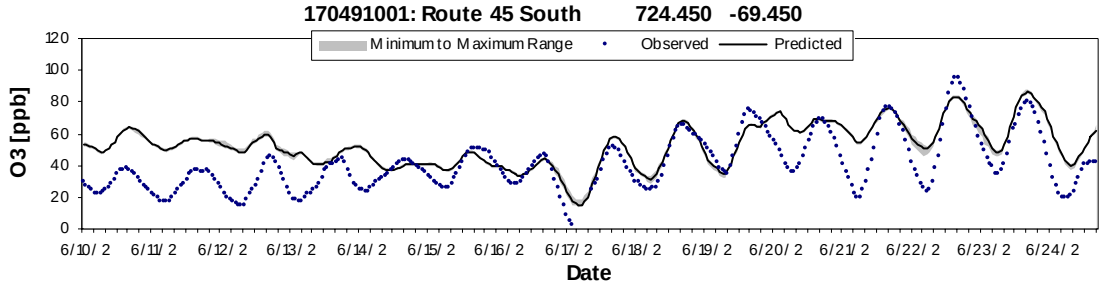
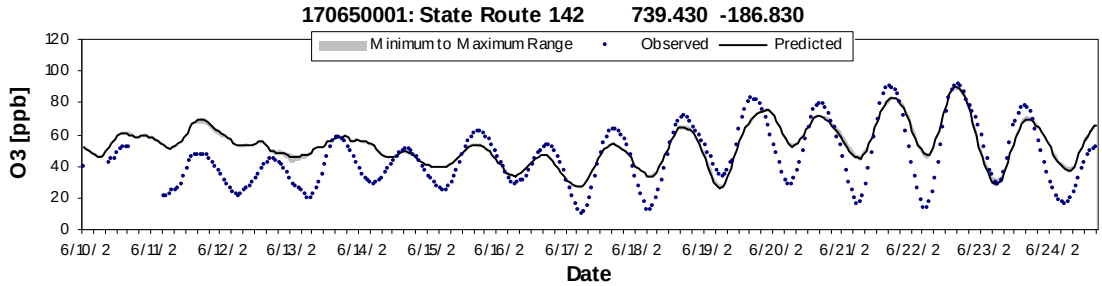
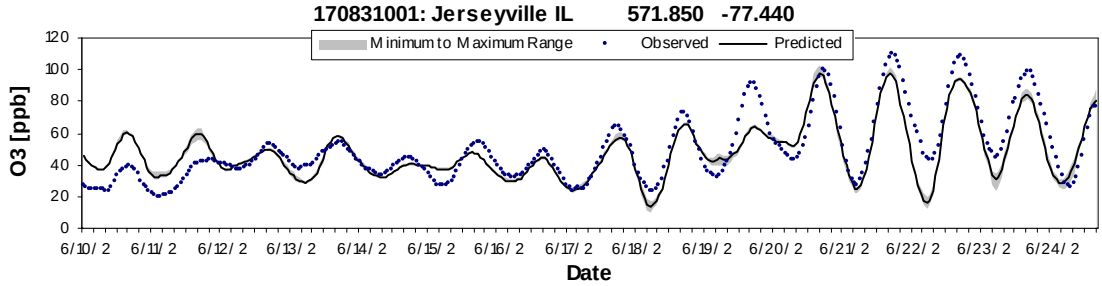
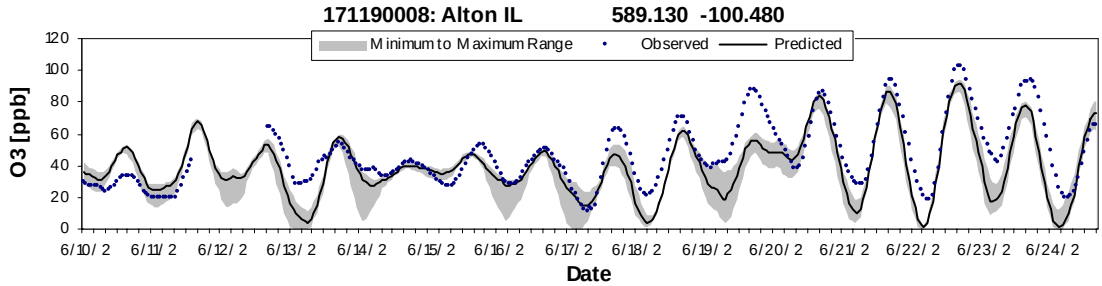
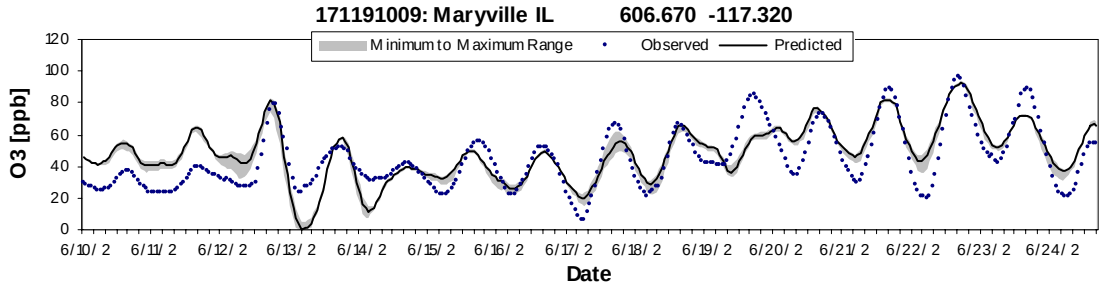
Appendix D-4: Time series of Predicted and Observed 8-hour Ozone


170491001: Route 45 South 724.450 -69.450
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


170650001: State Route 142 739.430 -186.830
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


170831001: Jerseyville IL 571.850 -77.440
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


171190008: Alton IL 589.130 -100.480
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


171191009: Maryville IL 606.670 -117.320
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

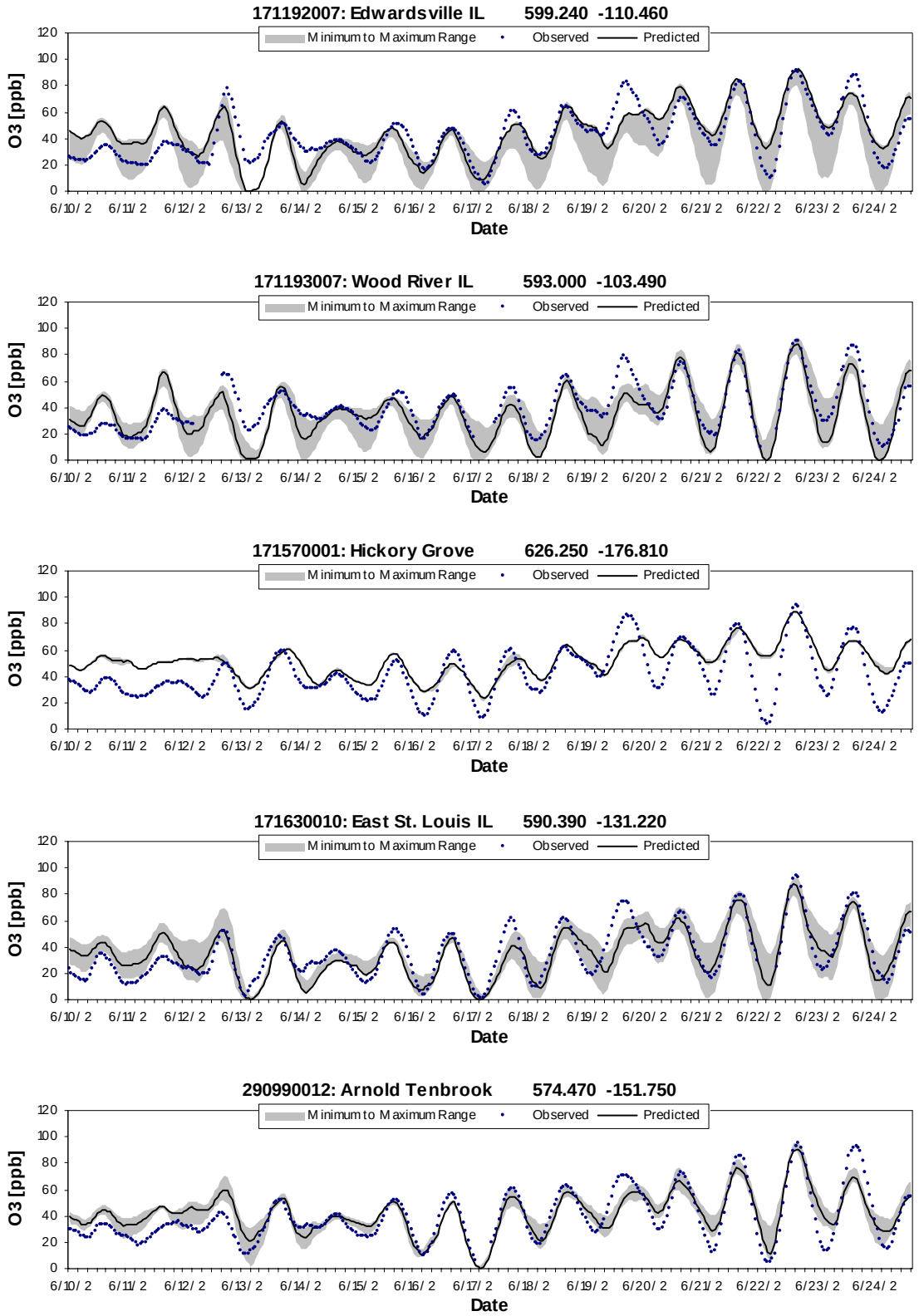
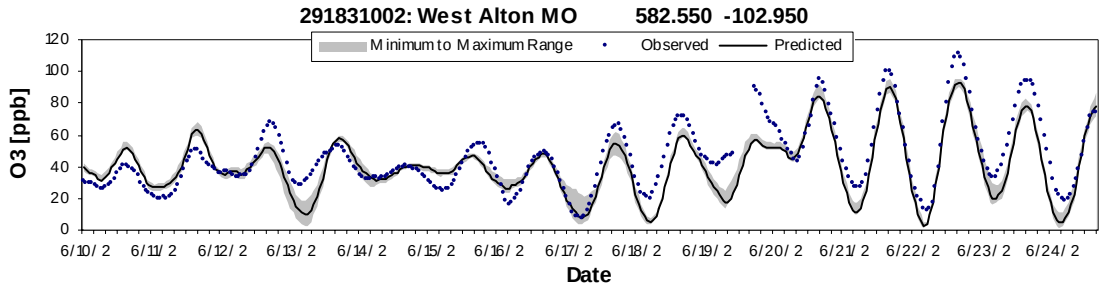
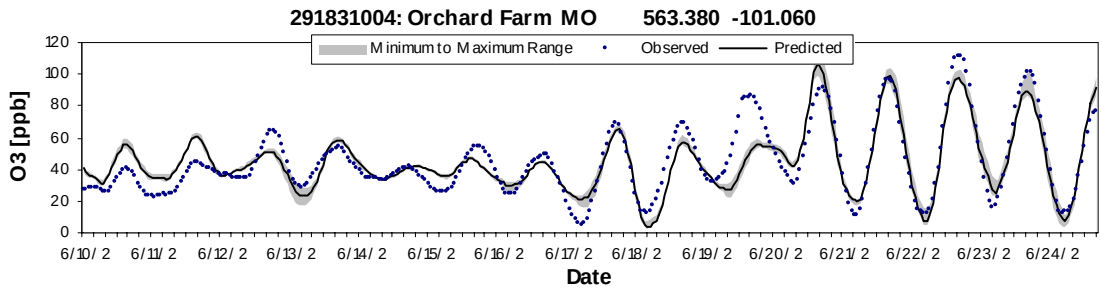
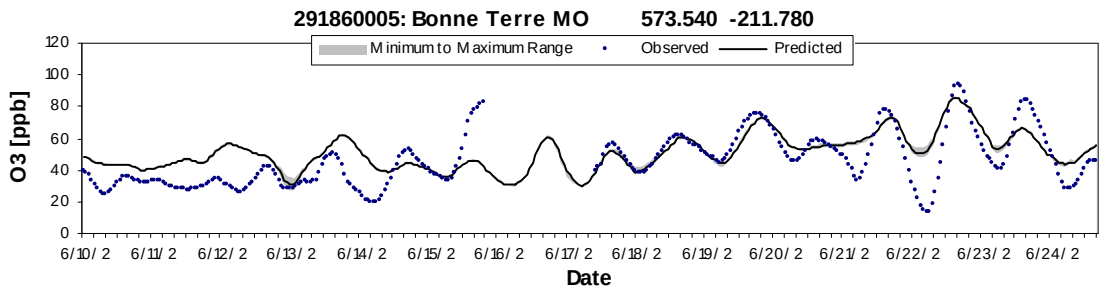
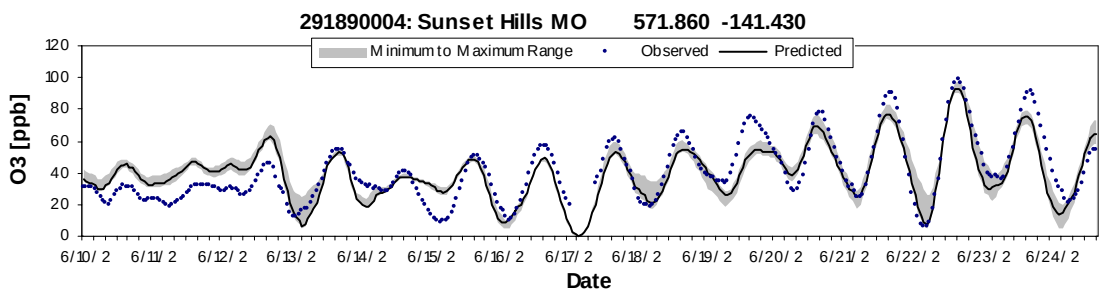


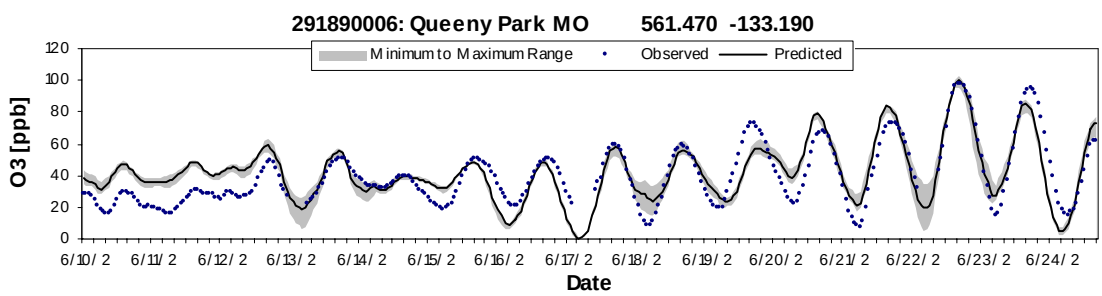
Figure D-93: Observed (blue dots) and modeled (solid black line) 8-hour average ozone time series for St. Louis Non-Attainment Area monitors for 4 km grid. Summer 2002, Episode 1.

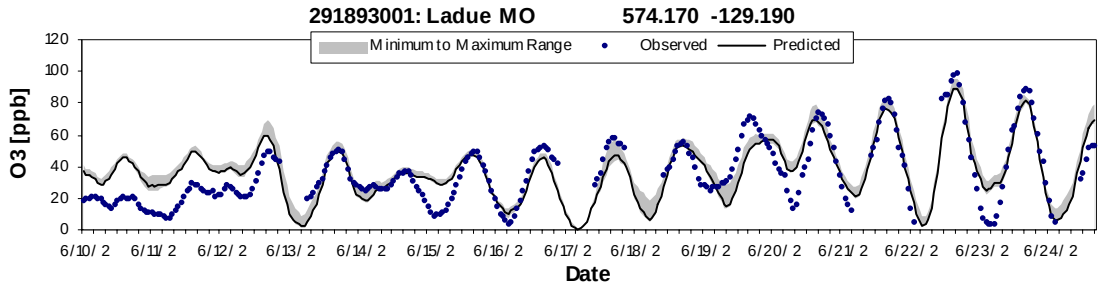

291831002: West Alton MO 582.550 -102.950
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

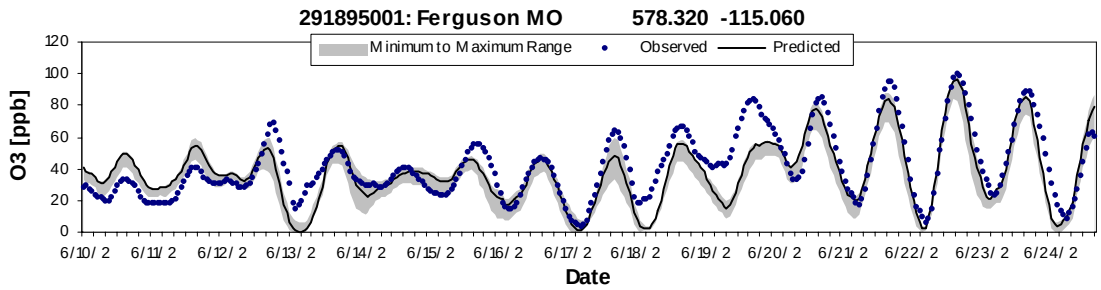

291831004: Orchard Farm MO 563.380 -101.060
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

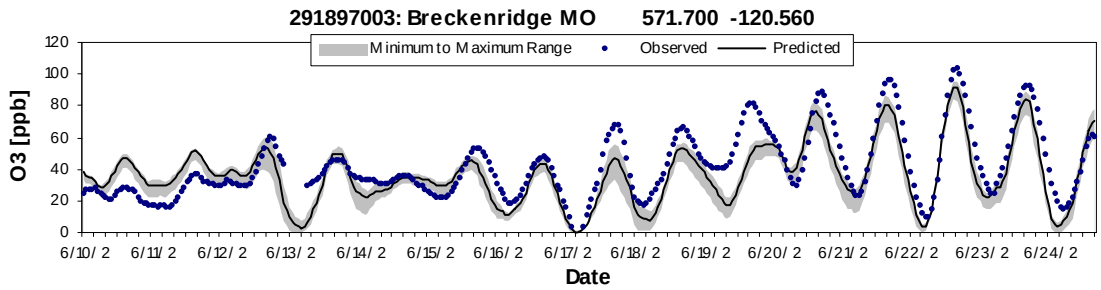

291860005: Bonne Terre MO 573.540 -211.780
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

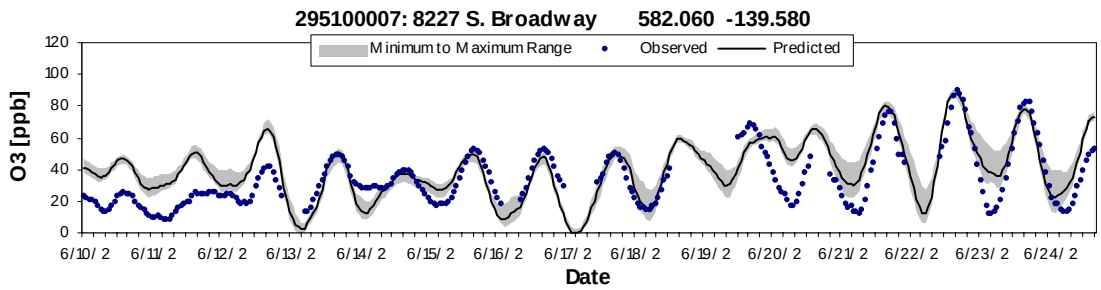

291890004: Sunset Hills MO 571.860 -141.430
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

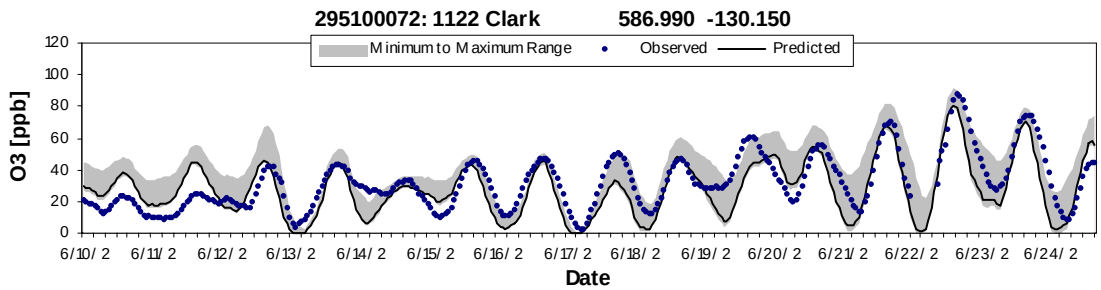

291890006: Queeny Park MO 561.470 -133.190
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291893001: Ladue MO 574.170 -129.190
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291895001: Ferguson MO 578.320 -115.060
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291897003: Breckenridge MO 571.700 -120.560
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


295100007: 8227 S. Broadway 582.060 -139.580
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


295100072: 1122 Clark 586.990 -130.150
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

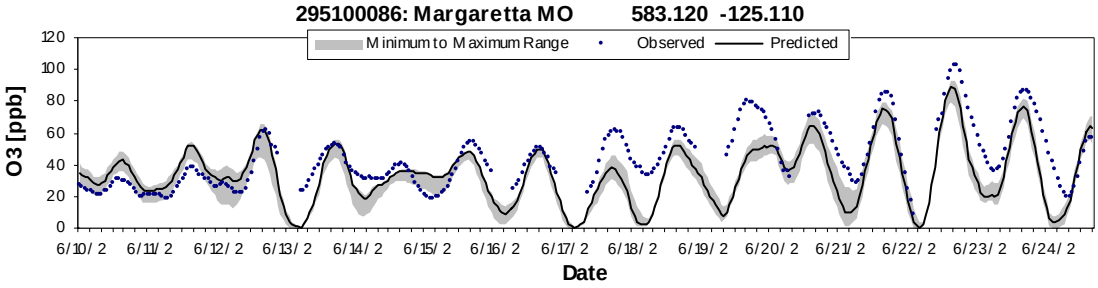
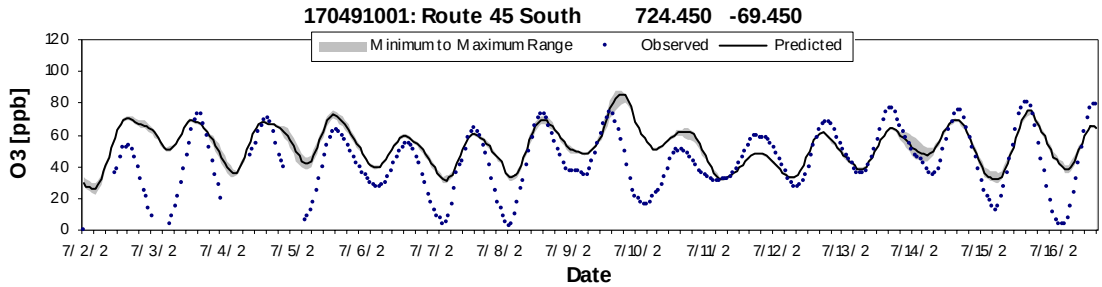
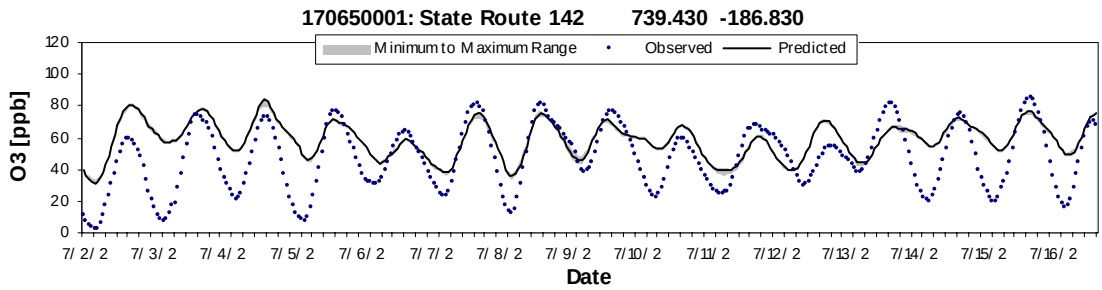
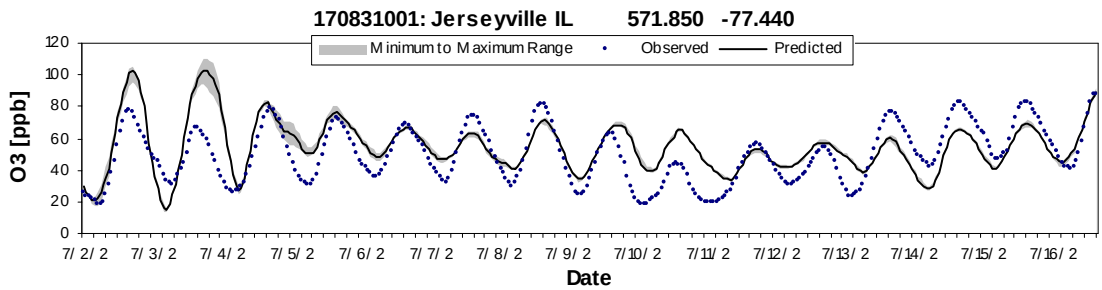
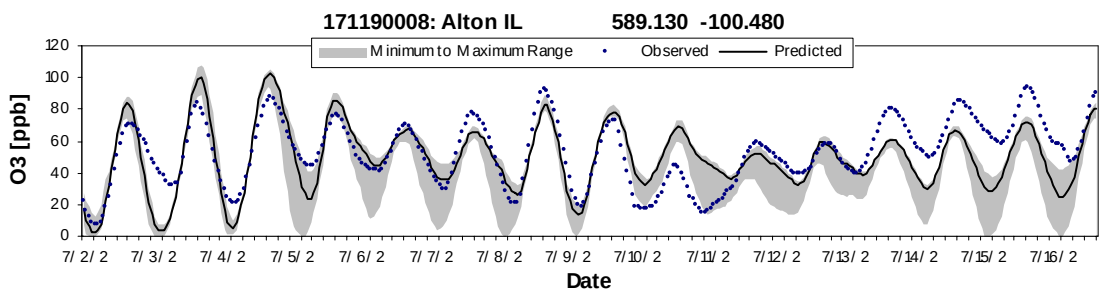


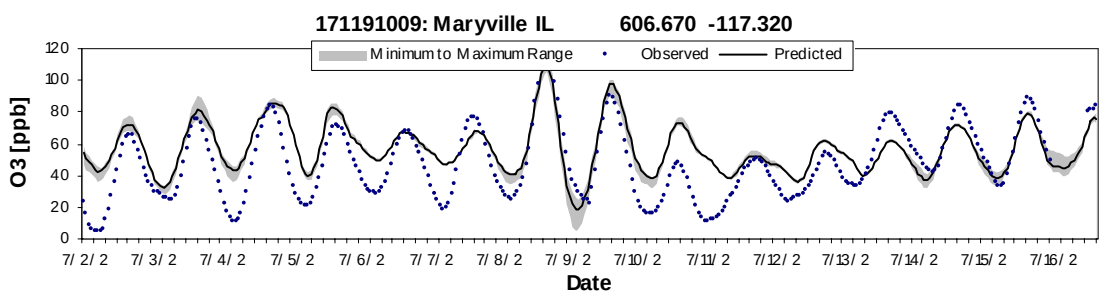
Figure D-96: Observed (blue dots) and modeled (solid black line) 8-hour average ozone time series for St. Louis Non-Attainment Area monitors for 4 km grid. Summer 2002, Episode 1.

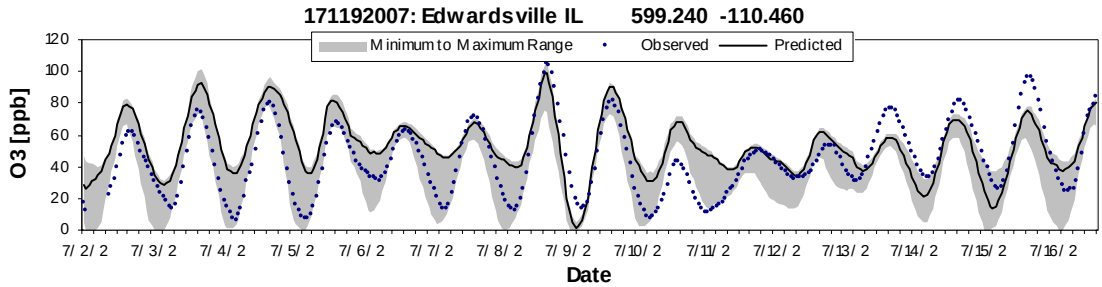

170491001: Route 45 South 724.450 -69.450
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

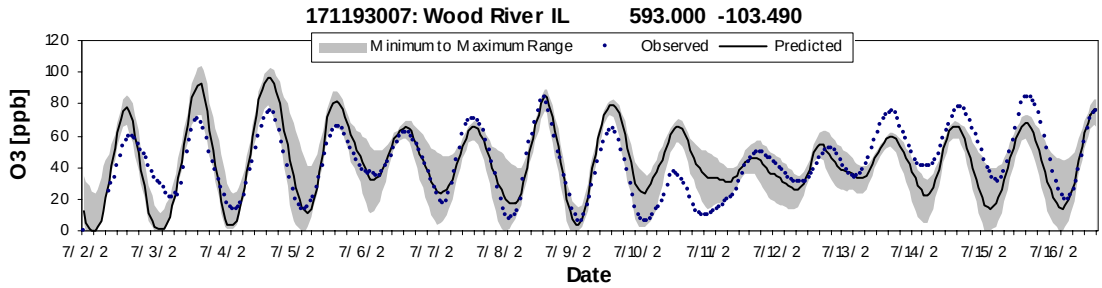

170650001: State Route 142 739.430 -186.830
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

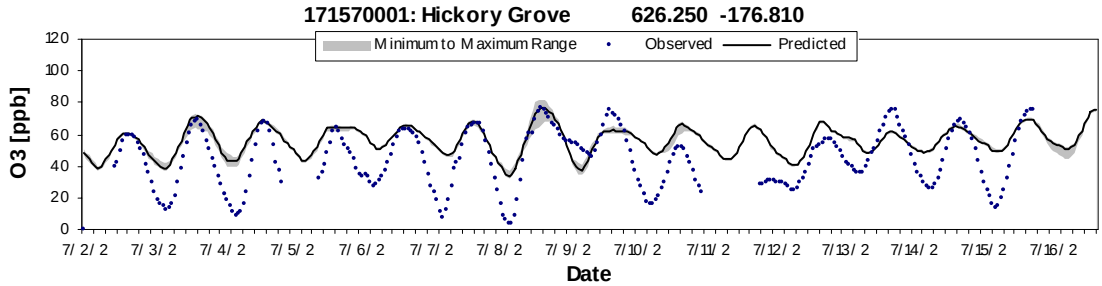

170831001: Jerseyville IL 571.850 -77.440
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

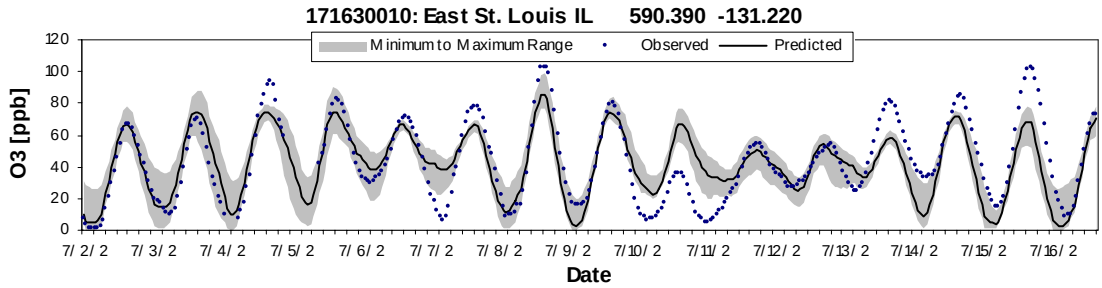

171190008: Alton IL 589.130 -100.480
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

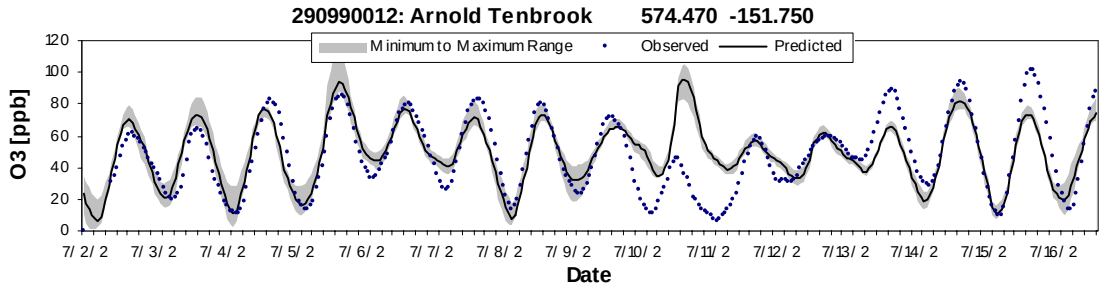

171191009: Maryville IL 606.670 -117.320
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

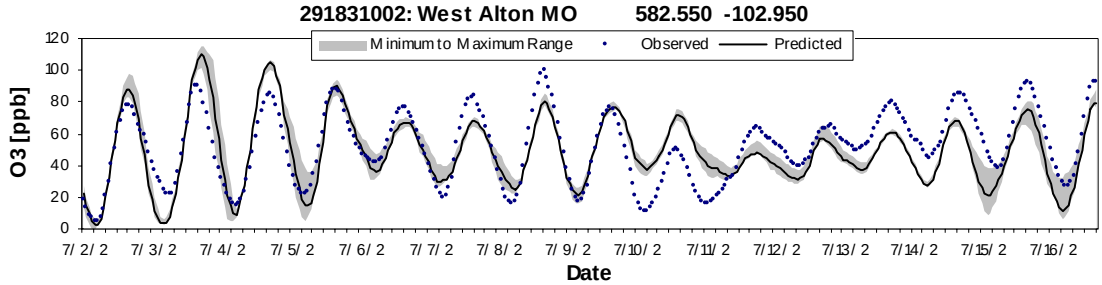

171192007: Edwardsville IL 599.240 -110.460
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

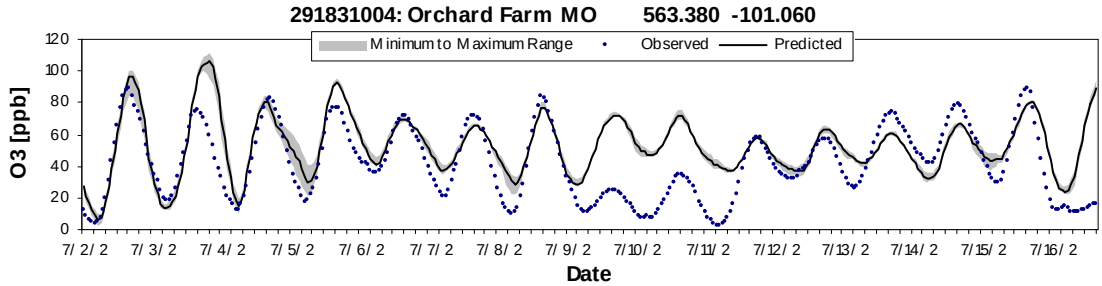

171193007: Wood River IL 593.000 -103.490
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

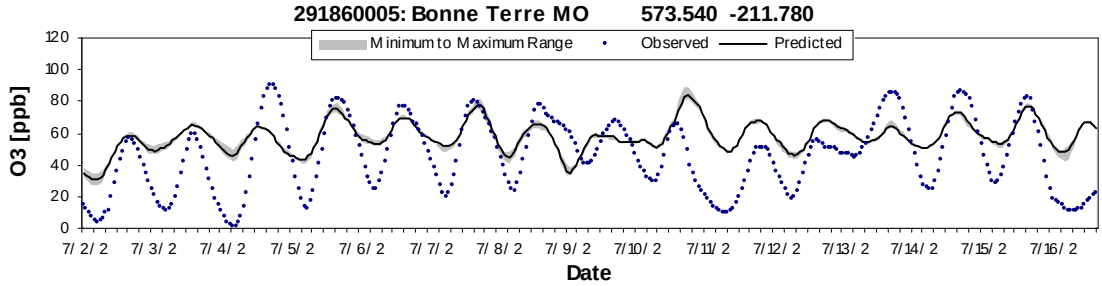

171570001: Hickory Grove 626.250 -176.810
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

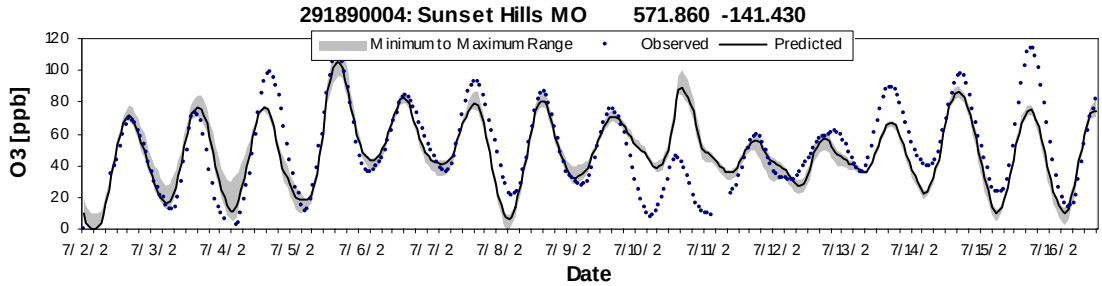

171630010: East St. Louis IL 590.390 -131.220
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

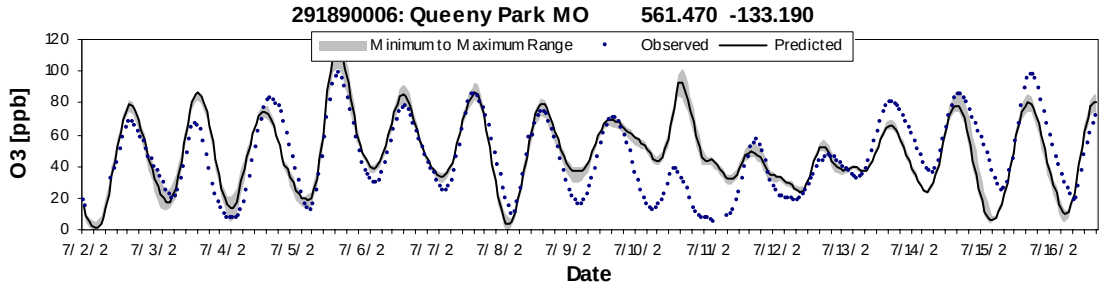

290990012: Arnold Tenbrook 574.470 -151.750
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

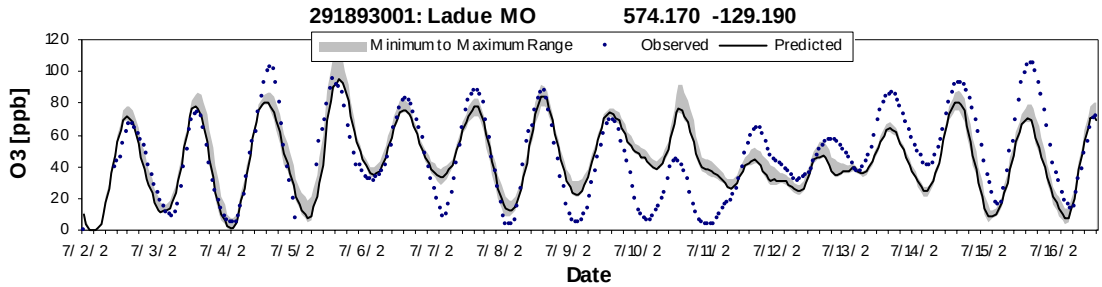

291831002: West Alton MO 582.550 -102.950
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

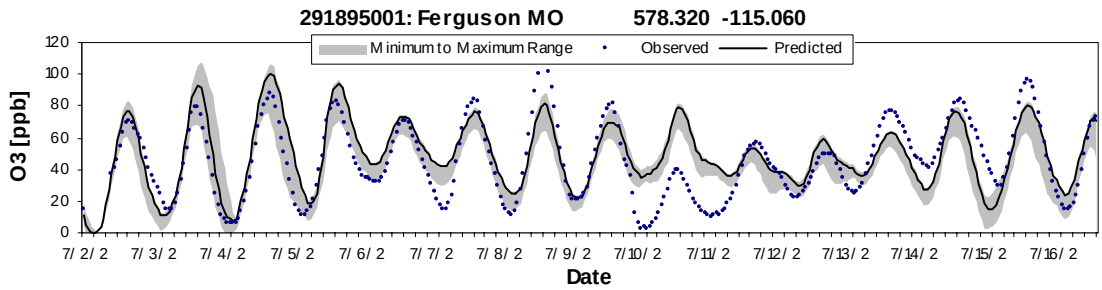

291831004: Orchard Farm MO 563.380 -101.060
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

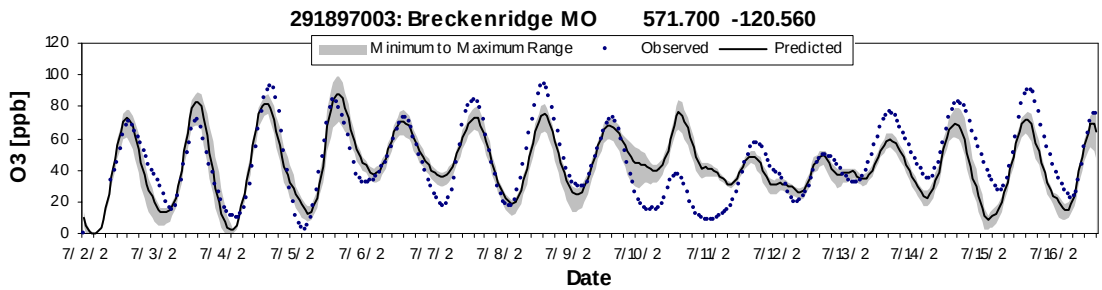

291860005: Bonne Terre MO 573.540 -211.780
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

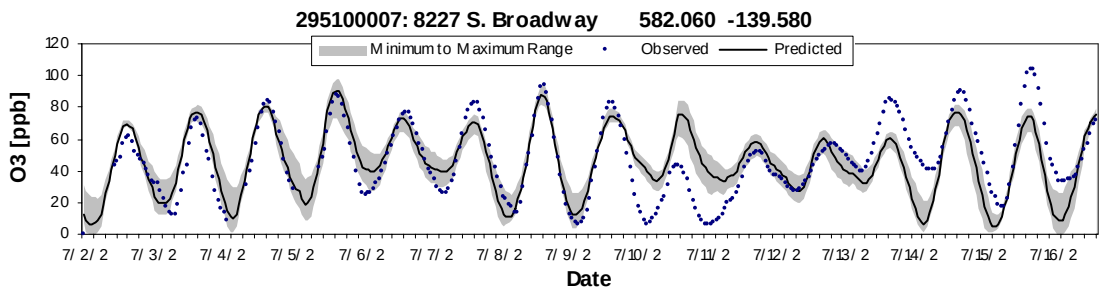

291890004: Sunset Hills MO 571.860 -141.430
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

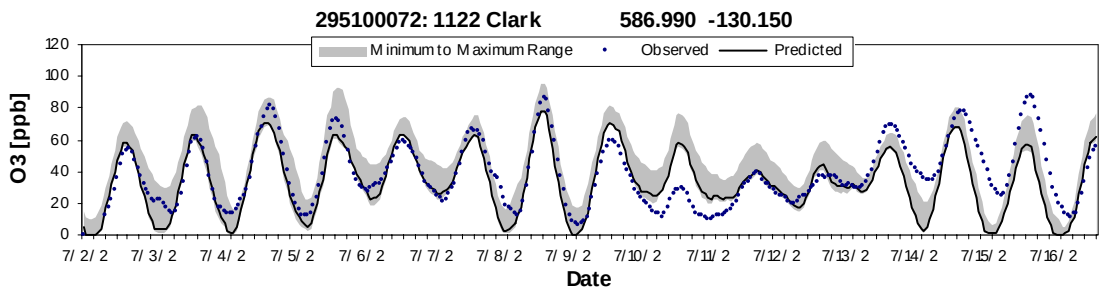

291890006: Queeny Park MO 561.470 -133.190
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291893001: Ladue MO 574.170 -129.190
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291895001: Ferguson MO 578.320 -115.060
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291897003: Breckenridge MO 571.700 -120.560
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


295100007: 8227 S. Broadway 582.060 -139.580
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


295100072: 1122 Clark 586.990 -130.150
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

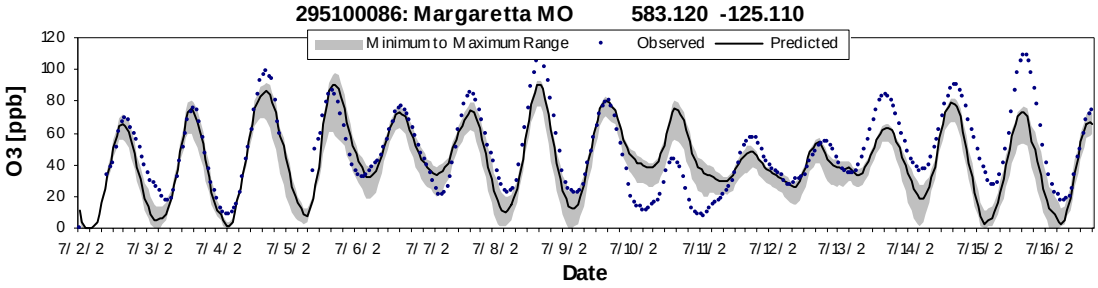
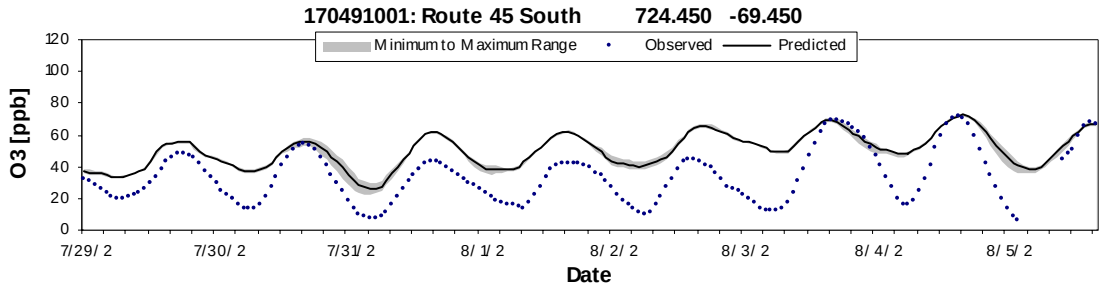
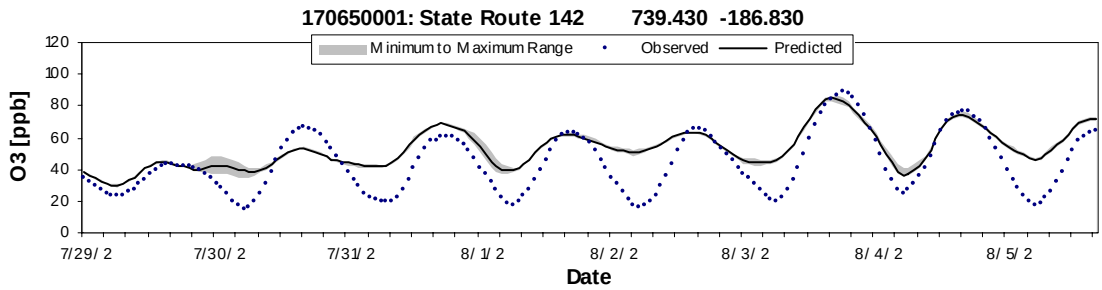
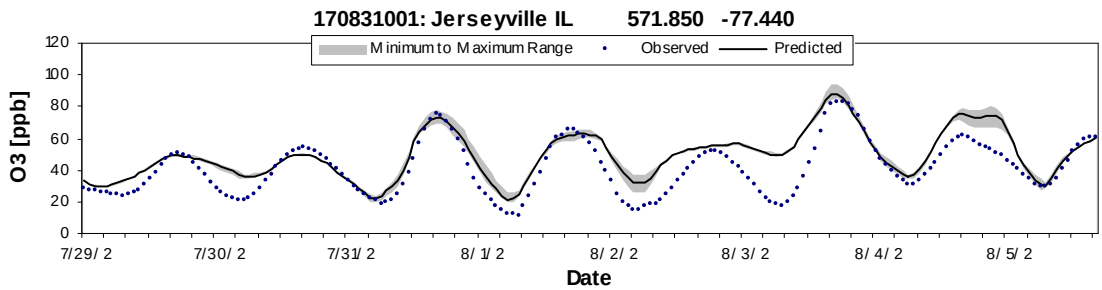
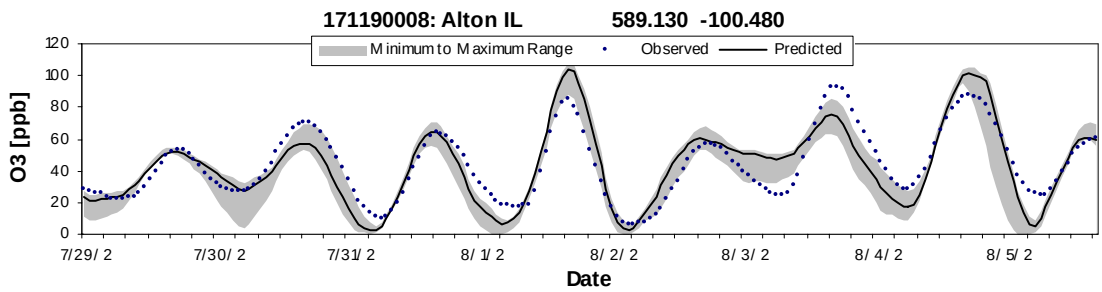


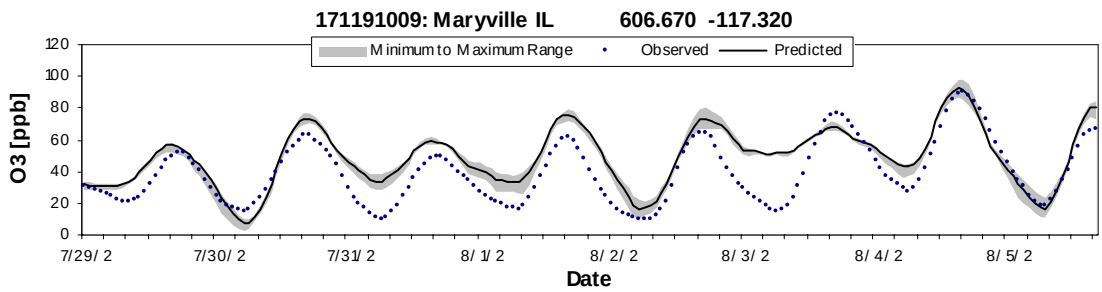
Figure D-101: Observed (blue dots) and modeled (solid black line) 8-hour average ozone time series for St. Louis Non-Attainment Area monitors for 4 km grid. Summer 2002, Episode 2.

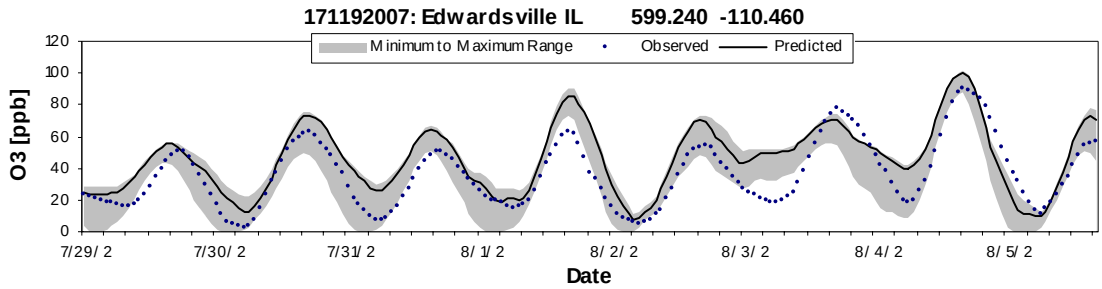

170491001: Route 45 South 724.450 -69.450
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

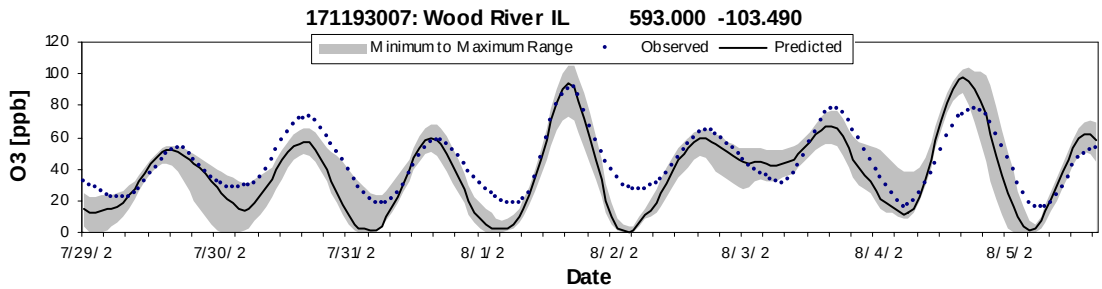

170650001: State Route 142 739.430 -186.830
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

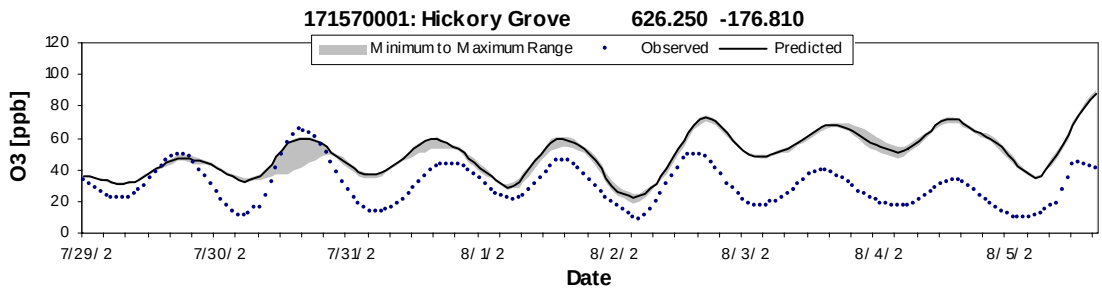

170831001: Jerseyville IL 571.850 -77.440
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

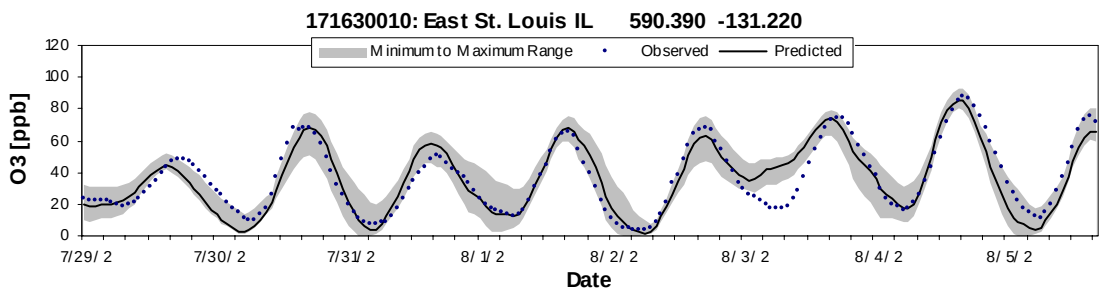

171190008: Alton IL 589.130 -100.480
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

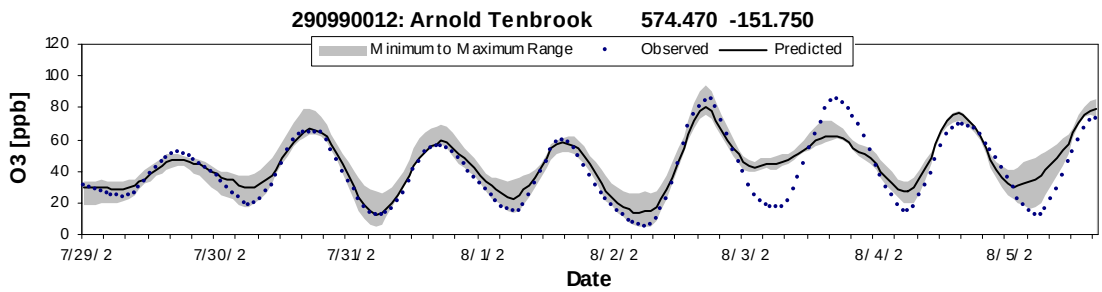

171191009: Maryville IL 606.670 -117.320
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

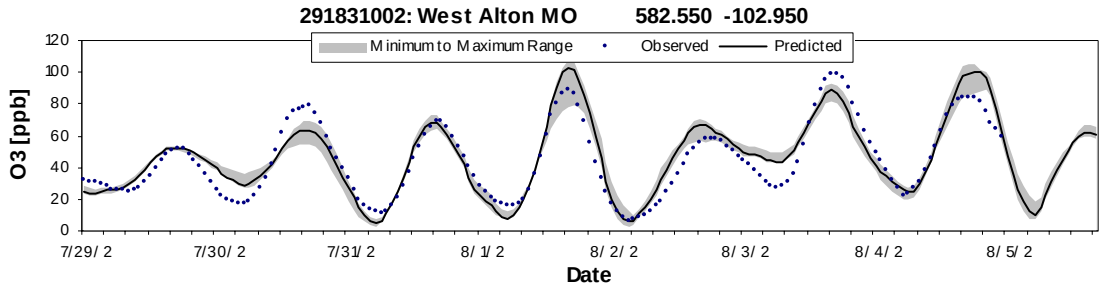

171192007: Edwardsville IL 599.240 -110.460
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

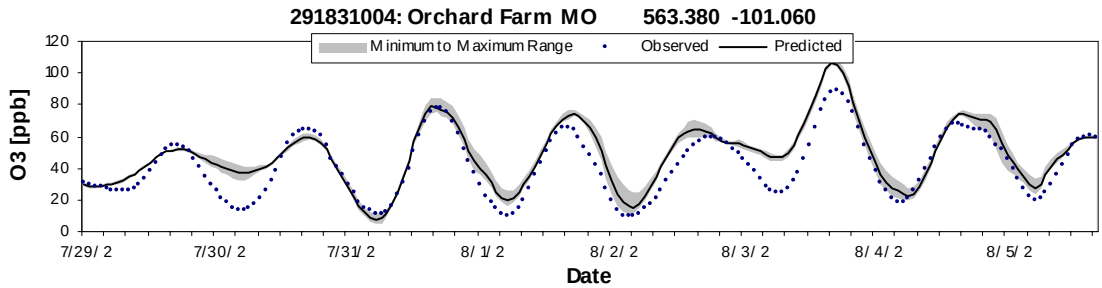

171193007: Wood River IL 593.000 -103.490
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

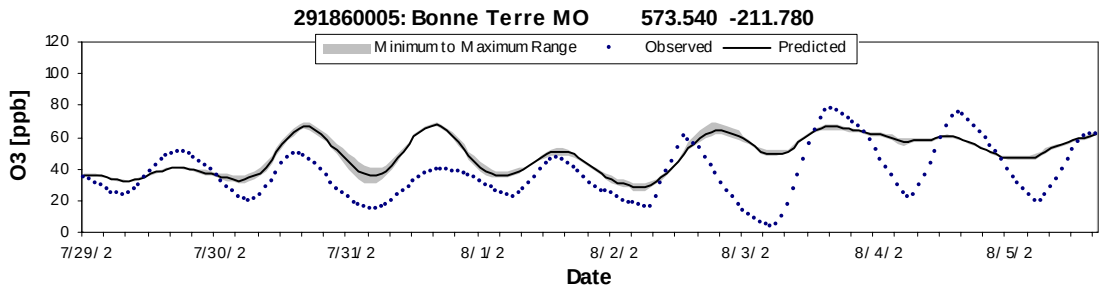

171570001: Hickory Grove 626.250 -176.810
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

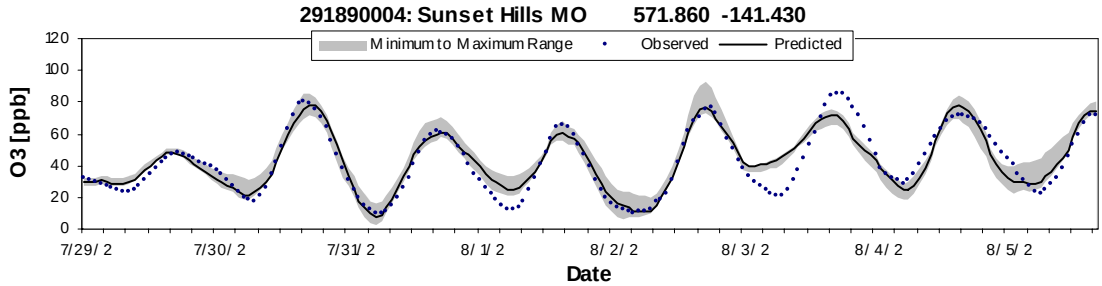

171630010: East St. Louis IL 590.390 -131.220
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

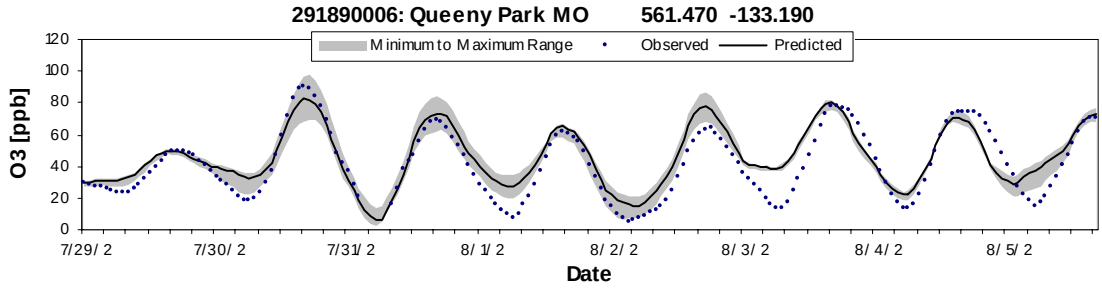

290990012: Arnold Tenbrook 574.470 -151.750
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

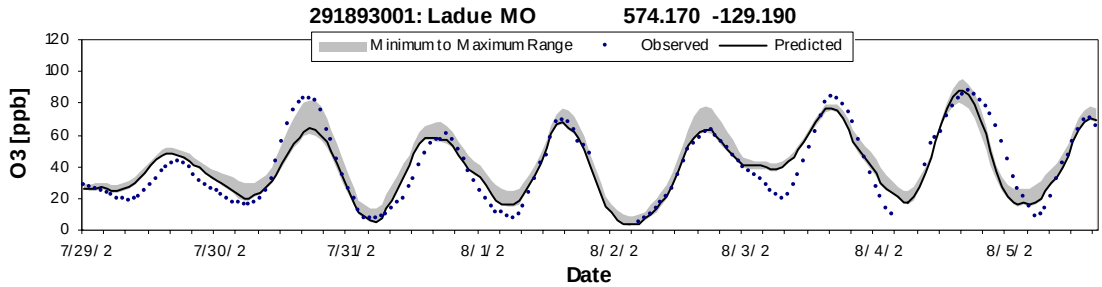

291831002: West Alton MO 582.550 -102.950
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

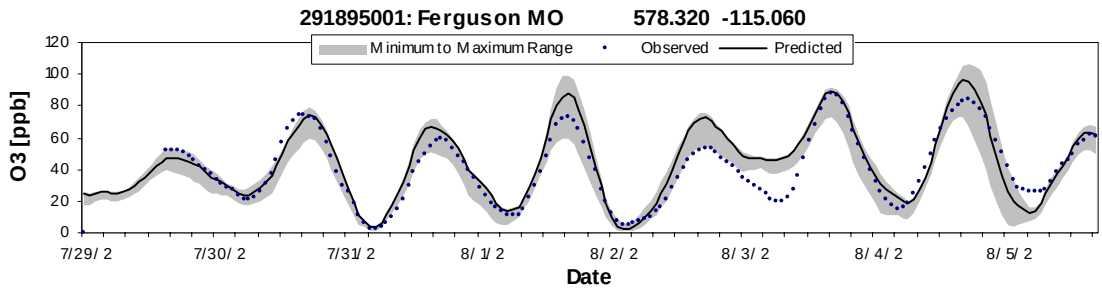

291831004: Orchard Farm MO 563.380 -101.060
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

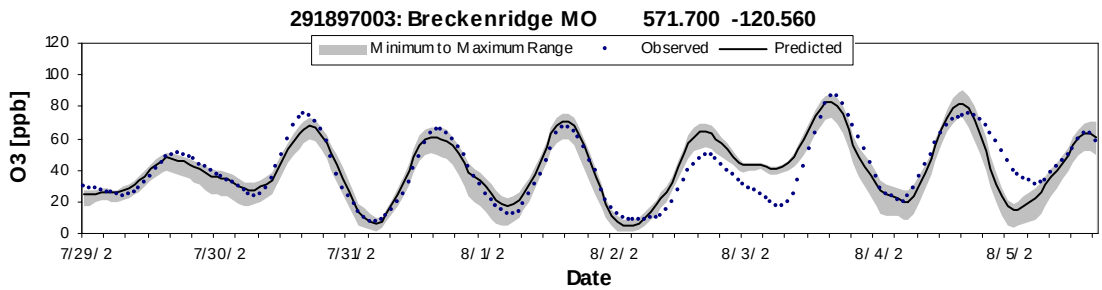

291860005: Bonne Terre MO 573.540 -211.780
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

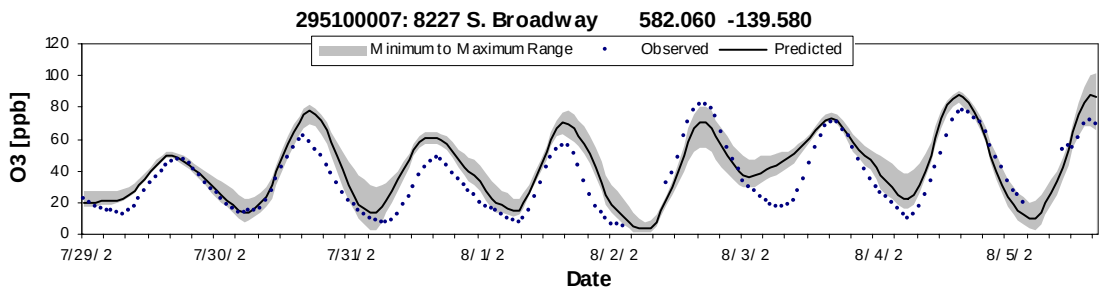

291890004: Sunset Hills MO 571.860 -141.430
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

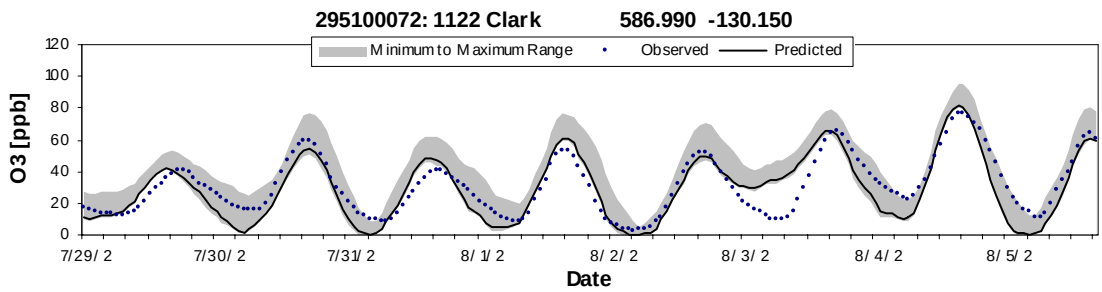

291890006: Queeny Park MO 561.470 -133.190
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291893001: Ladue MO 574.170 -129.190
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291895001: Ferguson MO 578.320 -115.060
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


291897003: Breckenridge MO 571.700 -120.560
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


295100007: 8227 S. Broadway 582.060 -139.580
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date


295100072: 1122 Clark 586.990 -130.150
Minimum to Maximum Range
Observed
Predicted
O3 [ppb]
Date

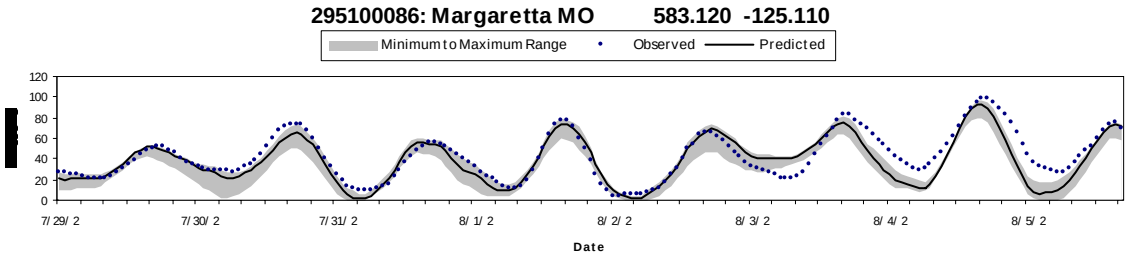


Figure D-106: Observed (blue dots) and modeled (solid black line) 8-hour average ozone time series for St. Louis Non-Attainment Area monitors for 4 km grid. Summer 2002, Episode 3.

Appendix C-5: Scatter Plots of Predicted and Observed Hourly Ozone

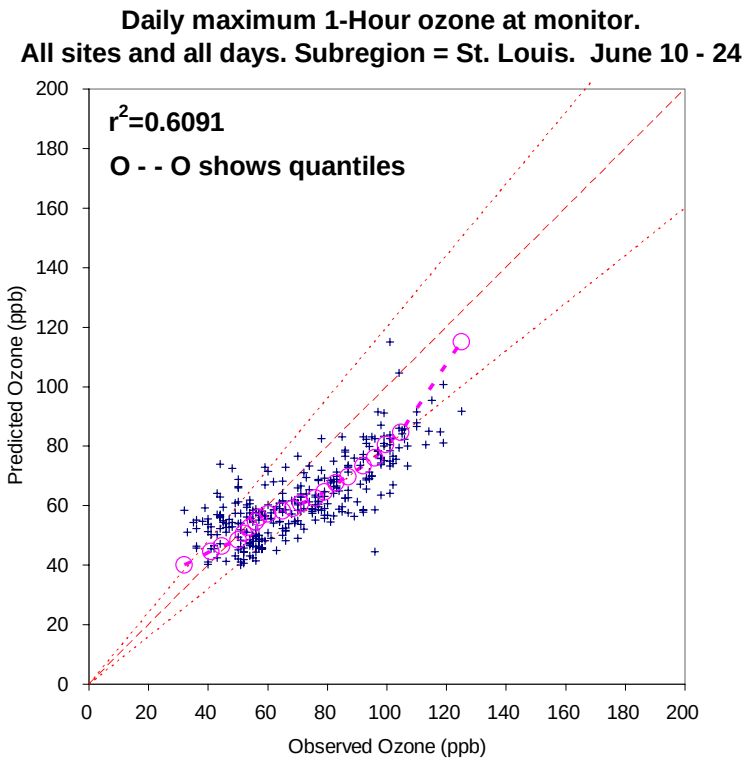


Figure D-107: Episode 1 1-hour ozone performance. Pairs matched by day and at monitor location.

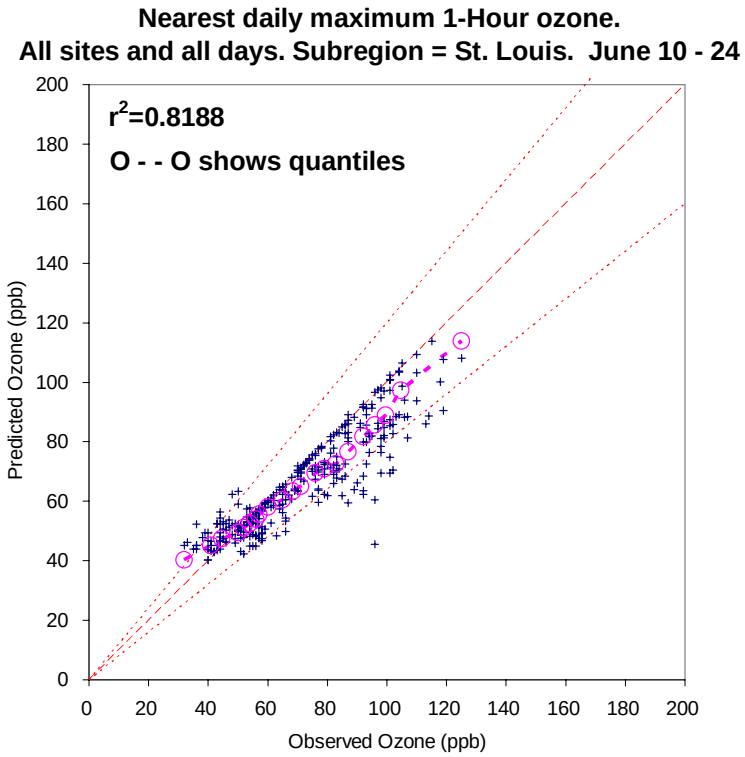


Figure D-108: Episode 1 1-hour ozone performance. Pairs matched by day and maximum predicted value near monitor location.

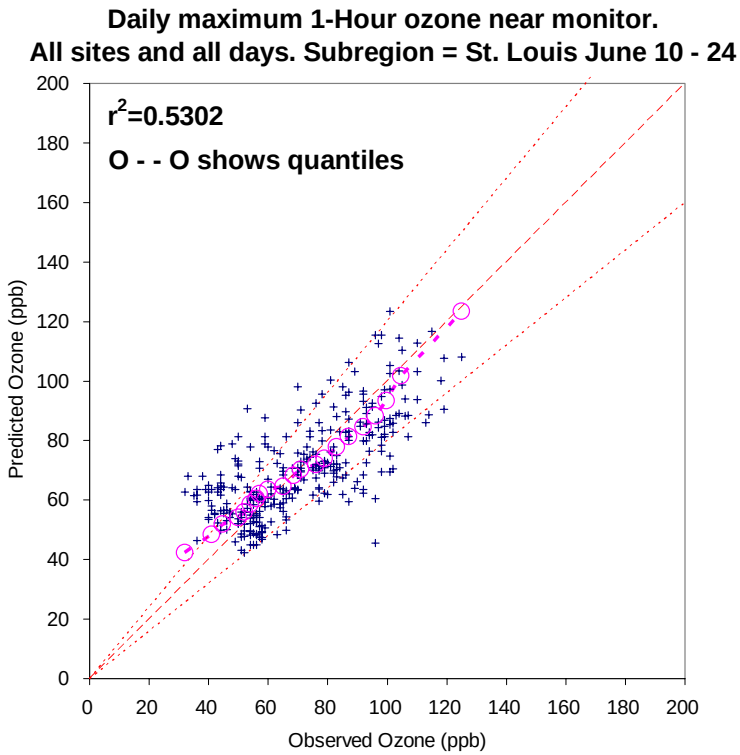


Figure D-109. Episode 1 1-hour ozone performance. Pairs matched by day and closest predicted value near monitor location.

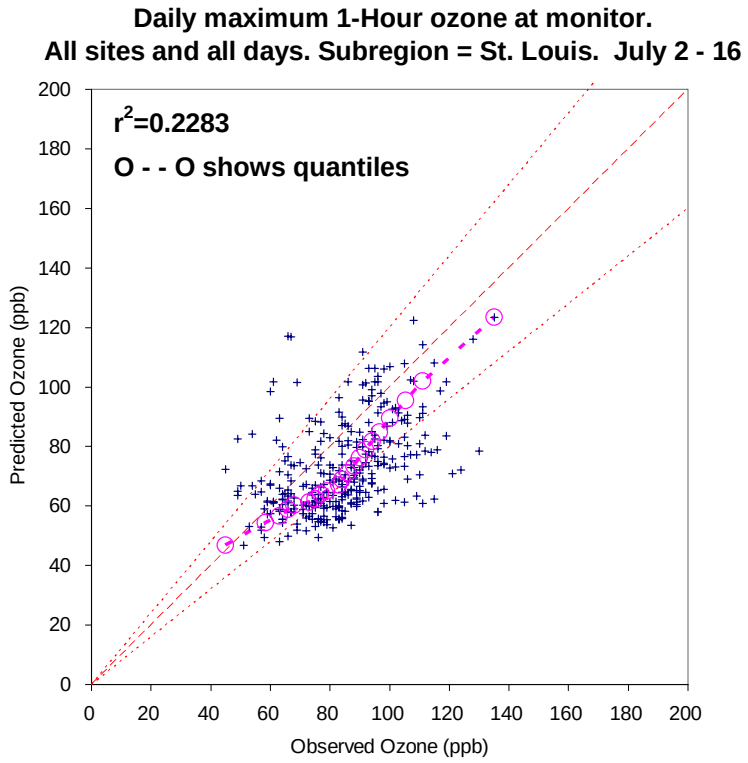


Figure D-110. Episode 2 1-hour ozone performance. Pairs matched by day and at monitor location.

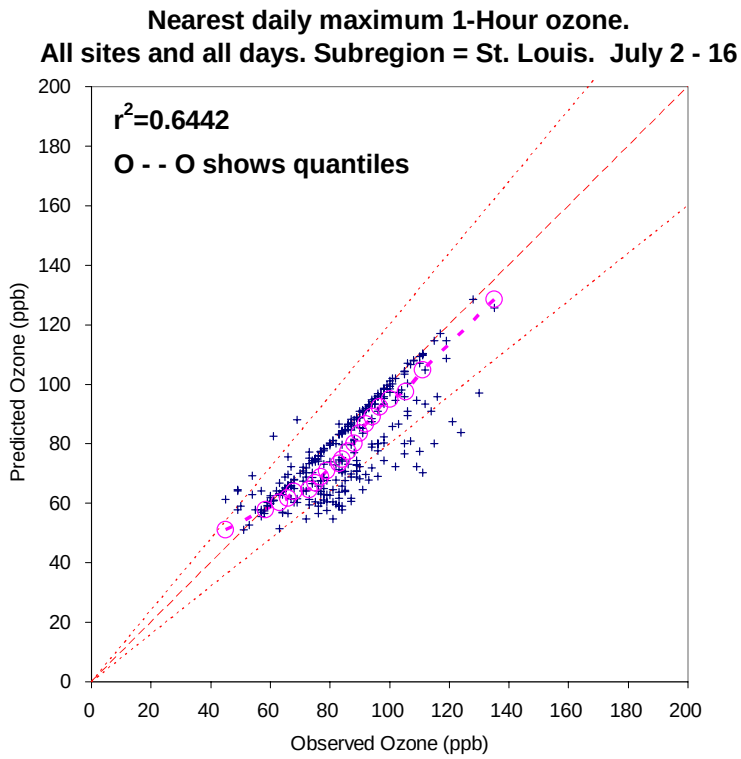


Figure D-111. Episode 2 1-hour ozone performance. Pairs matched by day and maximum predicted value near monitor location.

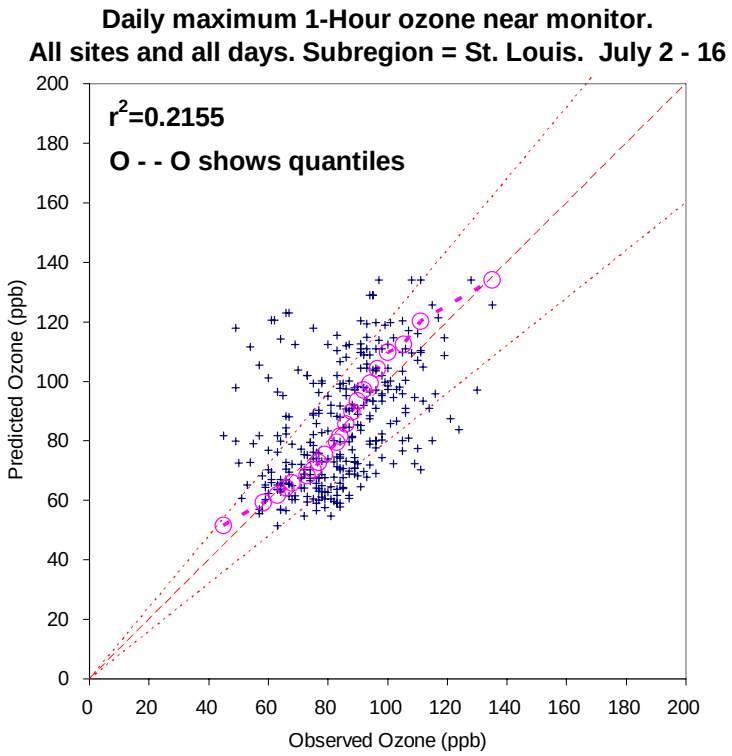


Figure D-112. Episode 2 1-hour ozone performance. Pairs matched by day and closest predicted value near monitor location.

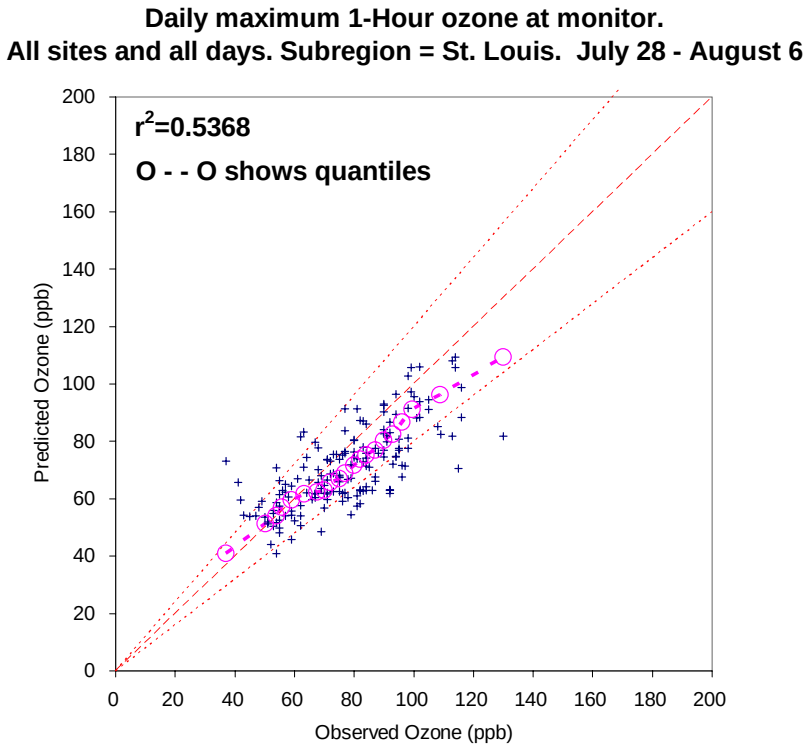


Figure D-113. Episode 3 1-hour ozone performance. Pairs matched by day and at monitor location.

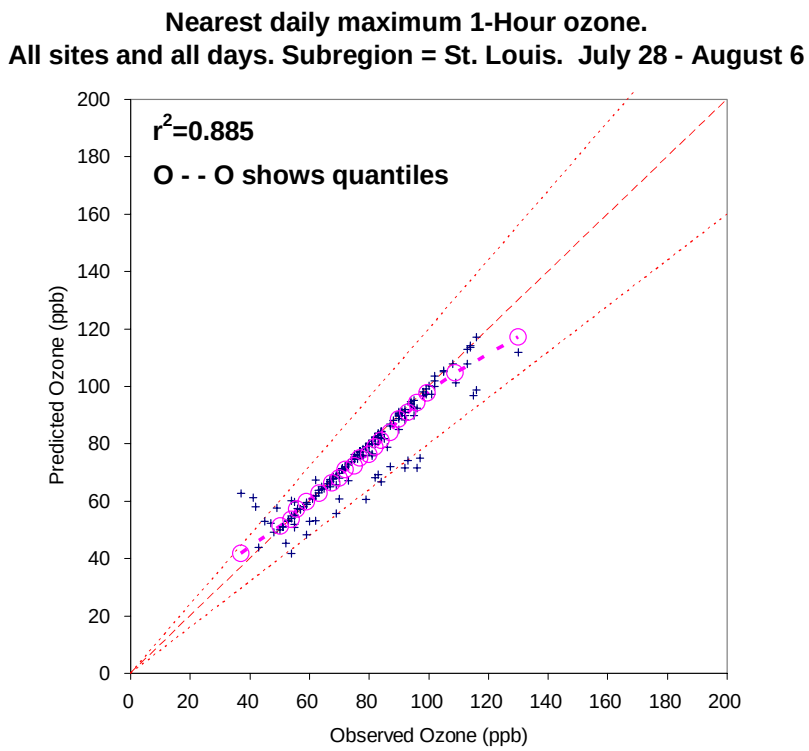


Figure D-114. Episode 3 1-hour ozone performance. Pairs matched by day and maximum predicted value near monitor location.

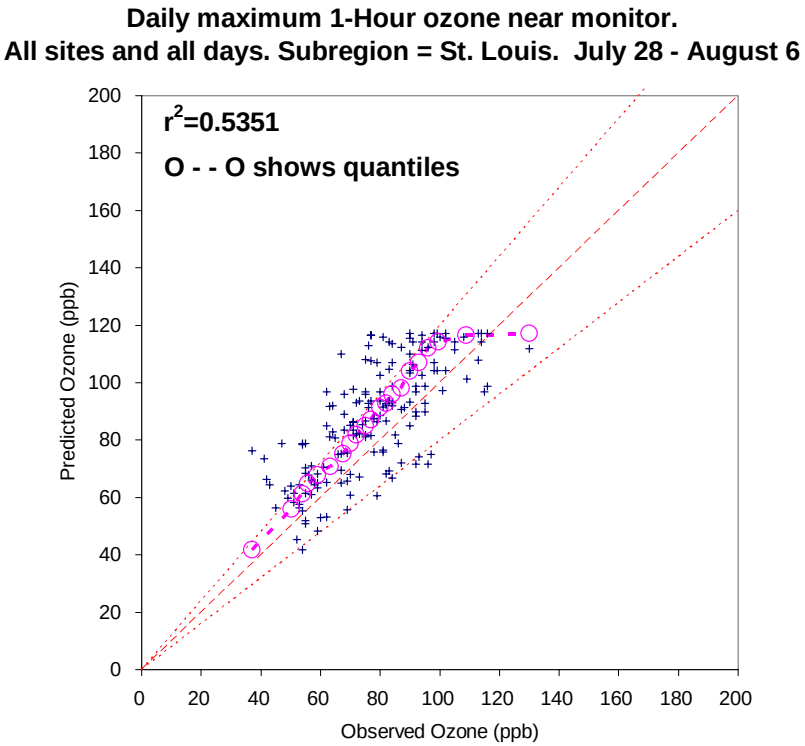


Figure D-115. Episode 3 1-hour ozone performance. Pairs matched by day and closest predicted value near monitor location.