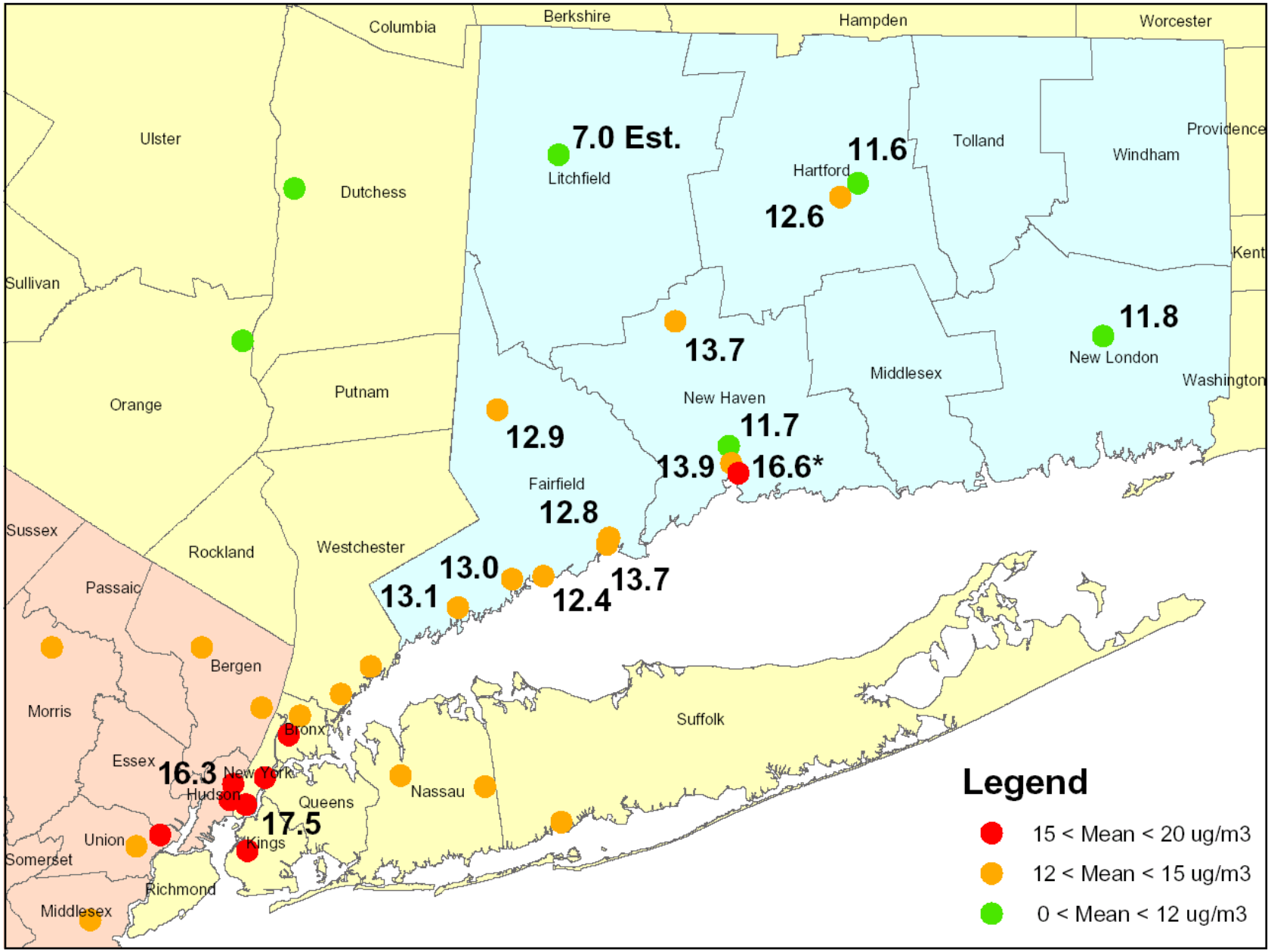

Figure 1. PM2.5 Design Values in Connecticut (2000 - 2002)

*Note: microscale siting at Stiles Street precludes its use in annual attainment designations

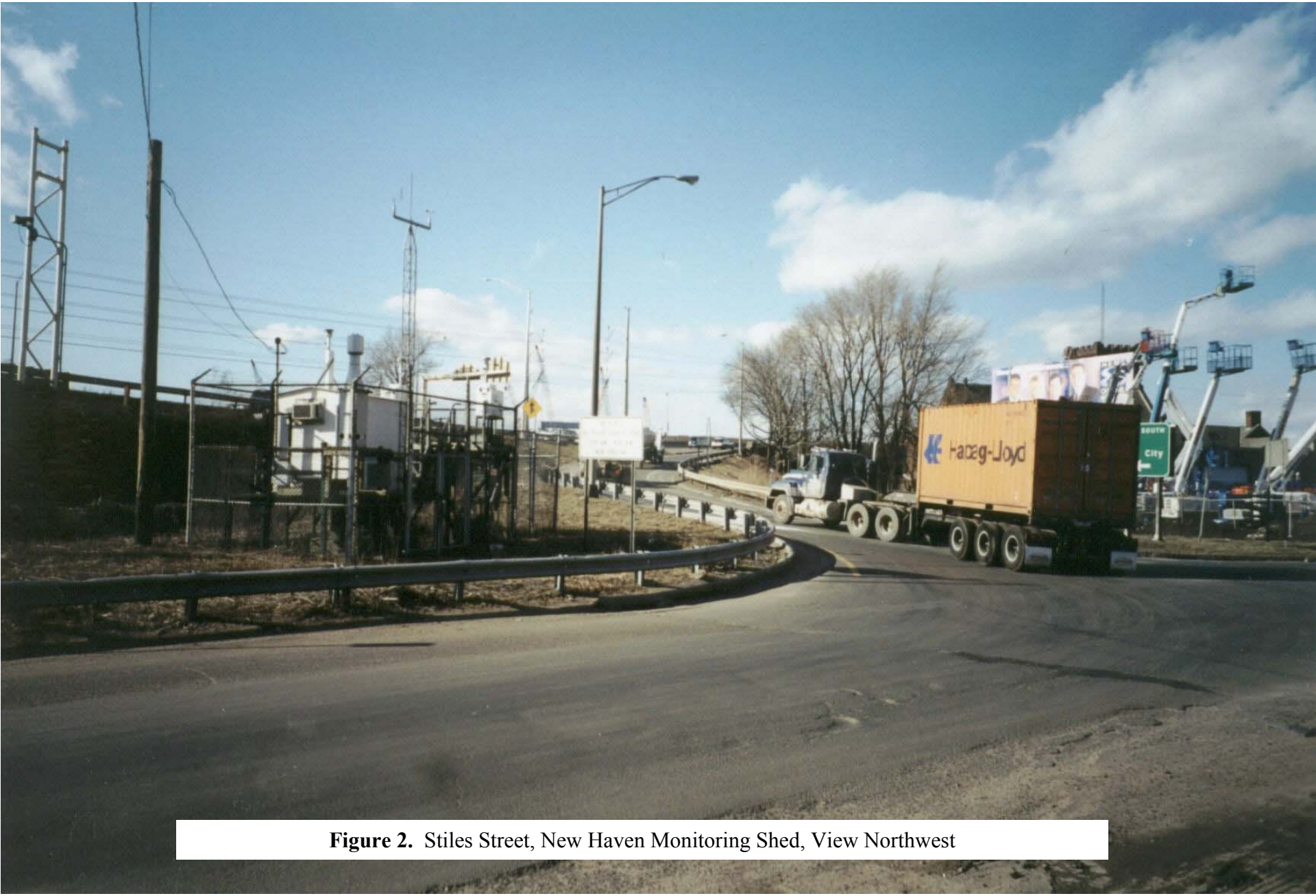

Figure 2. Stiles Street, New Haven Monitoring Shed, View Northwest

Figure 3. Stiles Street, New Haven I-95 Access Ramp, View Northwest

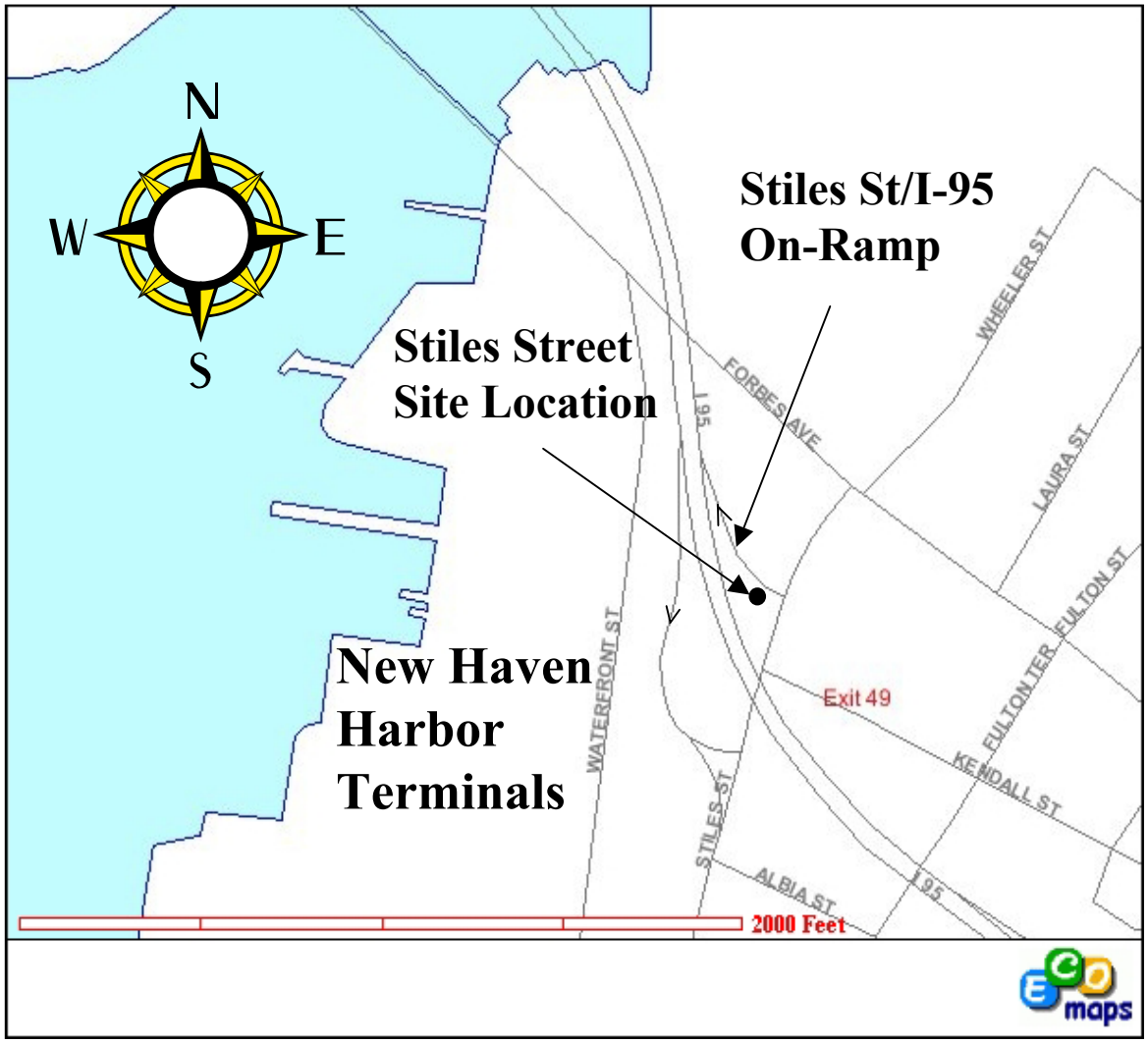

Figure 4. Stiles Street, New Haven Monitoring Site Location

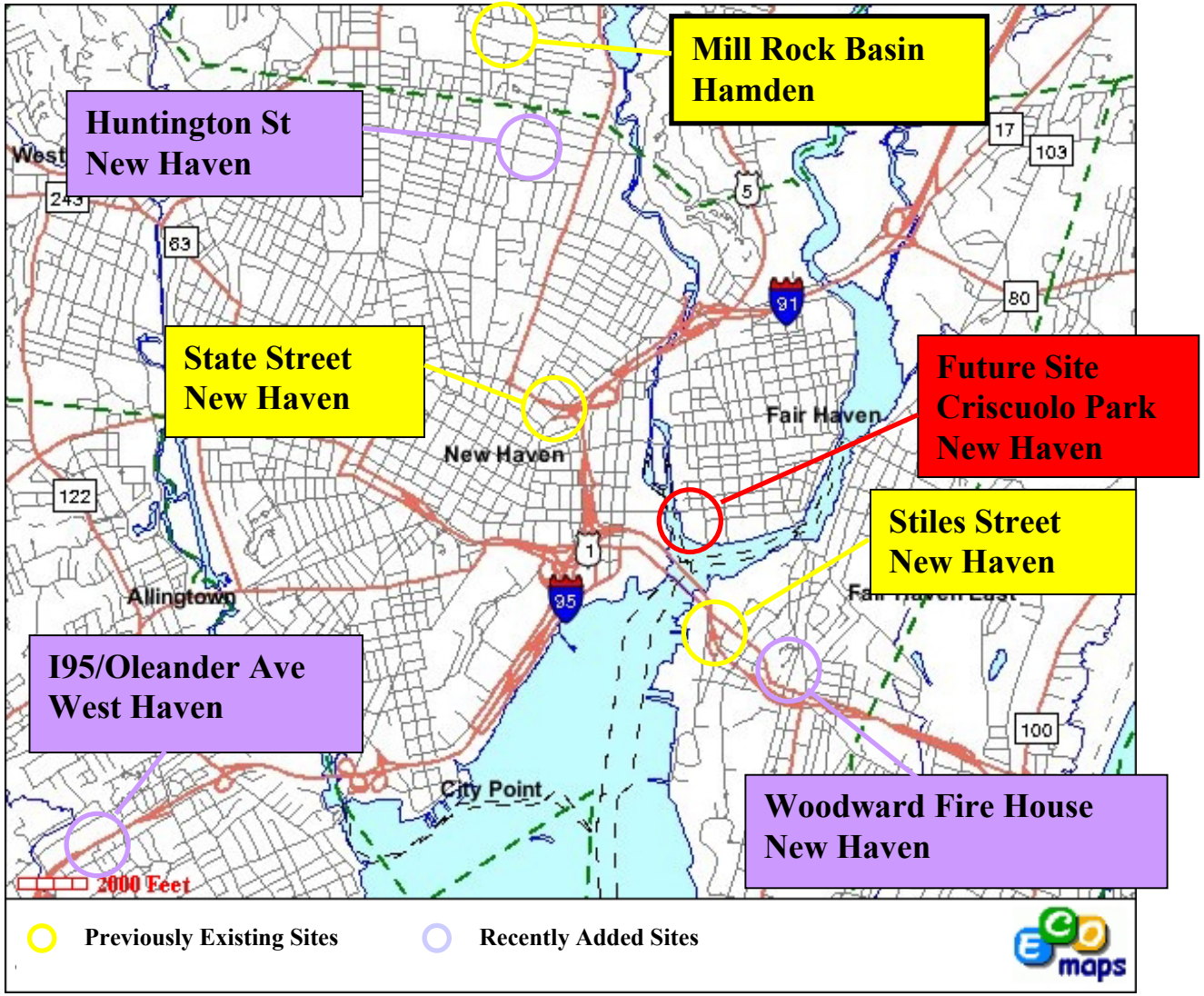

Figure 5. New Haven Area- PM2.5 Monitoring Sites

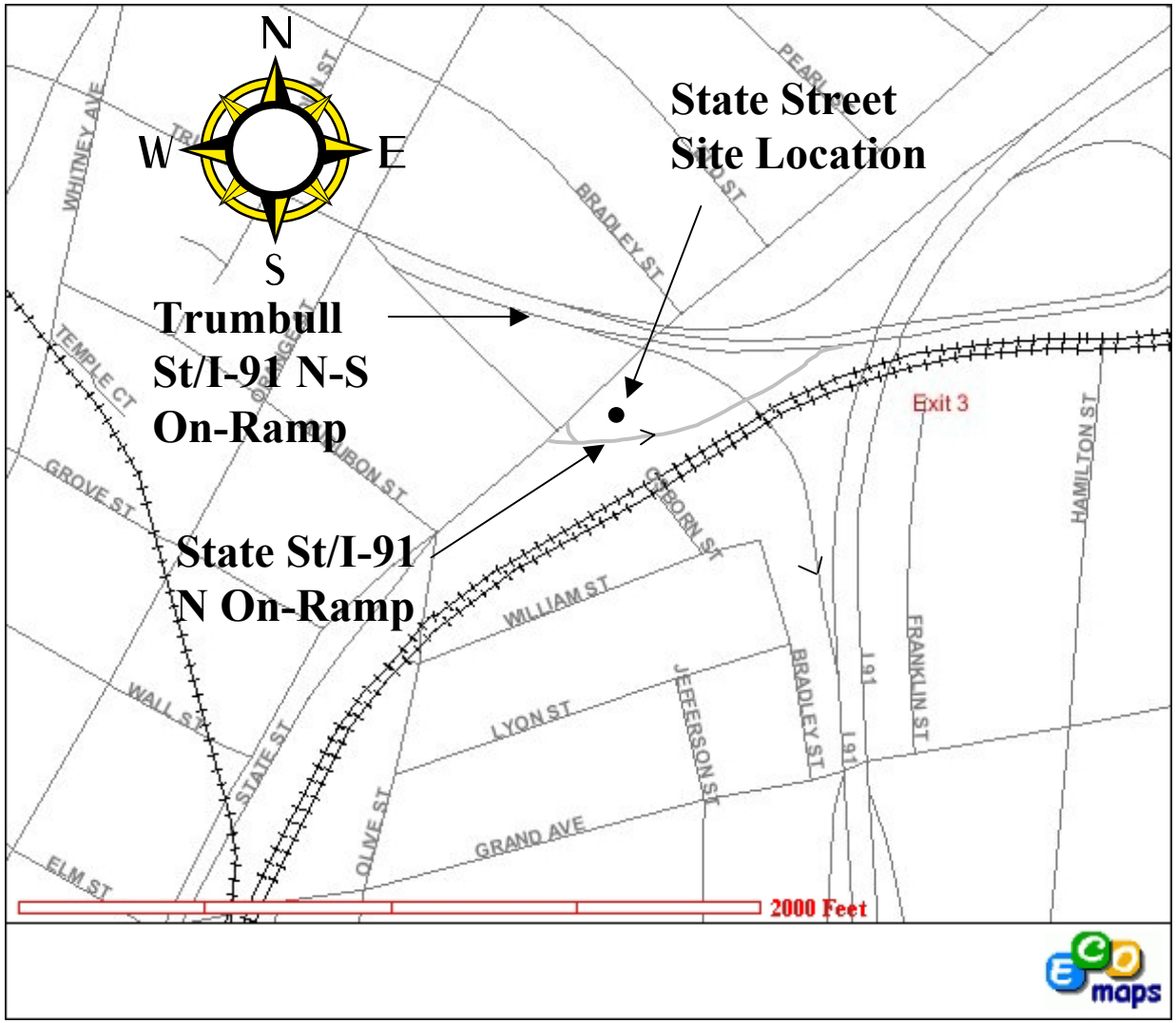

Figure 6. State Street, New Haven Monitoring Site Location

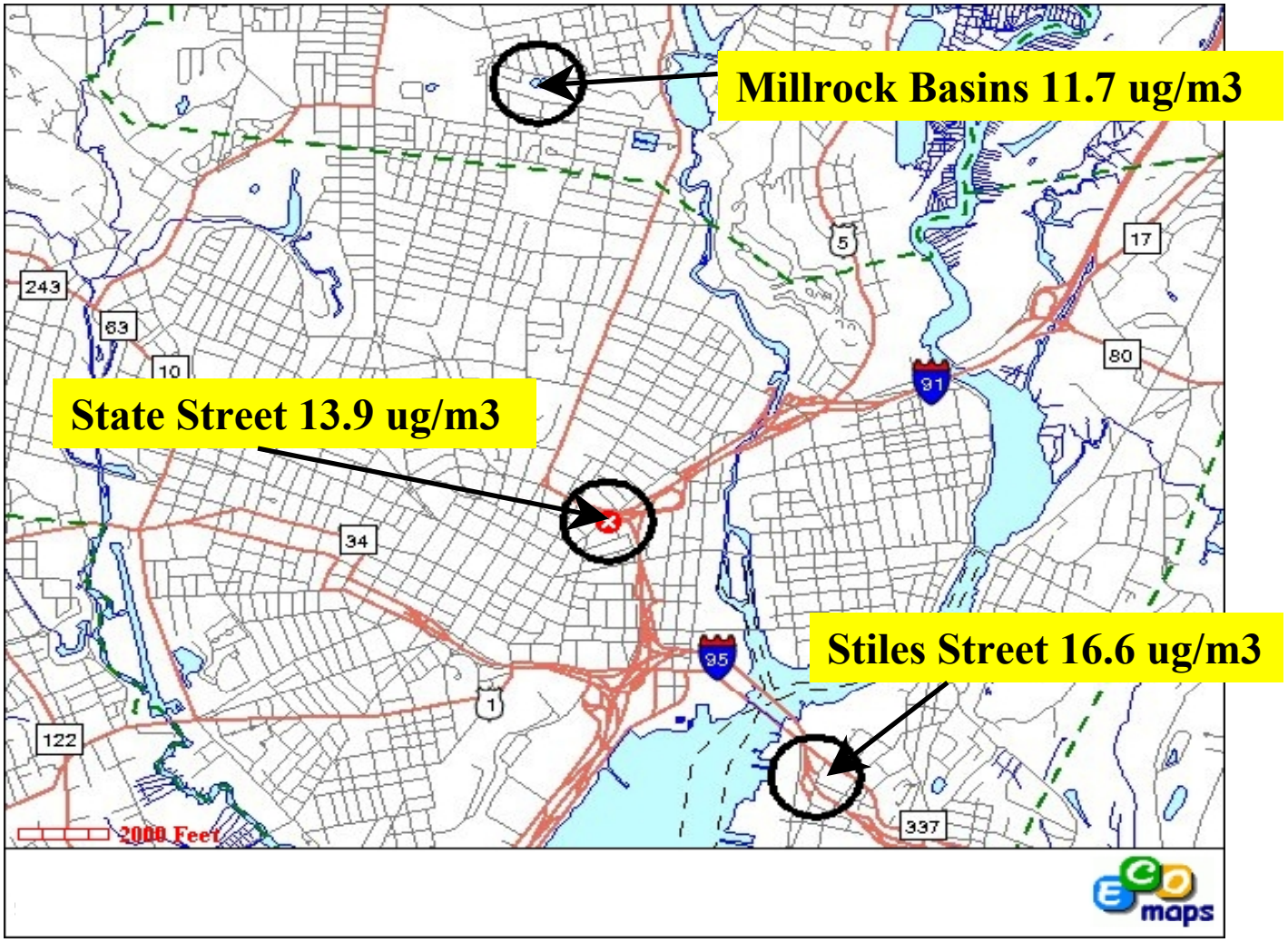

Figure 7. New Haven Area PM2.5-Design Values (2000-2002)

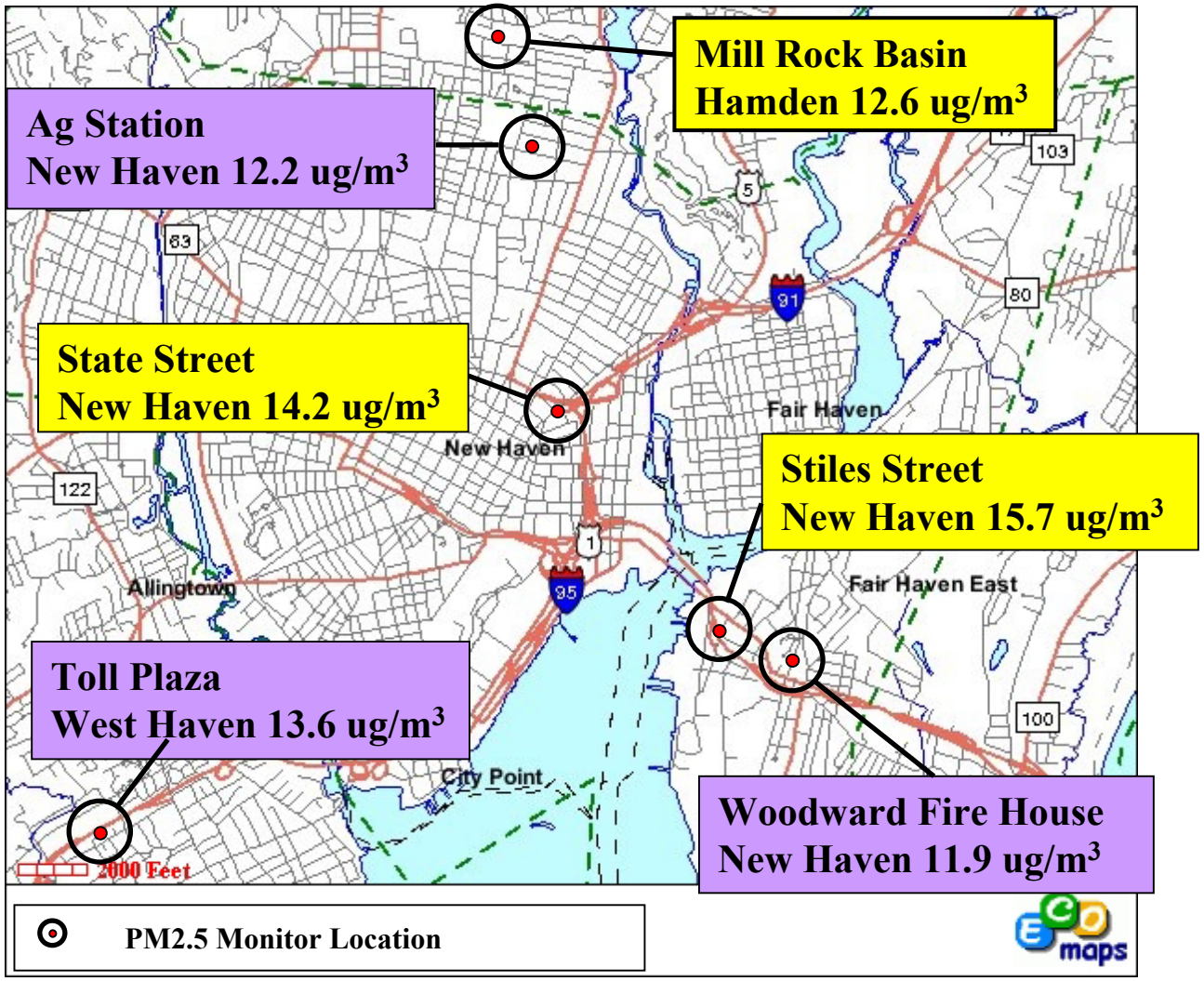

Figure 8. New Haven Area PM2.5 Concentrations: Average of 3rd day samples, April-September 2003, for which there was also a Stiles Street sample.

State Street, New Haven vs. Stiles Street, New Haven PM2.5 Concentrations, Second and Third Quarters, 2003

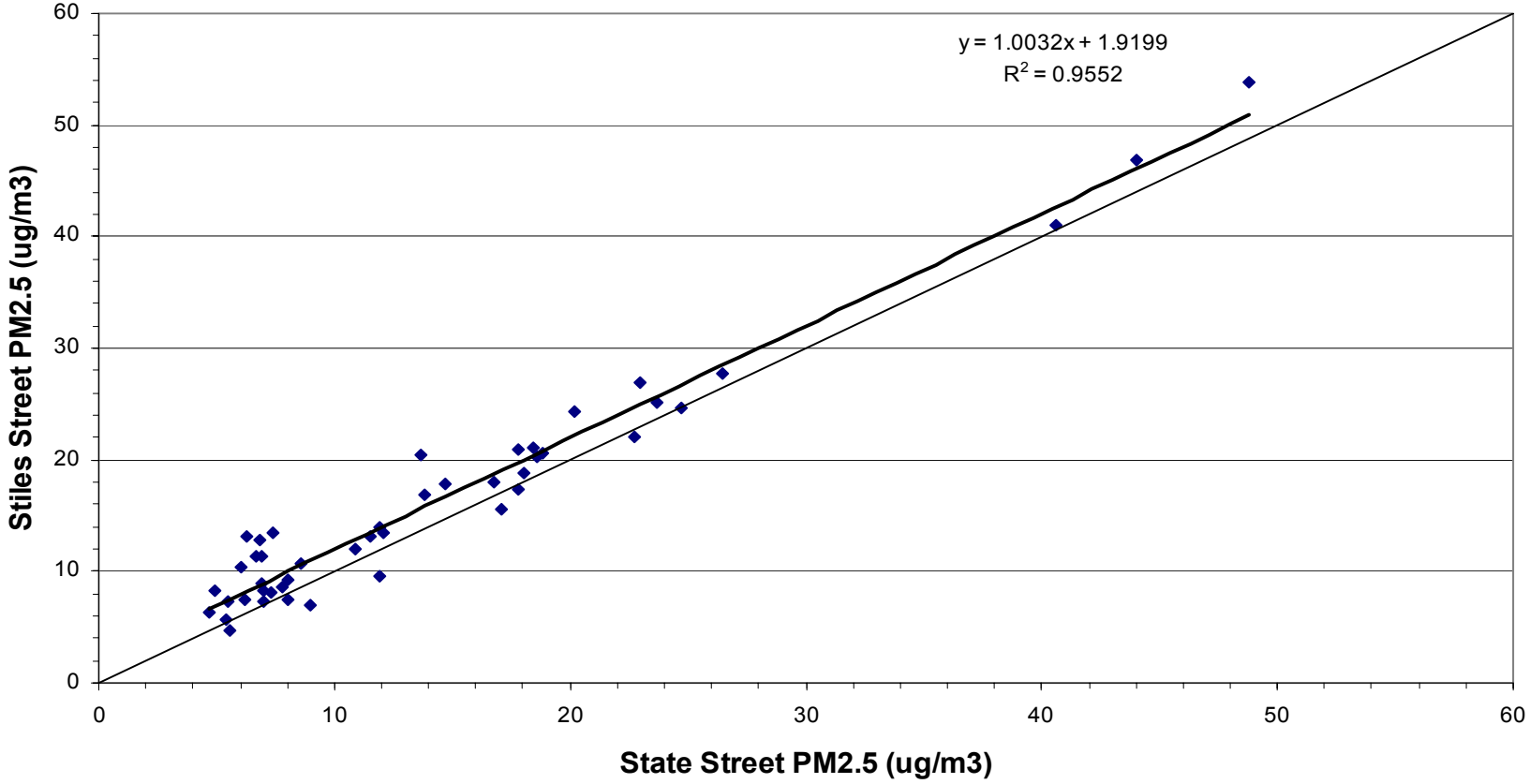

Figure 9. State Street vs. Stiles Street PM2.5 Concentrations

Former Toll Booth, West Haven vs. Stiles Street, New Haven PM2.5 Concentrations, Second and Third Quarters, 2003

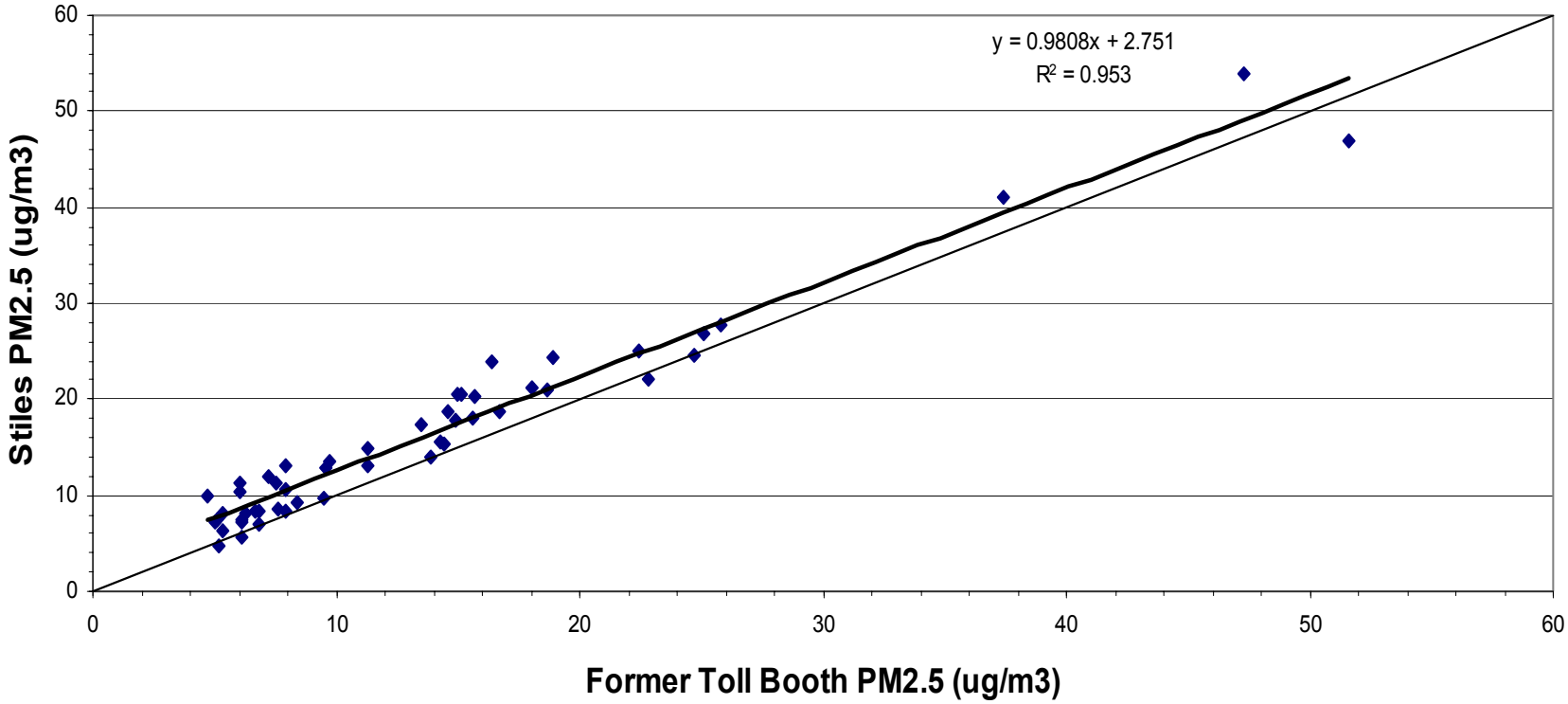

Figure 10. West Haven vs. Stiles Street PM2.5 Concentrations

Mill Rock Basin, Hamden vs. Stiles Street, New Haven PM2.5 Concentrations, Second and Third Quarters, 2003

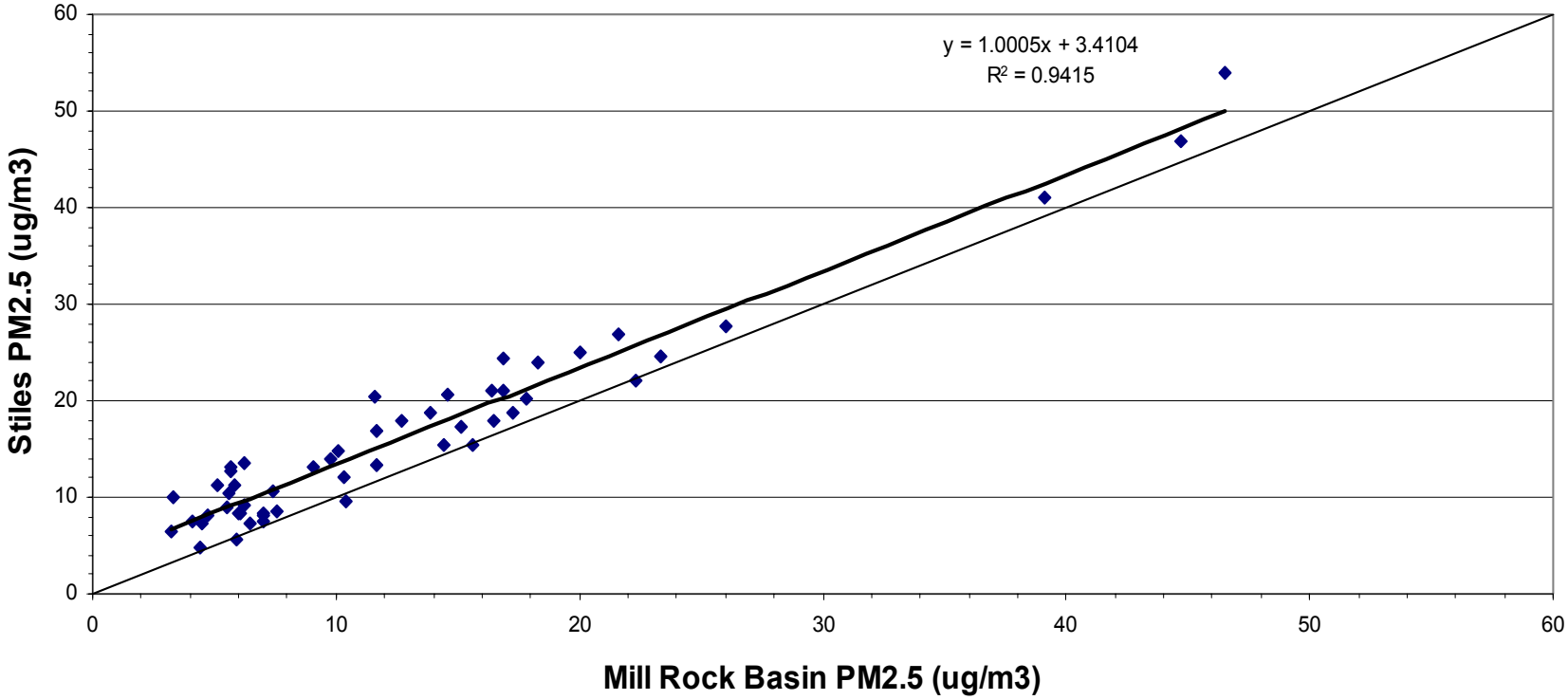

Figure 11. Mill Rock Basin, Hamden vs. Stiles Street PM2.5 Concentrations

CT Agriculture Station, New Haven vs. Stiles Street, New Haven PM2.5 Concentrations, Second and Third Quarters, 2003

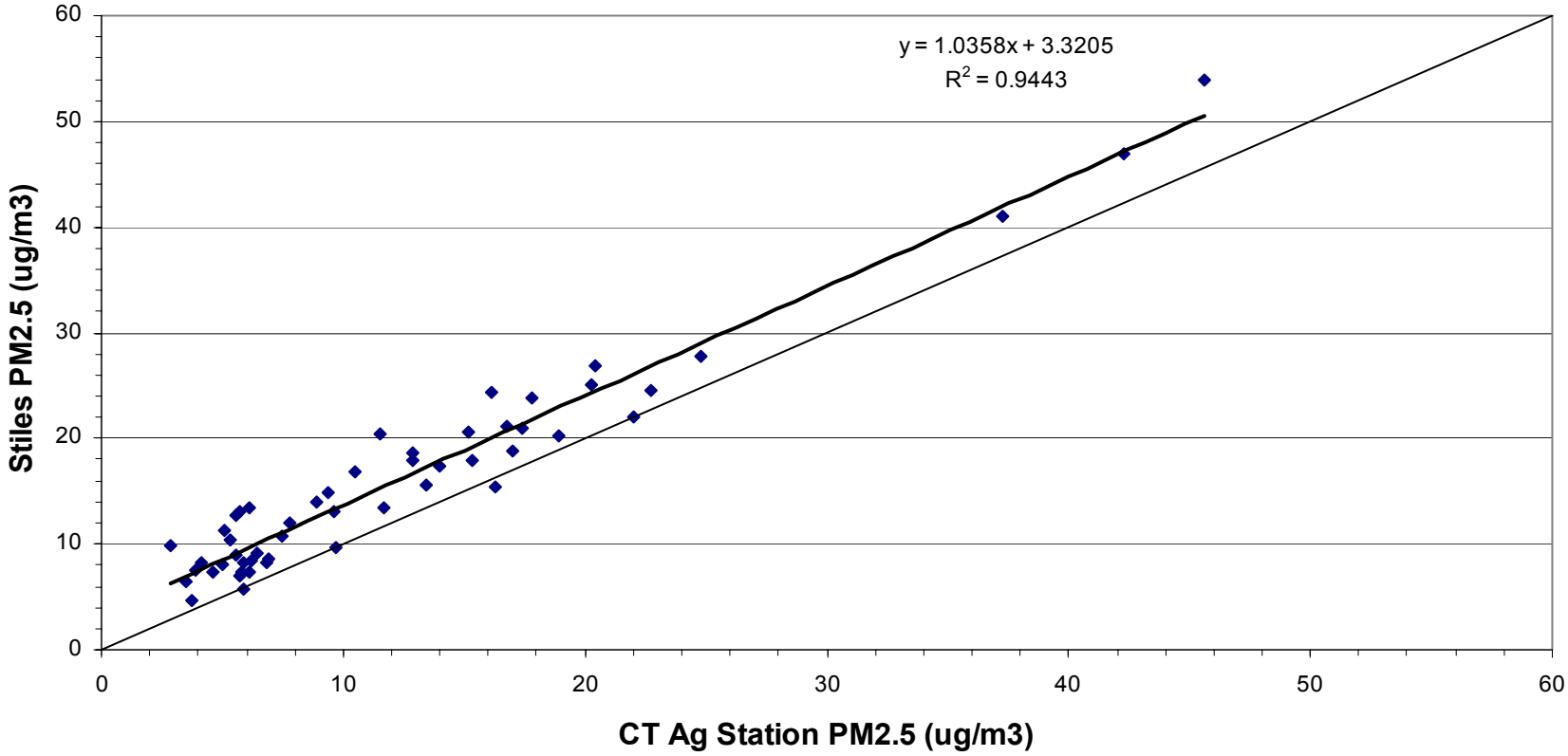

Figure 12. CT Agricultural Station vs. Stiles Street PM2.5 Concentrations

Woodward Fire House, New Haven vs. Stiles Street, New Haven PM2.5 Concentrations, Second and Third Quarters, 2003

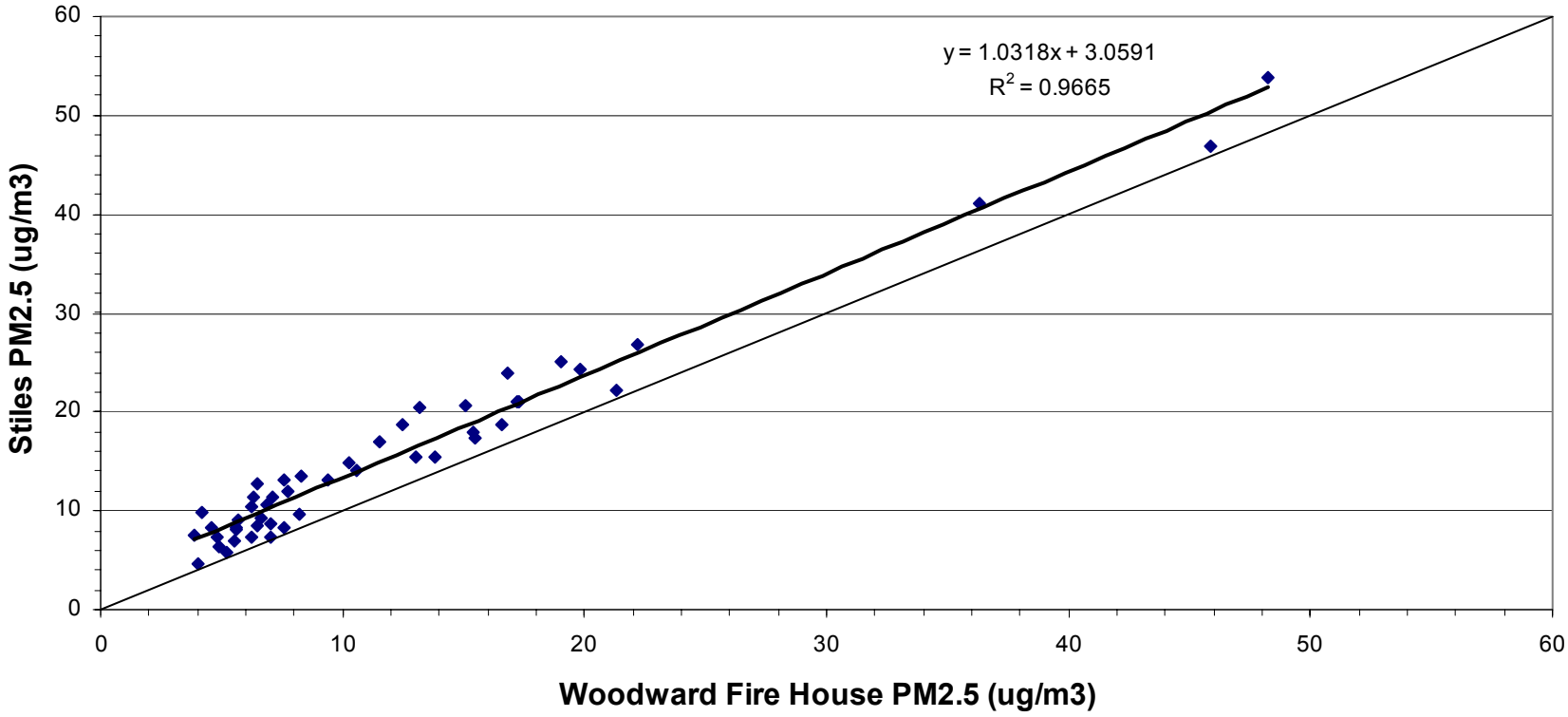

Figure 13. Woodward Fire House vs. Stiles Street PM2.5 Concentrations

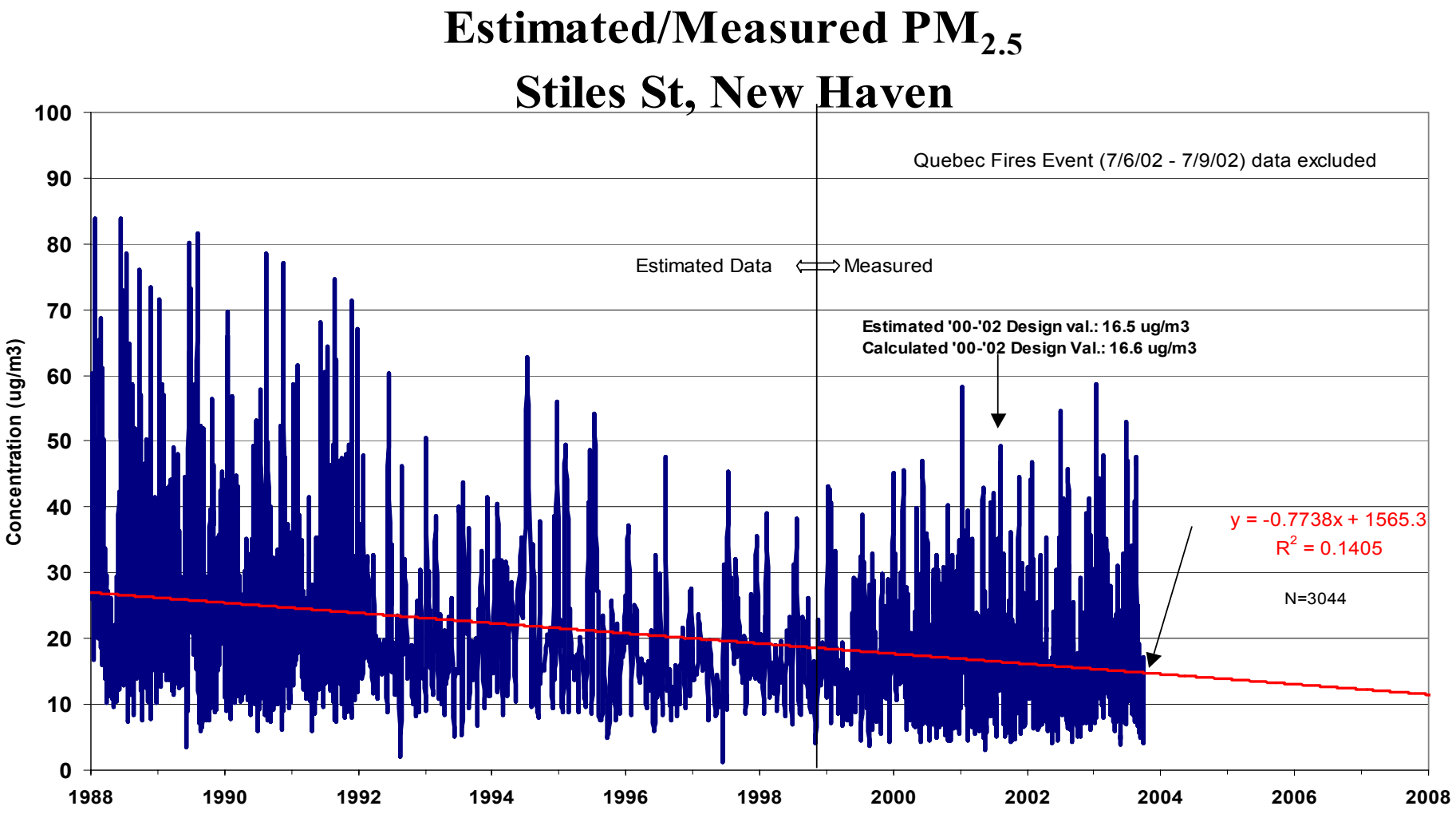

Figure 14. Estimated/ Measured PM2.5 Concentrations at Stiles Street, New Haven

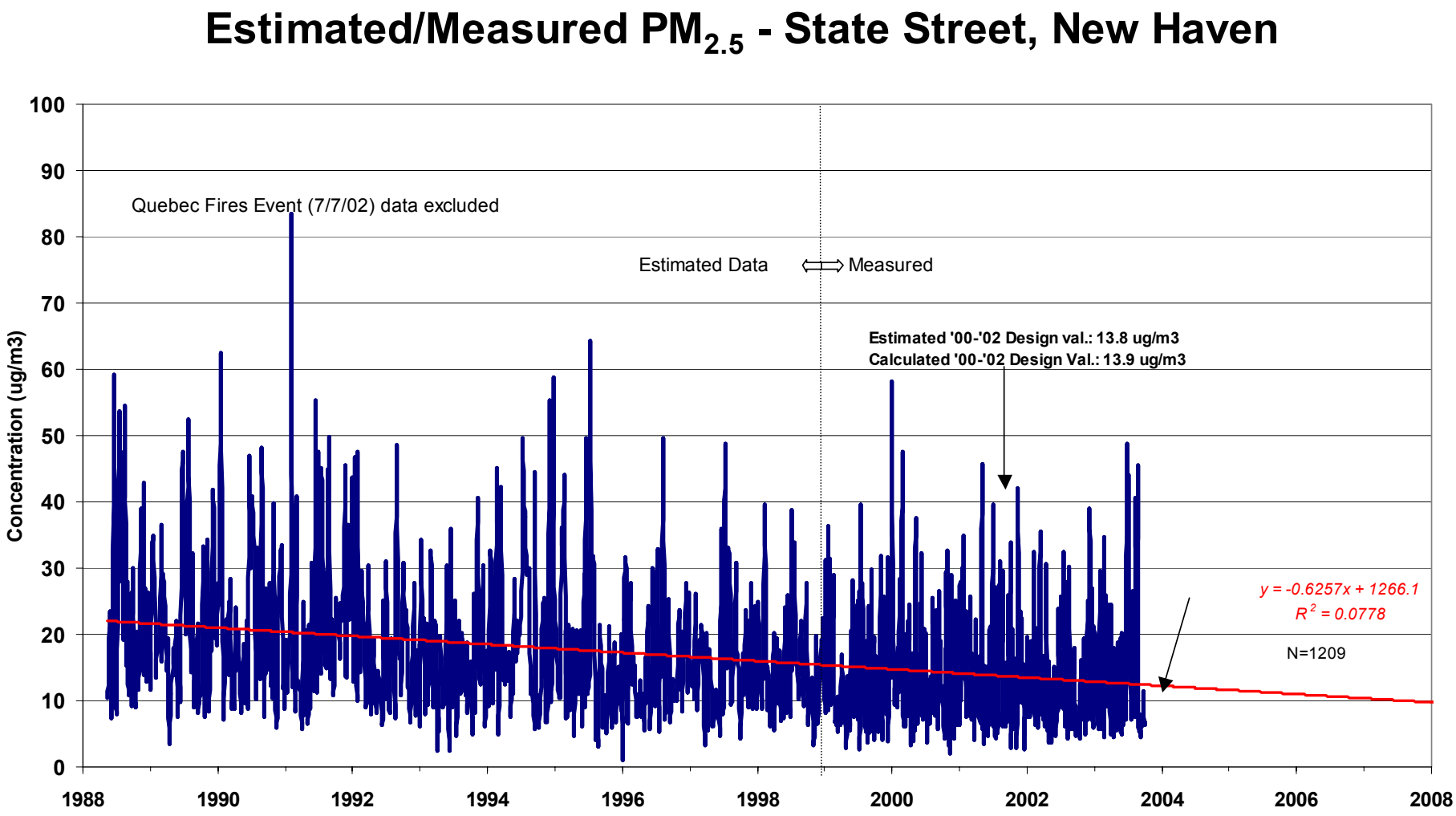

Figure 15. Estimated/ Measured PM2.5 Concentrations at State Street, New Haven

Annual Average of Measured/ Estimated PM2.5

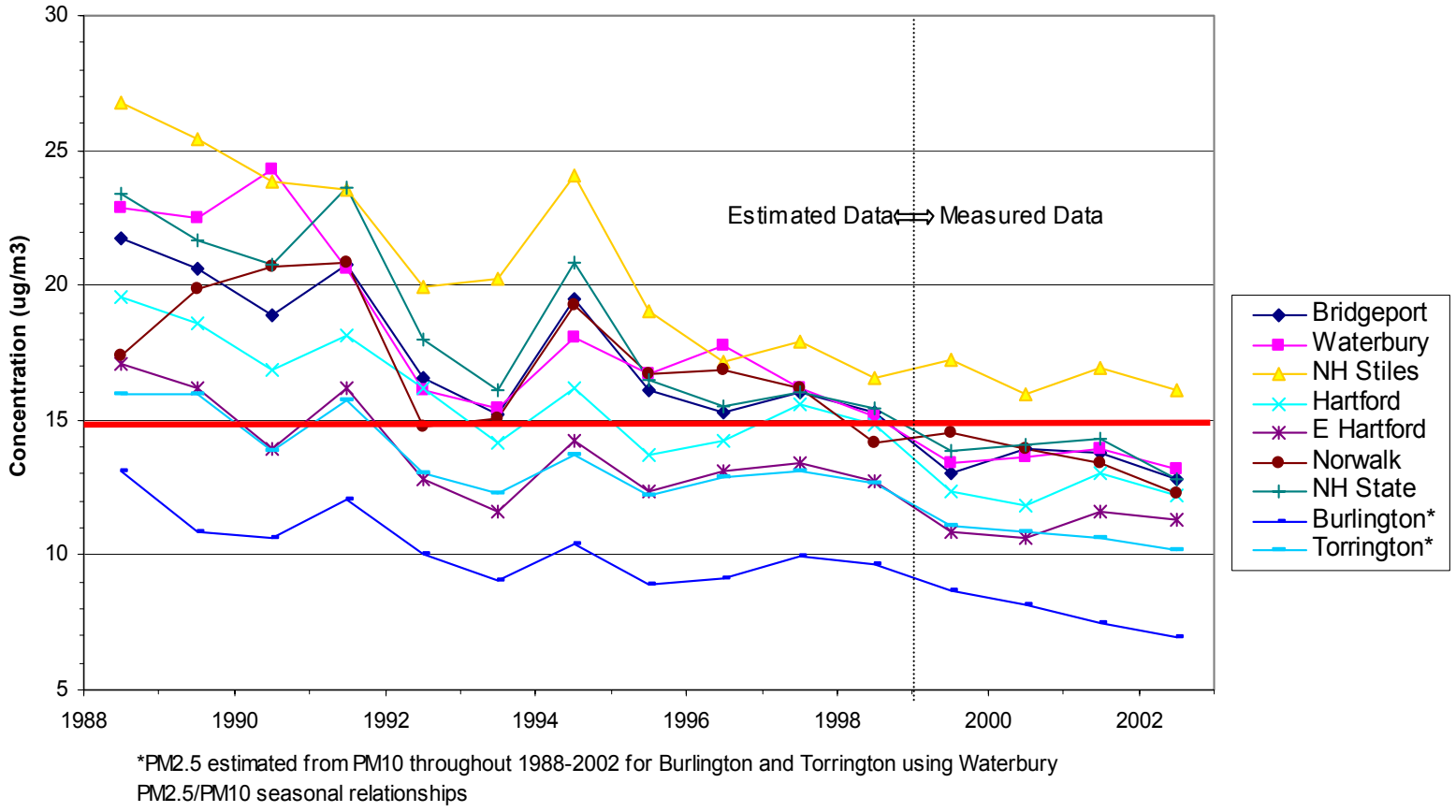

Figure 16. Annual Average of Estimated/ Measured PM2.5 Concentrations

Estimated and Measured $PM_{2.5}$ Trends - New Haven vs. Five Other Urban Areas

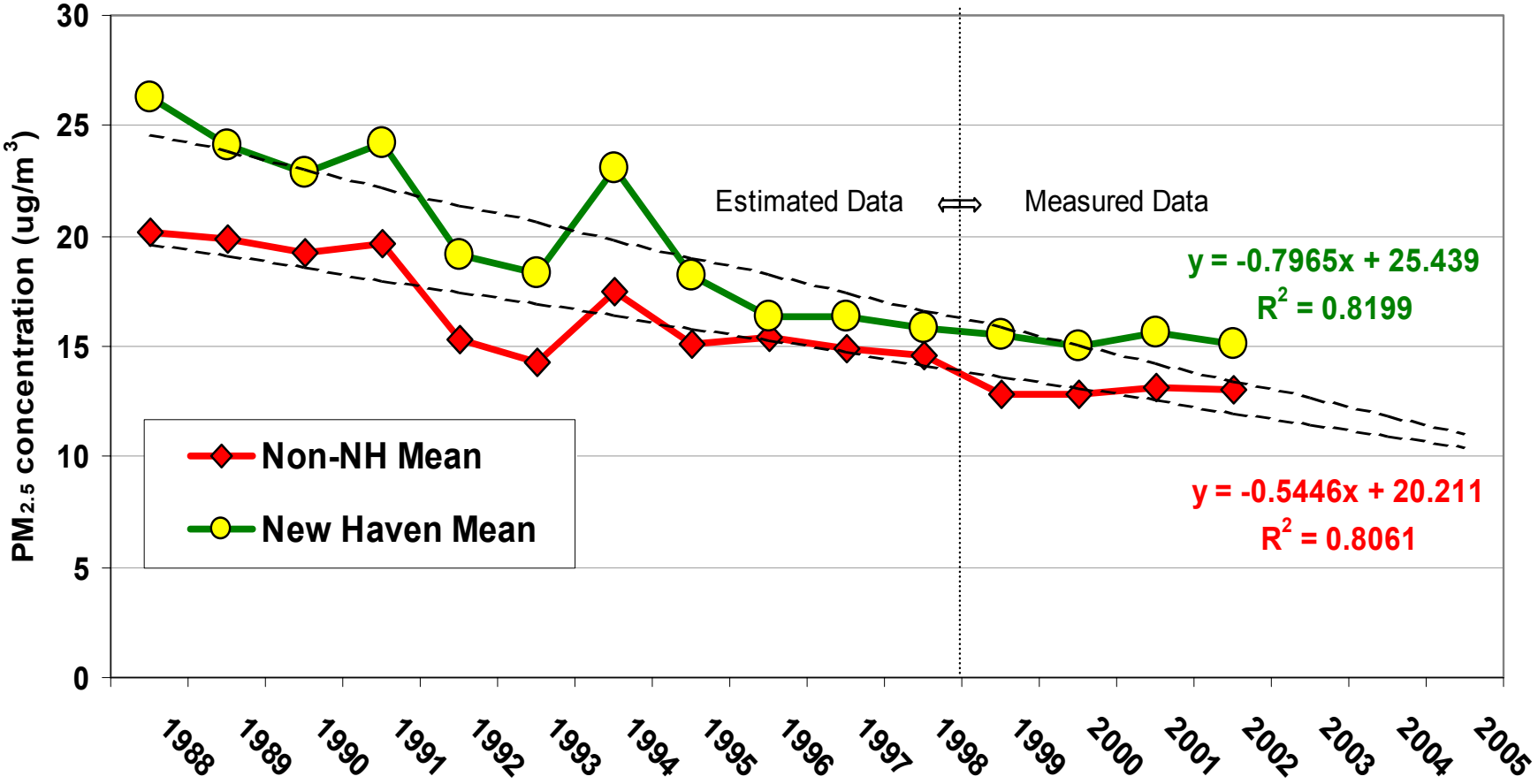

Figure 17. Estimated and Measured PM2.5 Trends,Two New Haven vs. Five Non-New Haven Urban Sites

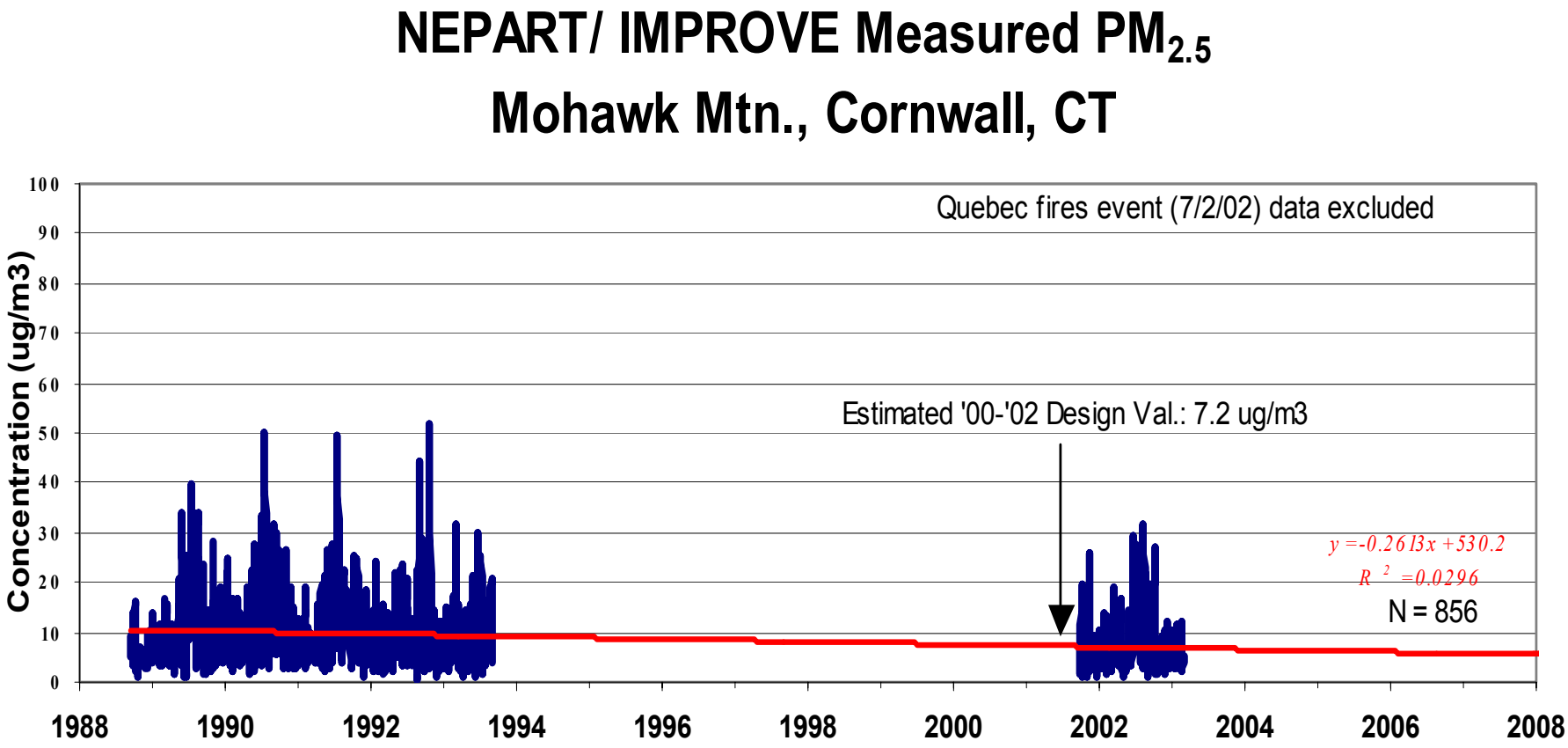

Figure 18. Measured PM2.5 Concentrations at Mohawk Mountain, Cornwall, CT

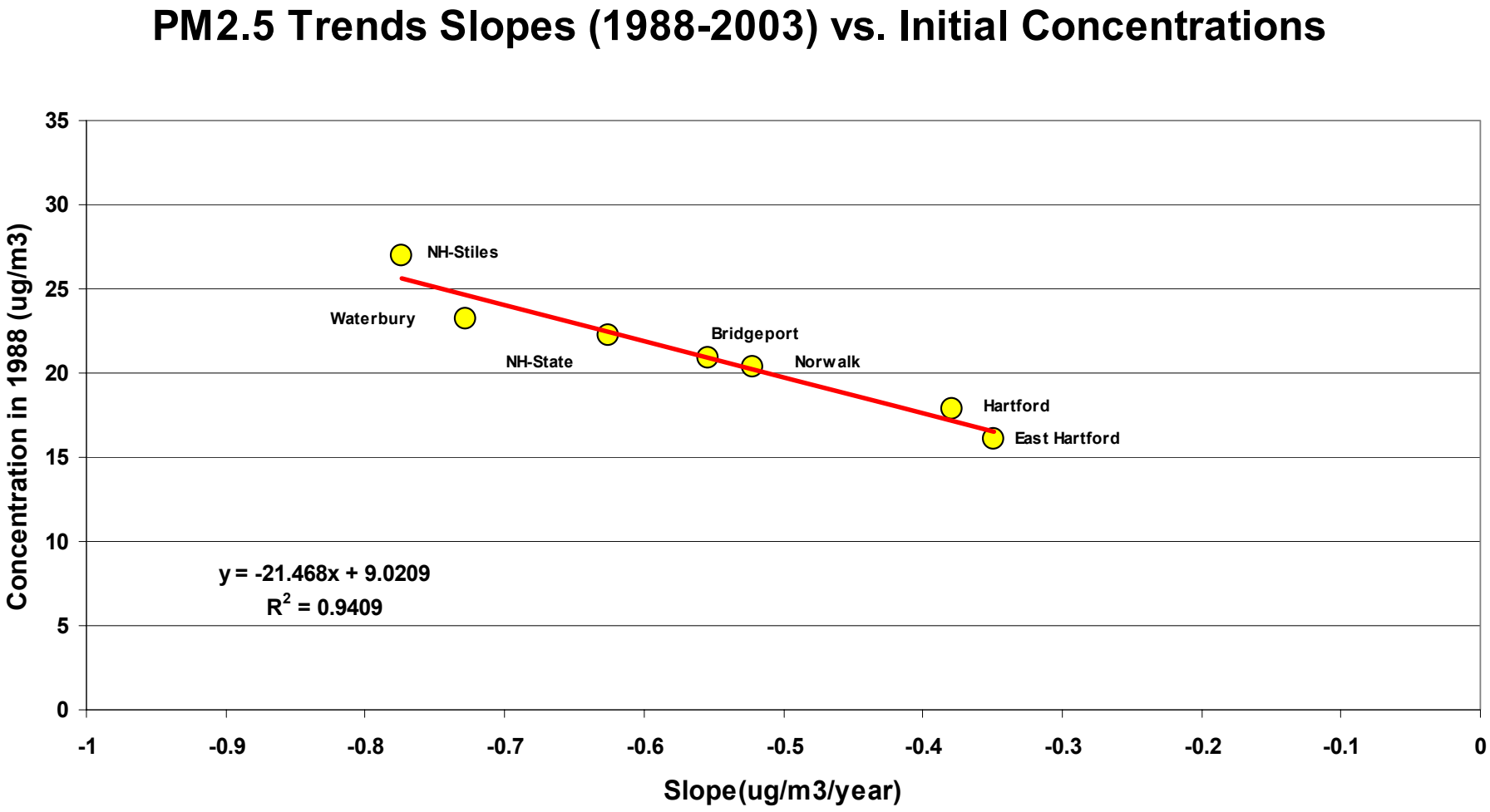

Figure 19. PM2.5 Trends Slopes vs. Initial Concentrations

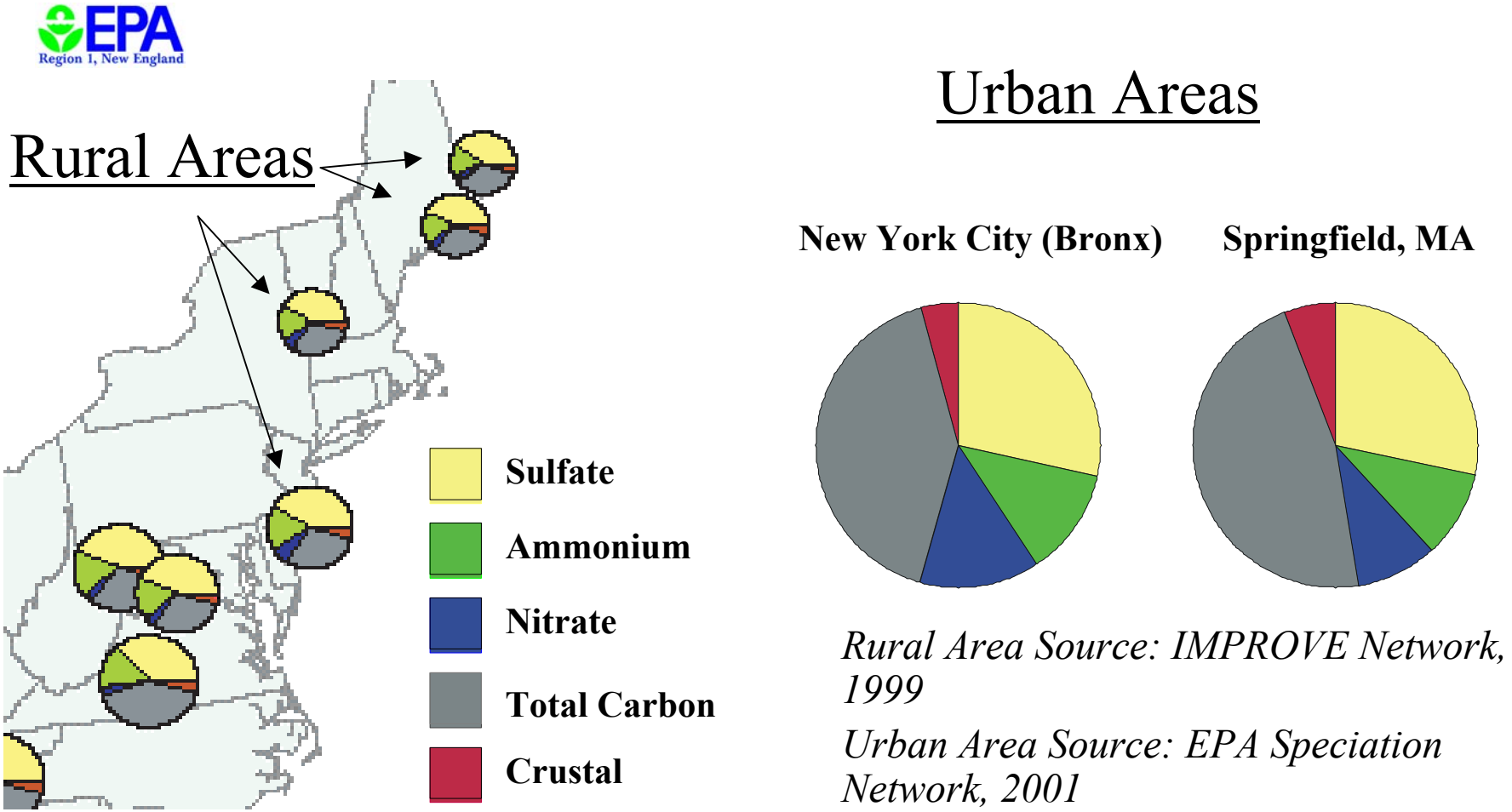

Figure 20. Rural vs. Urban Areas Speciation

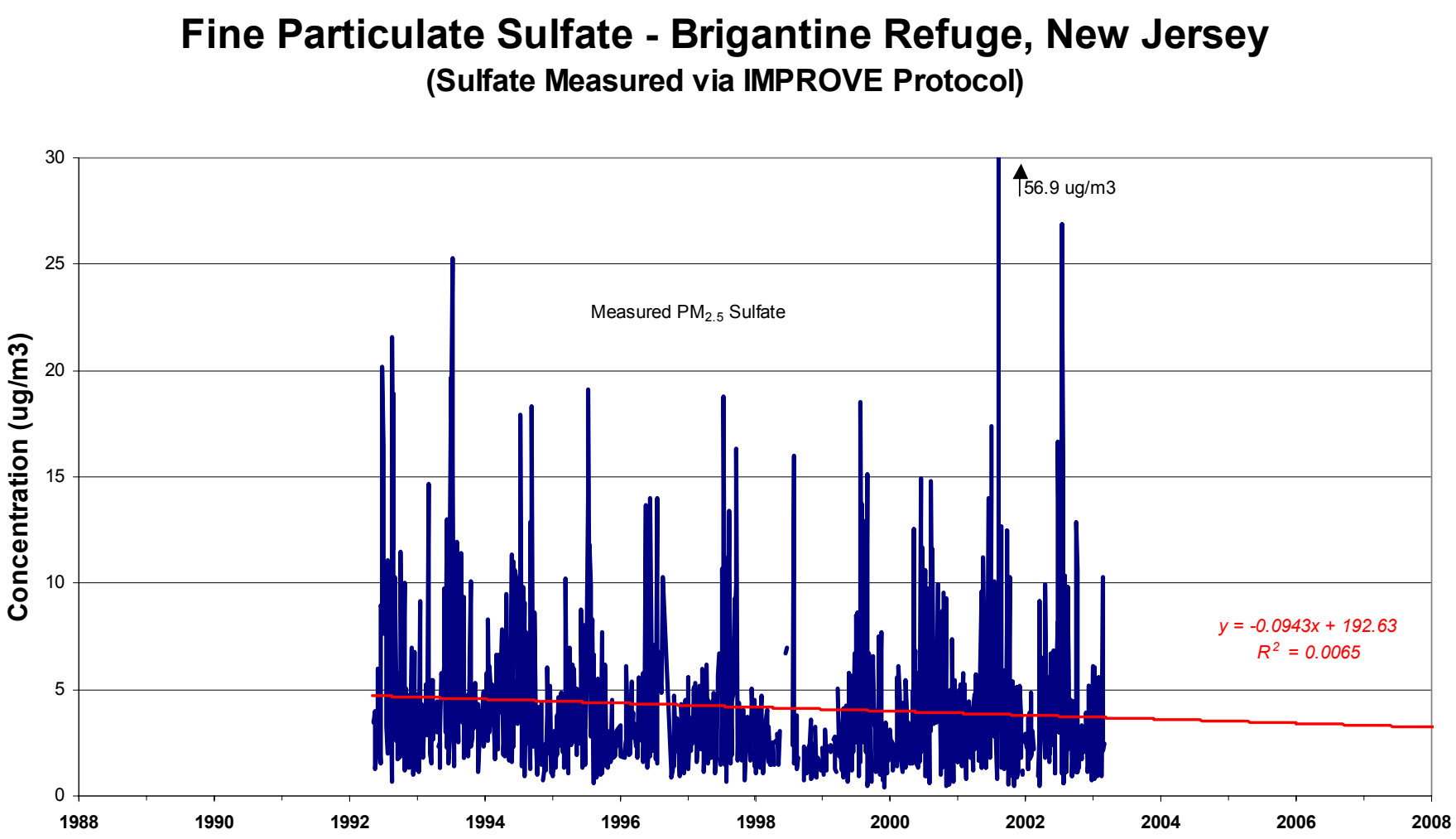

Figure 21. Fine Particulate Sulfate Concentrations at Brigantine Refuge, NJ

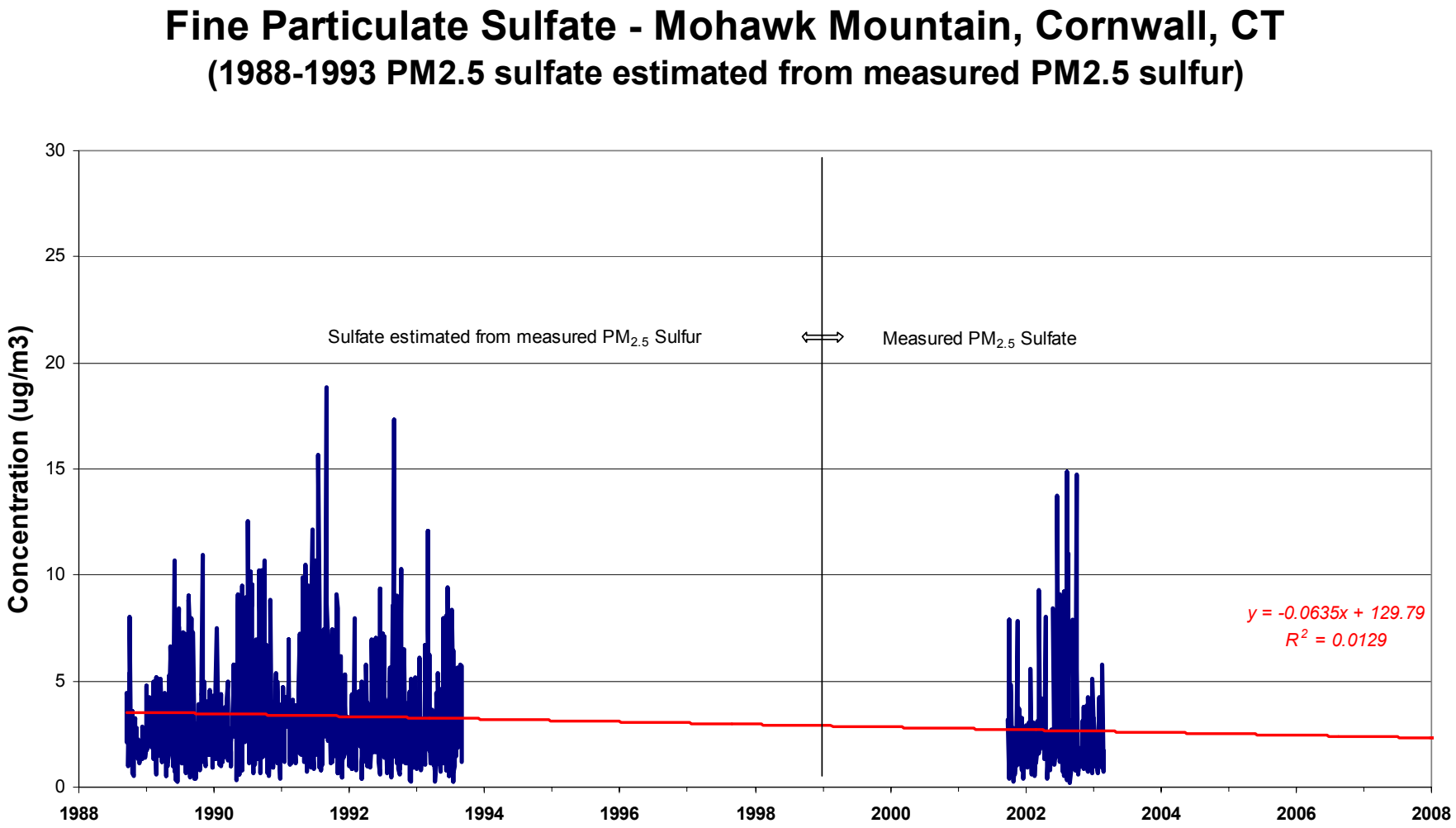

Figure 22. Fine Particulate Sulfate Concentrations at Mohawk Mountain, Cornwall, CT

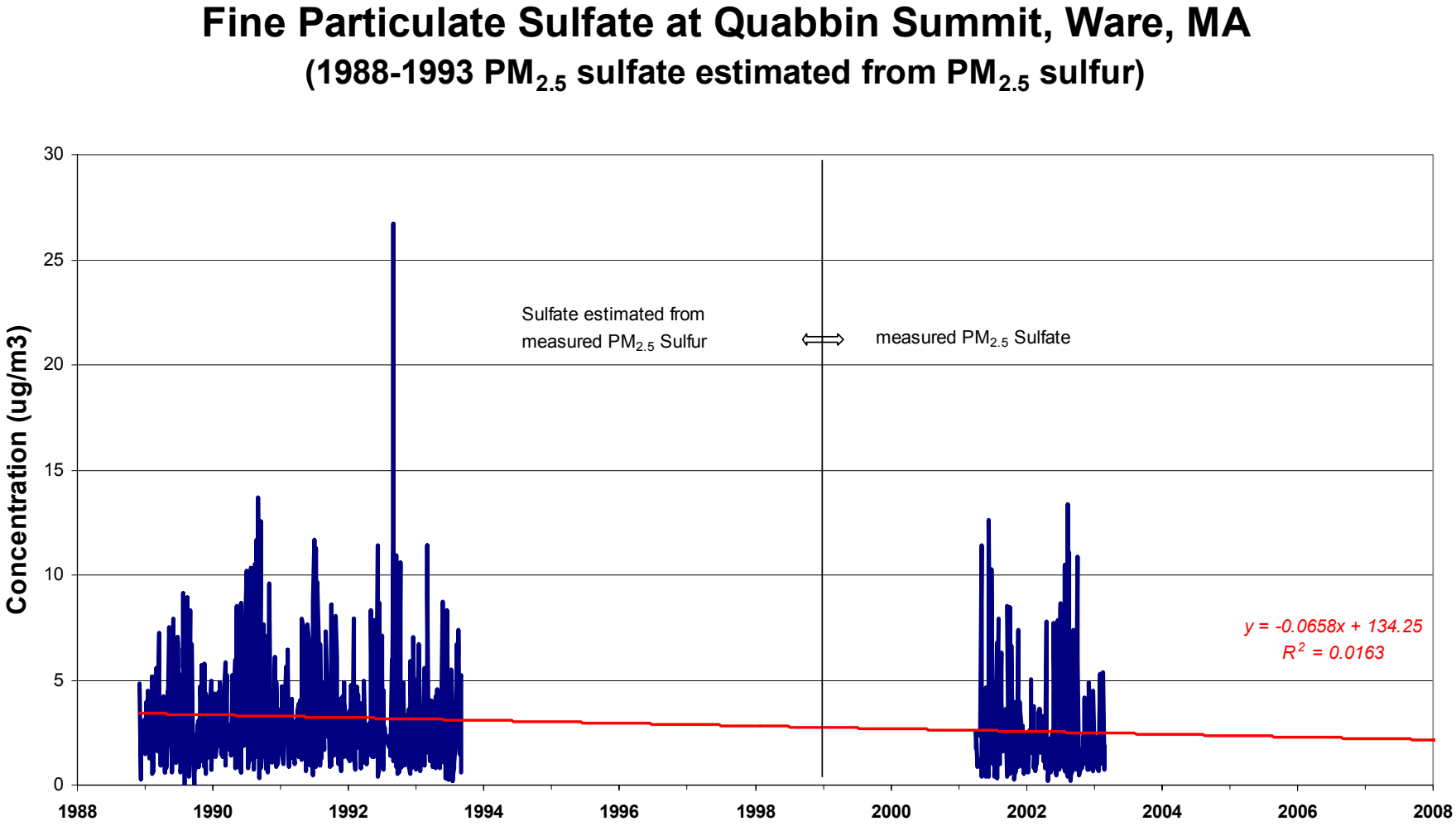

Figure 23. Fine Particulate Sulfate Concentrations at Quabbin Summit, Ware, MA

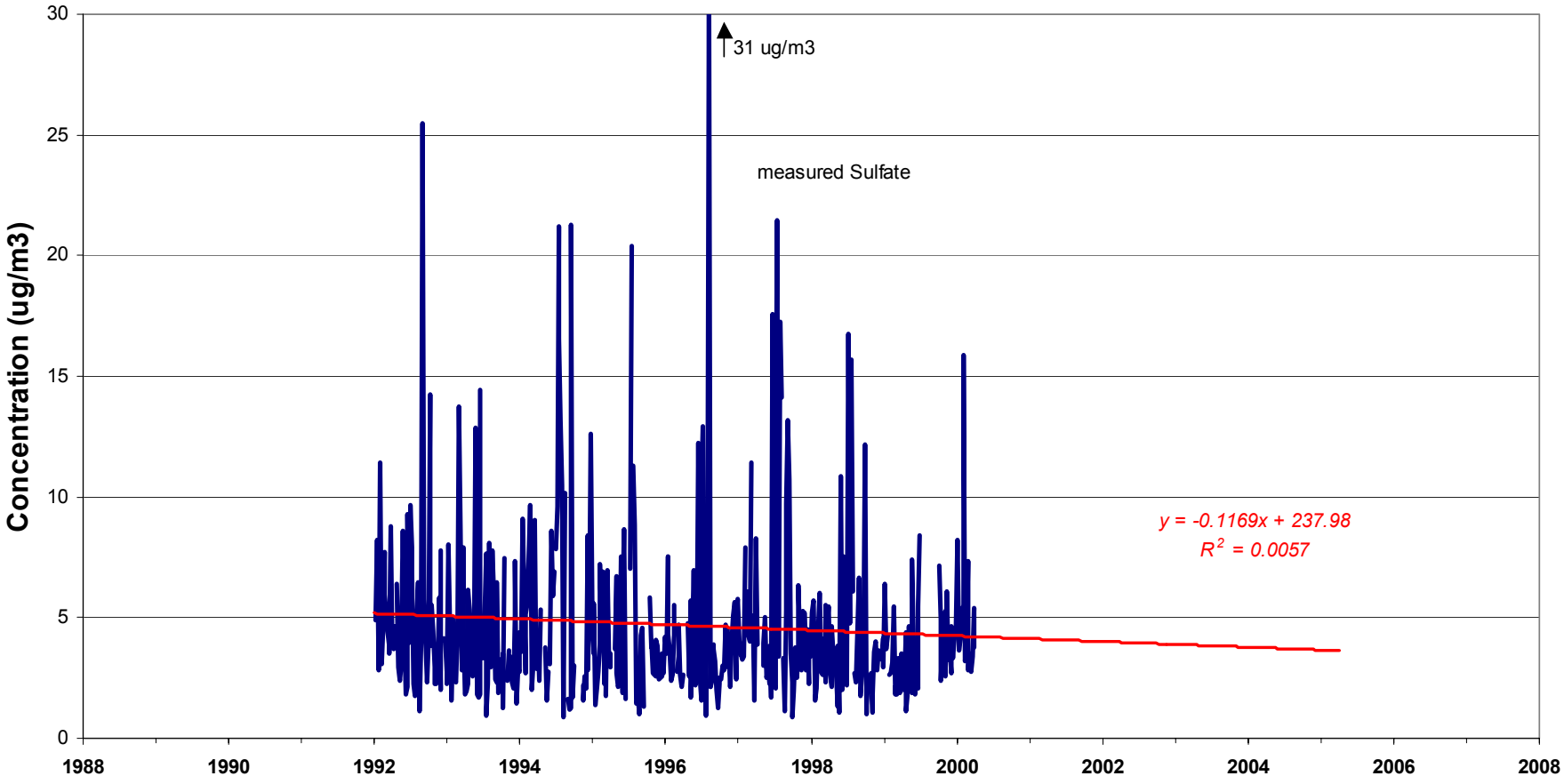

Figure 24. PM10 Sulfate Concentrations at Stiles Street, New Haven

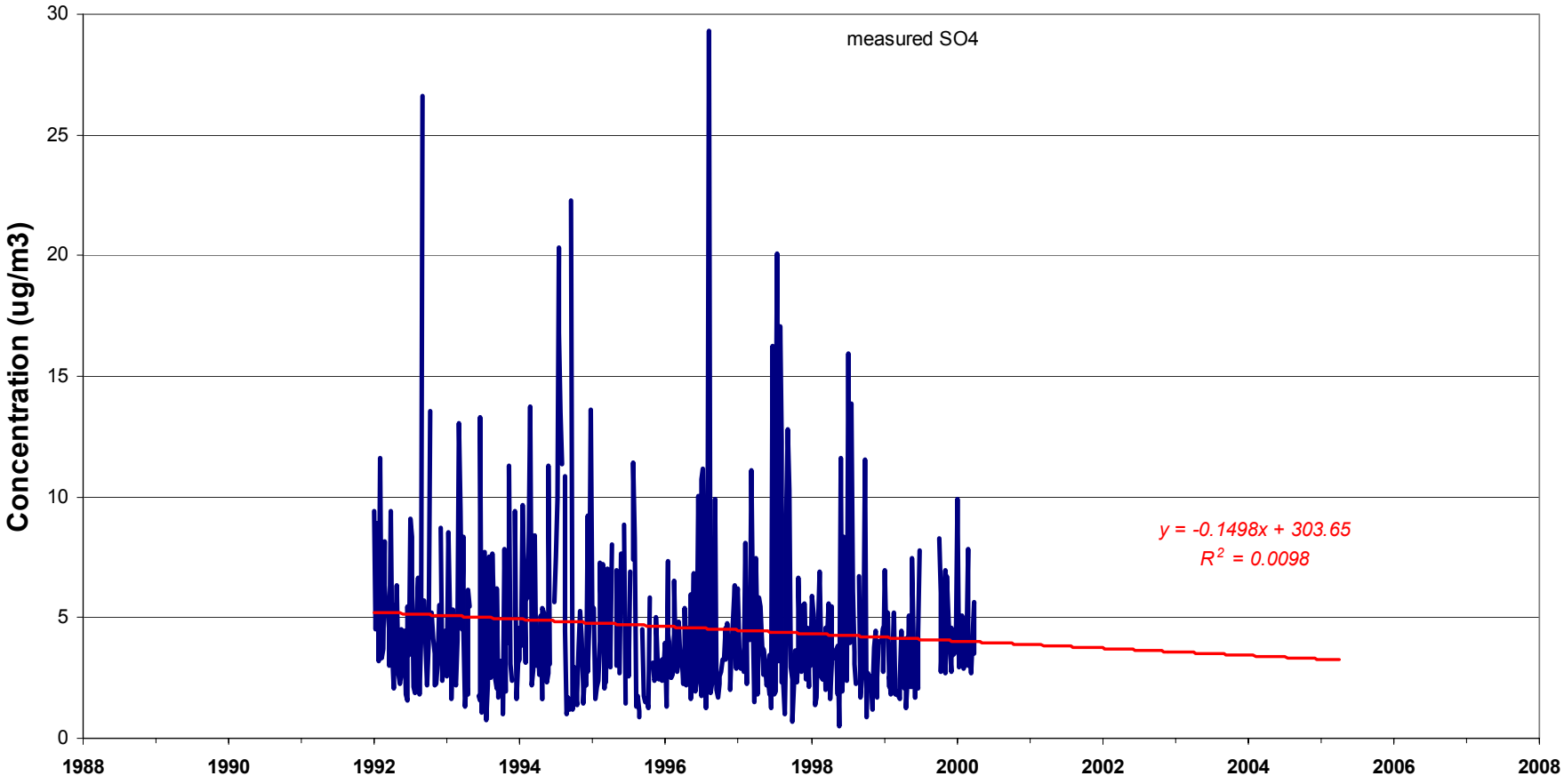

Figure 25. PM10 Sulfate Concentrations at State Street, New Haven

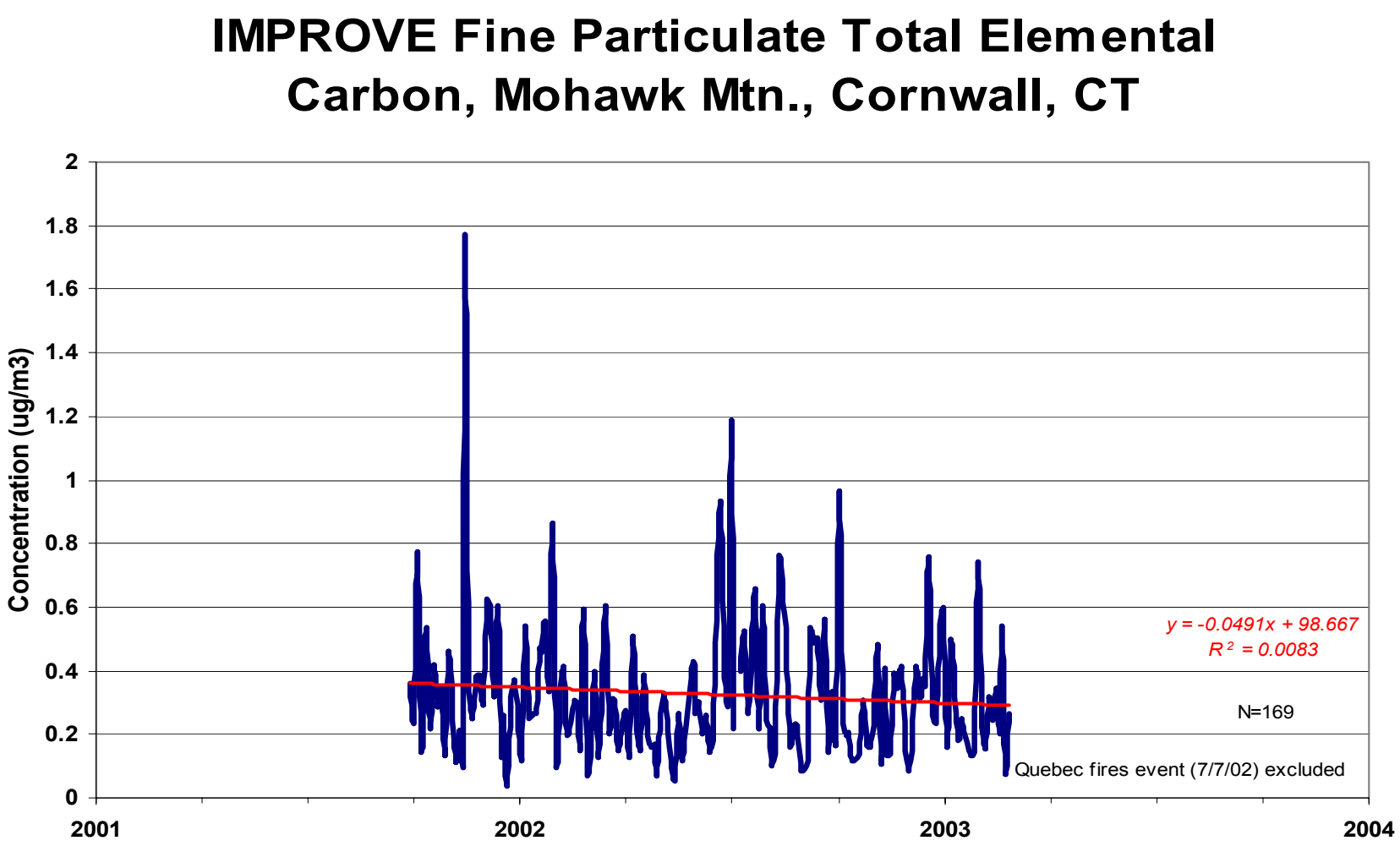

Figure 26. Fine Particulate Total Elemental Carbon, Mohawk Mountain, Cornwall, CT

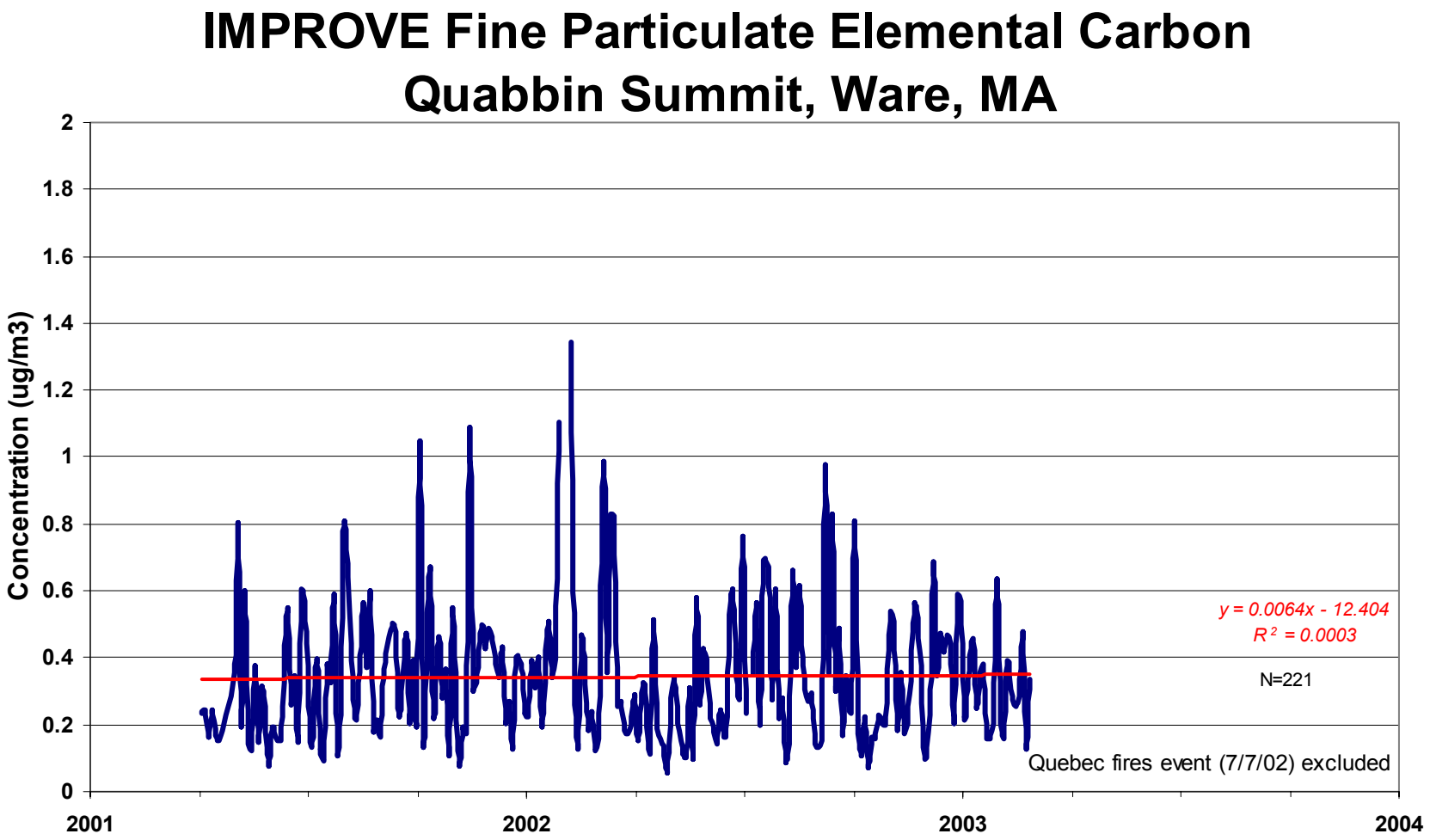

Figure 27. Fine Particulate Elemental Carbon, Quabbin Summit, Ware, MA

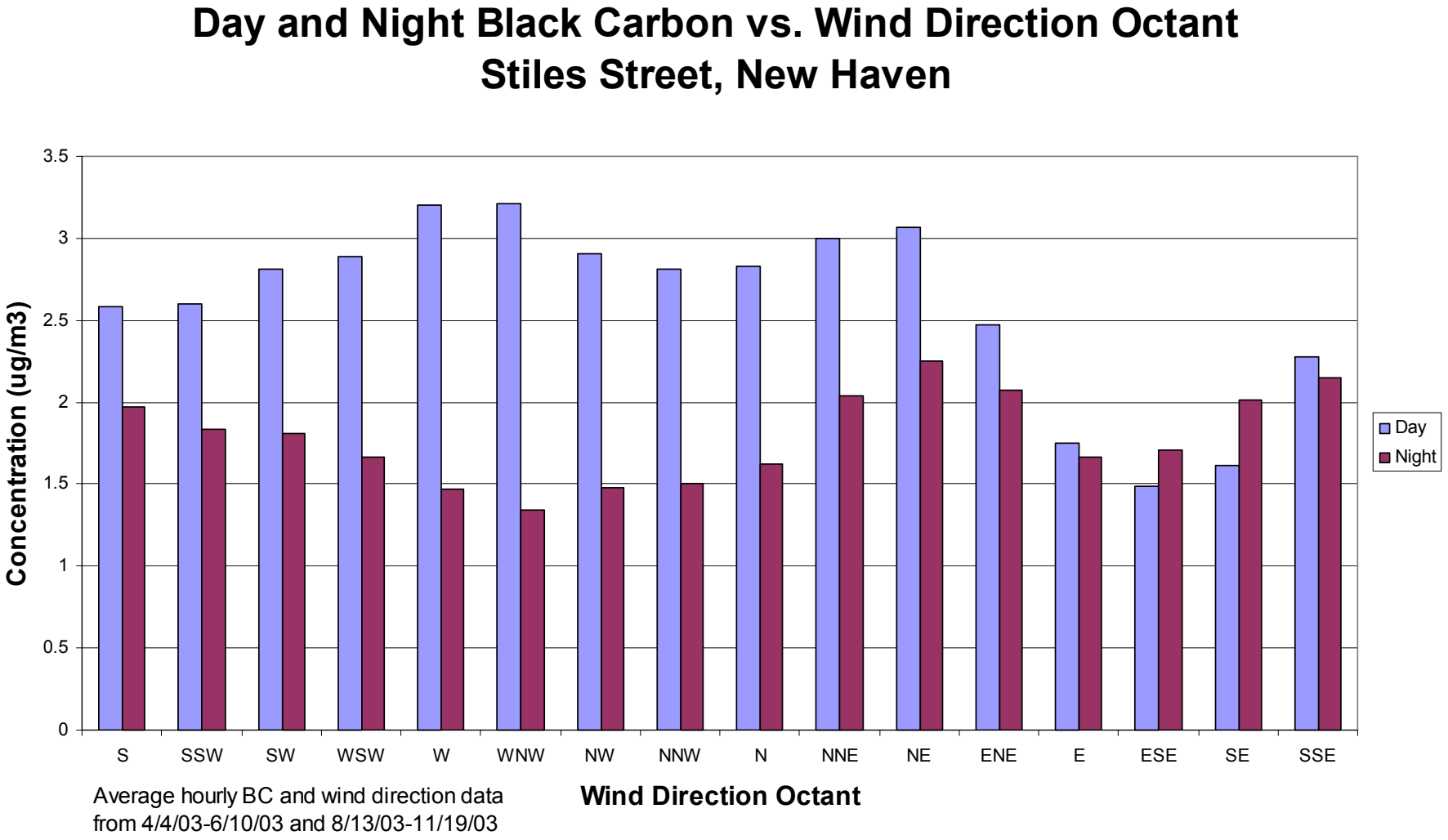

Figure 28. Day and Night Black Carbon vs. Wind Octant at Stiles Street, New Haven

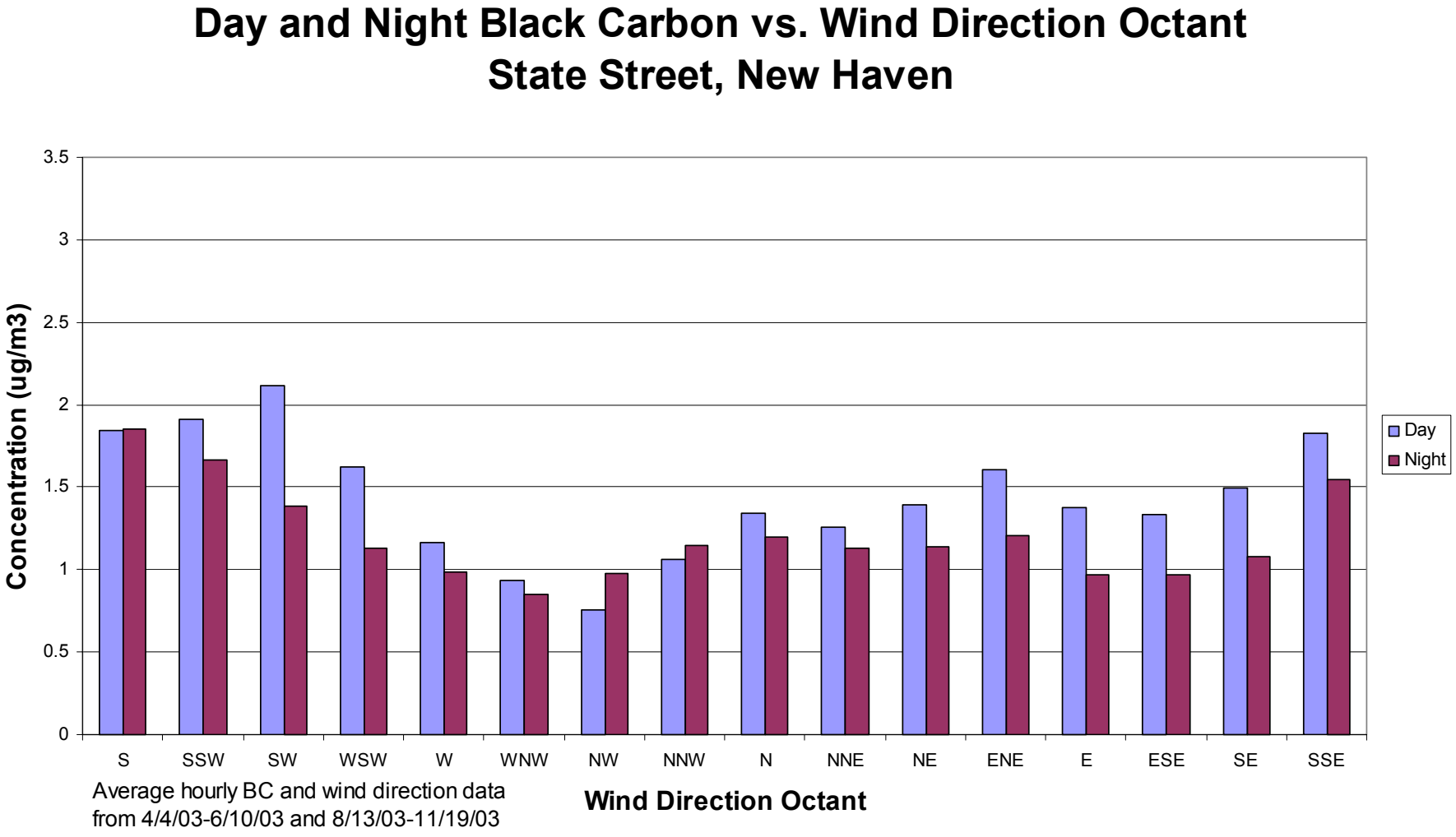

Figure 29. Day and Night Black Carbon vs. Wind Octant at State Street, New Haven

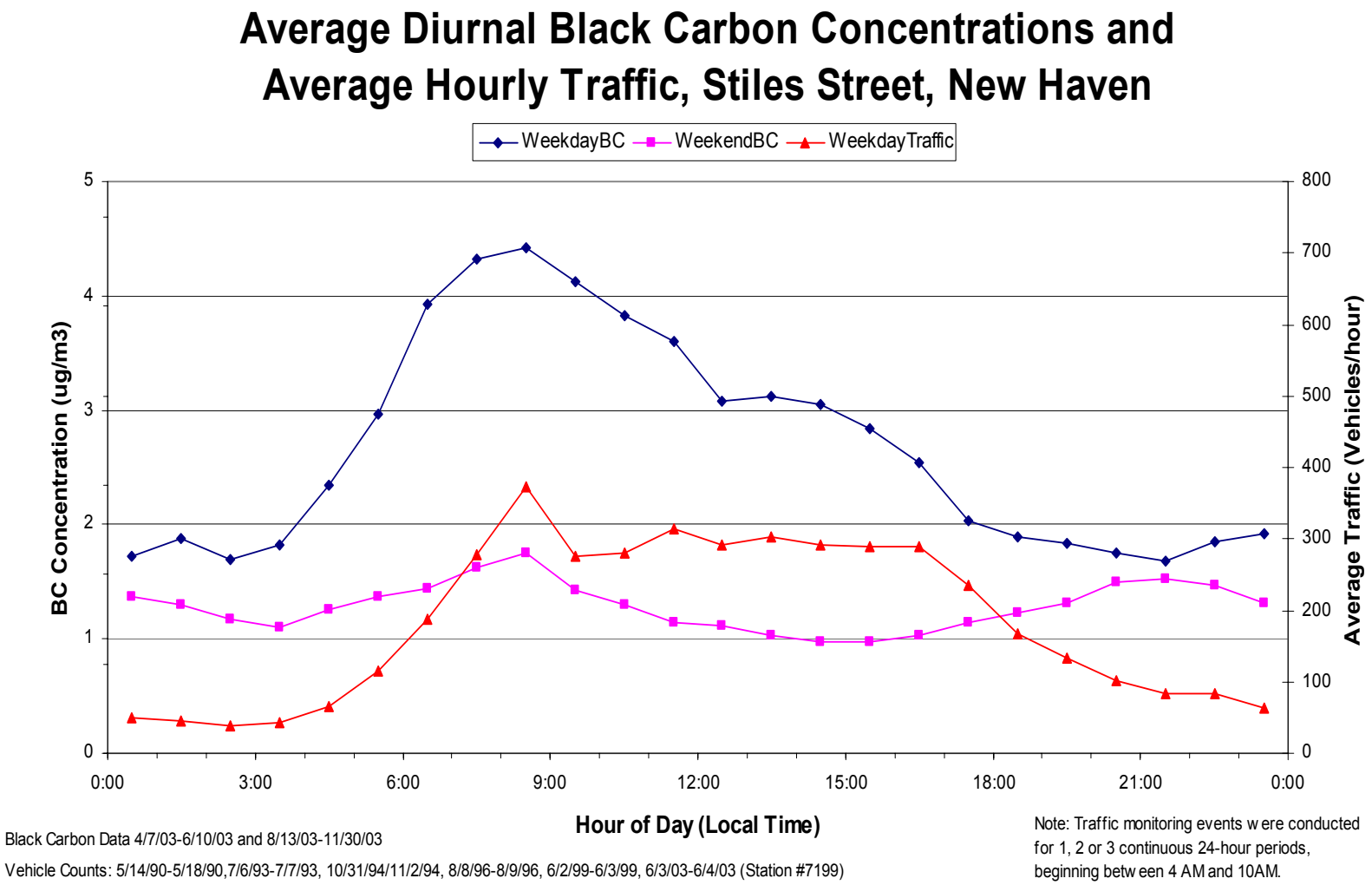

Figure 30. Average Diurnal BC Concentrations and Average Hourly Traffic, Stiles Street, New Haven

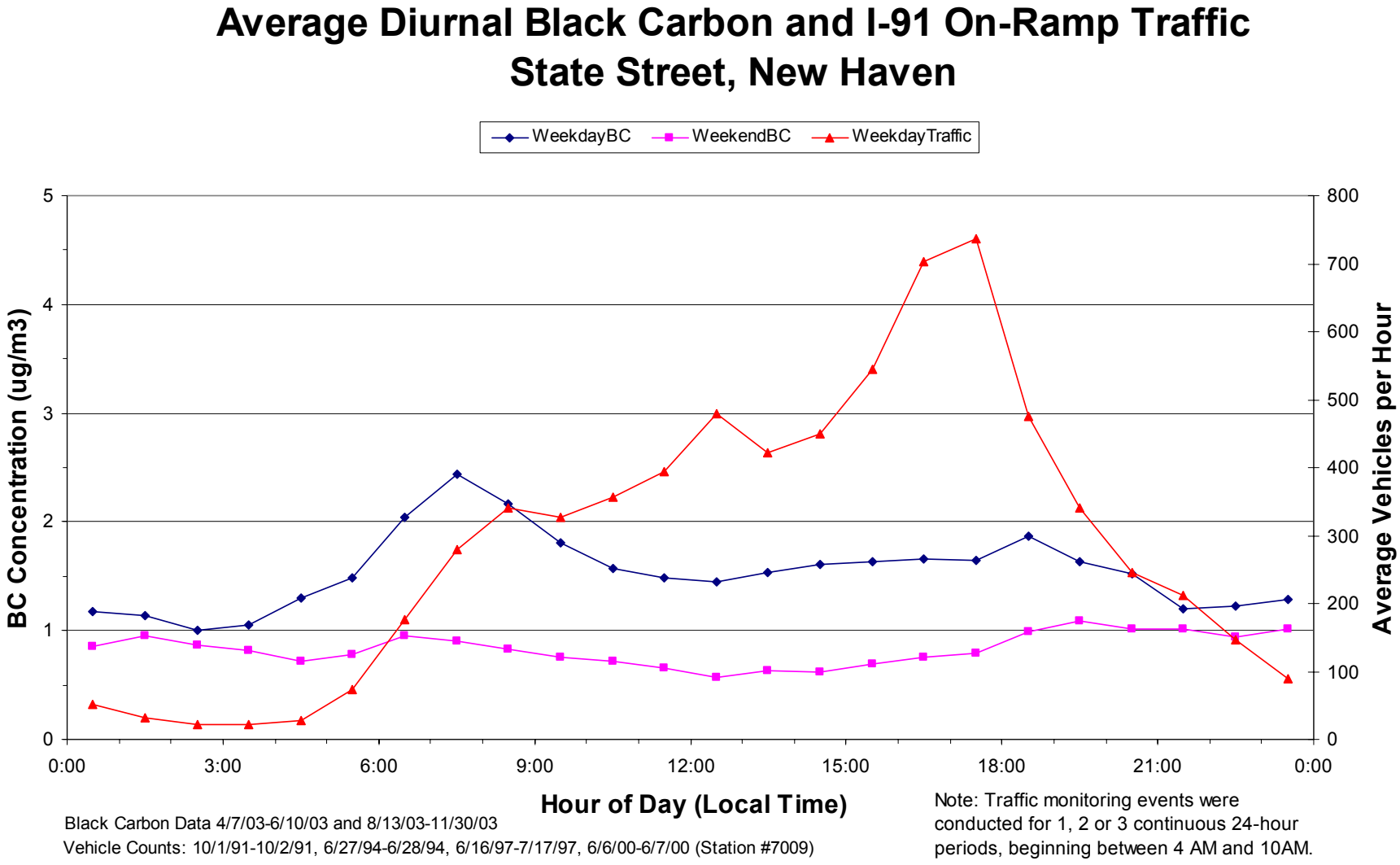

Figure 31. Average Diurnal BC Concentrations and I-91 on-Ramp Traffic, State Street, New Haven

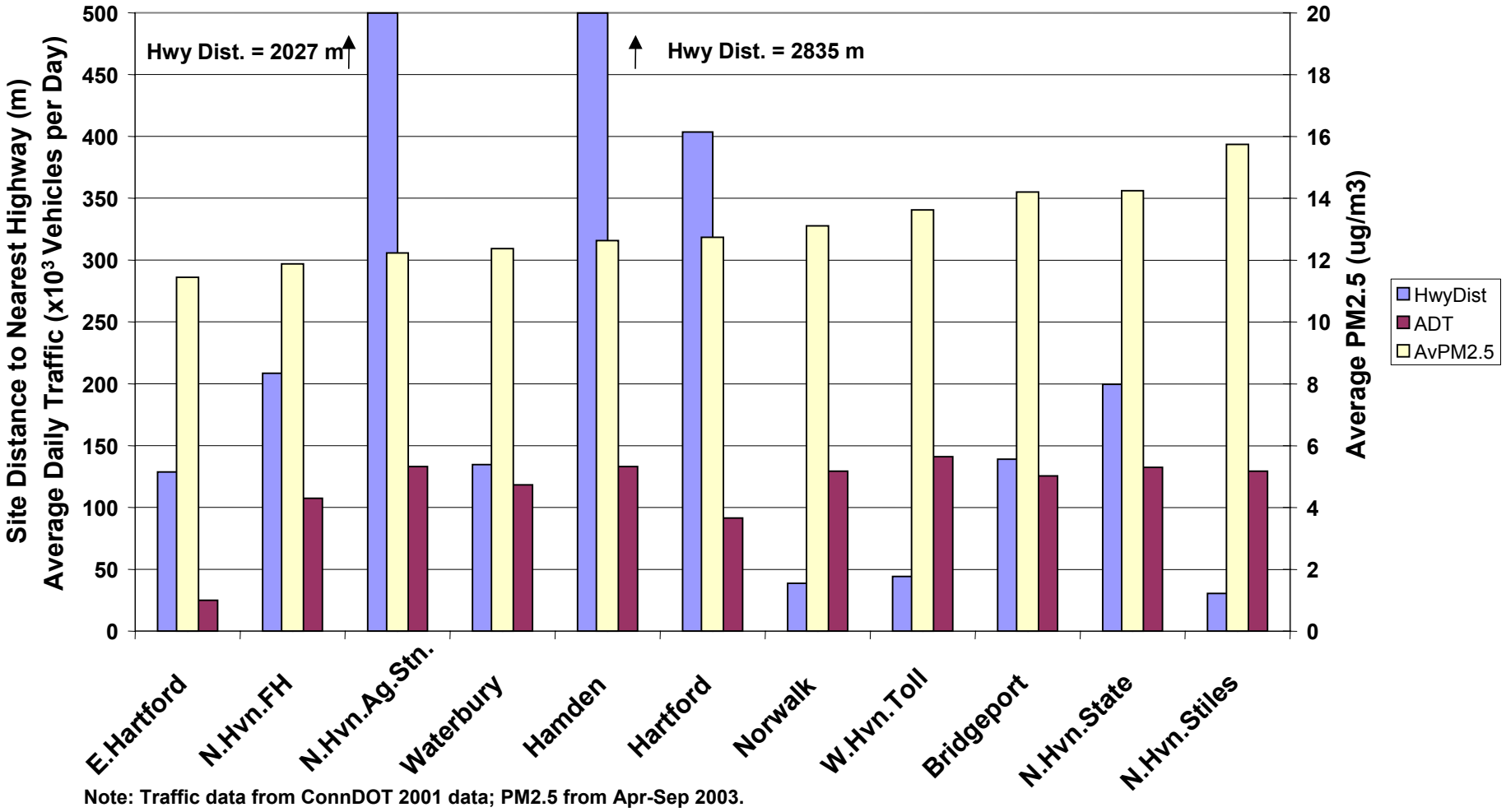

Figure 32. Comparison of Site Traffic, Distance to Highway, and PM2.5 Concentrations

ISC Modeling of Primary PM2.5 Emissions from CT, NY and NJ Sources

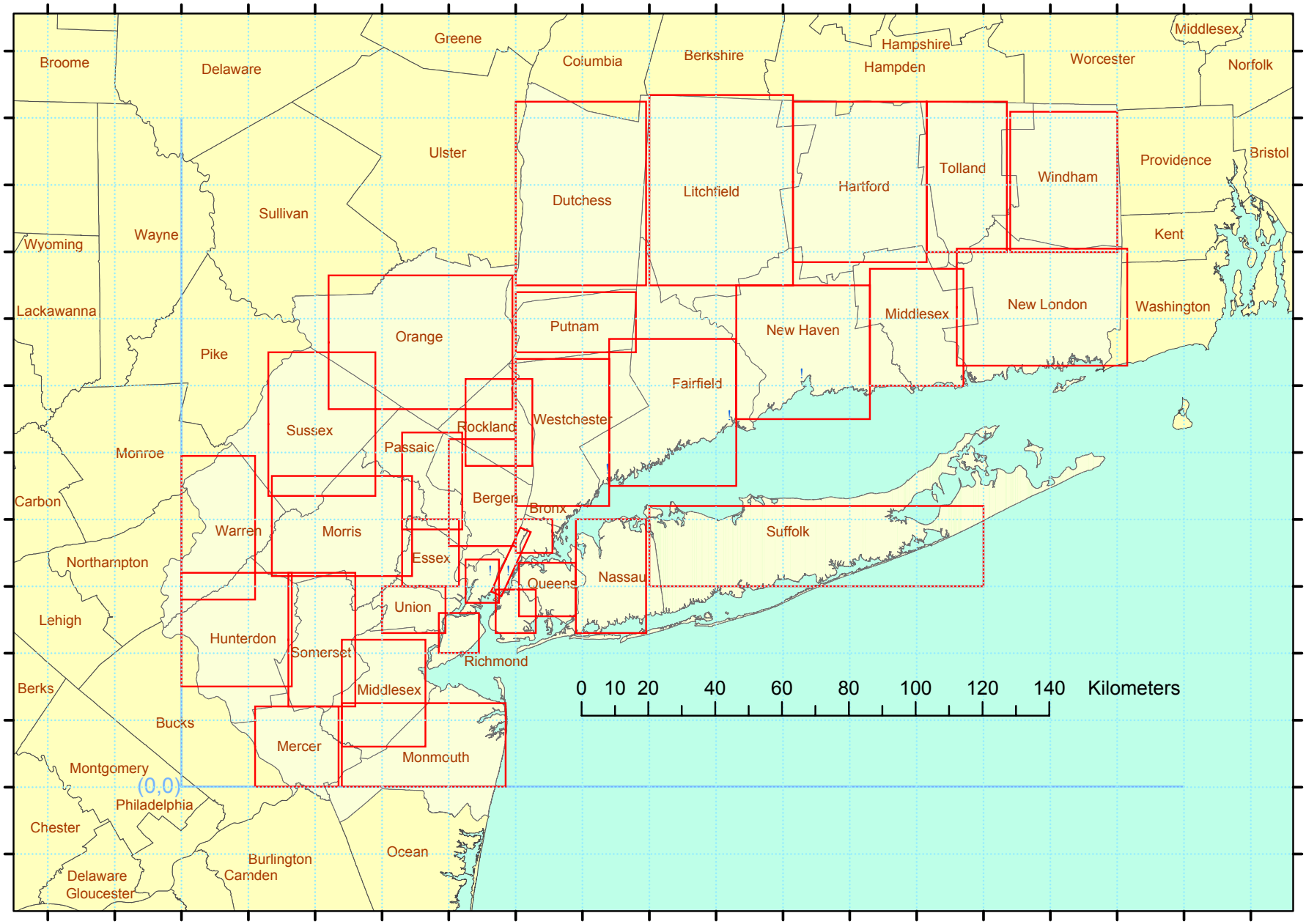

Figure 33: Area Source Counties.

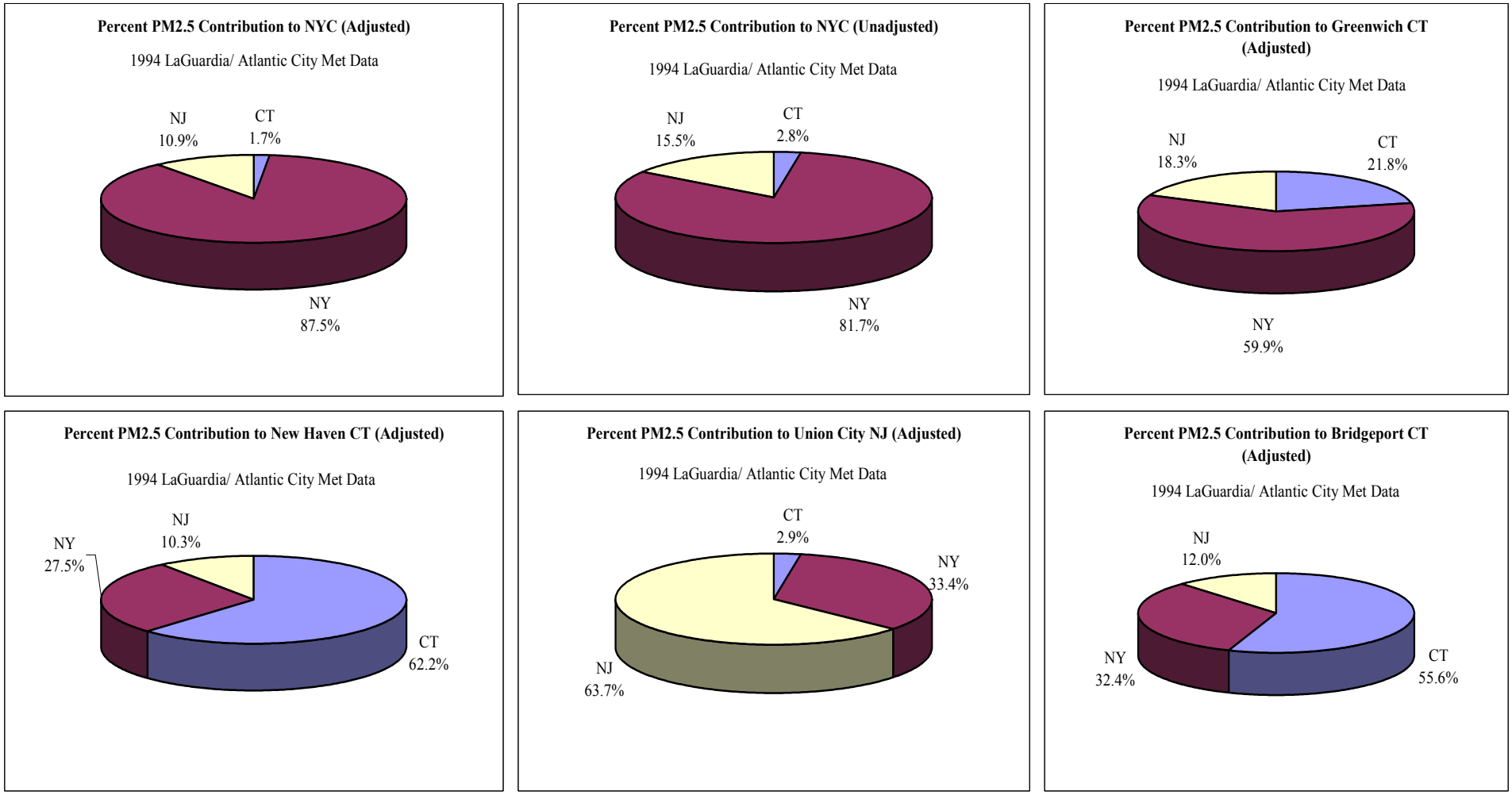

Figure 34: State Primary $PM_{2.5}$ Emissions Contributions to Total $PM_{2.5}$ Modeled at Selected Receptors

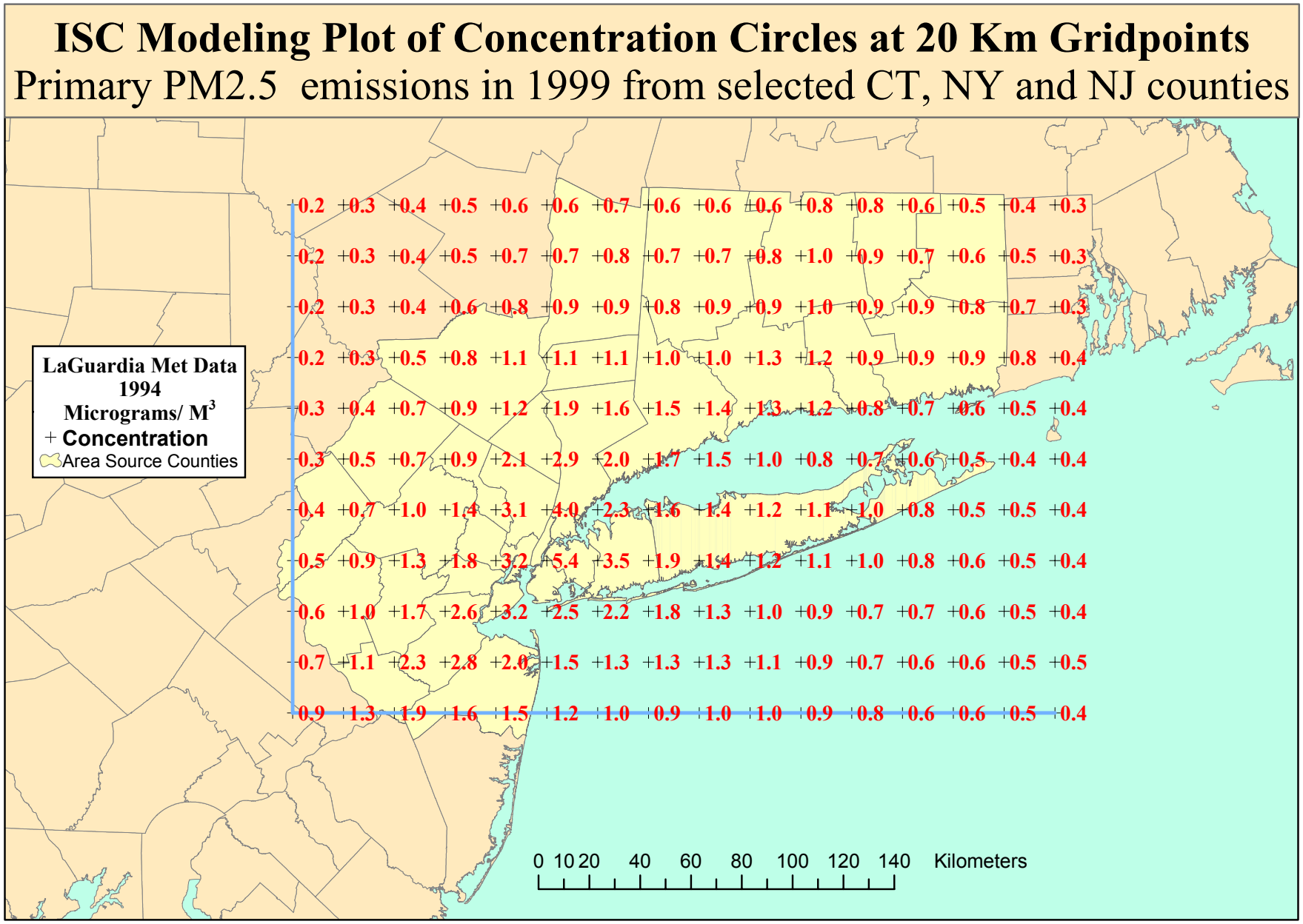

Figure 35: Modeling Results at 20 km Grid Points using LaGuardia Surface Meteorology Data

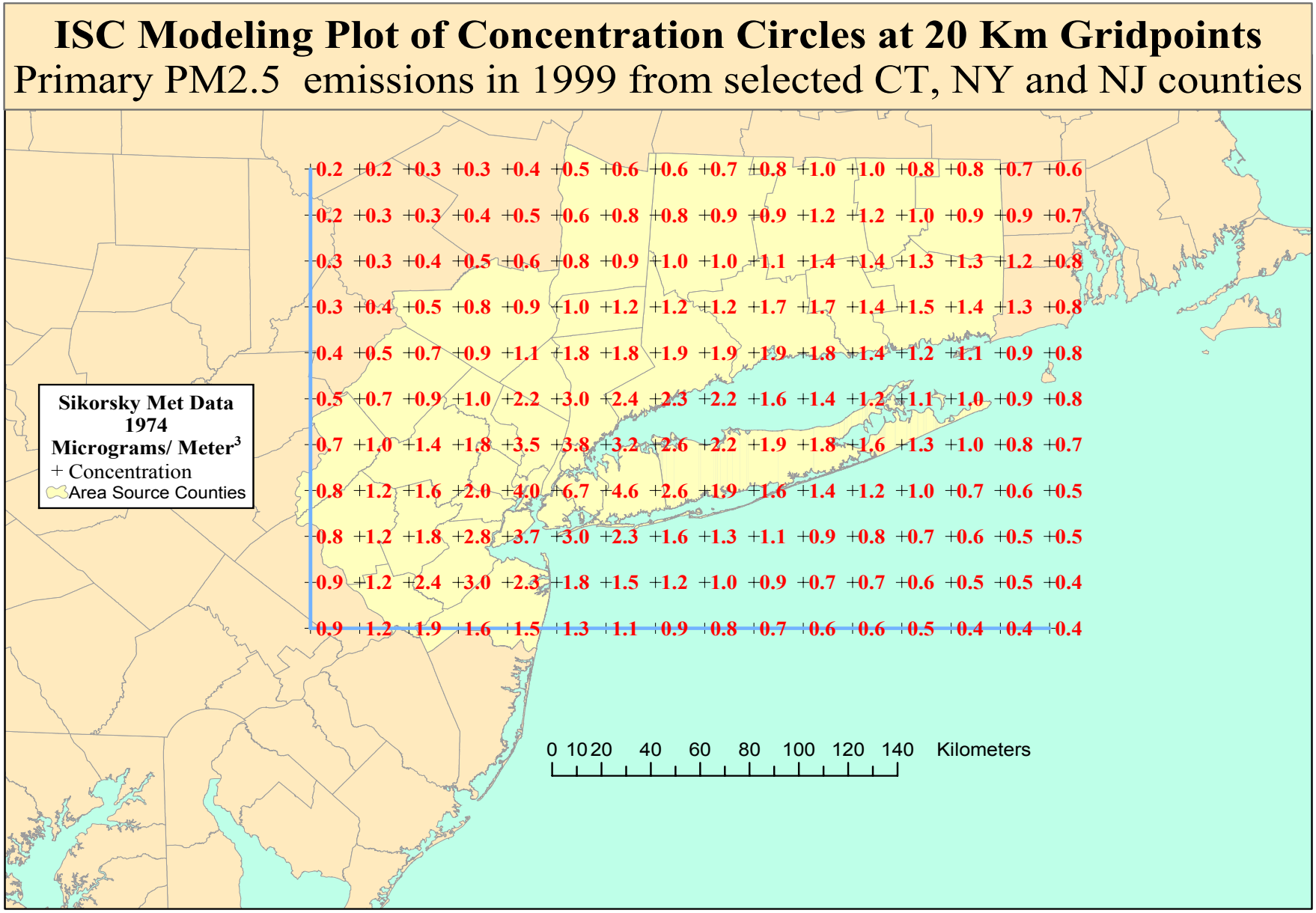

Figure 36: Modeling Results at 20 km Grid Points using Bridgeport Surface Meteorology Data

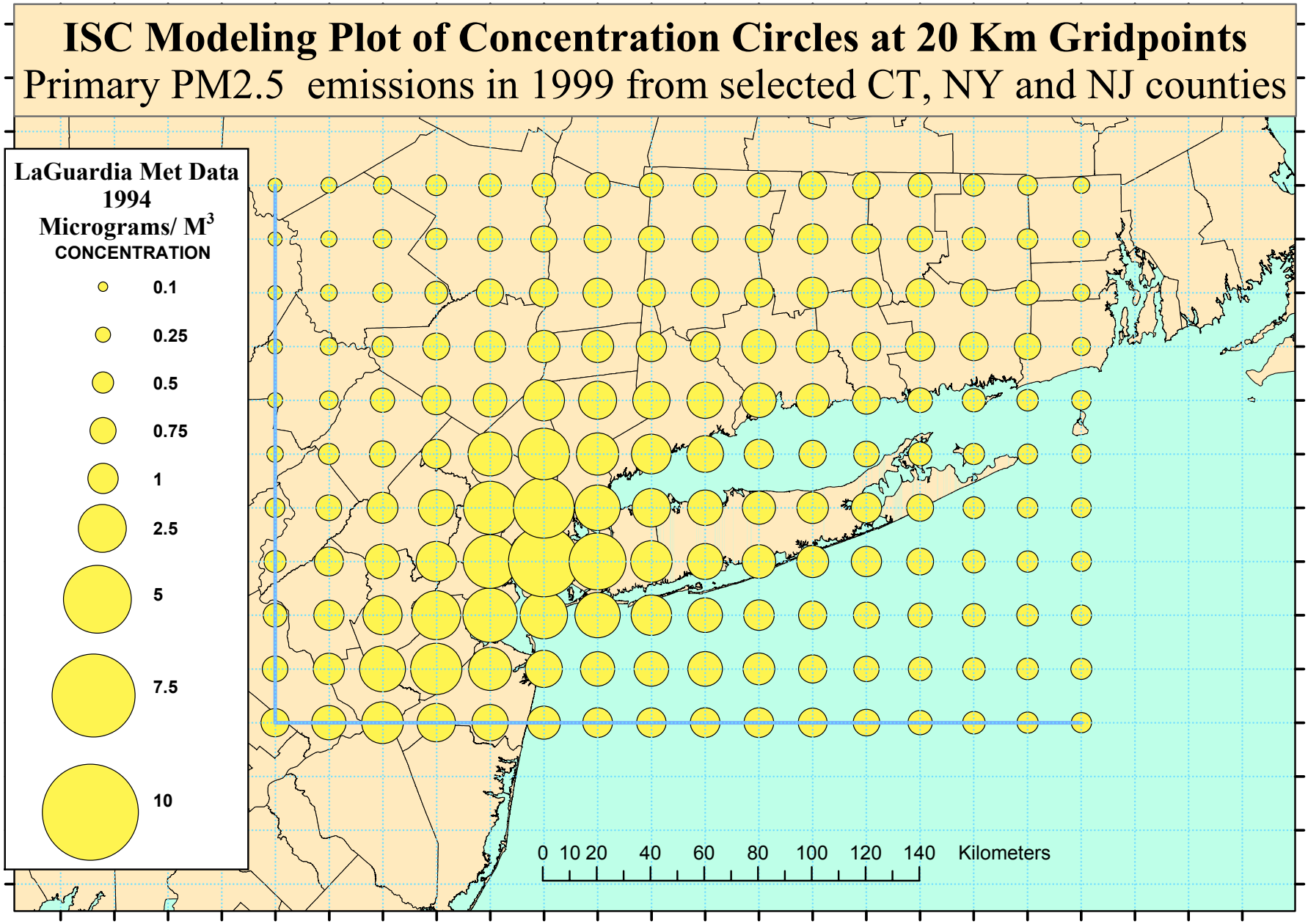

Figure 37: Grid Point Data Represented as Concentration Circles (LaGuardia Meteorology).

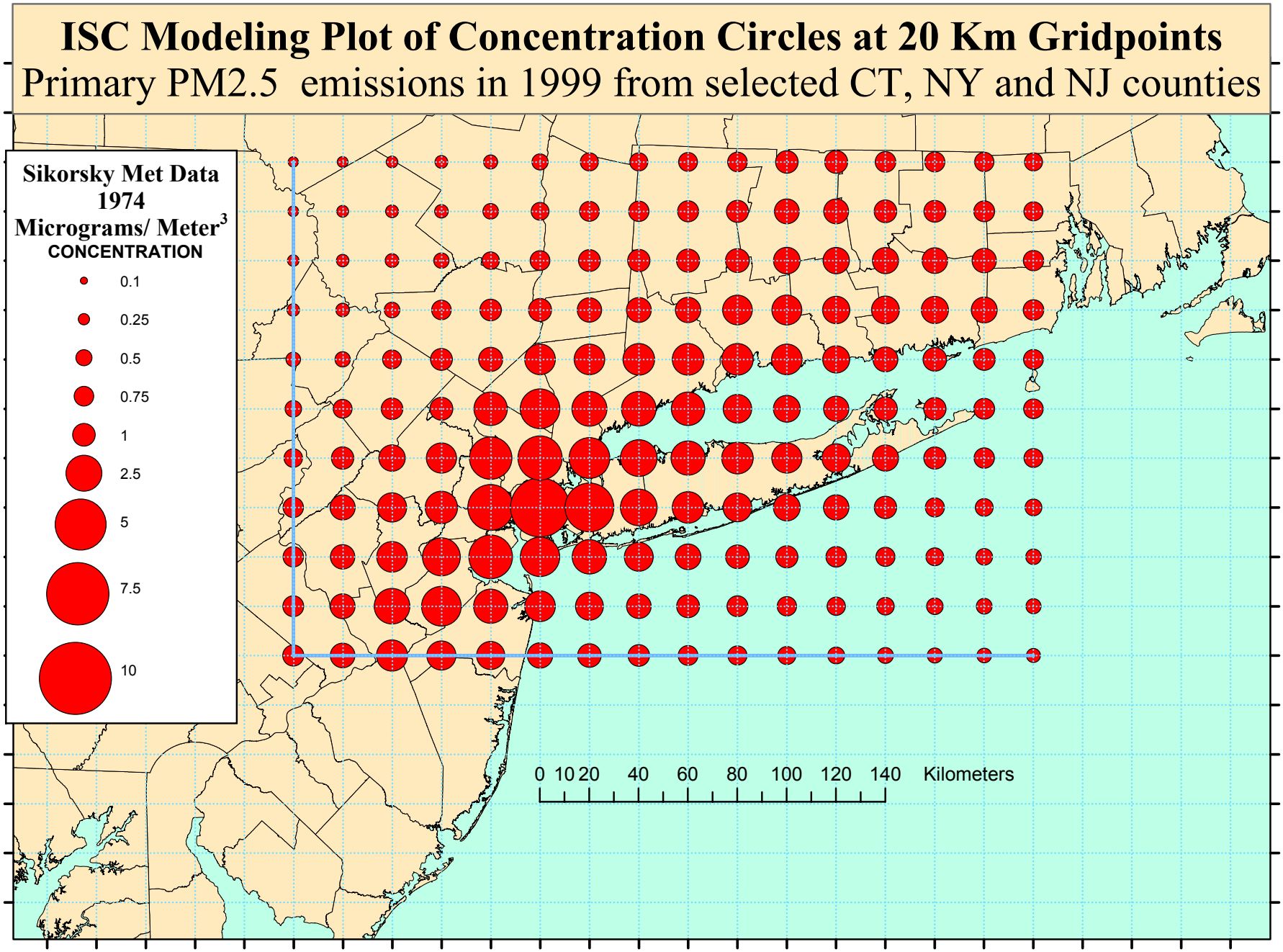

Figure 38: Grid Point Data Represented as Concentration Circles (Bridgeport Meteorology).

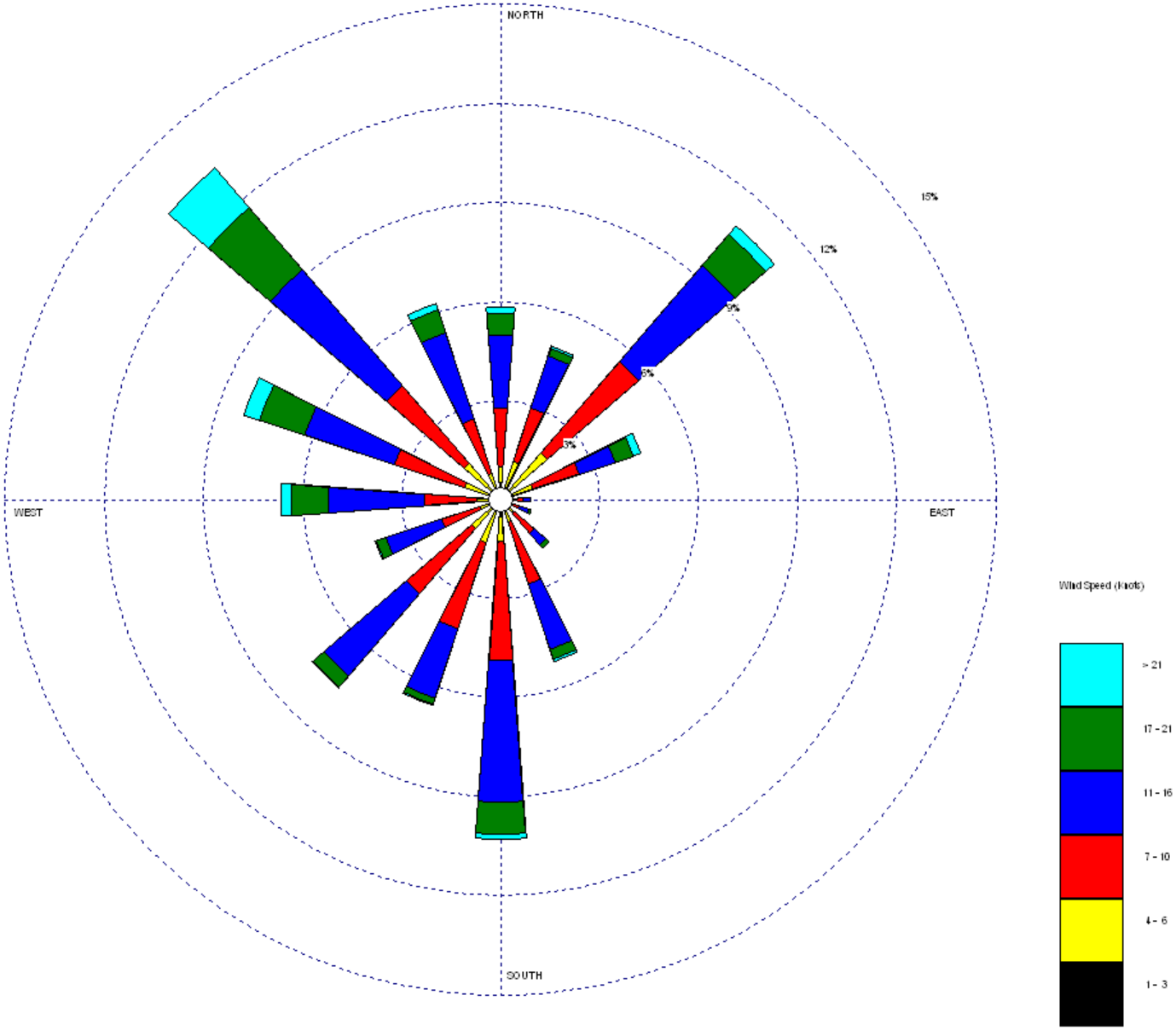

Figure 39: 1994 LaGuardia Airport Surface Met Data Wind Rose Diagram

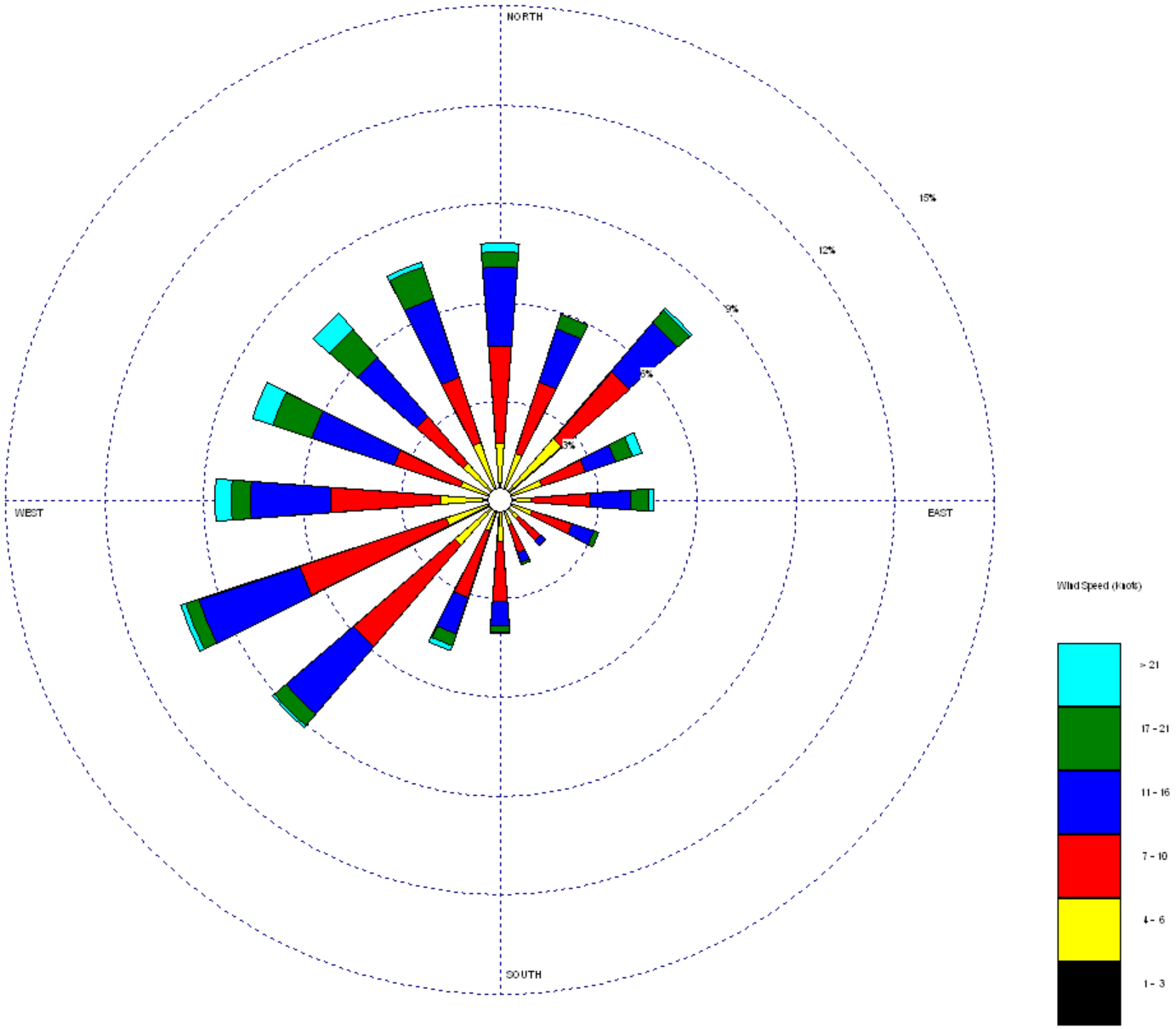

Figure 40: 1974 Bridgeport Surface Met Data Wind Rose Diagram.

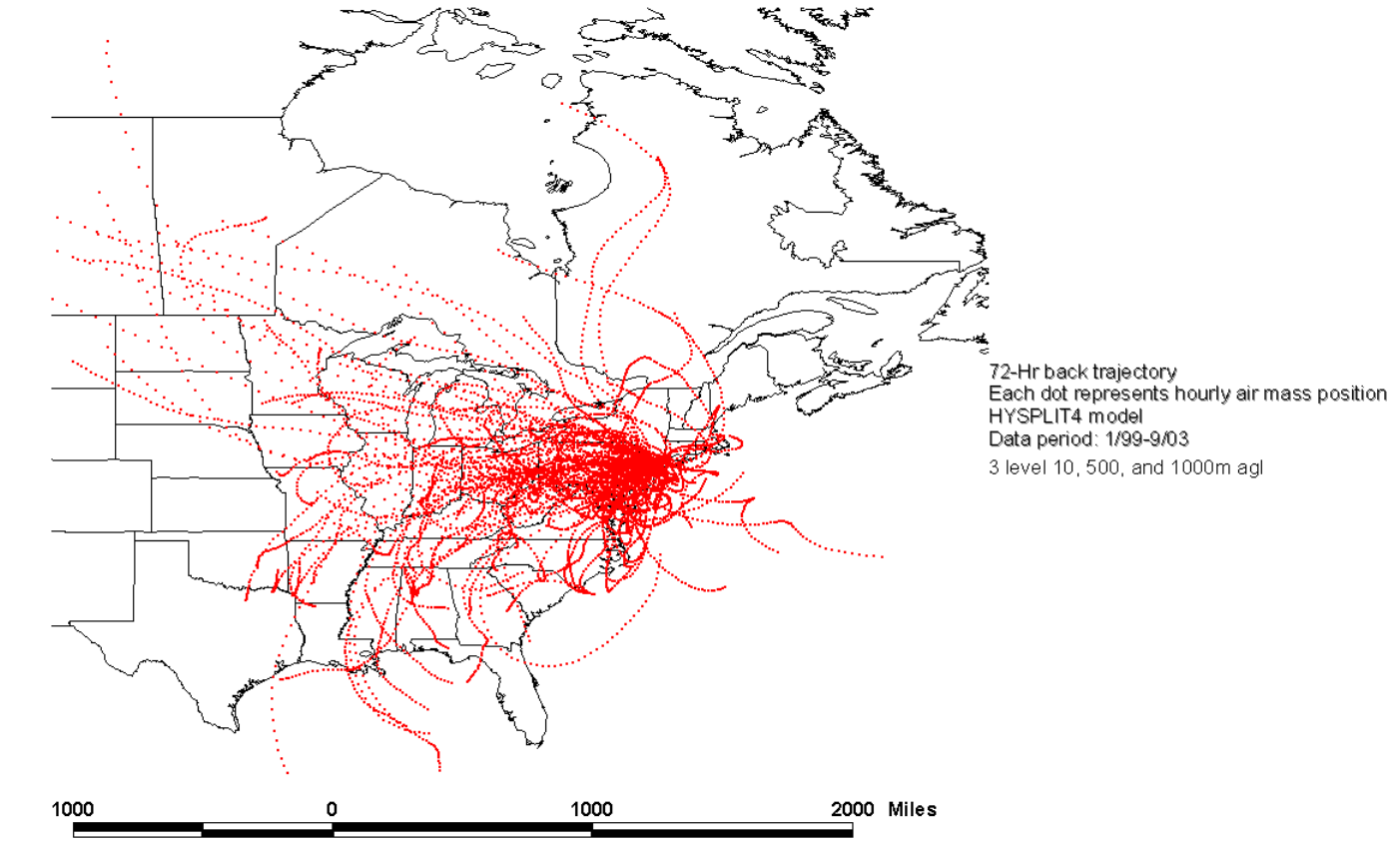

Figure 41. Back Trajectories on Highest 10th Percentile Days

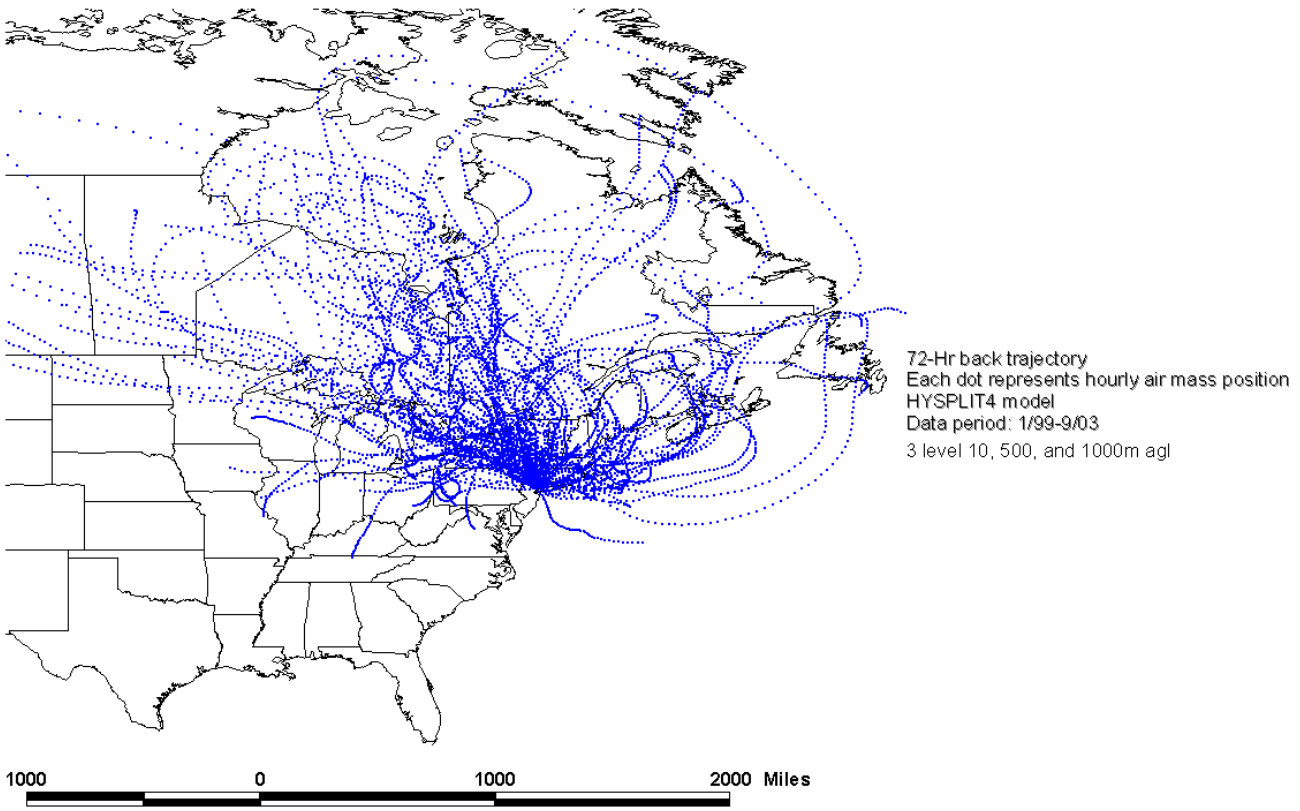

Figure 42. Back Trajectories on Lowest 10th Percentile Days