APPENDIX E. MAP DISPLAYS FOR THE NORTHEASTERN U.S.

In this appendix, map displays are provided for individual ozone-episode days occurring in the northeastern U.S. The calculations were carried out using the NO$_x$ version of the SP algorithm (see Section 2). The expected bias in the calculated extent of reaction caused by the bias of the "NO$_x$" data is discussed in Section 5. The bias is negligible for extent less than 0.5. When the true extent approaches one, the displayed values overestimate the true extent by 0.1 to 0.2 units.

One or more typical ozone episodes are shown for each region. A common display format is used for all days. On each map, the extent of reaction is indicated for each daytime hour by the shading (see legends). Circle wedge sizes are proportional to the hourly ozone concentrations and the hour of the ozone peak is marked according to the positions on a conventional clock (see legends). In some cases, one or more overlapping sites have been displaced from their actual locations. A line has been drawn from the displaced to actual positions.
EQUATION: Revised, NOy Version (alpha = 0.667, beta = 19,000, O3(0) = 40,000, no NOy correction)

PEAK OZONE:

- 50 pptv
- 100 pptv
- 150 pptv
- 200 pptv
- 250 pptv

EXTENT
- Insufficient Data
- 0 to .50
- .51 to .80
- .81 to .95
- .96 to 1.0

SHADING
- Blank
- White
- Light Gray
- Medium Gray
- Black
NARSTO-NORTHEAST
15 Jul 1995

EQUATION: Revised, NOy Version (alpha = 0.667, beta = 19,000, O3(x) = 40,000, no NOy correction)

PEAK OZONE:

60 ppb 100 ppb 150 ppb 200 ppb 250 ppb

EXTENT
Insufficient Data .0 - .50 .51 - .80 .81 - .95 .96 - 1.0

SHADING
Blank White Light Gray Medium Gray Black

noon
3pm
9am
7am
6pm
time of peak ozone

SCALE
51.6918 km
EQUATION: Revised, NOy Version (alpha = 0.667, beta = 19.000, O3(0) = 40.000, no NOy correction)

PEAK OZONE:

- 60 ppb
- 100 ppb
- 150 ppb
- 200 ppb
- 250 ppb

EXTENT
- Insufficient Data: Blank
- .0 - .50: White
- .51 - .80: Light Gray
- .81 - .95: Medium Gray
- .96 - 1.0: Black

SHADING
EQUATION: Revised, NOy Version (alpha = 0.667, beta = 19,000, O3(0) = 40,000, no NOy correction)

PEAK OZONE:

- 50 ppb
- 100 ppb
- 150 ppb
- 200 ppb
- 250 ppb

EXTENT
Insufficient Data
- Blank
- .0 - .50
- .51 - .80
- .81 - .95
- .96 - 1.0

SHADING
- Blank
- White
- Light Gray
- Medium Gray
- Black

SCALE
43.0765 km

Time of peak ozone: 9am to 3pm
EQUATION: Revised, NOy Version (alpha = 0.667, beta = 19.000, O3(0) = 40.000, no NOy correction)

PEAK OZONE:

- 50 ppb
- 100 ppb
- 150 ppb
- 200 ppb
- 250 ppb

EXTENT
Insufficient Data
0.0 - 0.50
0.51 - 0.80
0.81 - 0.95
0.96 - 1.0

SHADING
Blank
White
Light Gray
Medium Gray
Black
NARSTO-NORTHEAST
15 Jul 1995

EQUATION: Revised, NOy Version (alpha = 0.667, beta = 19,000, O3(0) = 40,000, no NOy correction)

PEAK OZONE:

- 60 ppb
- 100 ppb
- 150 ppb
- 200 ppb
- 250 ppb

EXTENT
- Insufficient Data
- .0 - .50
- .51 - .80
- .81 - .95
- .96 - 1.0

SHADING
- Blank
- White
- Light Gray
- Medium Gray
- Black

SCALE
51.6918 km

9am 12pm 3pm 6pm
7am noon time of peak ozone
NARSTO-NORTHEAST
15 Jul 1995

EQUATION: Revised, NOy Version (alpha = 0.667, beta = 19,000, O3(0) = 40,000, no NOy correction)

PEAK OZONE:

50 ppb
100 ppb
150 ppb
200 ppb
250 ppb

EXTENT
Insufficient Data
0 - .50
.51 - .80
.81 - .95
.96 - 1.0

SHADING
Blank
White
Light Gray
Medium Gray
Black

noon
3pm
9am
6pm
time of peak ozone

SCALE
51.6918 km