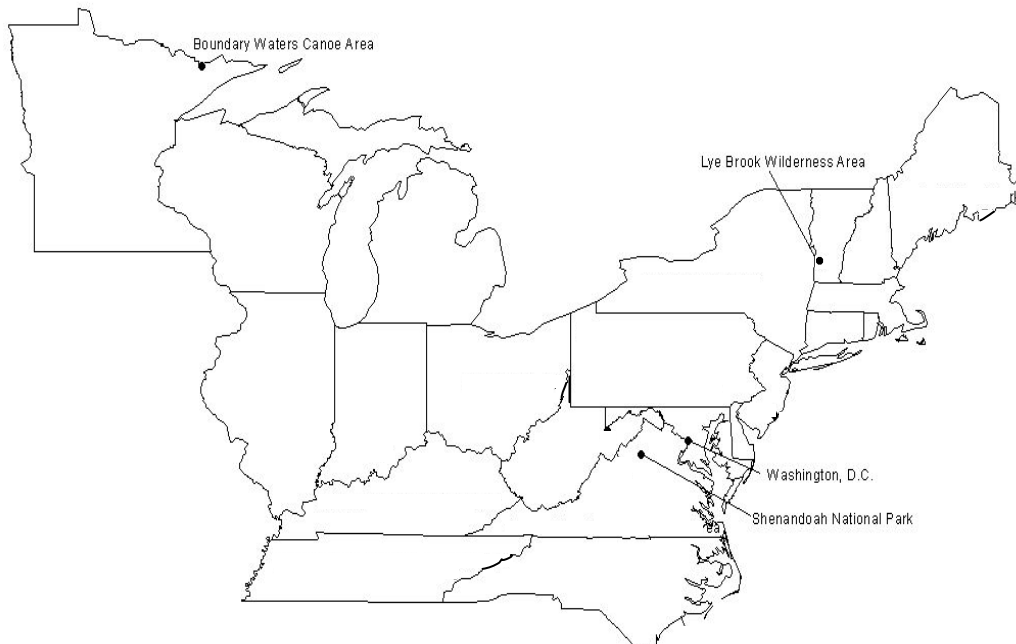


MANE-VU

Mid-Atlantic/Northeast Visibility Union

Source Apportionment Analysis of Air Quality Monitoring Data: Phase II



Final Report

APPENDIX 6.3

PMF Time Series Scores Plots

Prepared by
Desert Research Institute

March 2005

for the
Mid-Atlantic/Northeast Visibility Union
and
Midwest Regional Planning Organization

Submitted to the United States Environmental Protection Agency, Region III under EPA Agreement X-983384-01-0
and to the United States Environmental Protection Agency, Region V under EPA Agreement A-97522601-1.



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SOURCE APPORTIONMENT ANALYSIS OF AIR QUALITY MONITORING DATA: PHASE II

This interim report was prepared by the Desert Research Institute, under contract to MARAMA. Funds for preparation of this report were provided to MARAMA by both MANE-VU and the Midwest RPO.

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6. RECEPTOR MODELING

6.3 PMF Scores Plots

Scores plots for each of the nine PMF modeled sources and each of the four sampling sites are plotted below. Recorded events, which have been confirmed by these plots, include the Asian dust storm on April, 1998 (Boundary Waters canoe Area, Source 2, Crustal) and the Canada fires on August 12, 1998 (Boundary Waters canoe Area, Source 9, Vegetative Burning)

6.3.1 Boundary Waters Canoe Area

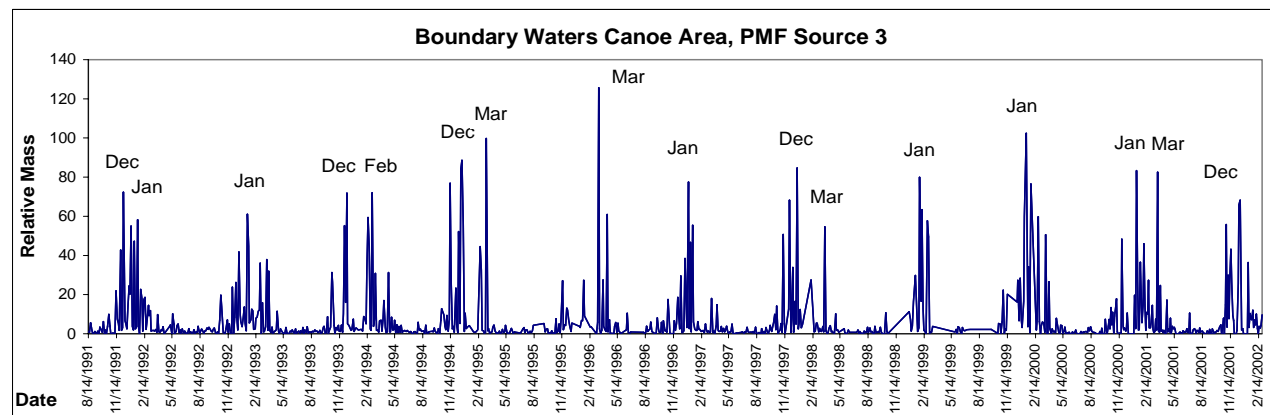
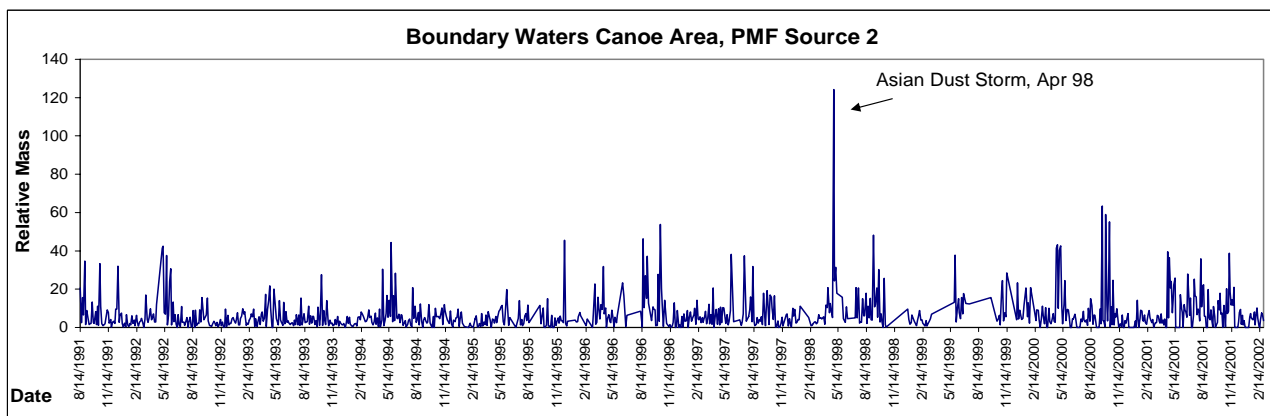
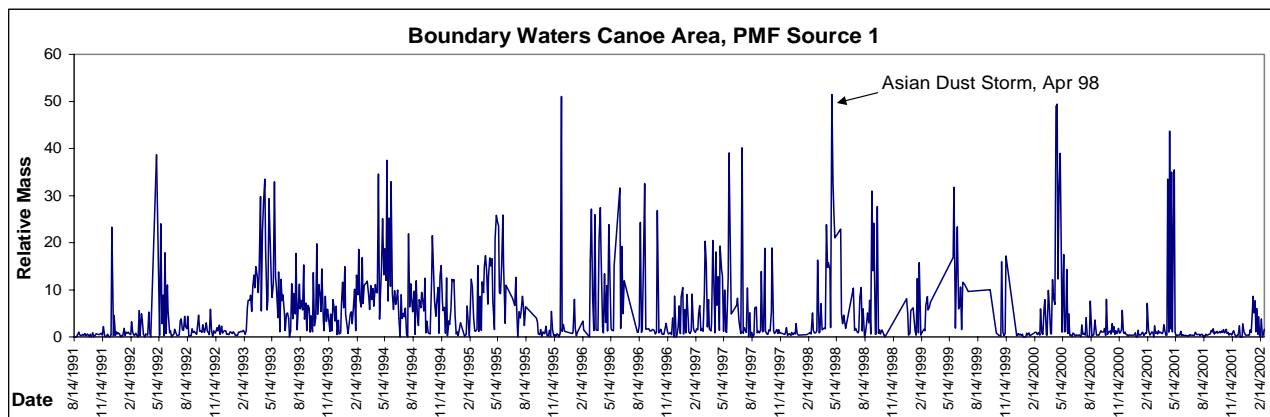


Figure 6.3-1a. Boundary Waters Canoe Area time series plots

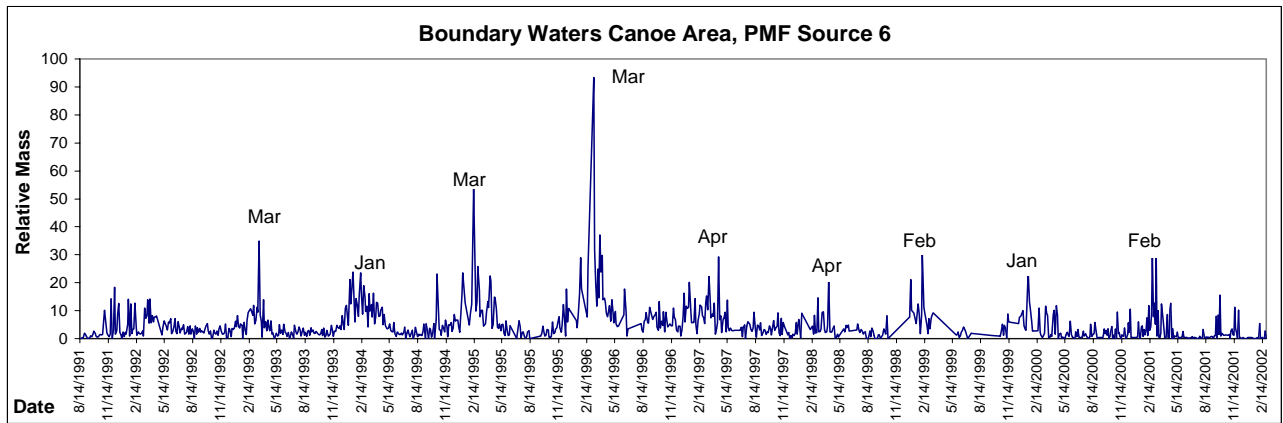
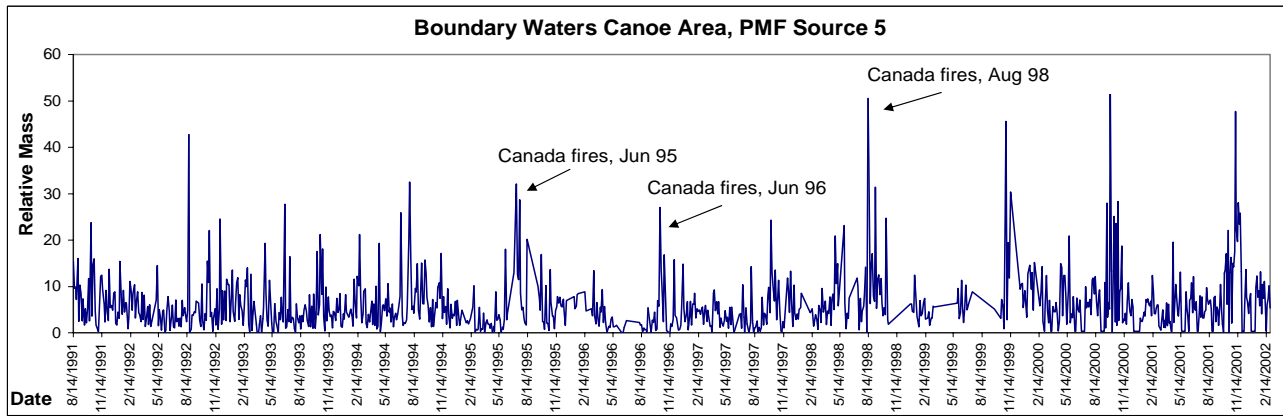
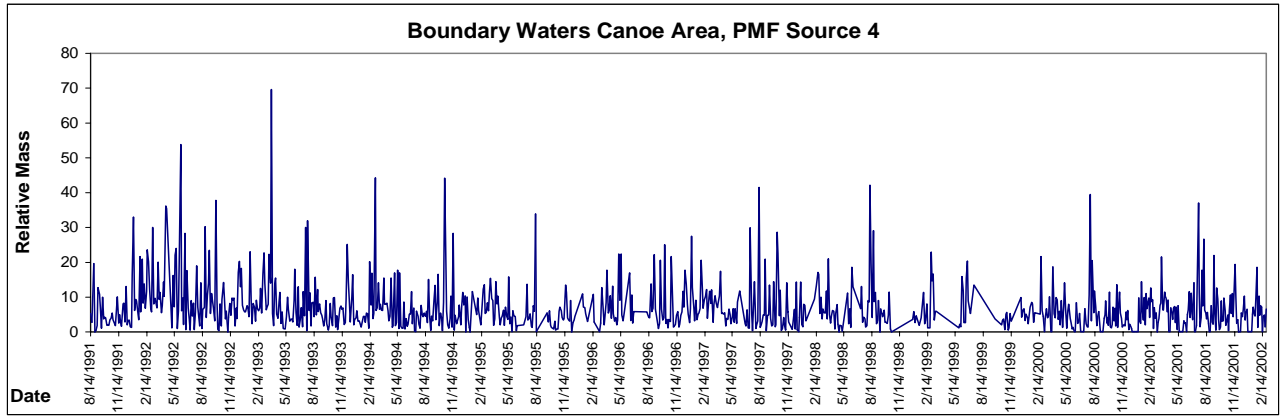


Figure 6.3-1b. Boundary Waters Canoe Area time series plots

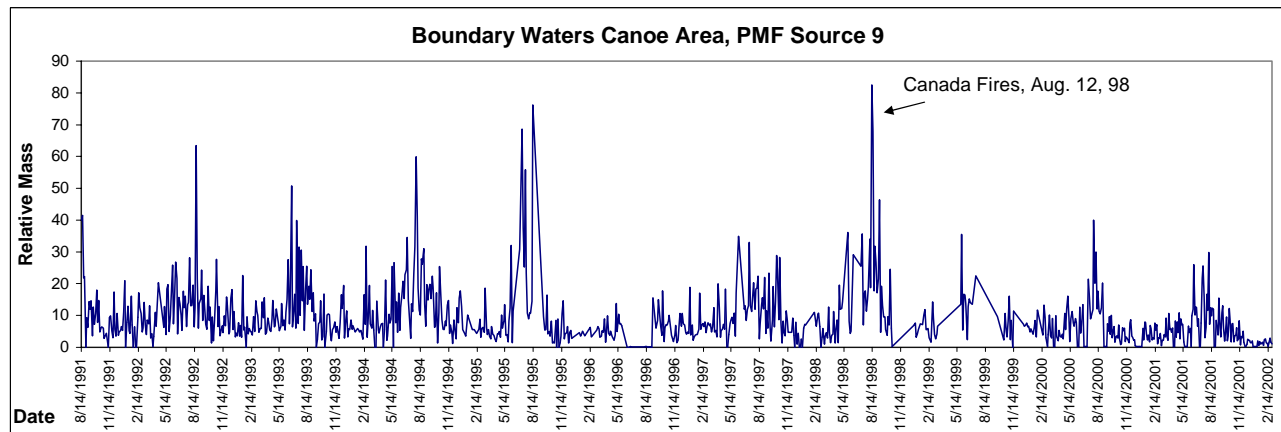
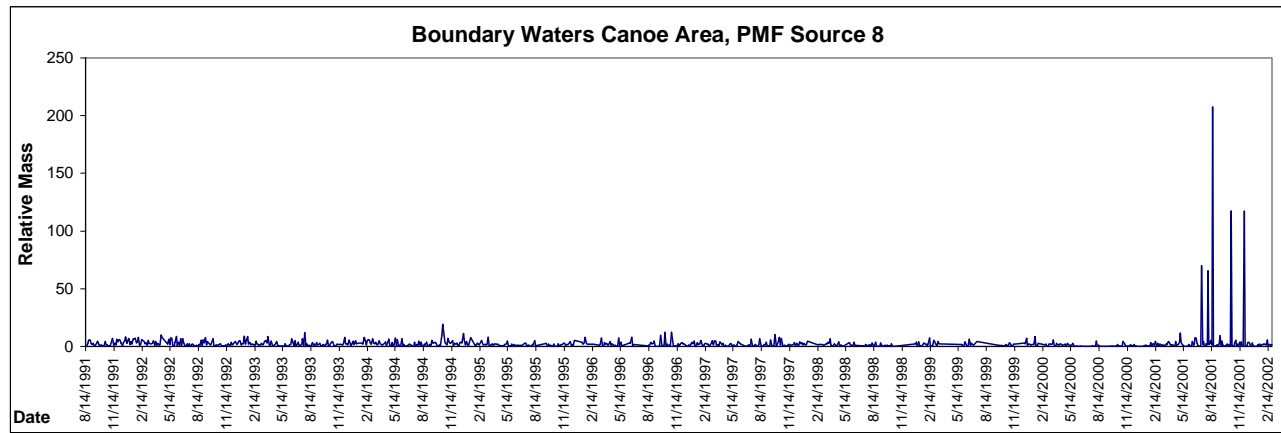
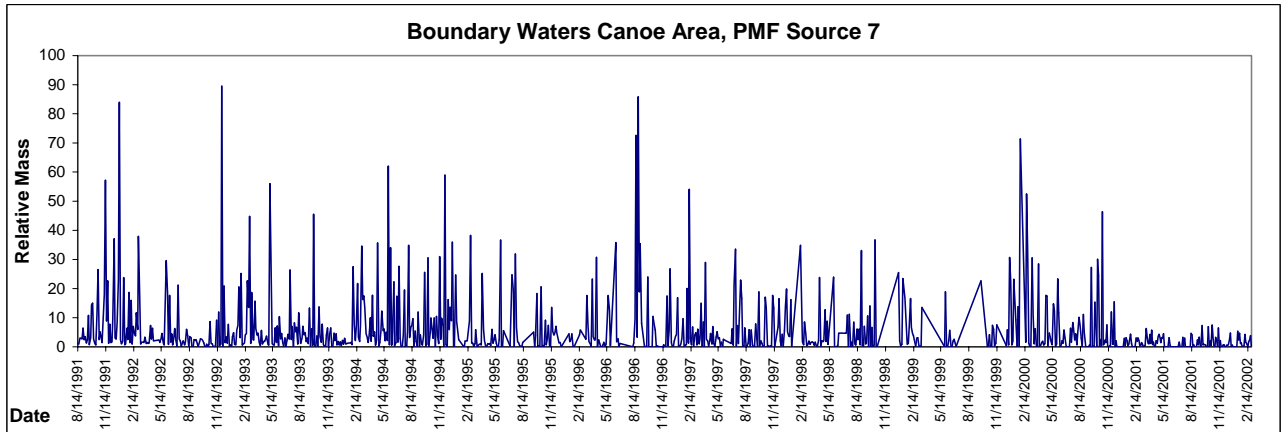


Figure 6.3-1c. Boundary Waters Canoe Area time series plots

6.3.2 Lye Brook Wilderness Area

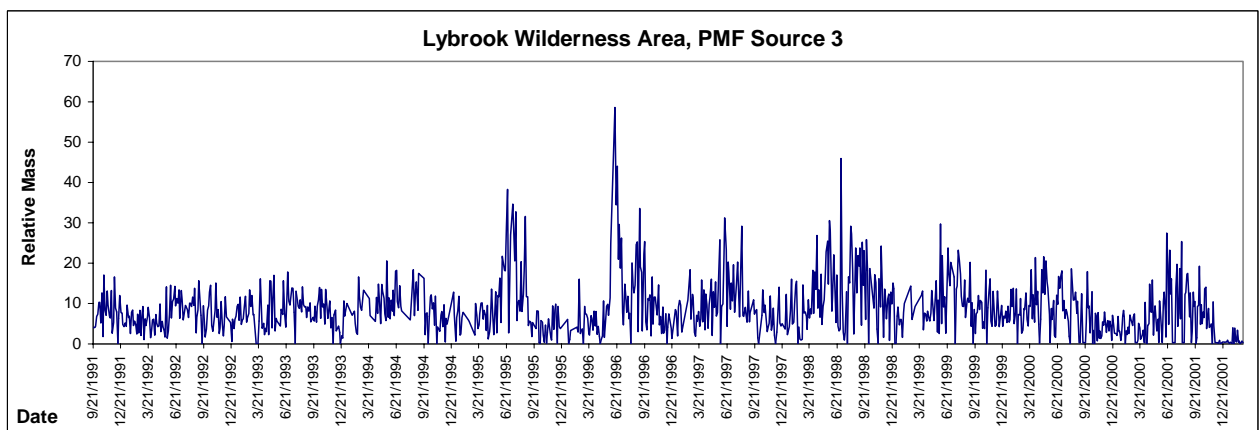
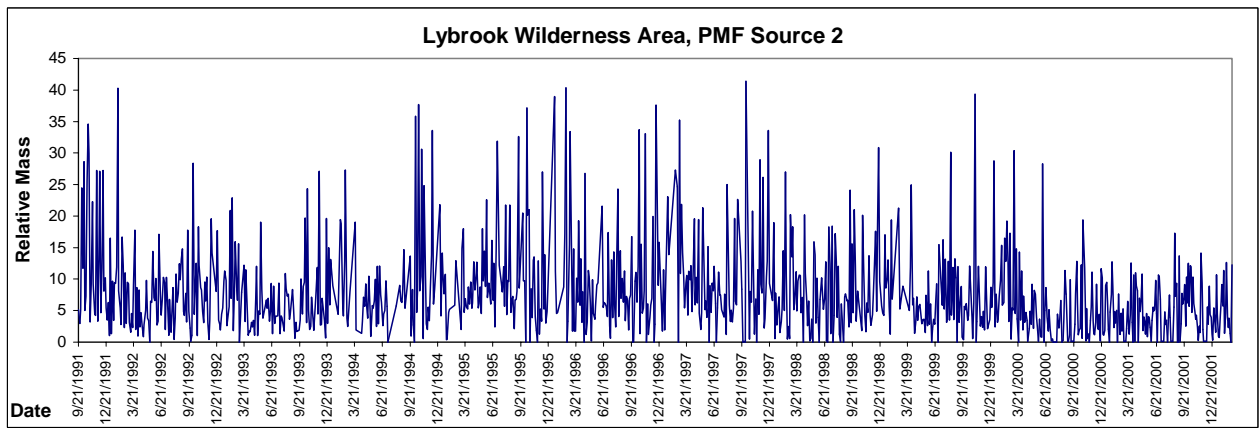
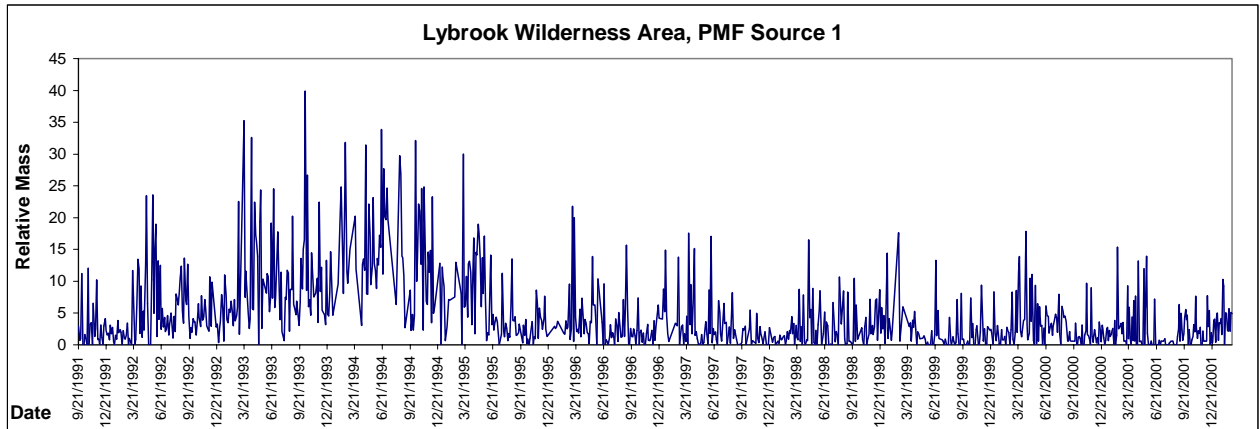


Figure 6.3-2a. Lye Brook Wilderness Area Time Series Plots

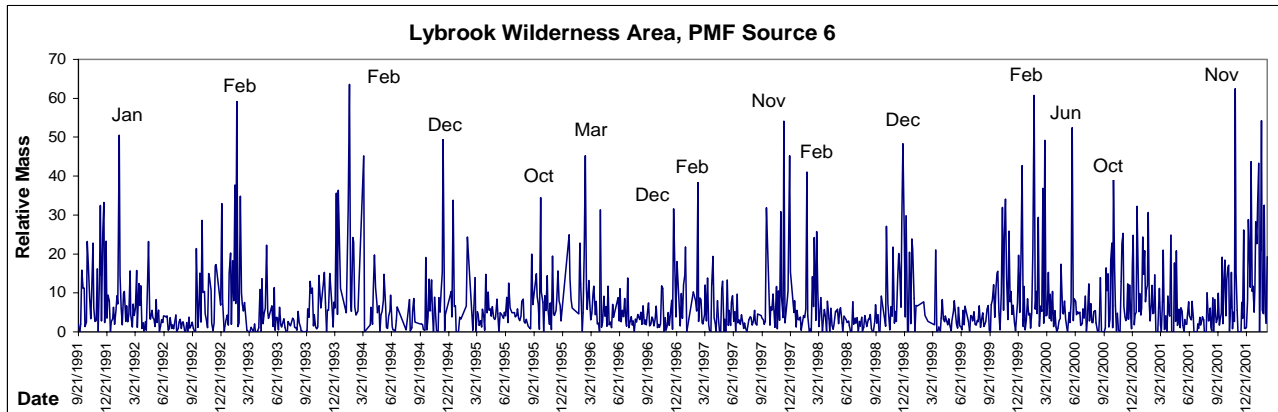
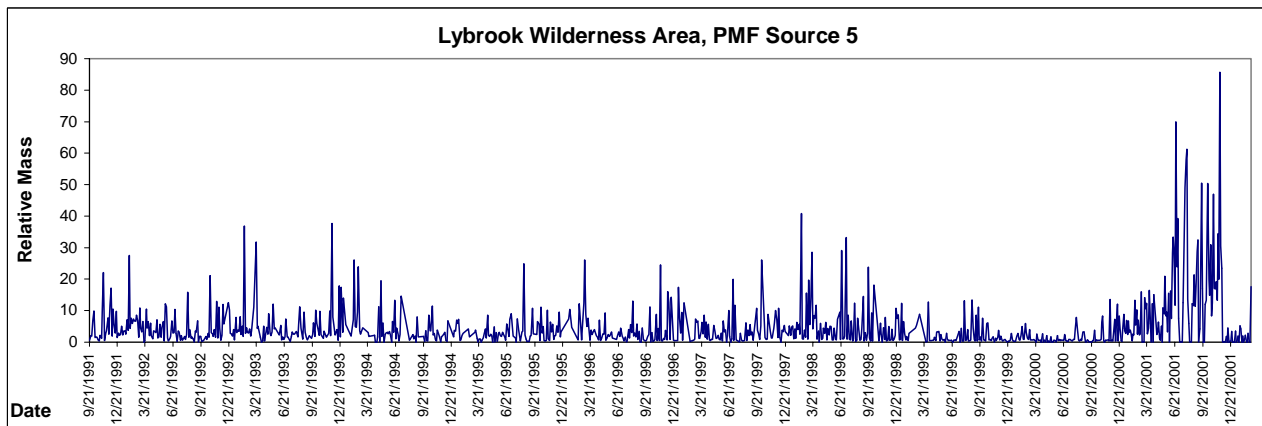
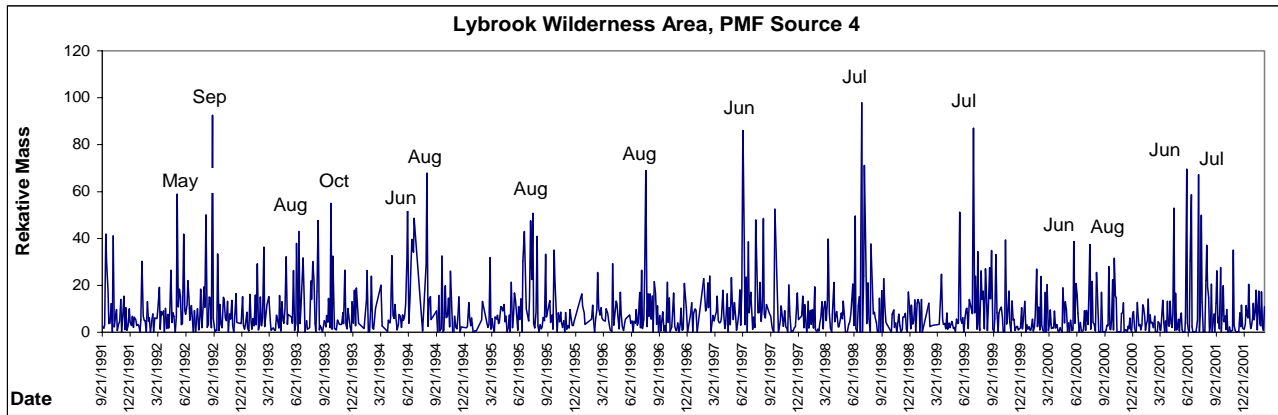


Figure 6.3-2b. Lye Brook Wilderness Area Time Series Plots

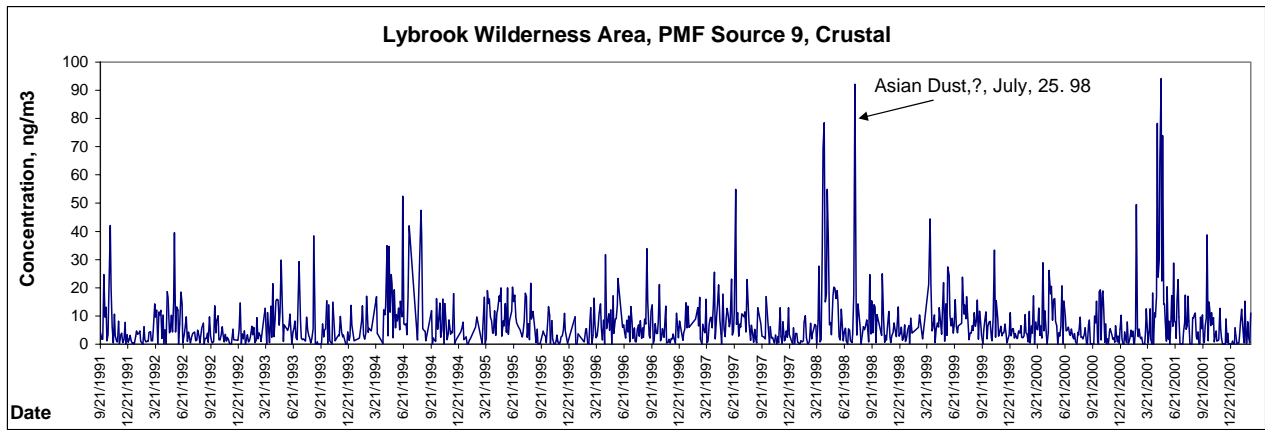
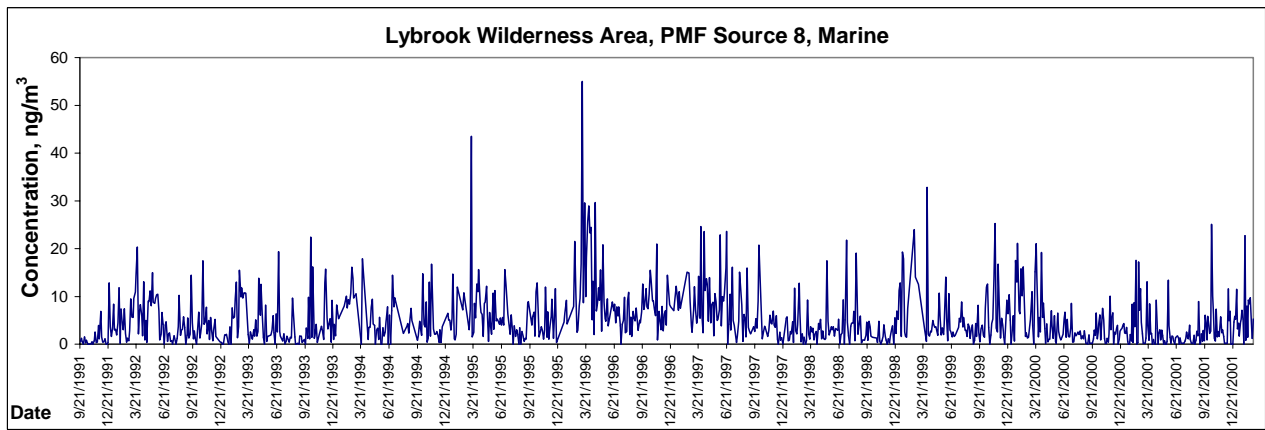
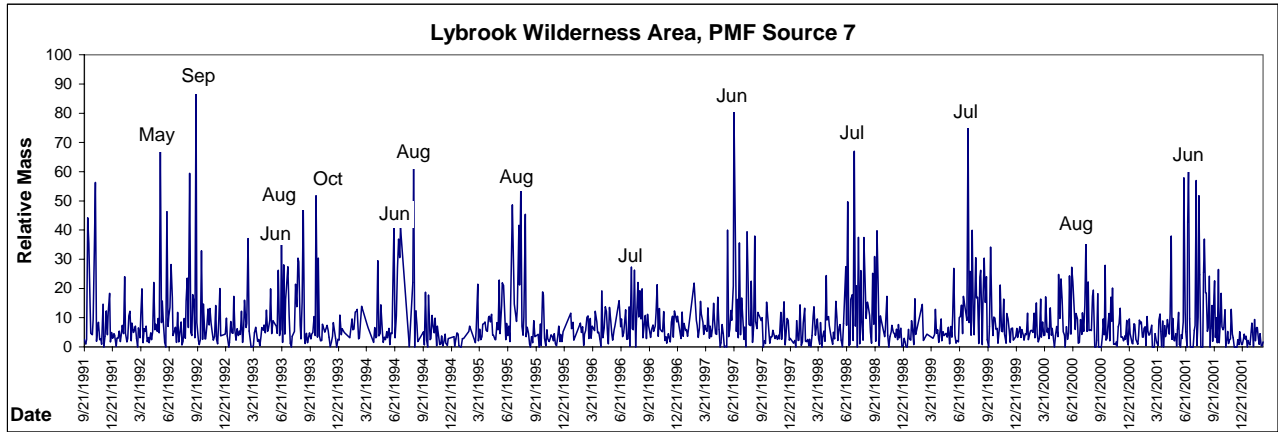


Figure 6.3-2c. Lye Brook Wilderness Area Time Series Plots

6.3.3 Shenandoah National Park

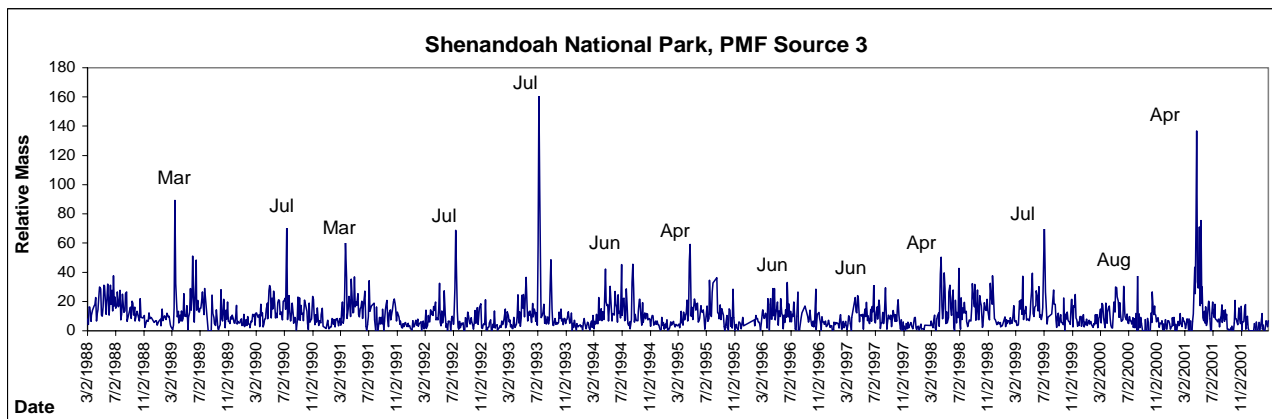
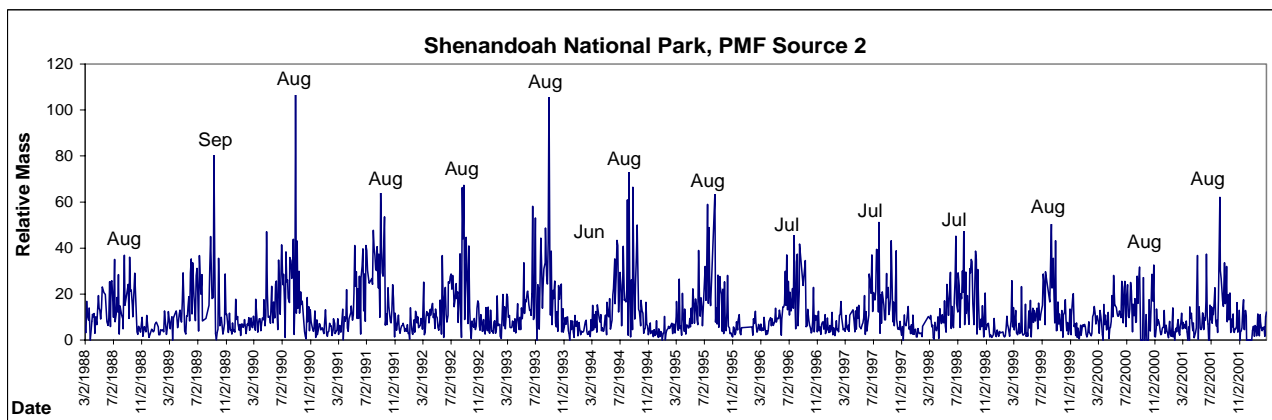
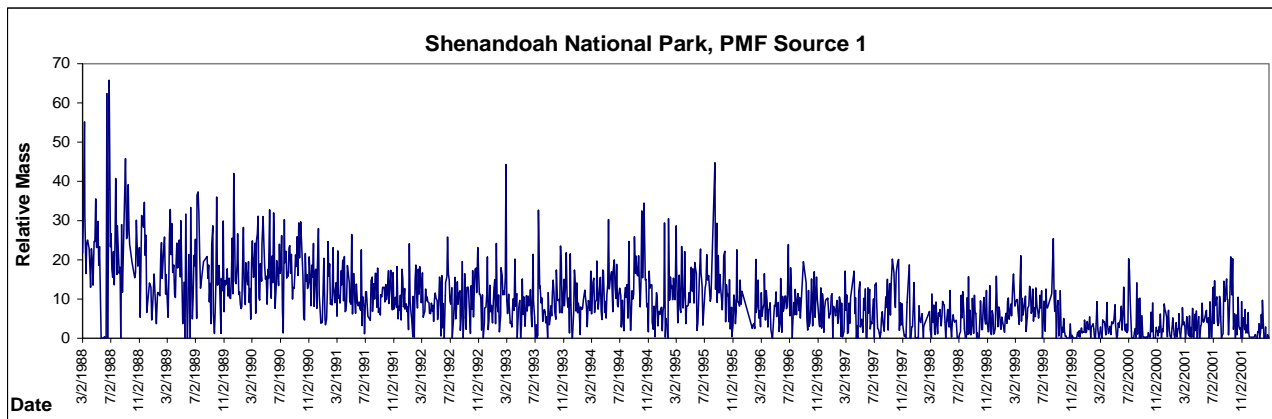


Figure 6.3-3a. Shenandoah National Park Time Series Plots

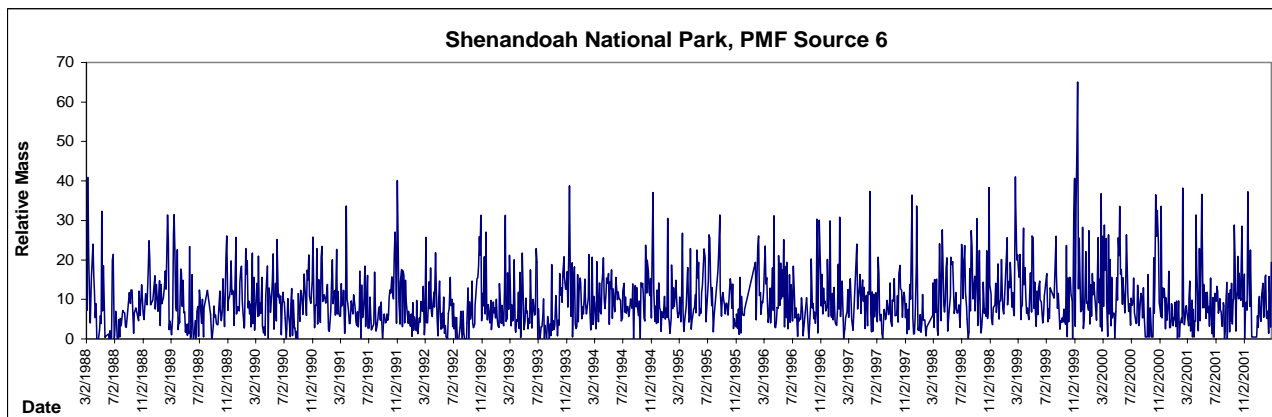
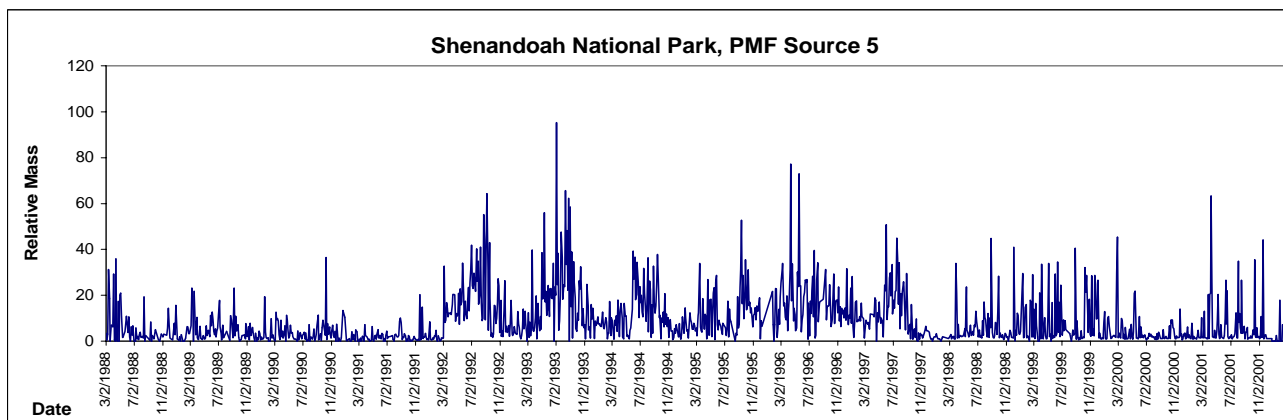
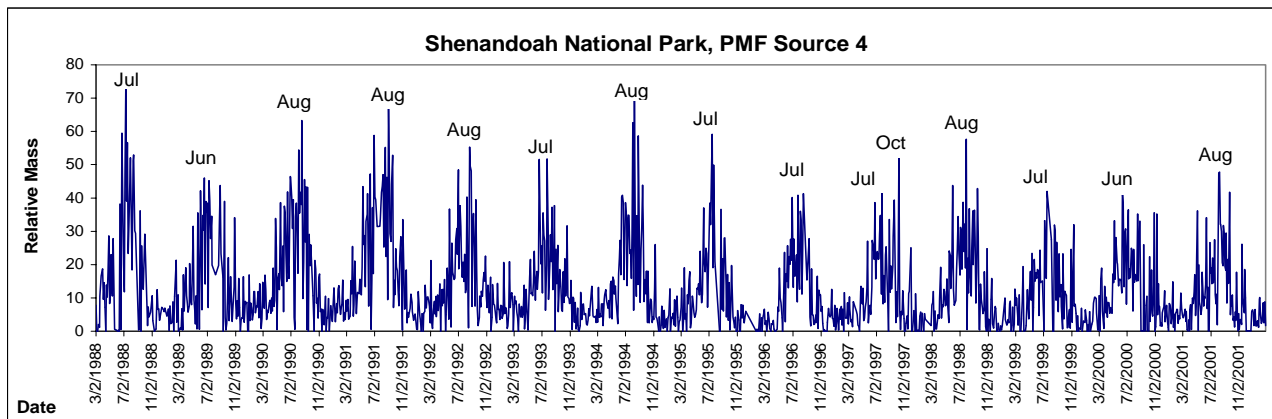


Figure 6.3-3b. Shenandoah National Park Time Series Plots

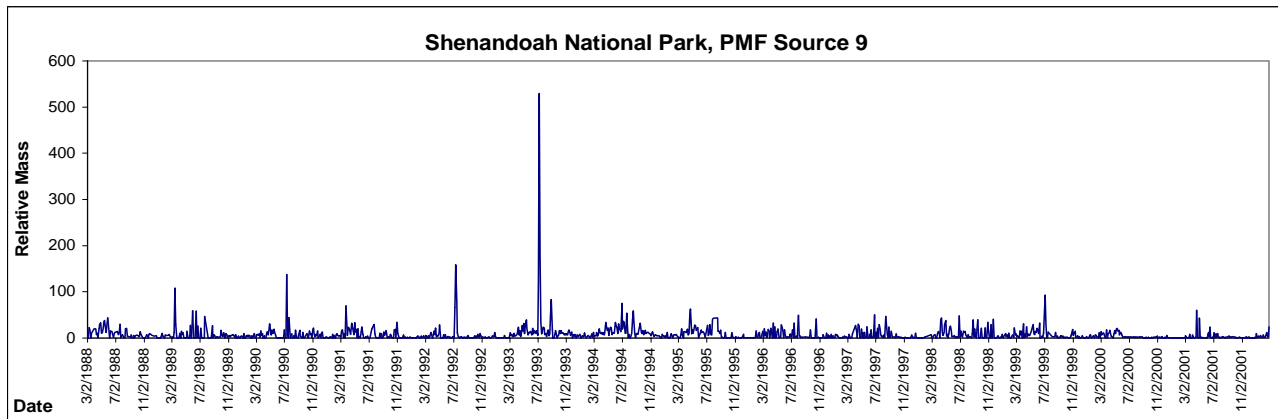
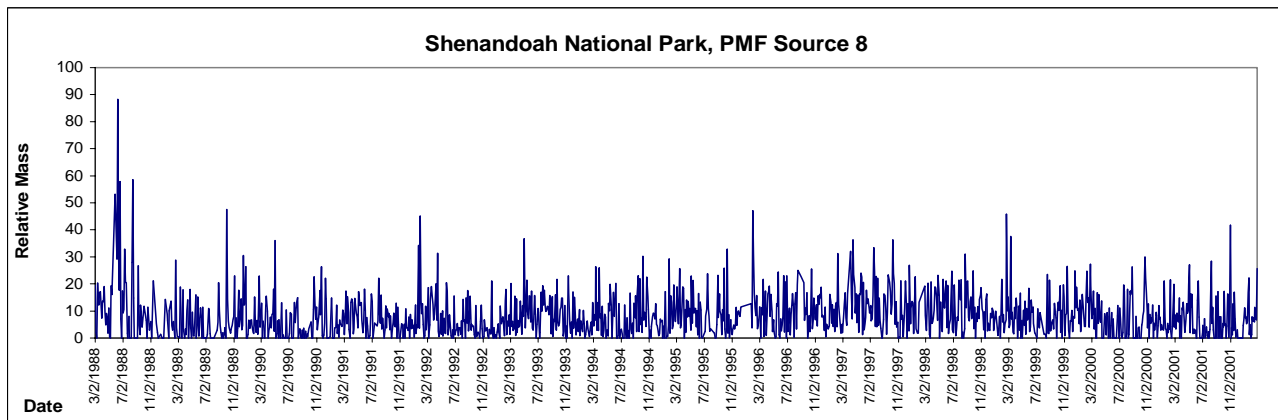
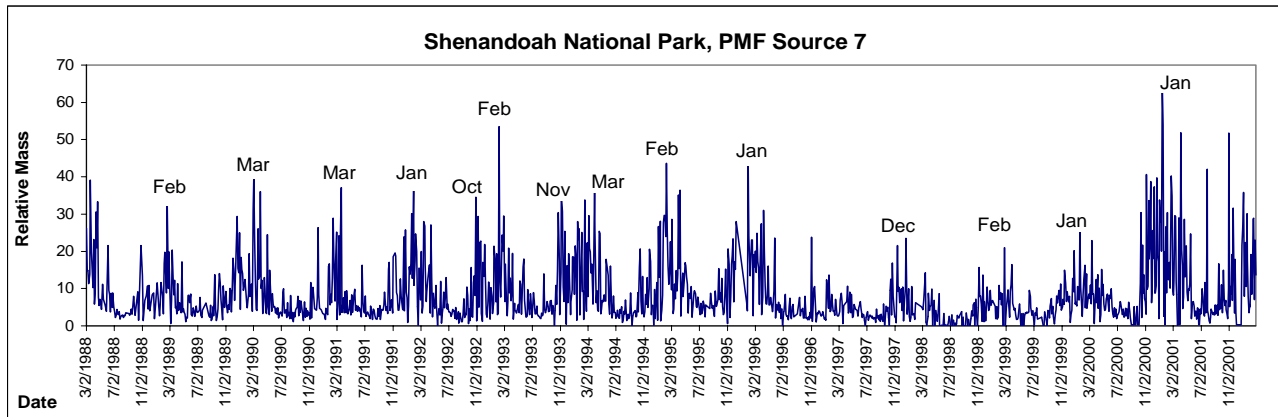


Figure 6.3-3c. Shenandoah National Park Time Series Plots

6.3.4 Washington DC

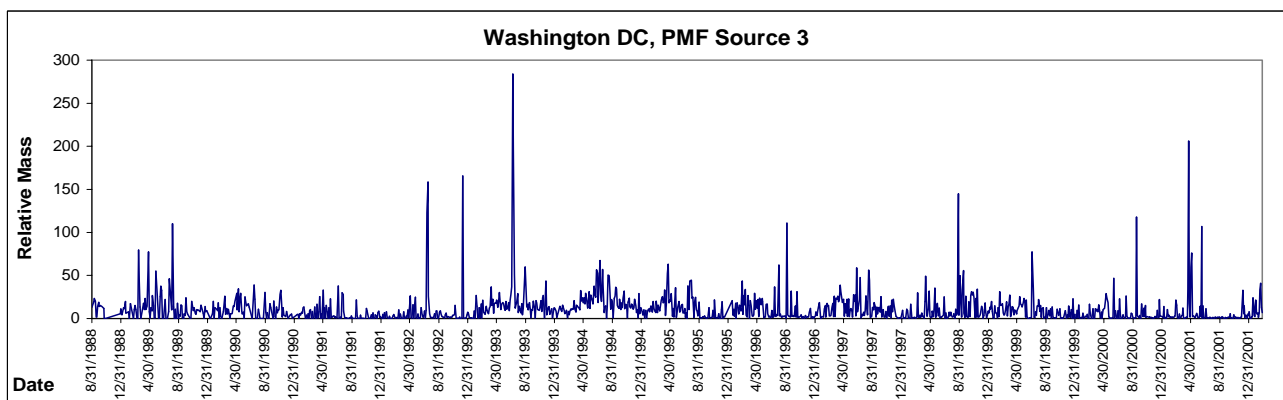
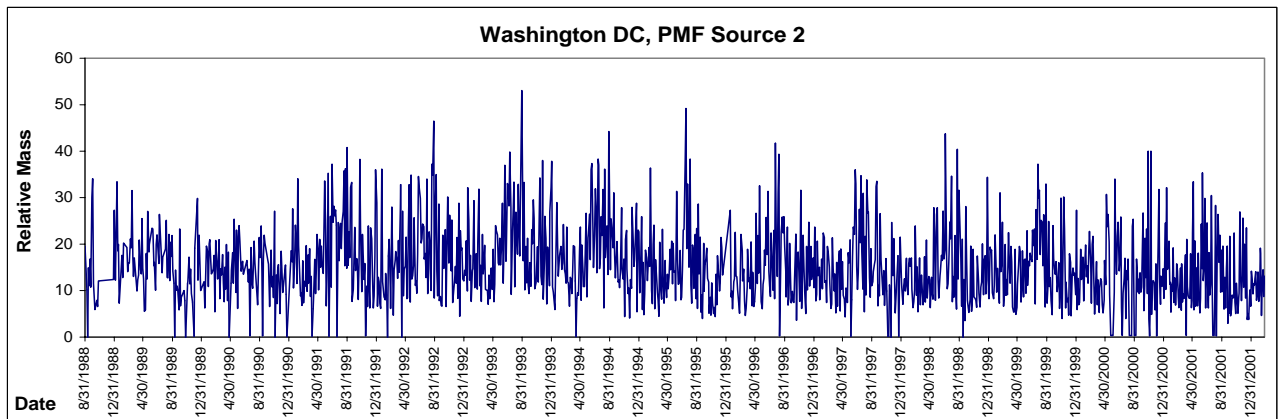
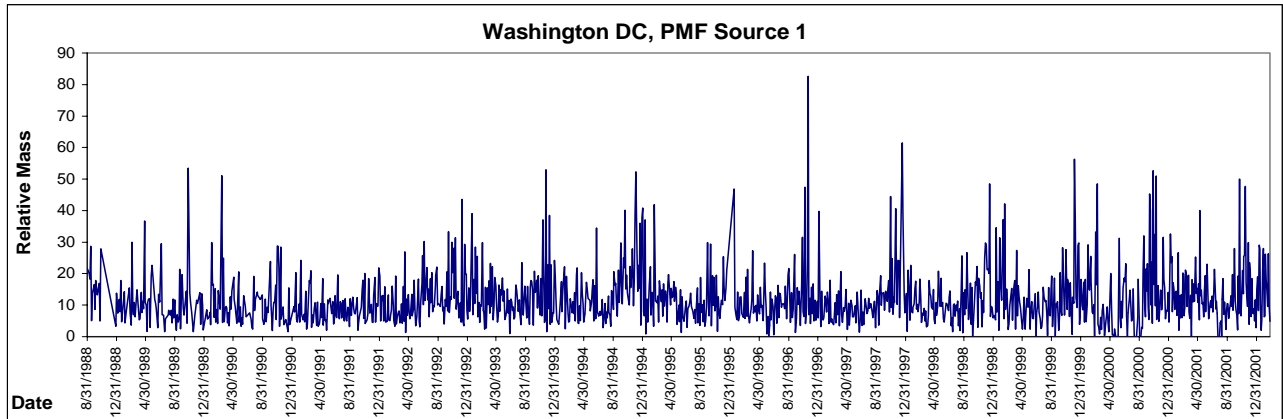


Figure 6.3-4a. Washington DC Time Series Plots

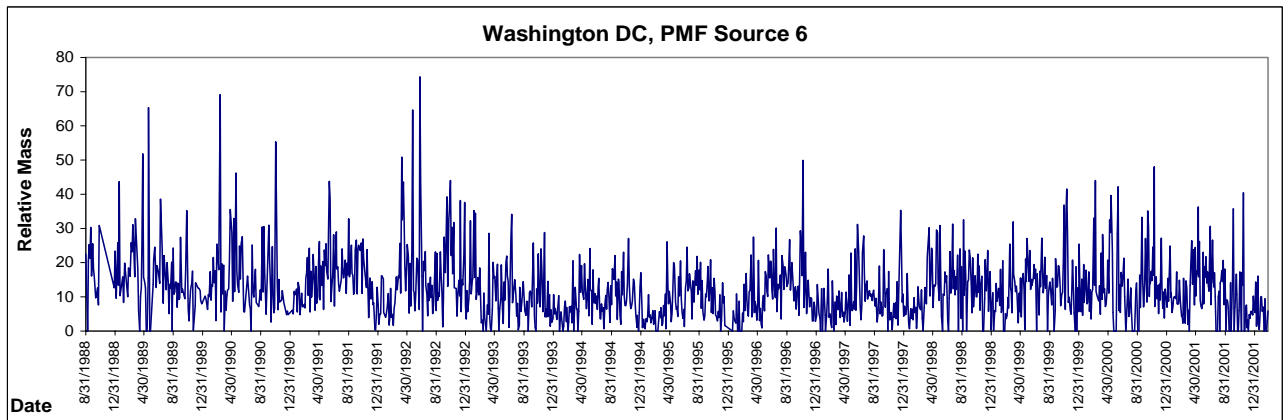
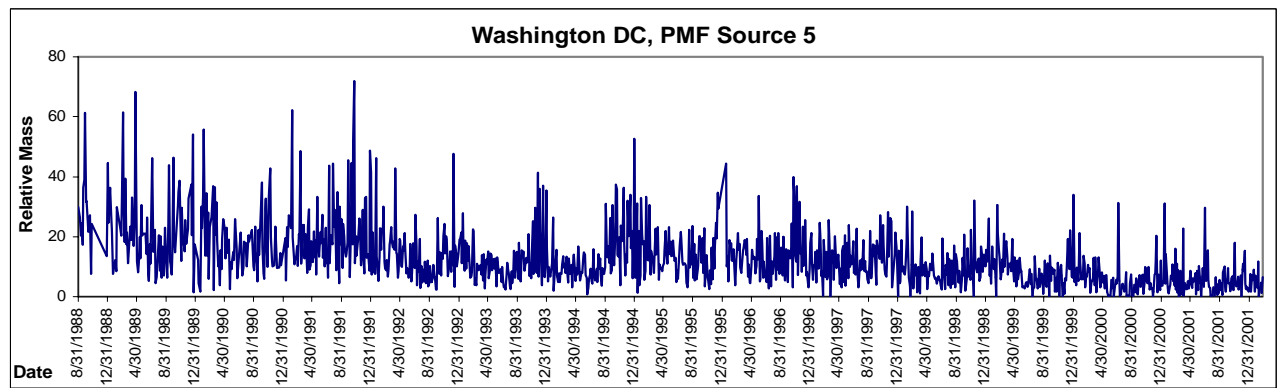
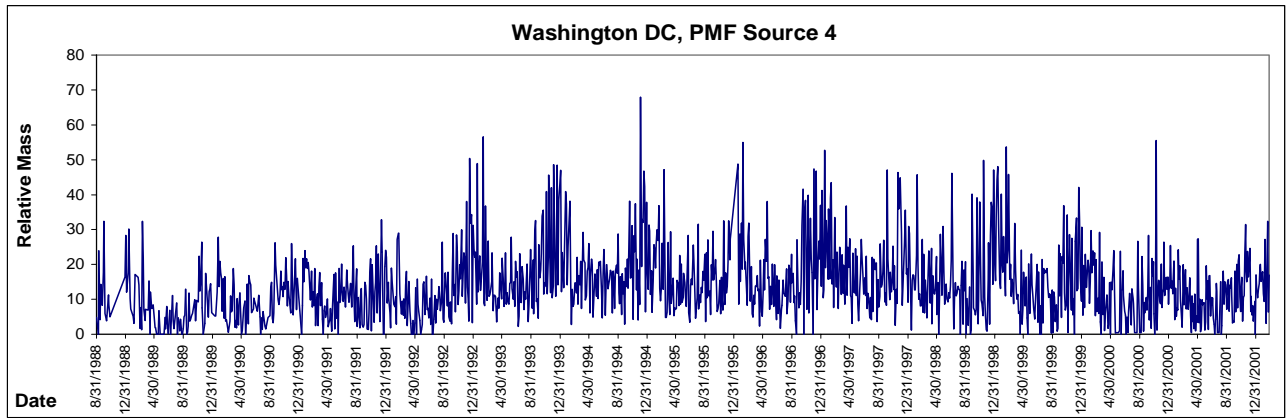


Figure 6.3-4b. Washington DC Time Series Plots

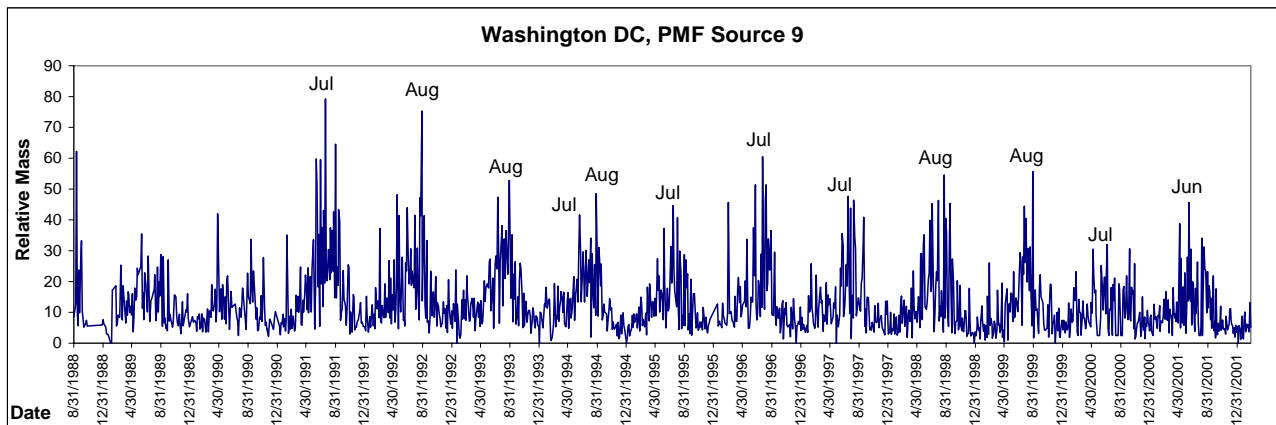
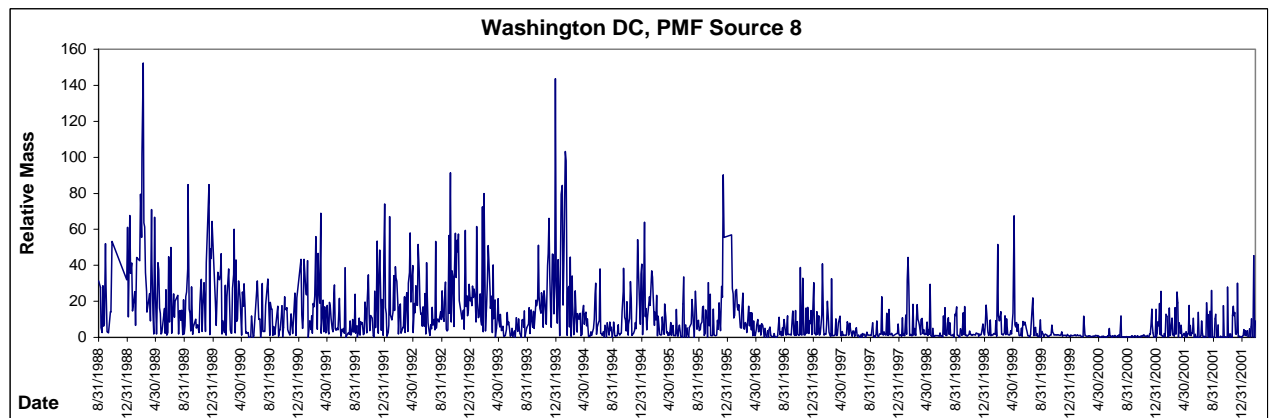
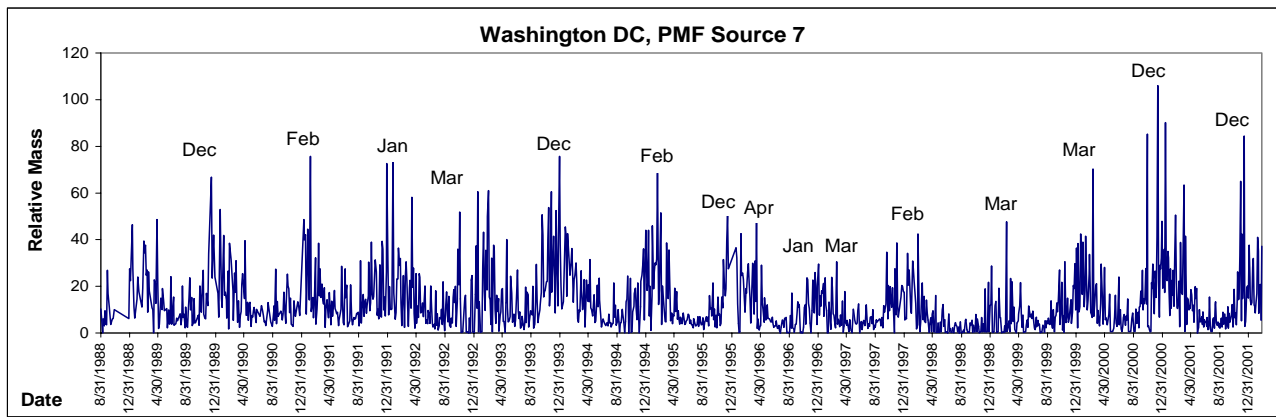


Figure 6.3-4c. Washington DC Time Series Plots

9. REFERENCES