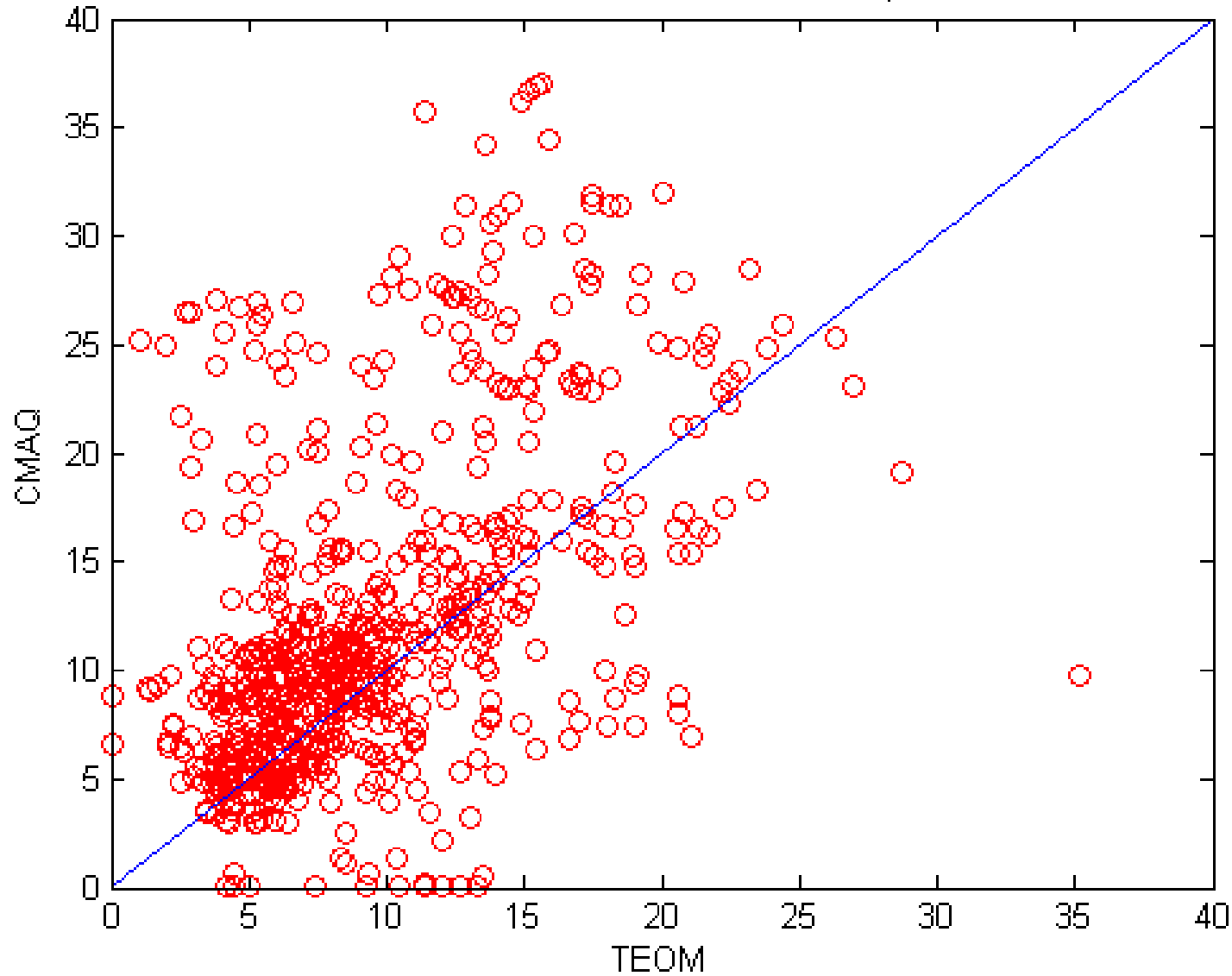
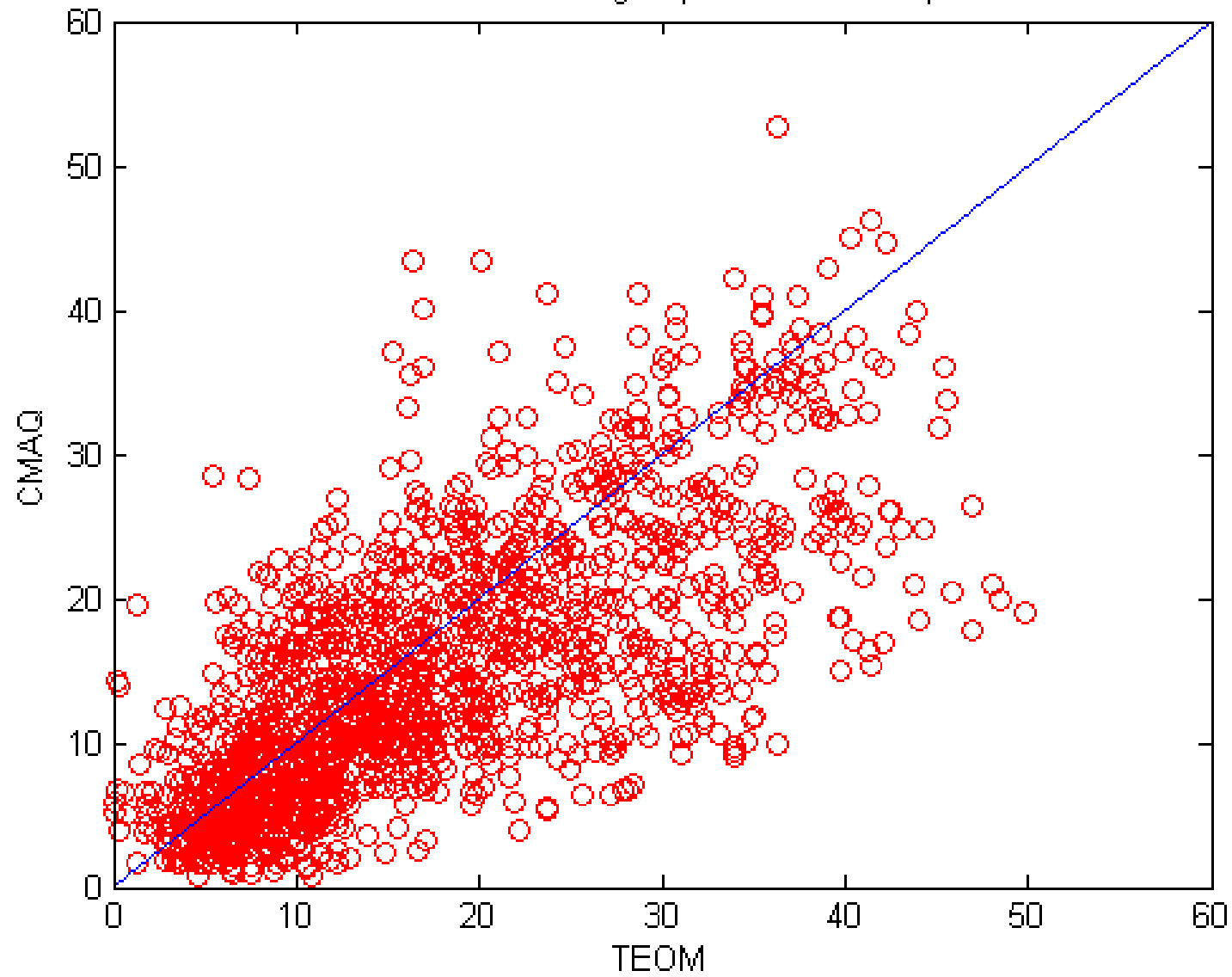


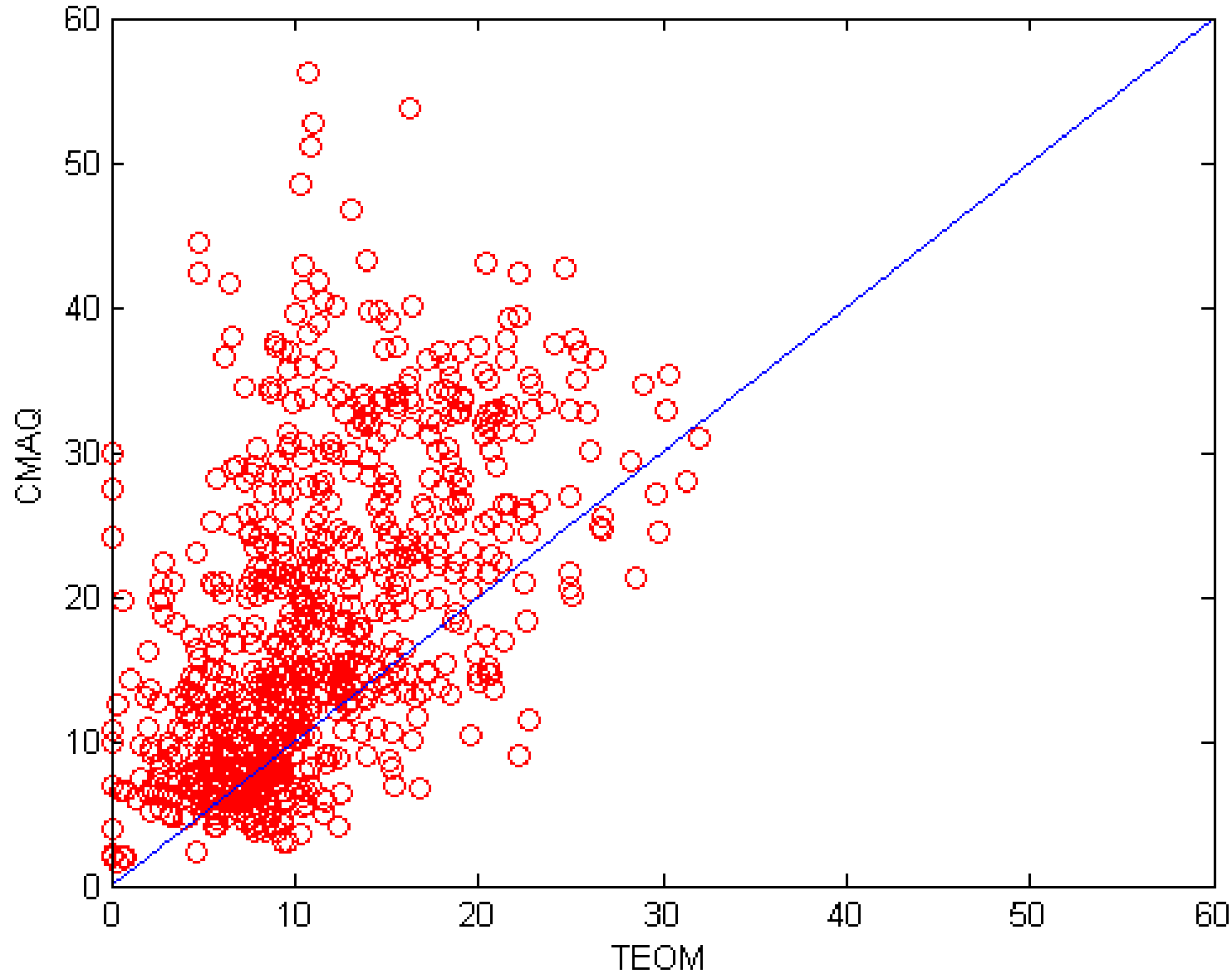
TEOM vs CMAQ for Feb 2002 at Davenport site



TEOM vs CMAQ for Aug Sept 2002 at Davenport site



TEOM vs CMAQ for Dec 2002 at Davenport site



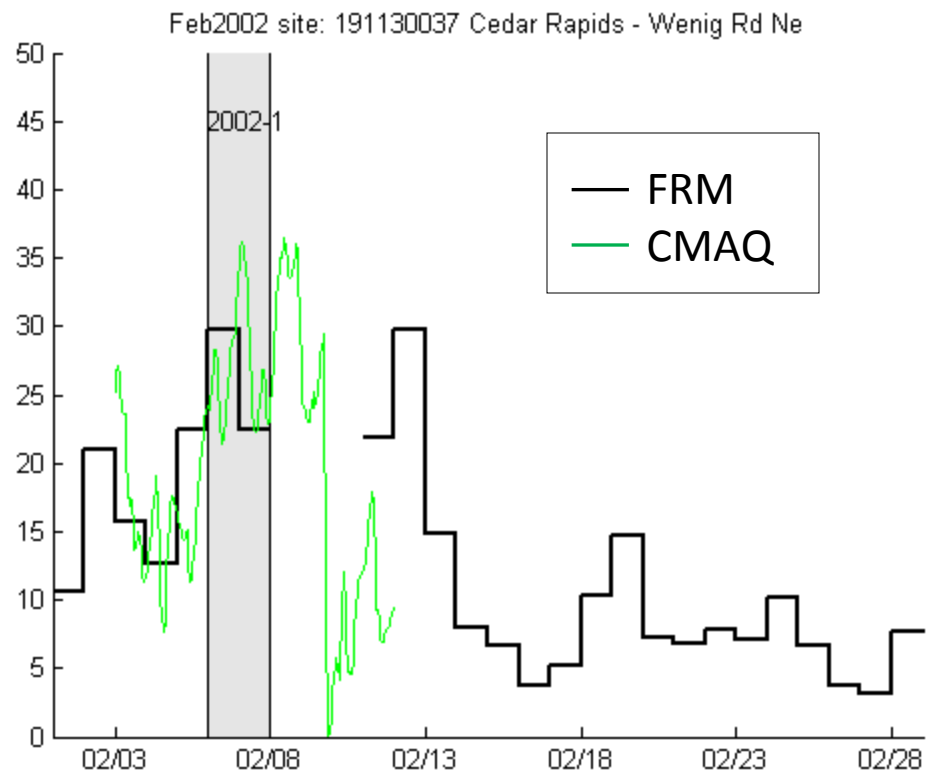


Figure x Time series plot for Cedar Rapids (CMAQ vs Measurements) for Feb 2002
Hourly TEOM data is not available for this site. Measurements and CMAQ results agreed well

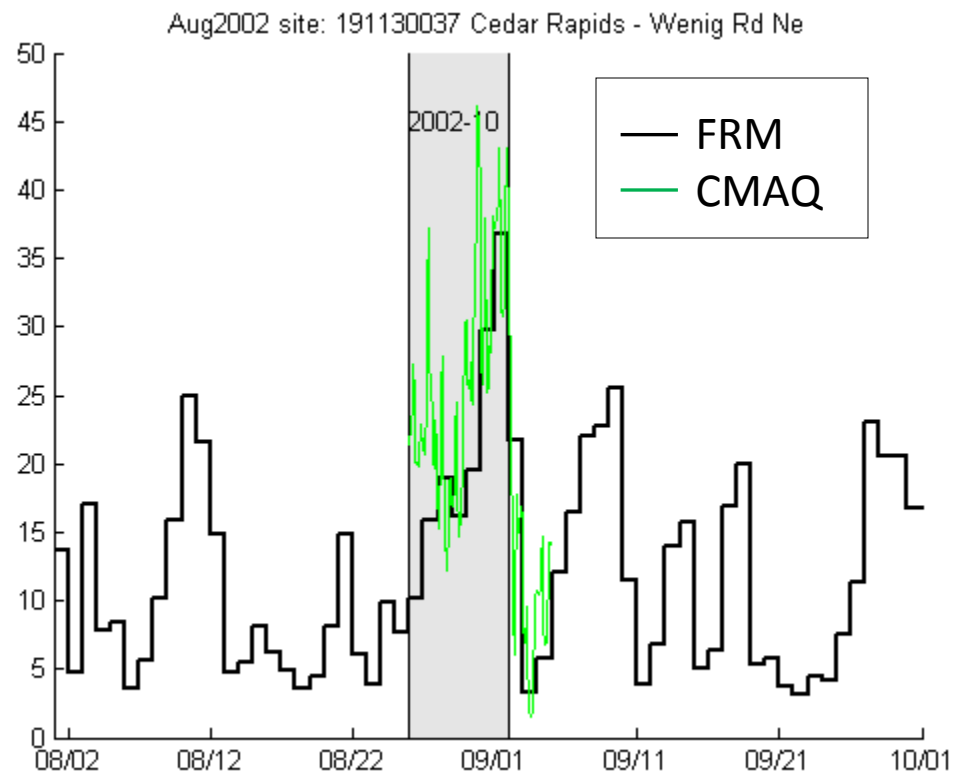


Figure xb Time series plot for Cedar Rapids (CMAQ vs Measurements) for Aug. and Sept. 2002
Hourly TEOM data is not available for this site. Measurements and CMAQ results agreed well

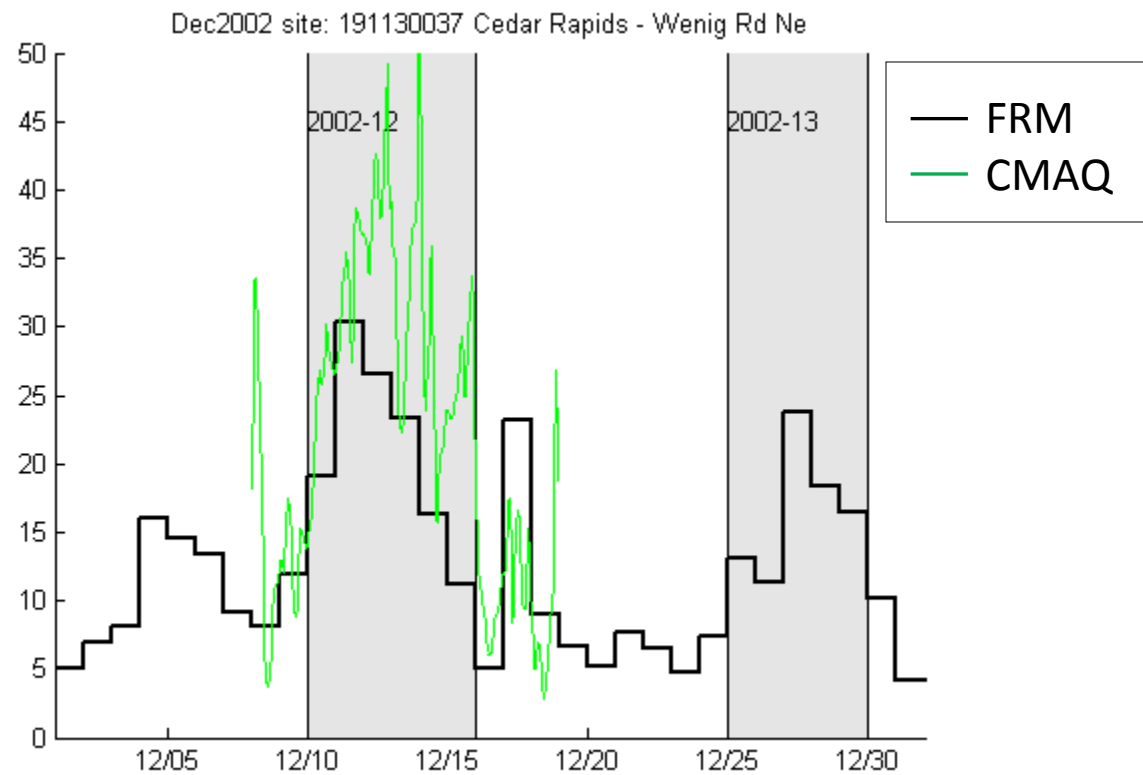


Figure xc Time series plot for Cedar Rapids (CMAQ vs Measurements) for Dec. 2002

Hourly TEOM data is not available for this site. CMAQ overestimated. Time for peak concentrations of CMAQ is about 2hour delay compared to measurements. However, its general trends are well matched with measurements.

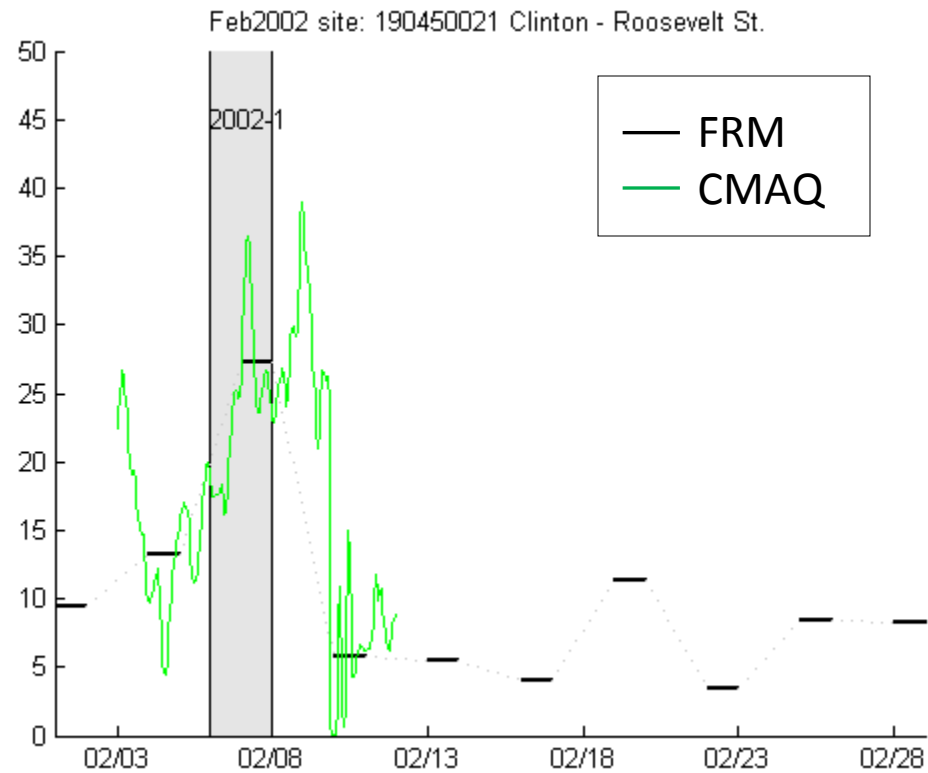


Figure xia Time series plot for Clinton (CMAQ vs Measurements) for Feb. 2002

Hourly TEOM data is not available for this site. Few FRM measurements are available. Generally measurements and CMAQ results agreed well

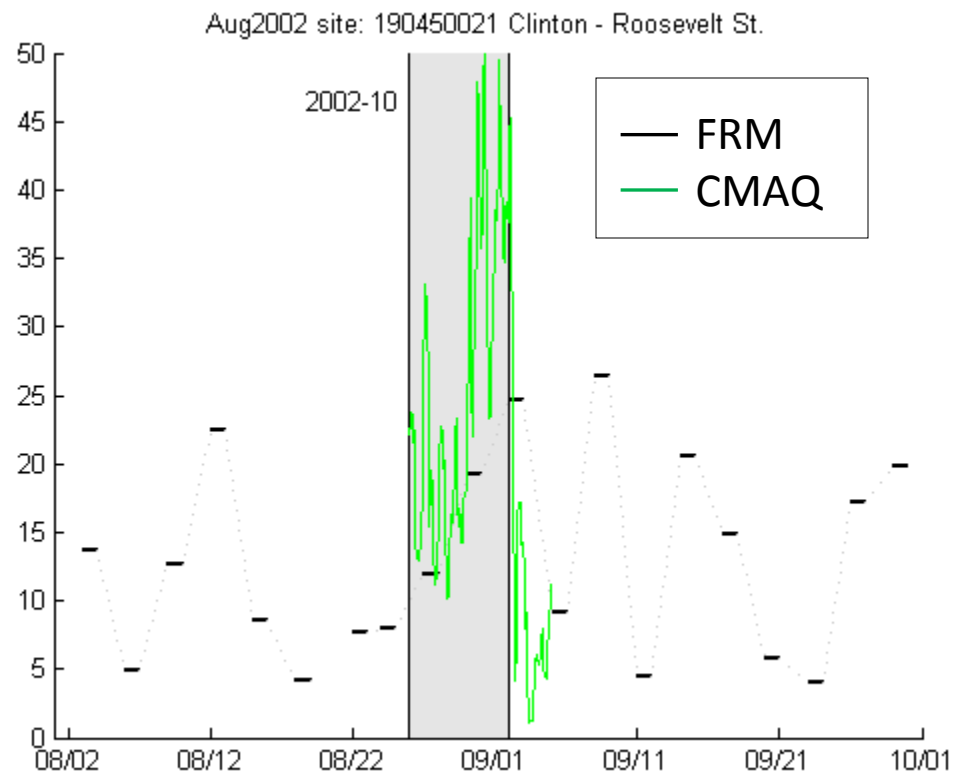


Figure xib Time series plot for Clinton (CMAQ vs Measurements) for Aug. and Sept. 2002

Hourly TEOM data is not available for this site. Few FRM measurements are available. CMAQ overestimated. General trend is matched well

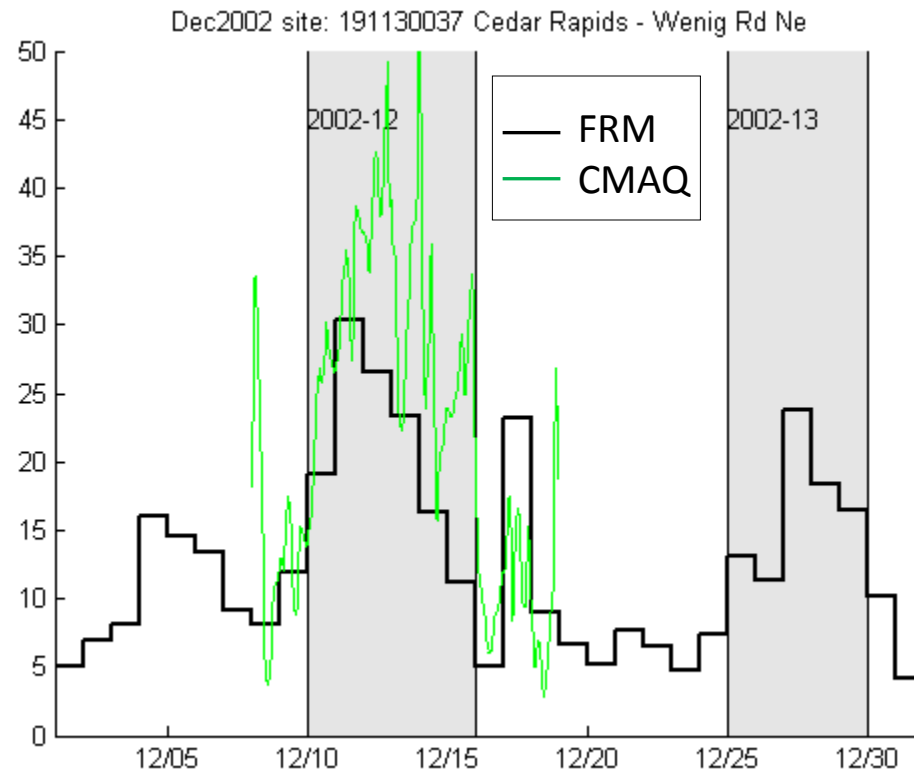


Figure xic Time series plot for Clinton (CMAQ vs Measurements) for Dec. 2002

Hourly TEOM data is not available for this site. CMAQ overestimated less than 200%. Trends are matched

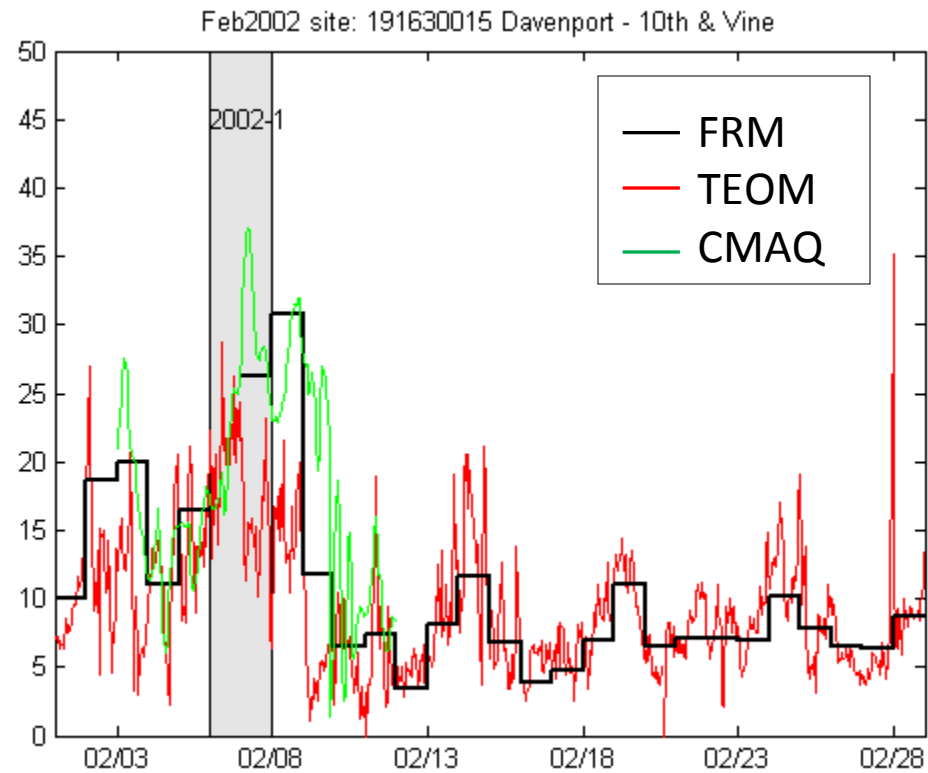


Figure xiia Time series plot for Davenport (CMAQ vs Measurements) for Feb. 2002

TEOM and FRM are generally matched well. CMAQ values are a bit higher than TEOM. Both measurements are well matched with CMAQ results.

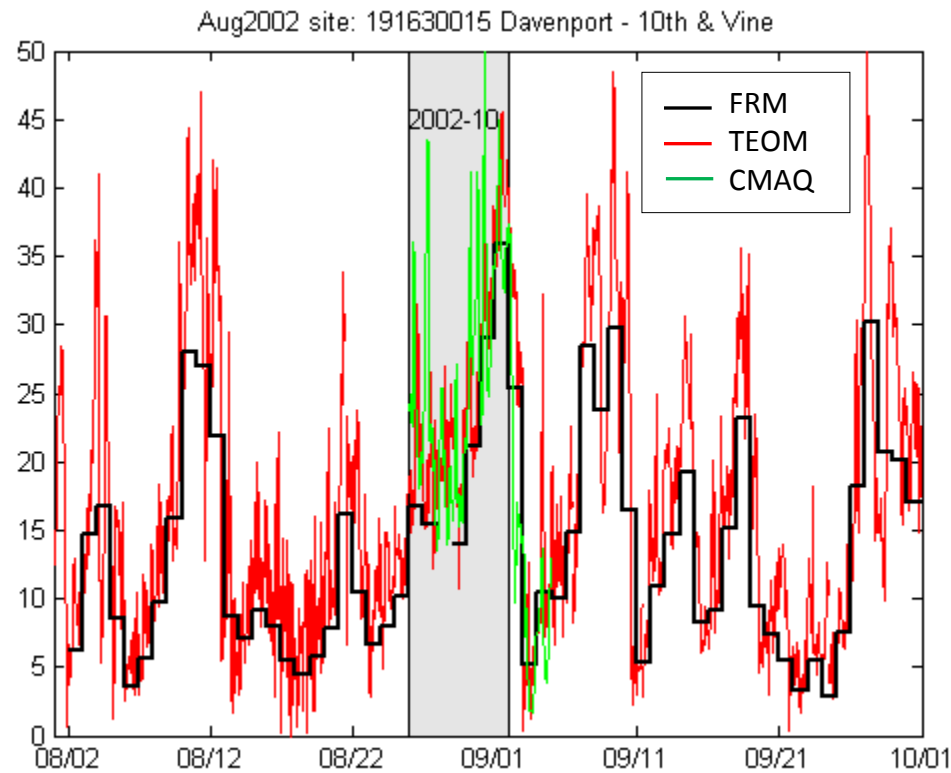


Figure xiib Time series plot for Davenport (CMAQ vs Measurements) for Aug. and Sept. 2002
Hourly TEOM and FRM are matched well. CMAQ values are a bit higher than measurement.
Both measurements are well matched with CMAQ results.

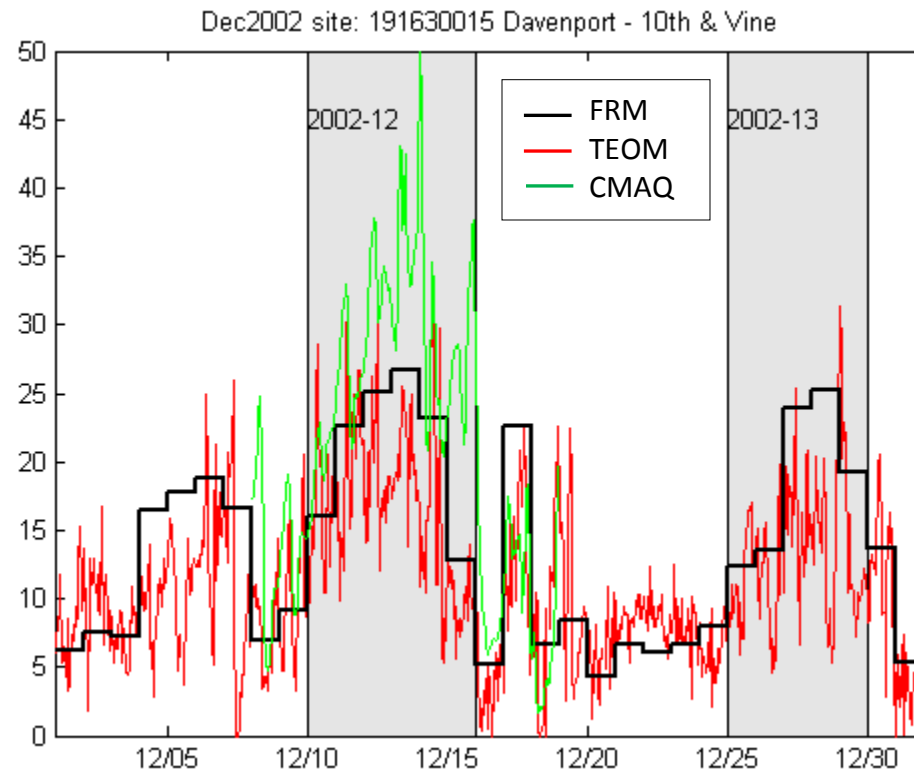


Figure xiic Time series plot for Davenport (CMAQ vs Measurements) for Dec. 2002

Hourly TEOM and FRM data are matched well. CMAQ peak values are less than 200% overestimated Both CMAQ and measurements are matched well

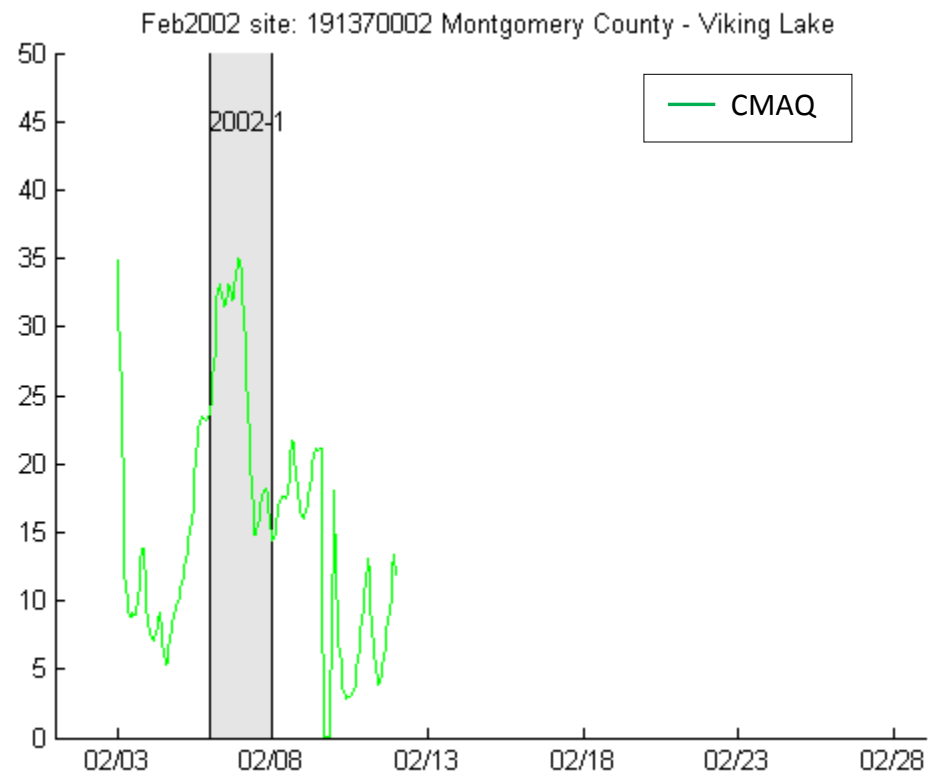


Figure xiiia Time series plot for Montgomery (CMAQ vs Measurements) for Feb. 2002
Hourly TEOM and FRM data are not available

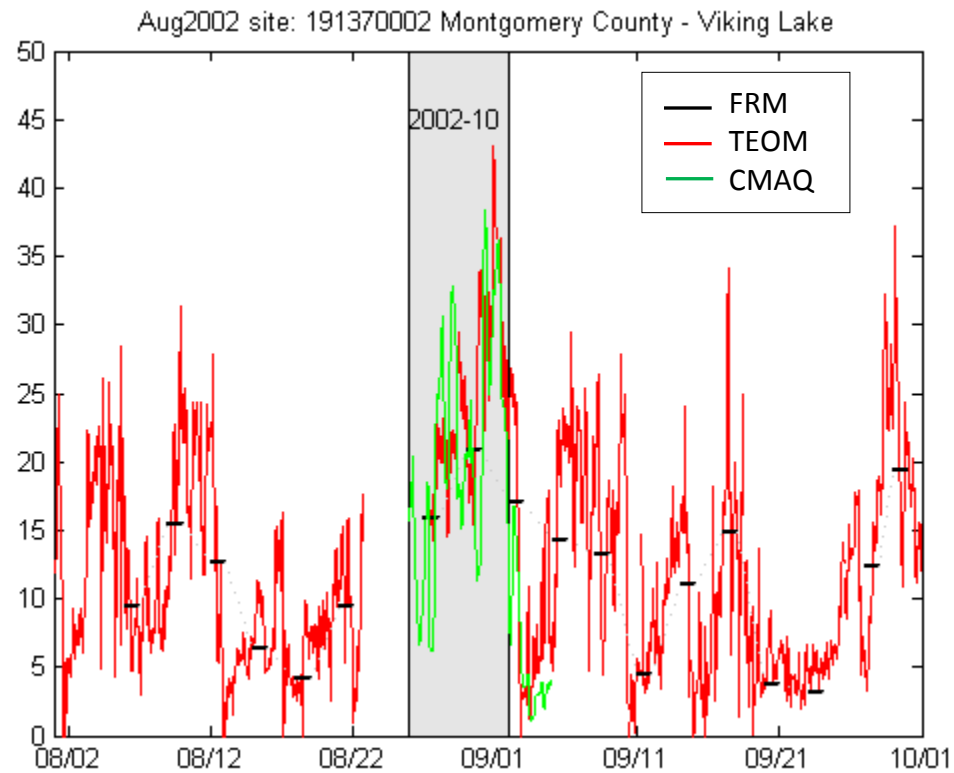


Figure xiiib Time series plot for Montgomery (CMAQ vs Measurements) for Aug. and Sept. 2002

TEOM are higher than FRM data. CMAQ are well matched with TEOM data

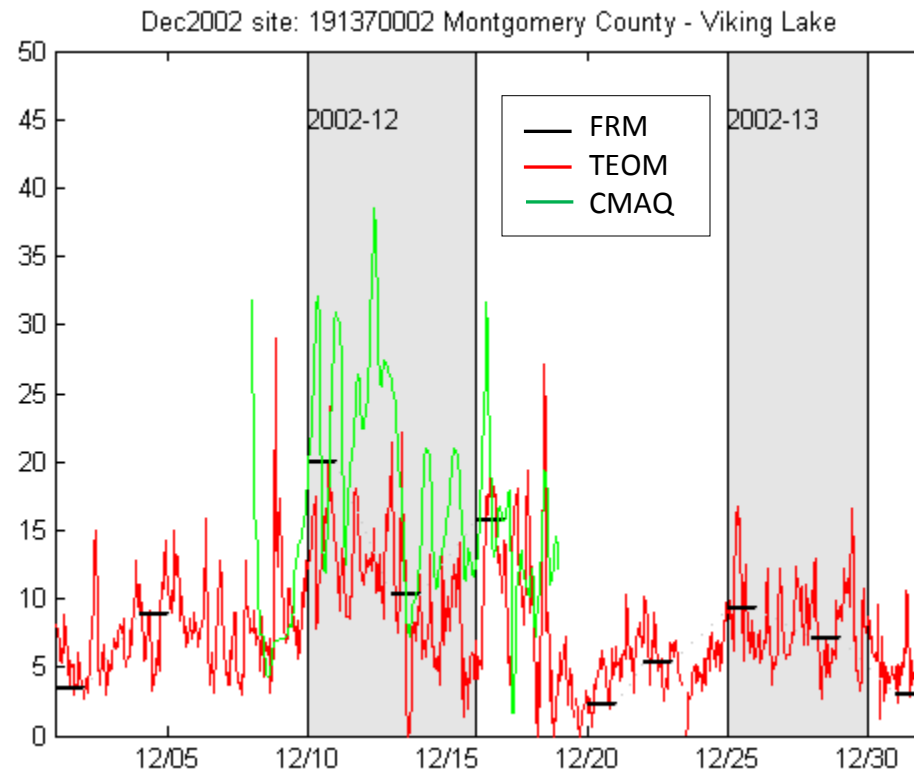


Figure xiiic Time series plot for Montgomery (CMAQ vs Measurements) for Dec. 2002

TEOM are higher than FRM data. CMAQ overestimated. Trends are well matched. Peak concentration of CMAQ is less than 200% overestimated