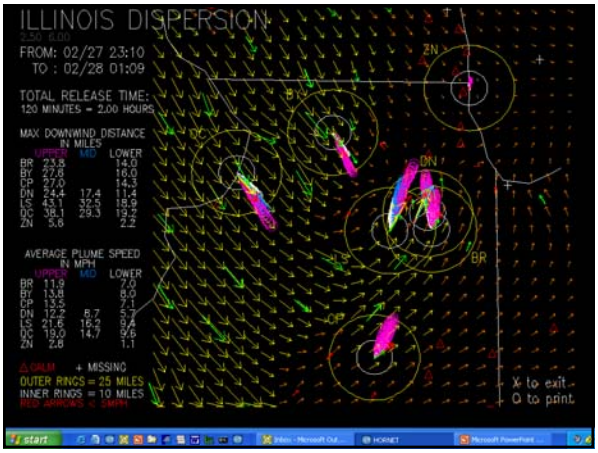

ILLINOIS DISPERSION
FROM: 02/27 21:30
TO : 02/27 23:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

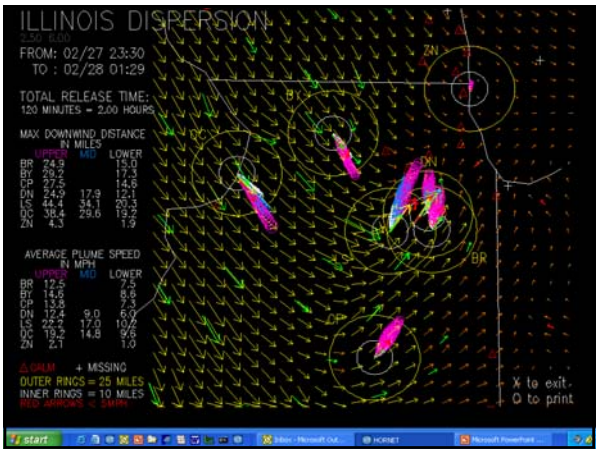

ILLINOIS DISPERSION
FROM: 02/27 21:50
TO : 02/27 23:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

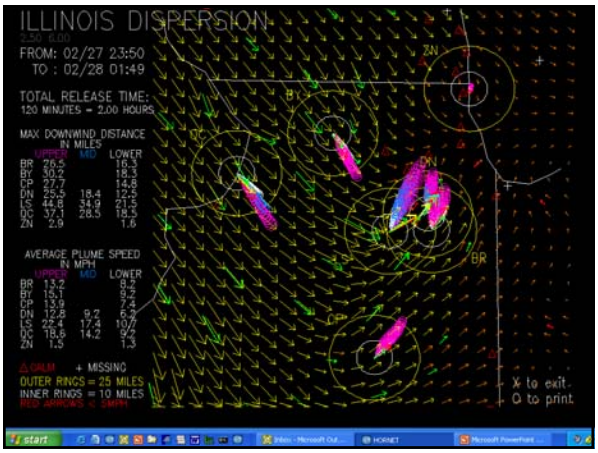

ILLINOIS DISPERSION
FROM: 02/27 22:10
TO : 02/28 00:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

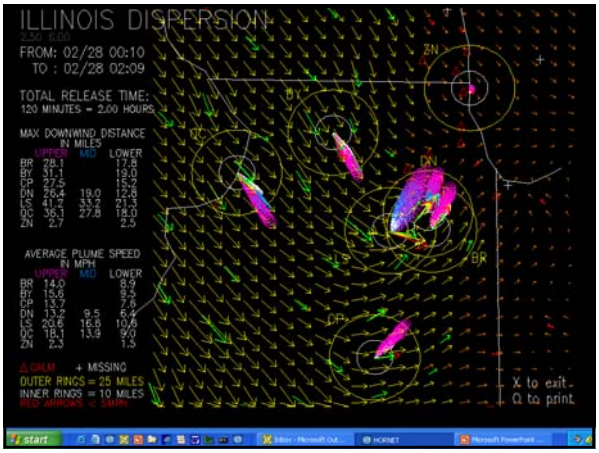

ILLINOIS DISPERSION
FROM: 02/27 22:30
TO : 02/28 00:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

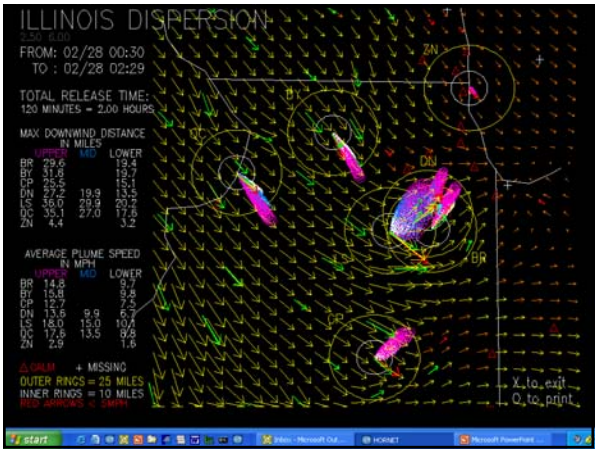

ILLINOIS DISPERSION
FROM: 02/27 22:50
TO : 02/28 00:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

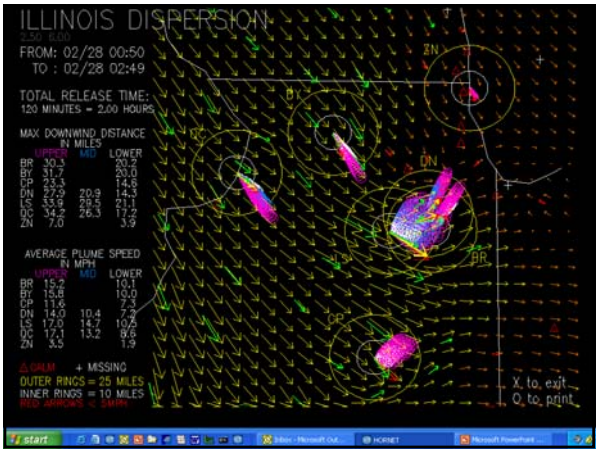

ILLINOIS DISPERSION
FROM: 02/27 23:10
TO : 02/28 01:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

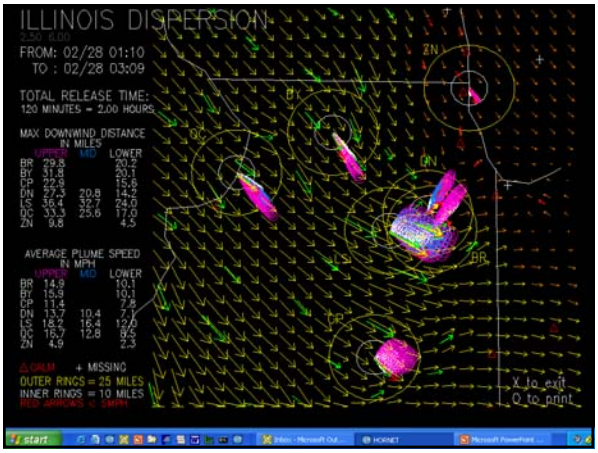

ILLINOIS DISPERSION
FROM: 02/27 23:30
TO : 02/28 01:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
Q to print

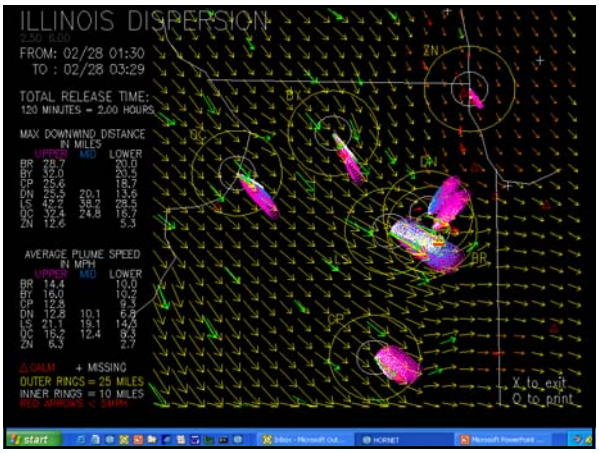

ILLINOIS DISPERSION
FROM: 02/27 23:50
TO : 02/28 01:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
Q to print

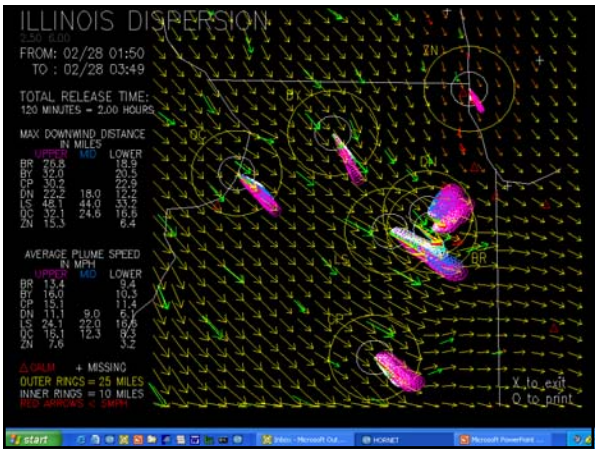

ILLINOIS DISPERSION
FROM: 02/28 00:10
TO : 02/28 02:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
Q to print

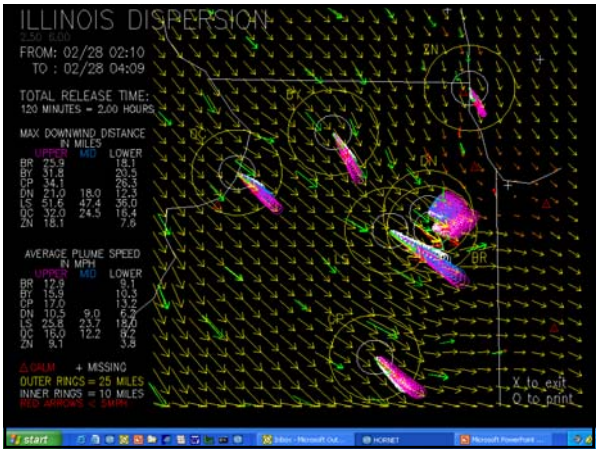

ILLINOIS DISPERSION
FROM: 02/28 00:30
TO : 02/28 02:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
Q to print

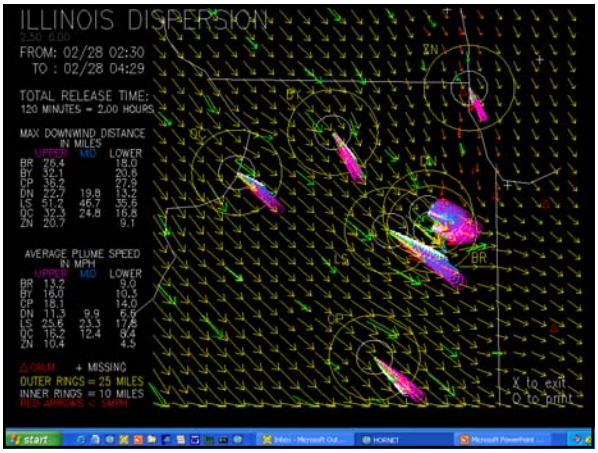

ILLINOIS DISPERSION
FROM: 02/28 00:50
TO : 02/28 02:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
Q to print

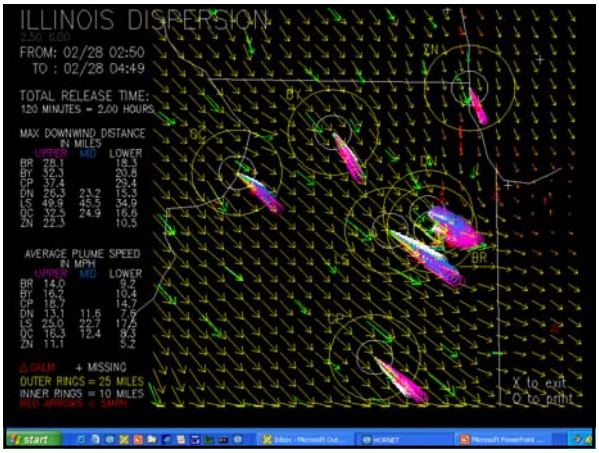

ILLINOIS DISPERSION
FROM: 02/28 01:10
TO : 02/28 03:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
Q to print

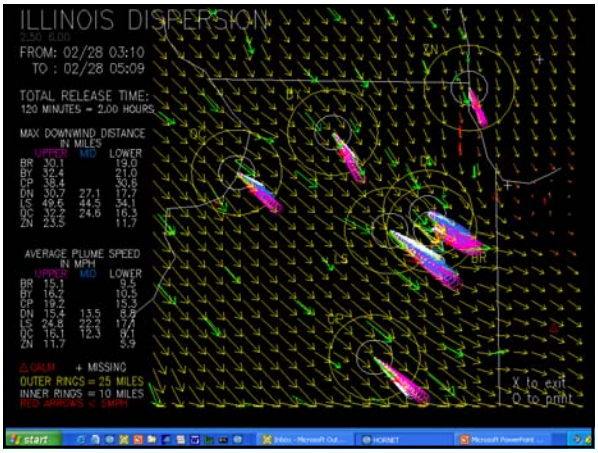

ILLINOIS DISPERSION
FROM: 02/28 01:30
TO : 02/28 03:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

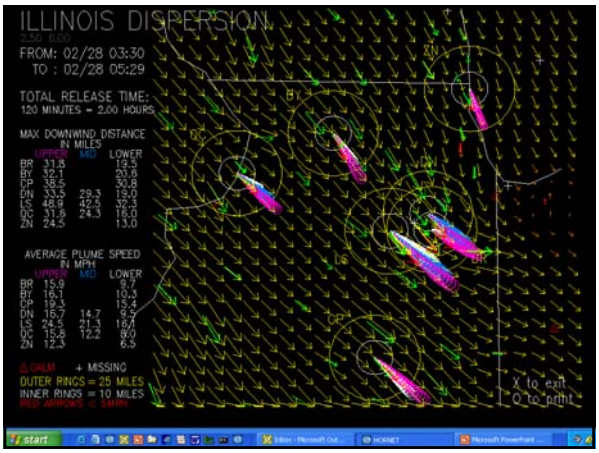

ILLINOIS DISPERSION
FROM: 02/28 01:50
TO : 02/28 03:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

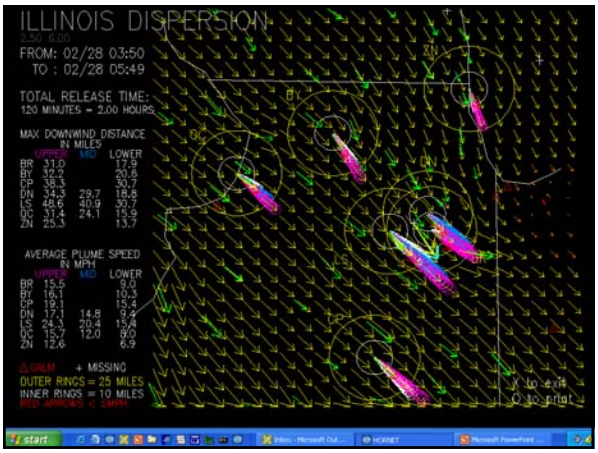

ILLINOIS DISPERSION
FROM: 02/28 02:10
TO : 02/28 04:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

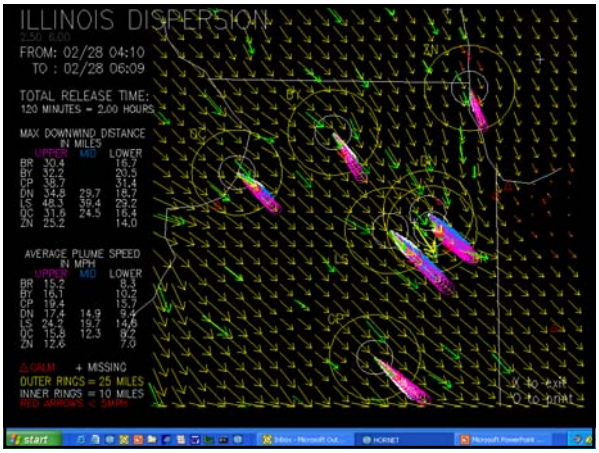

ILLINOIS DISPERSION
FROM: 02/28 02:30
TO : 02/28 04:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

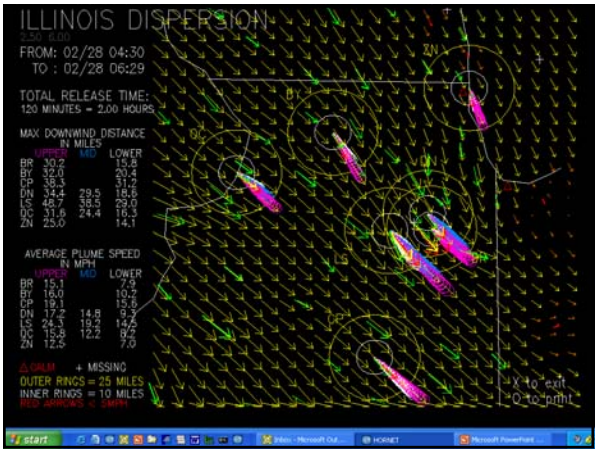

ILLINOIS DISPERSION
FROM: 02/28 02:50
TO : 02/28 04:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

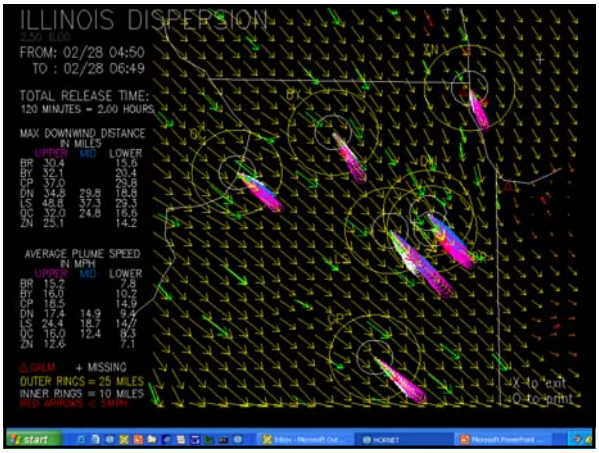

ILLINOIS DISPERSION
FROM: 02/28 03:10
TO : 02/28 05:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

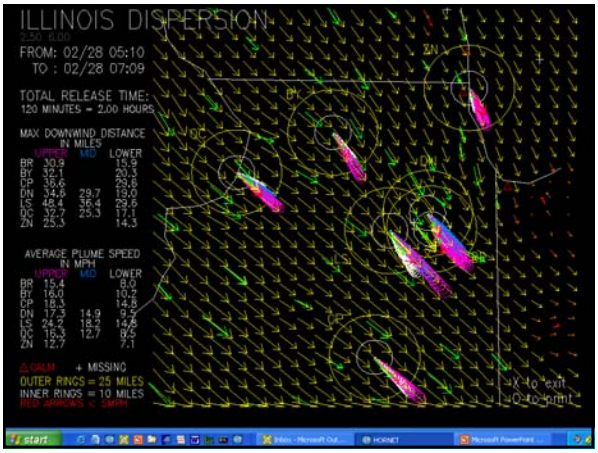

ILLINOIS DISPERSION
FROM: 02/28 03:30
TO : 02/28 05:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

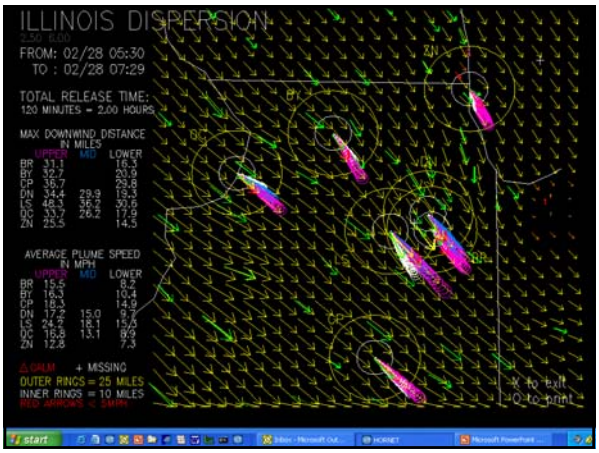

ILLINOIS DISPERSION
FROM: 02/28 03:50
TO : 02/28 05:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

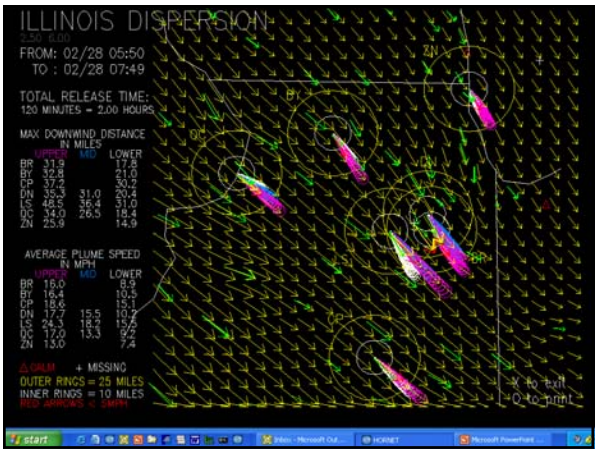

ILLINOIS DISPERSION
FROM: 02/28 04:10
TO : 02/28 06:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

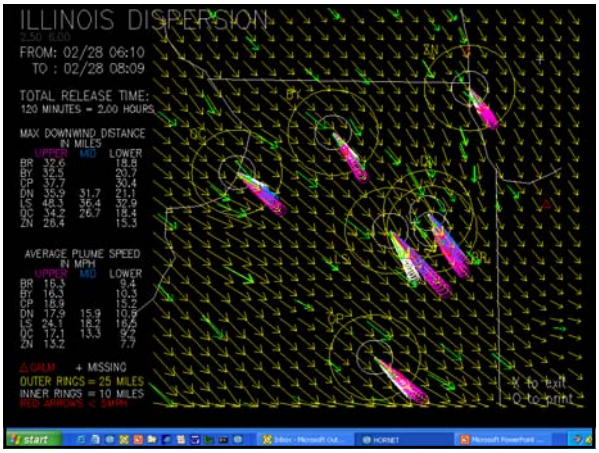

ILLINOIS DISPERSION
FROM: 02/28 04:30
TO : 02/28 06:29
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print


ILLINOIS DISPERSION
FROM: 02/28 04:50
TO : 02/28 06:49
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

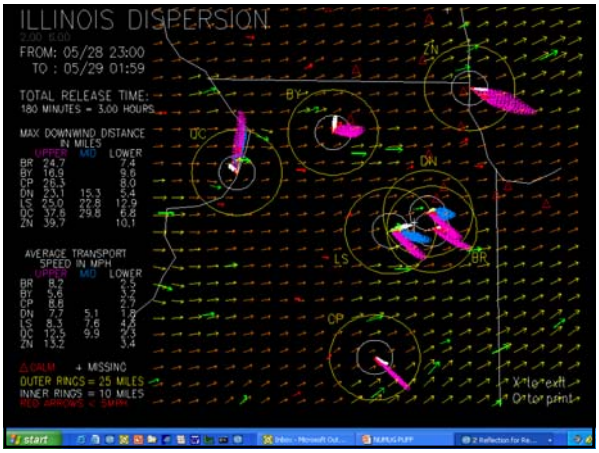

ILLINOIS DISPERSION
FROM: 02/28 05:10
TO : 02/28 07:09
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
MAX DOWNWIND DISTANCE IN MILES
AVERAGE PLUME SPEED IN MPH
+ MISSING
OUTER RINGS = 25 MILES
INNER RINGS = 10 MILES
X to exit
O to print

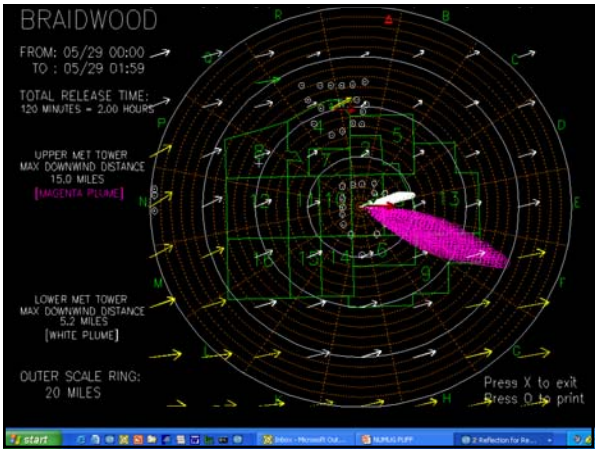


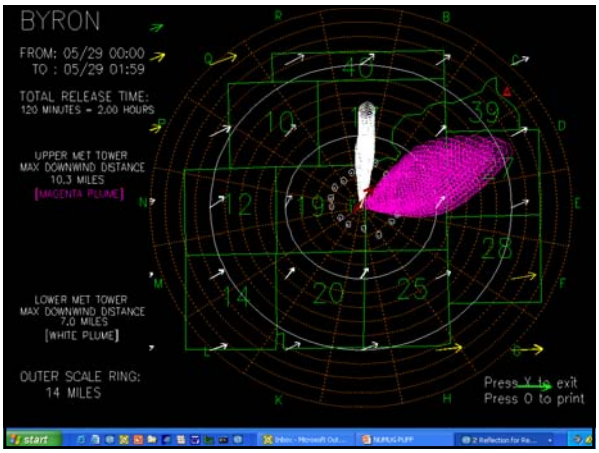


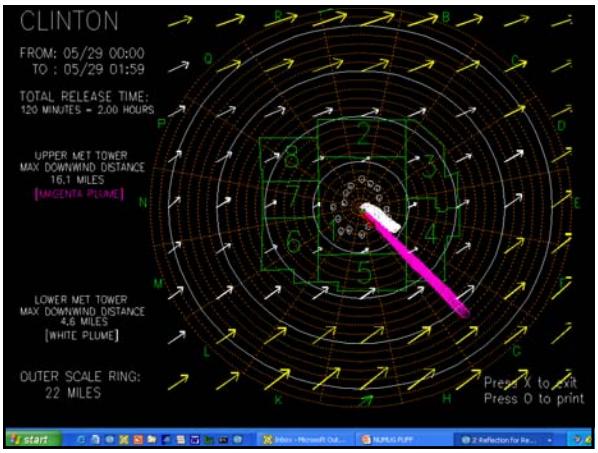


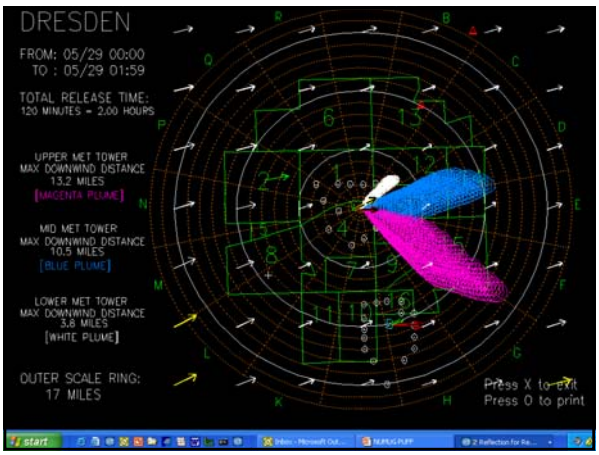
Boundary Layer Decoupling

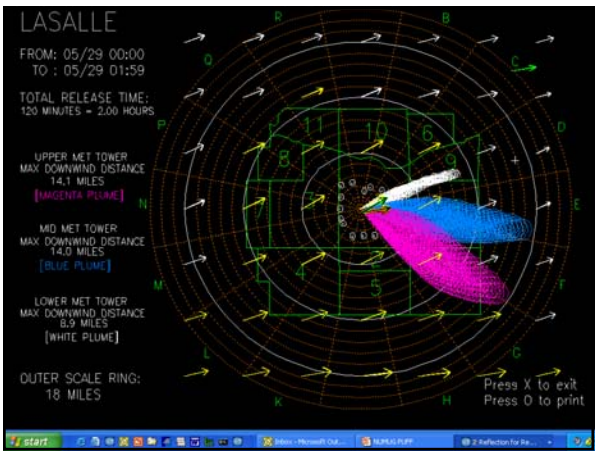


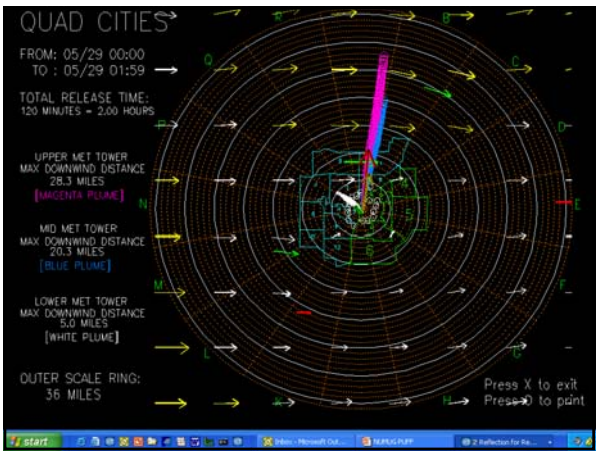



BYRON
FROM: 05/29 00:00
TO : 05/29 01:59
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
10.3 MILES
[MAGENTA PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
7.0 MILES
[WHITE PLUME]
OUTER SCALE RING:
14 MILES
Press X to exit
Press O to print


CLINTON
FROM: 05/29 00:00
TO : 05/29 01:59
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
16.1 MILES
[MAGENTA PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
4.6 MILES
[WHITE PLUME]
OUTER SCALE RING:
22 MILES
Press X to exit
Press O to print

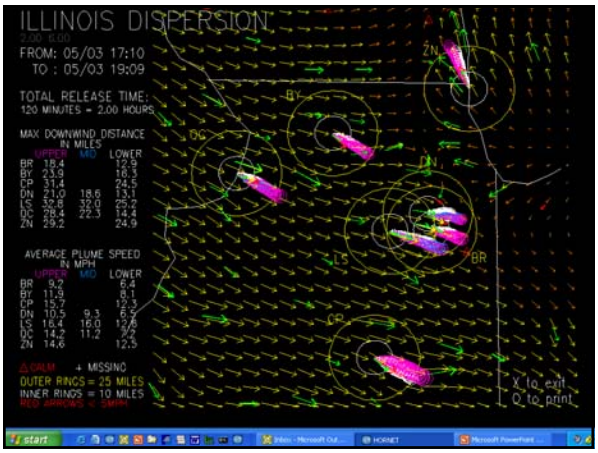

DRESDEN
FROM: 05/29 00:00
TO : 05/29 01:59
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
13.2 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
10.5 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
3.8 MILES
[WHITE PLUME]
OUTER SCALE RING:
17 MILES
Press X to exit
Press O to print

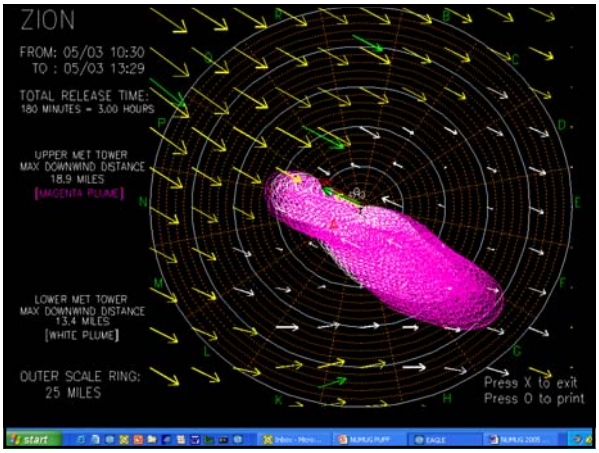

LASALLE
FROM: 05/29 00:00
TO : 05/29 01:59
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
14.1 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
14.0 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
8.9 MILES
[WHITE PLUME]
OUTER SCALE RING:
18 MILES
Press X to exit
Press O to print


QUAD CITIES
FROM: 05/29 00:00
TO : 05/29 01:59
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
28.3 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
20.3 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
5.0 MILES
[WHITE PLUME]
OUTER SCALE RING:
36 MILES
Press X to exit
Press O to print

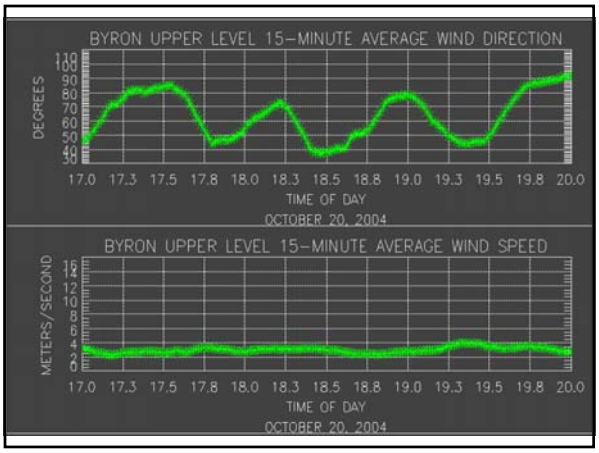
ZION
FROM: 05/29 00:00
TO : 05/29 01:59
TOTAL RELEASE TIME:
120 MINUTES = 2.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
27.1 MILES
[MAGENTA PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
7.0 MILES
[WHITE PLUME]
OUTER SCALE RING:
35 MILES
Press X to exit
Press O to print

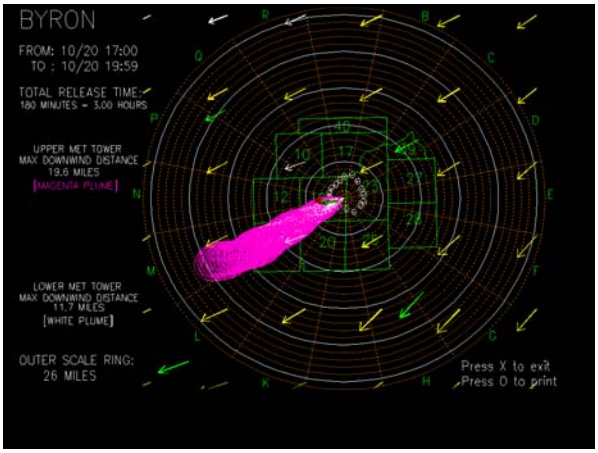
Lake Michigan Induced Flow



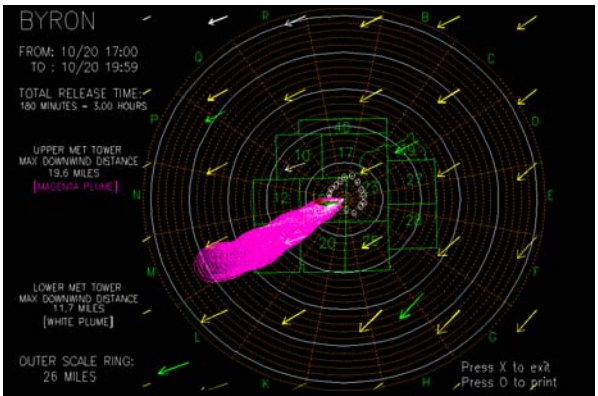


Development of "Hot Spots"

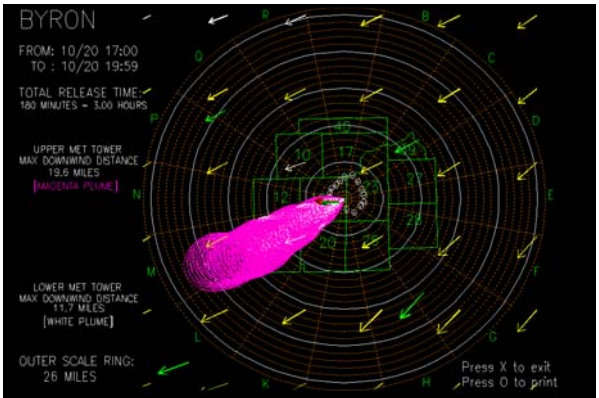




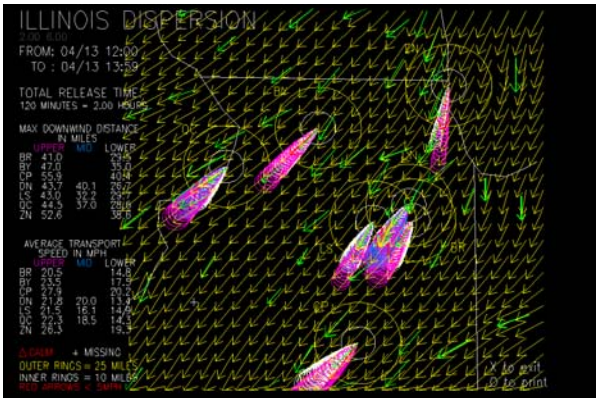
Horizontal Stability
Versus
Vertical stability



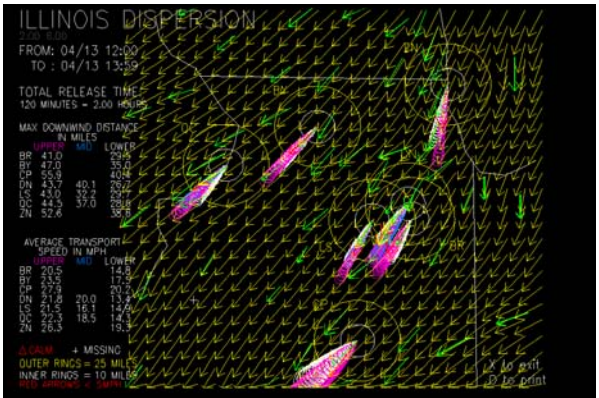
Vertical Stability



Horizontal Stability

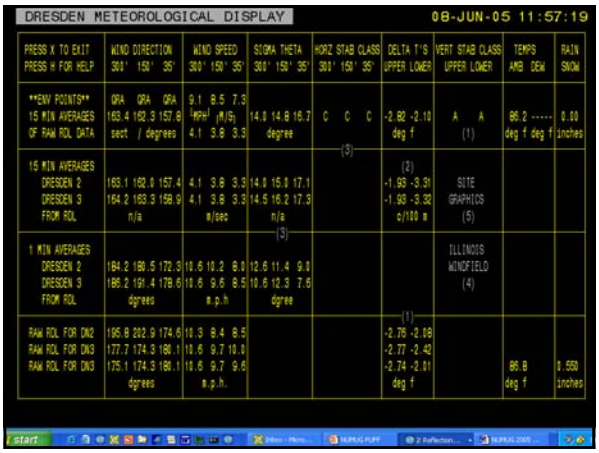


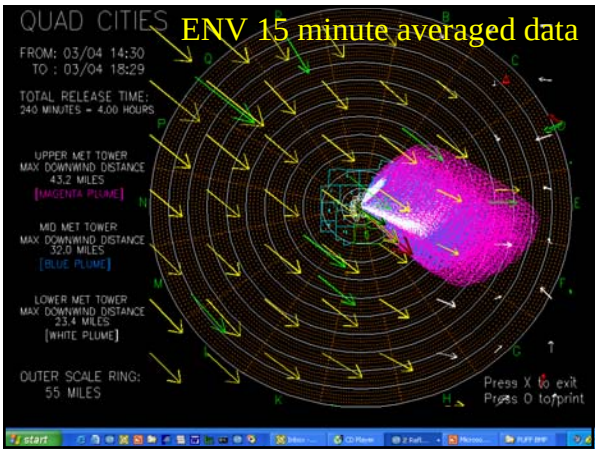
Vertical Stability

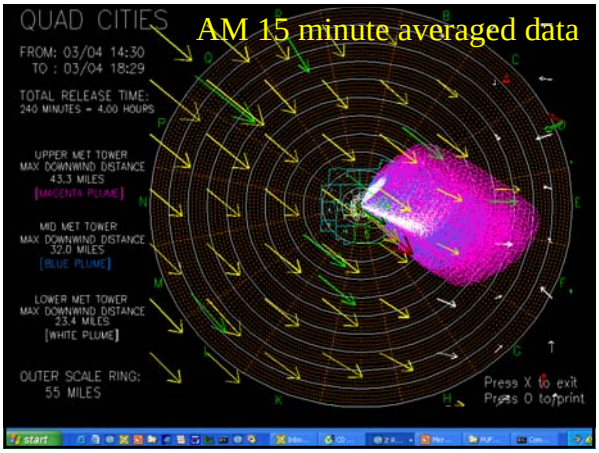


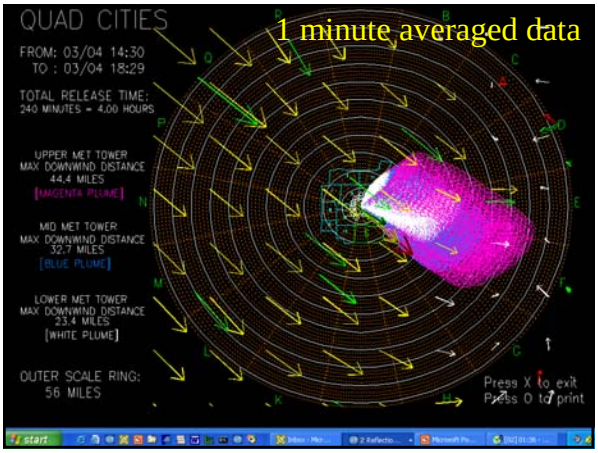
Horizontal Stability

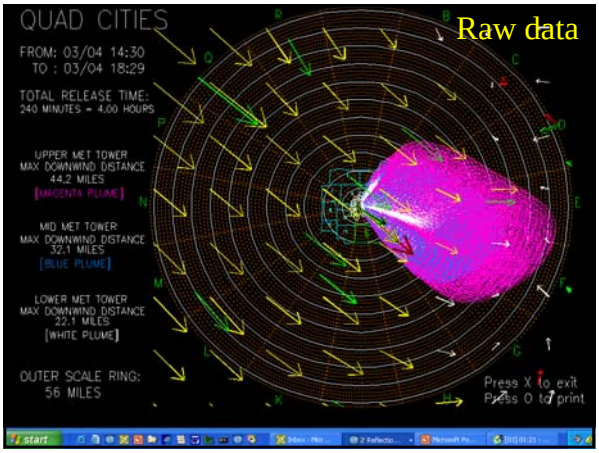
Different
Data
Sources



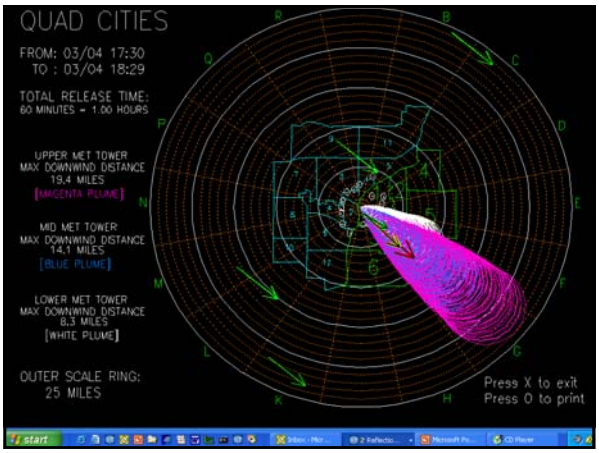


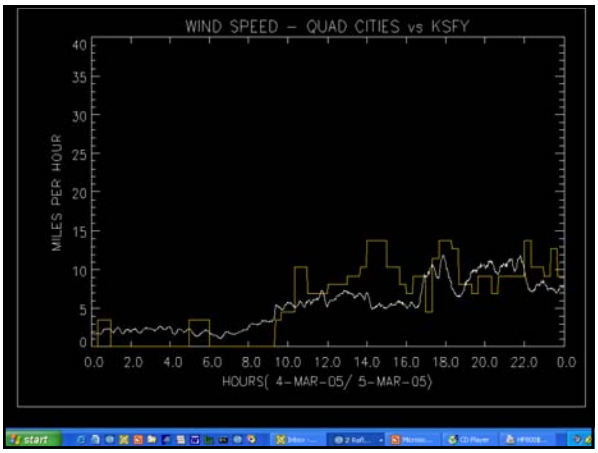


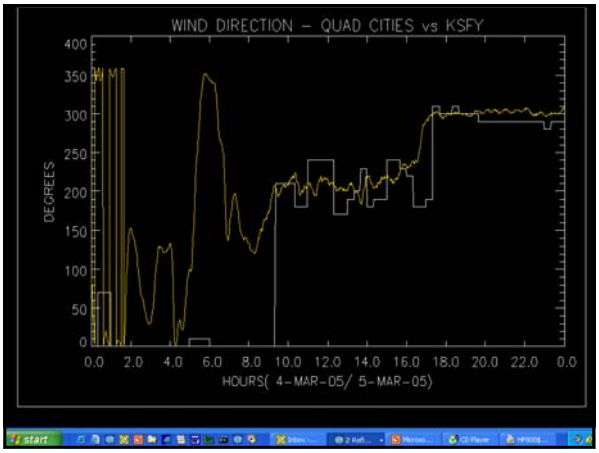


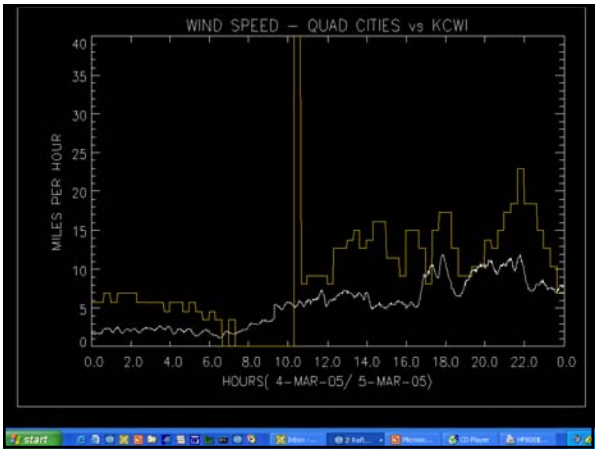


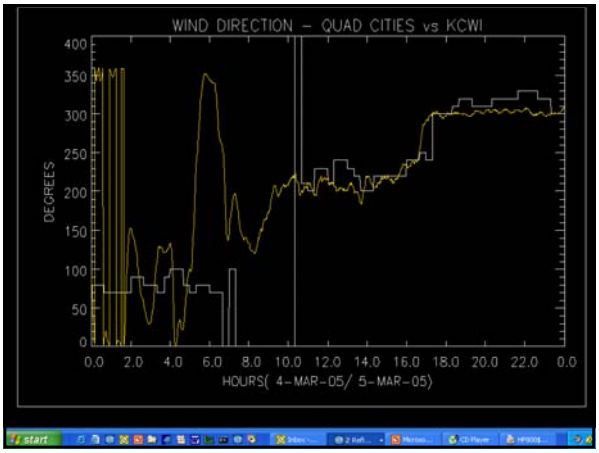
Ongoing Data Comparisons Between METAR and NPP met data


QUAD CITIES
FROM: 03/04 17:30
TO : 03/04 18:29
TOTAL RELEASE TIME:
60 MINUTES = 1.00 HOURS
UPPER MET TOWER
MAX DOWNWIND DISTANCE
19.4 MILES
[MAGENTA PLUME]
MID MET TOWER
MAX DOWNWIND DISTANCE
14.1 MILES
[BLUE PLUME]
LOWER MET TOWER
MAX DOWNWIND DISTANCE
8.3 MILES
[WHITE PLUME]
OUTER SCALE RING:
25 MILES
Press X to exit
Press O to print


WIND SPEED – QUAD CITIES vs KSFY
MILES PER HOUR
HOURS(4-MAR-05/ 5-MAR-05)


WIND DIRECTION – QUAD CITIES vs KSFY
DEGREES
HOURS(4-MAR-05/ 5-MAR-05)


WIND SPEED – QUAD CITIES vs KCWI
MILES PER HOUR
HOURS(4-MAR-05/ 5-MAR-05)


WIND DIRECTION – QUAD CITIES vs KCWI
DEGREES
HOURS(4-MAR-05/ 5-MAR-05)