APPENDIX A

Scatter Plots of Predicted and Observed PM Concentrations
Across Monitoring Sites within the 12 km Regional
Modeling Domain by Quarter for the CMAQ and CAMx
2002 Base 5b Base Case Simulation

CASTNet
IMPROVE
STN
FRM

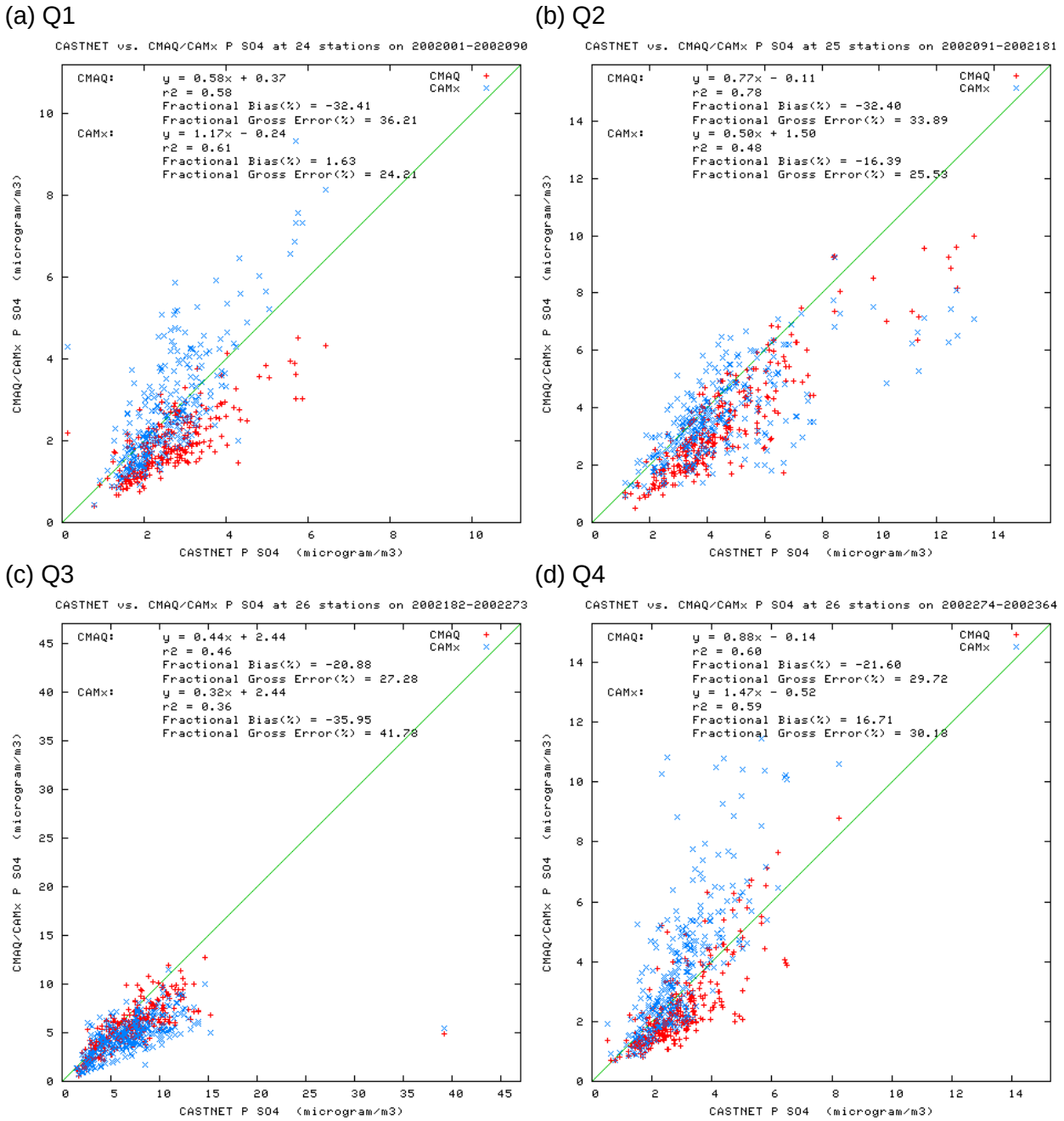


Figure A-1. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (CASTNet) SO4 concentrations for each quarter of 2002.

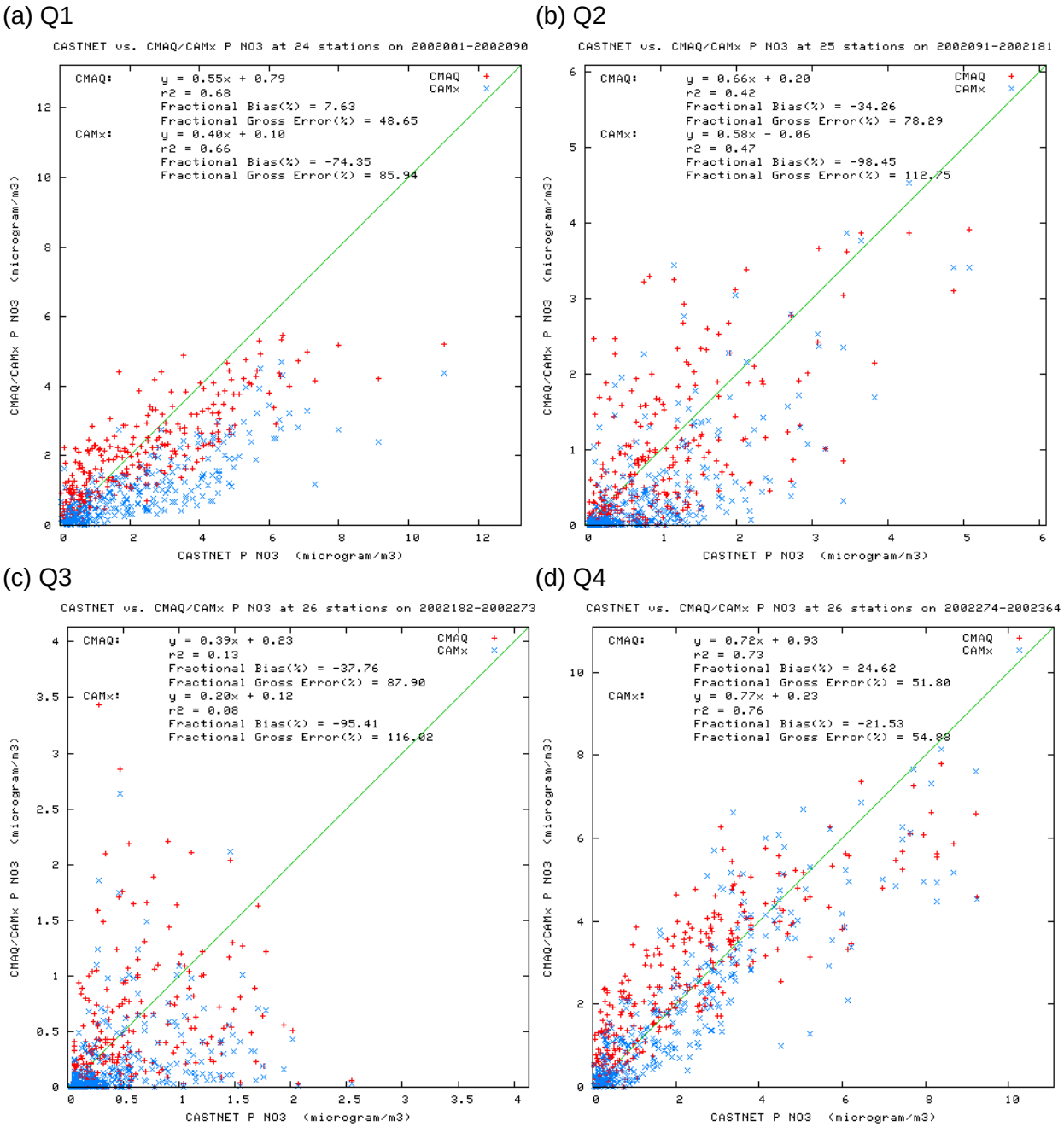


Figure A-2. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (CASTNet) NO3 concentrations for each quarter of 2002.

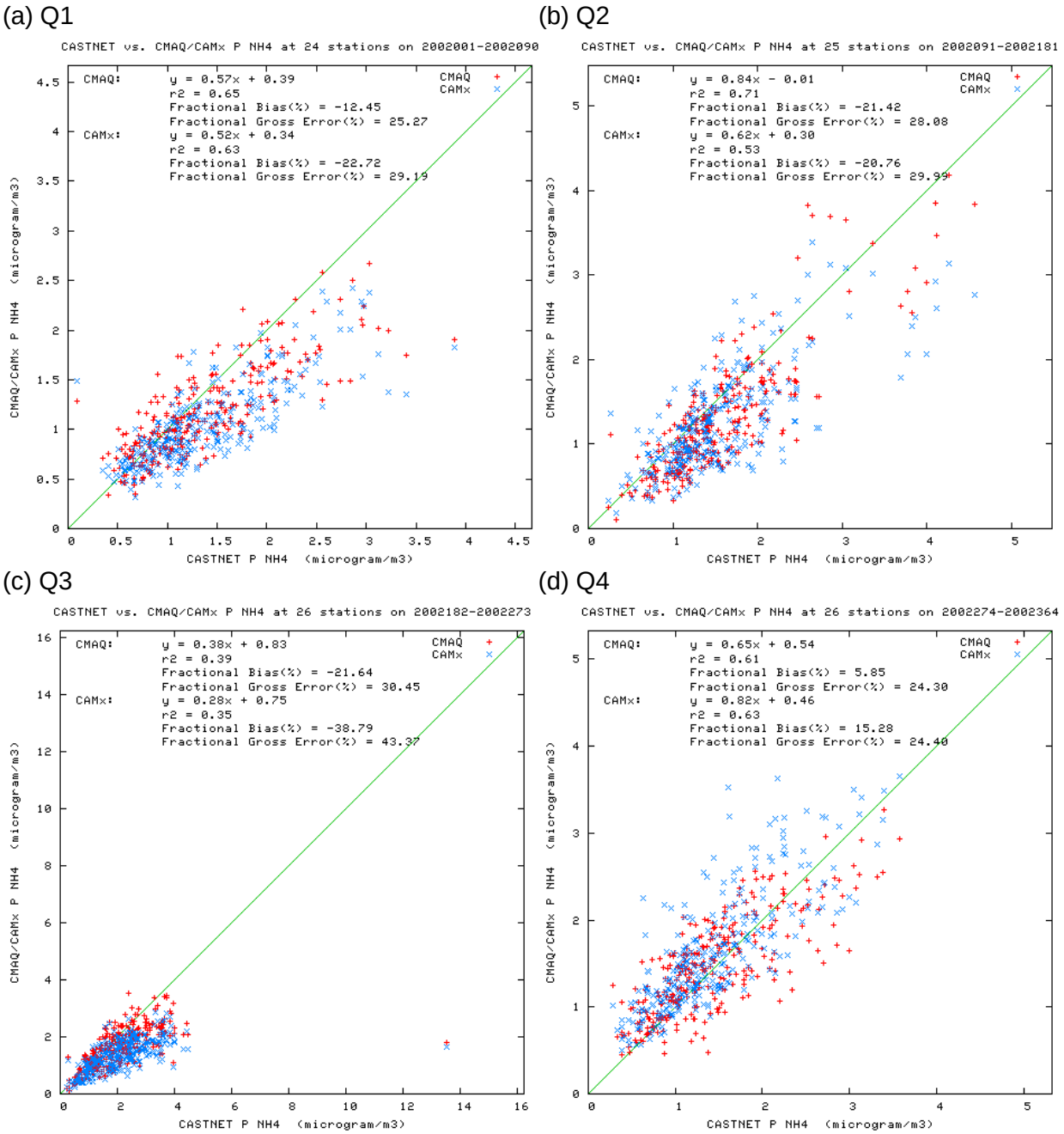


Figure A-3. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (CASTNet) NH4 concentrations for each quarter of 2002.

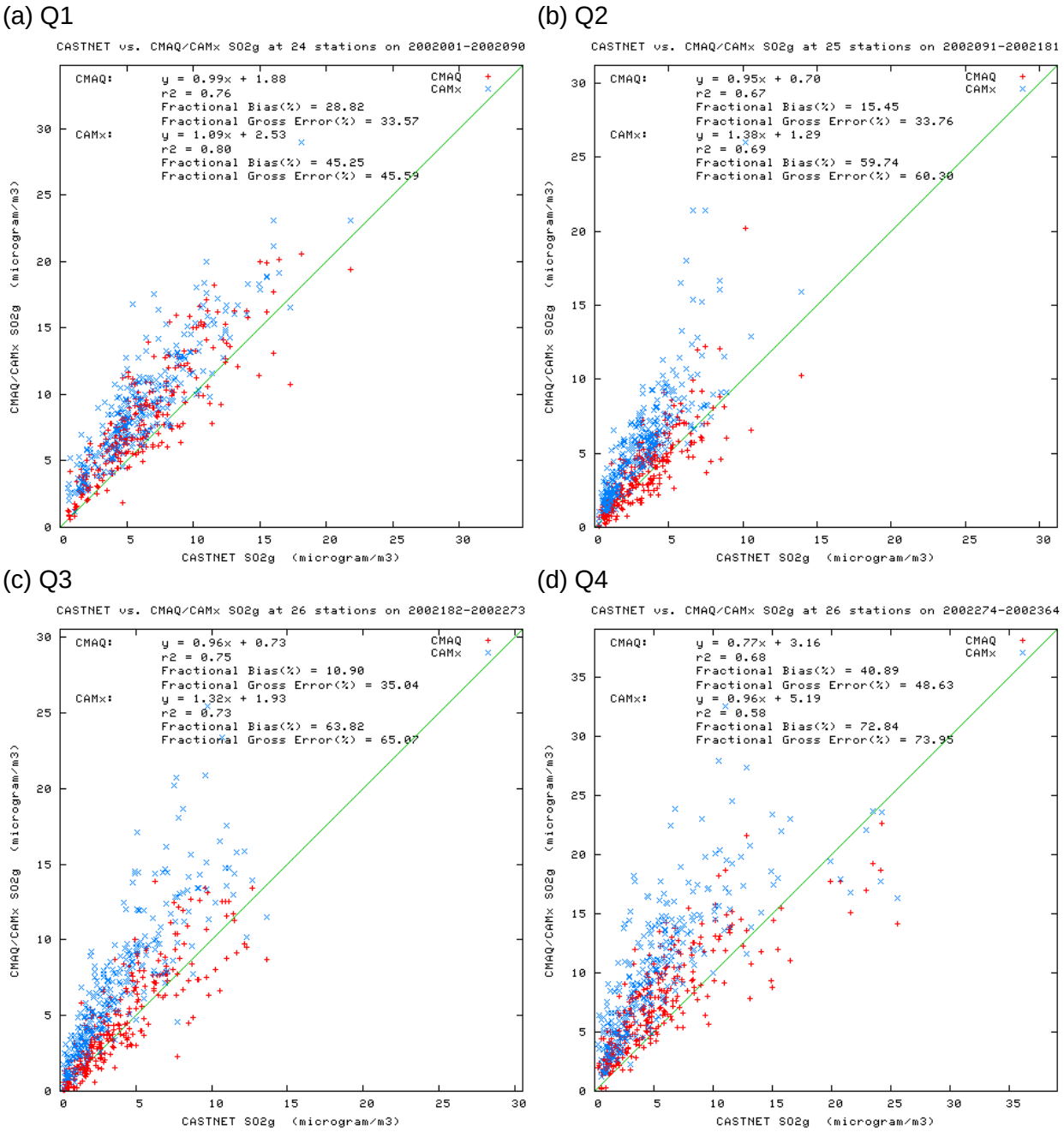


Figure A-4. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (CASTNet) SO2 concentrations for each quarter of 2002.

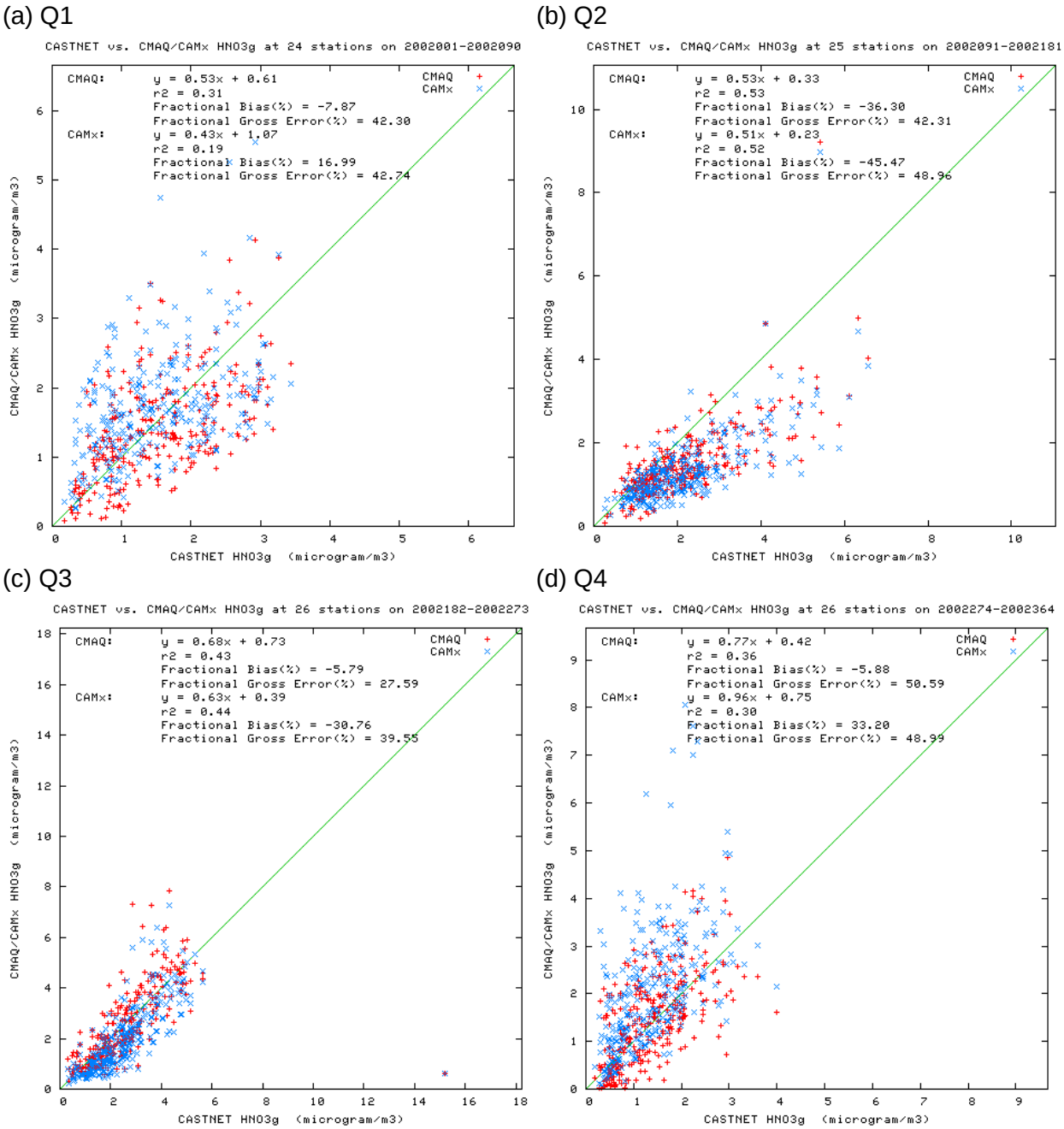


Figure A-5. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (CASTNet) HNO3 concentrations for each quarter of 2002.

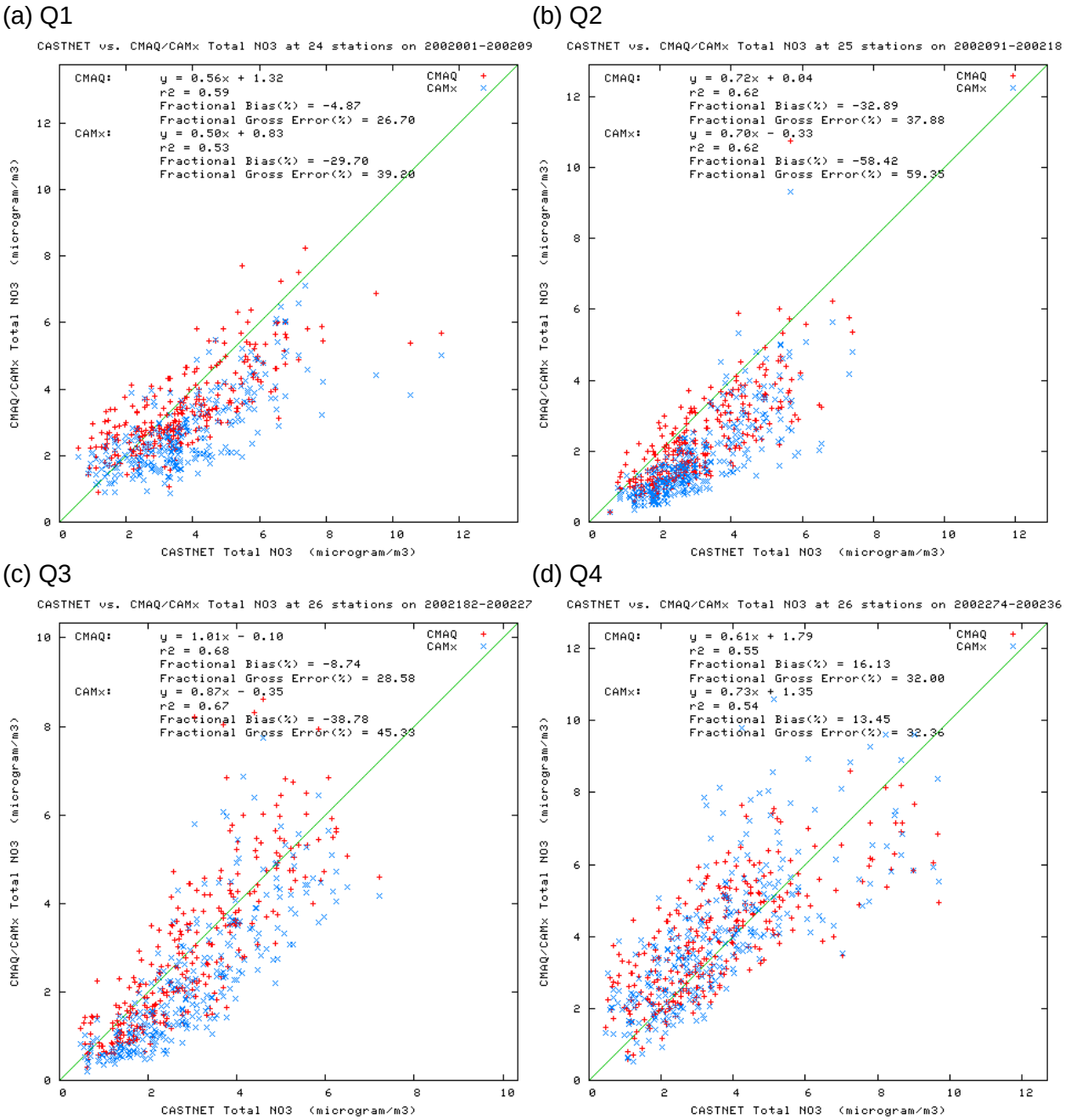


Figure A-6. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (CASTNet) total (gaseous+particulate) NO3 concentrations for each quarter of 2002.

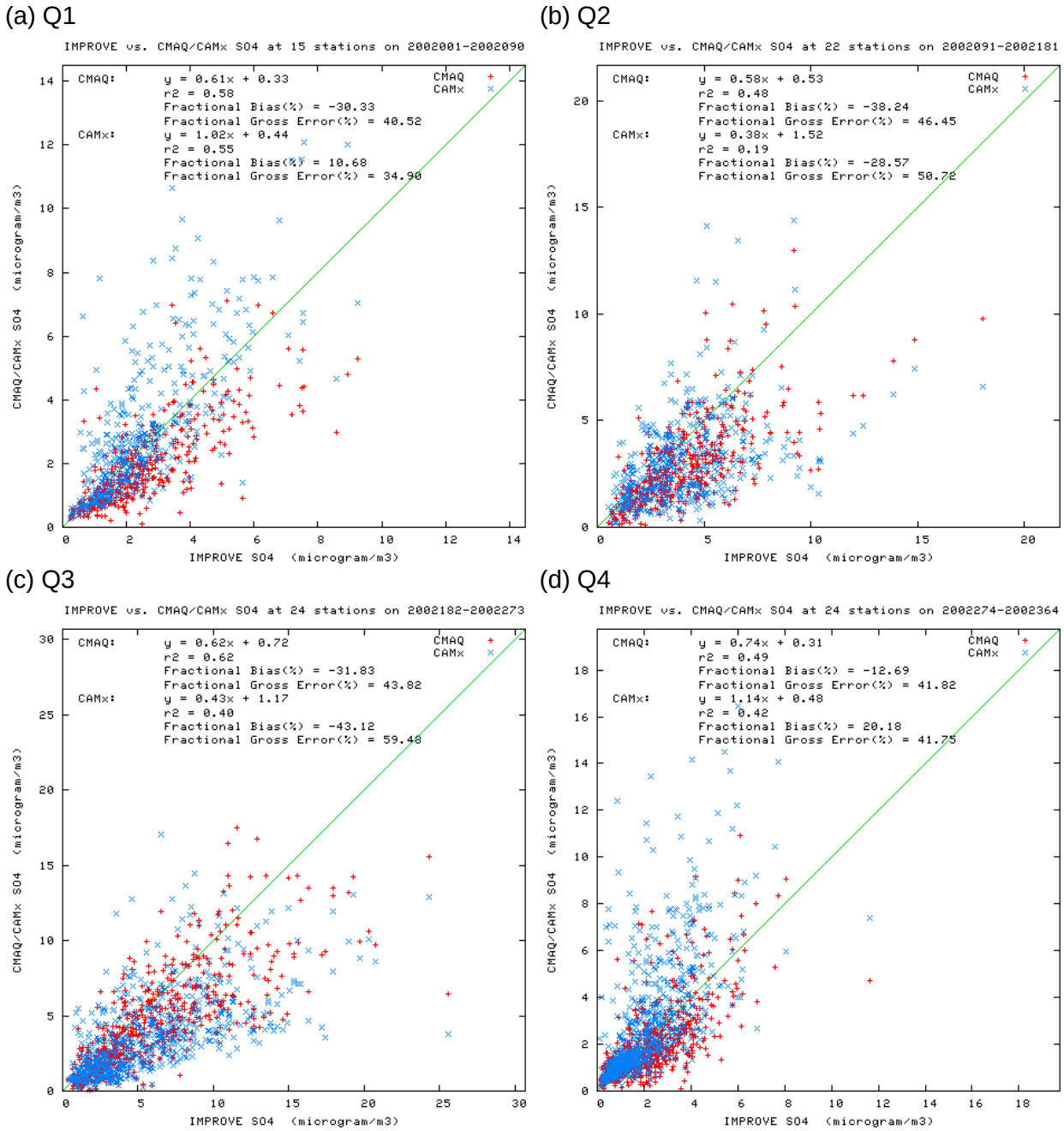
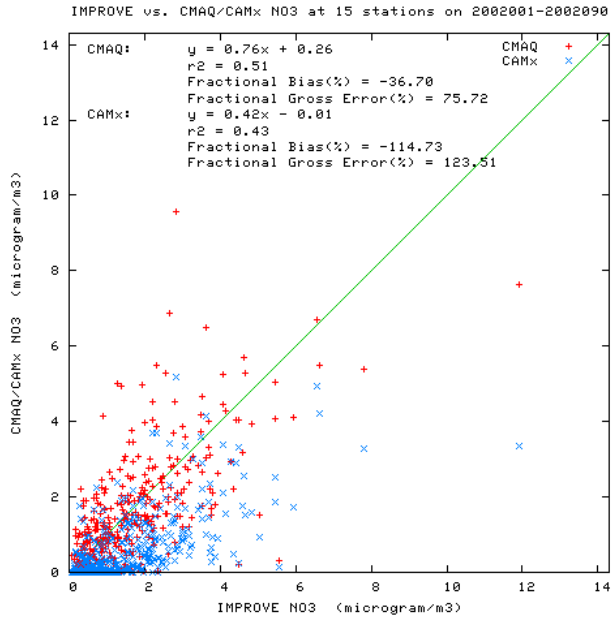
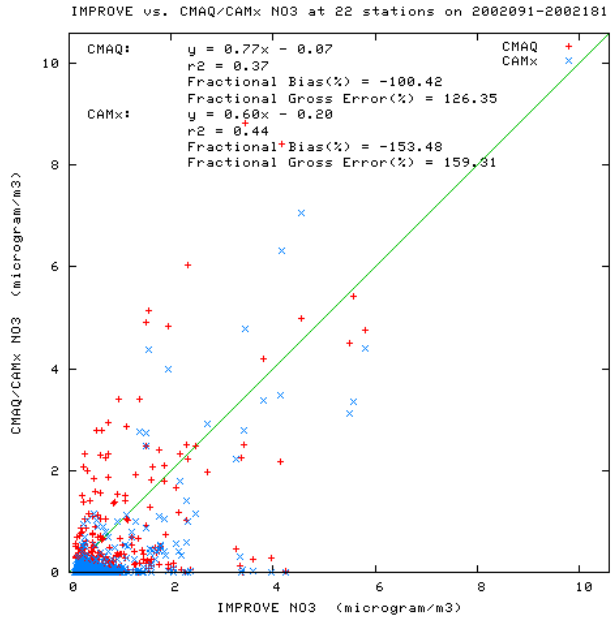


Figure A-7. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (IMPROVE) SO4 concentrations for each quarter of 2002.

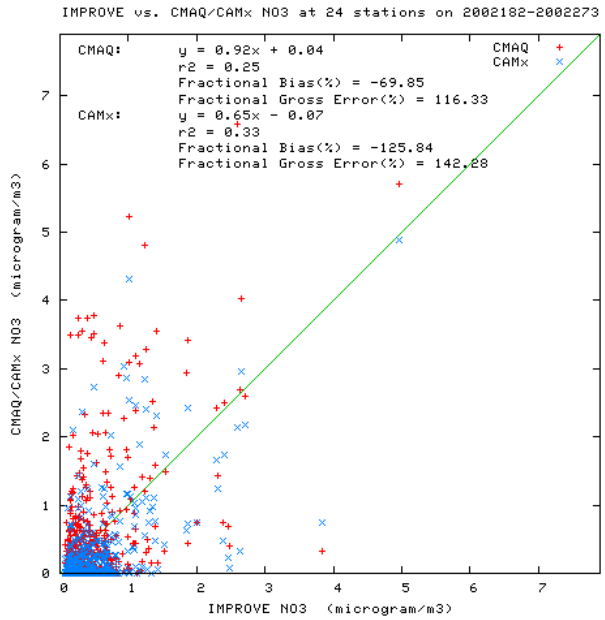
(a) Q1



(b) Q2



(c) Q3



(d) Q4

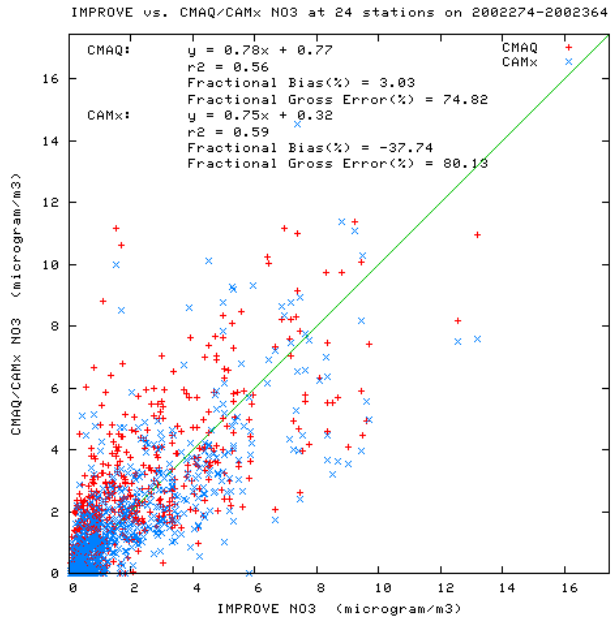


Figure A-8. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (IMPROVE) NO3 concentrations for each quarter of 2002.

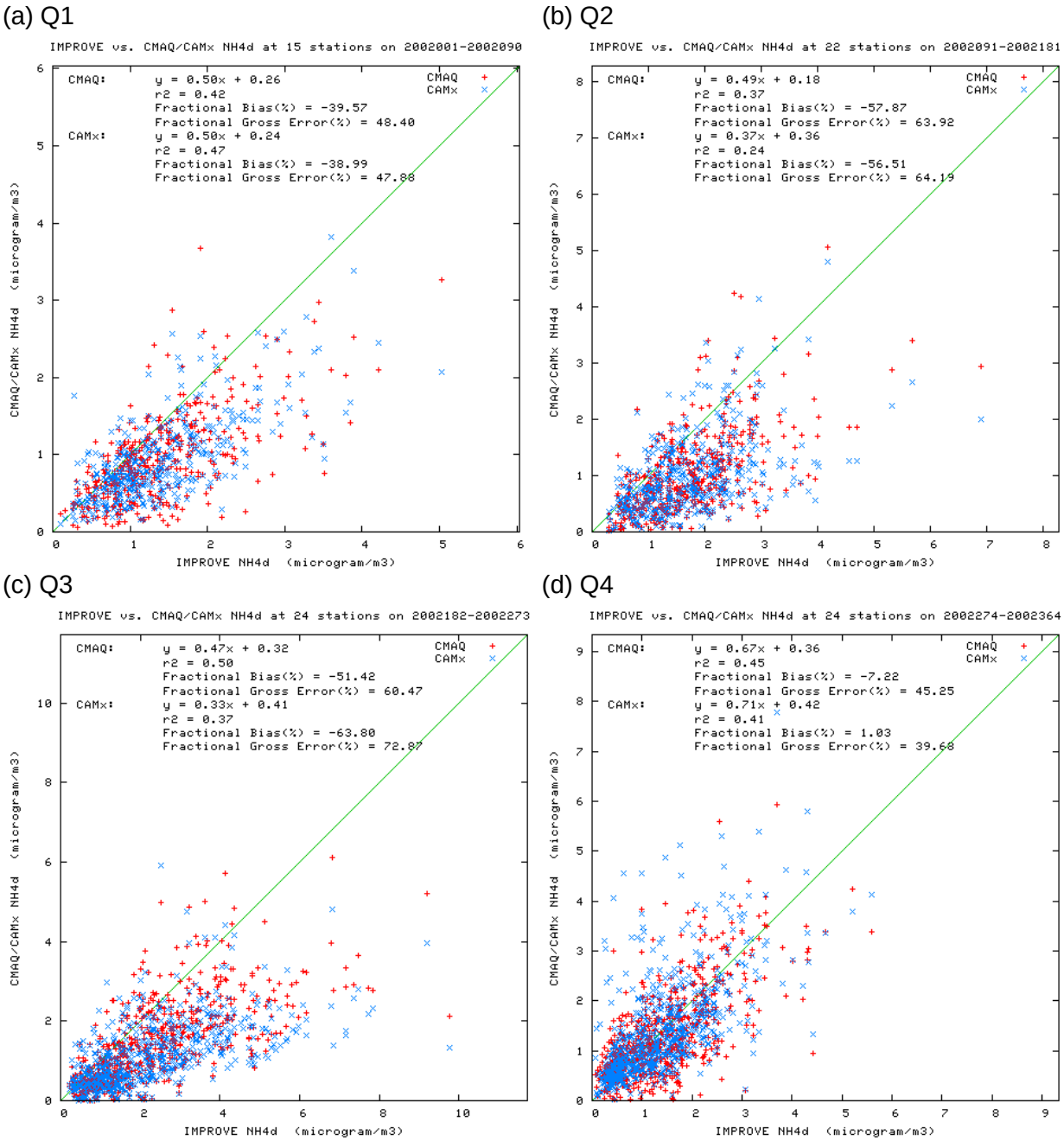


Figure A-9. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (IMPROVE; derived) NH4 concentrations for each quarter of 2002.

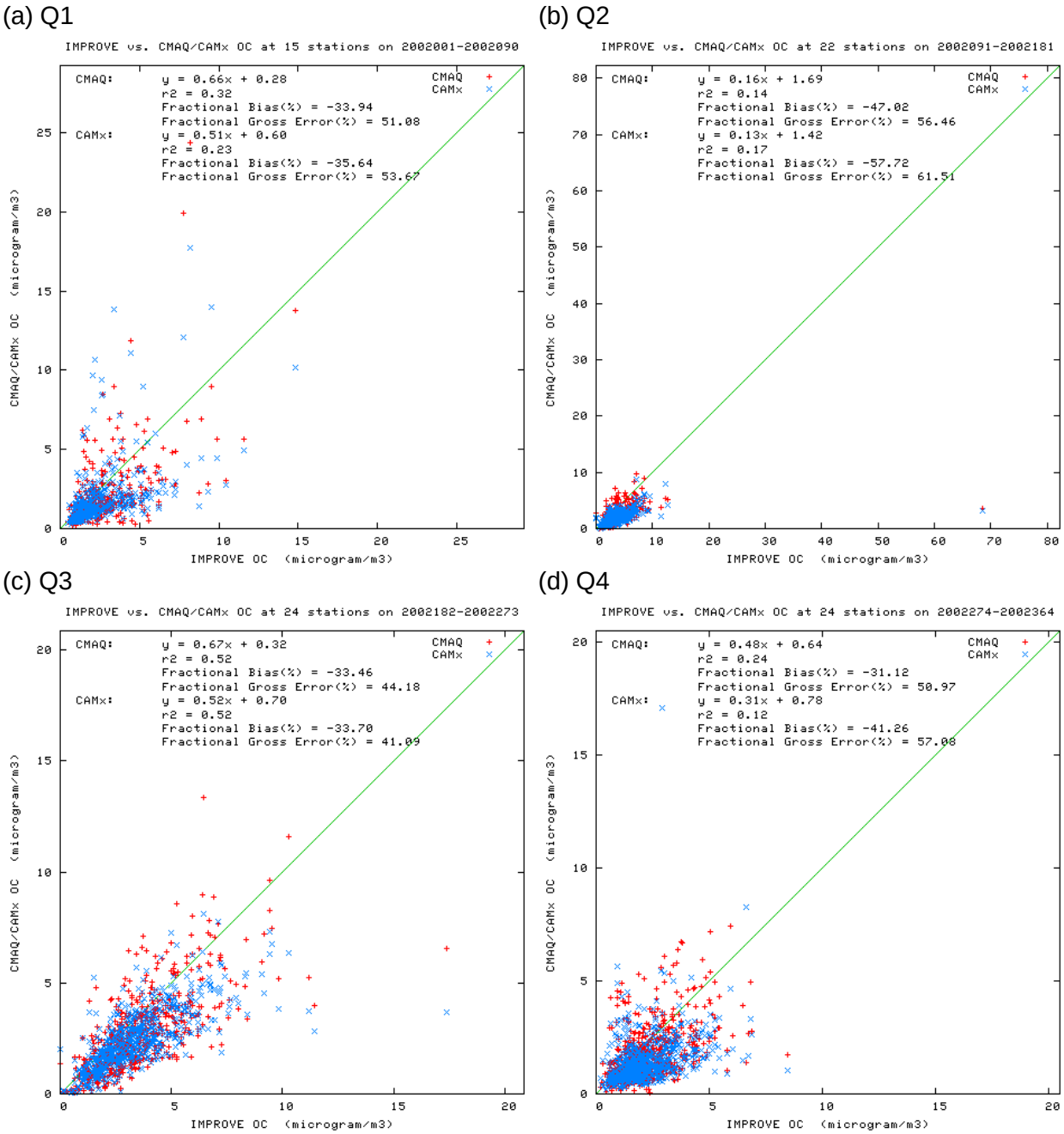


Figure A-10. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (IMPROVE) OCM concentrations for each quarter of 2002.

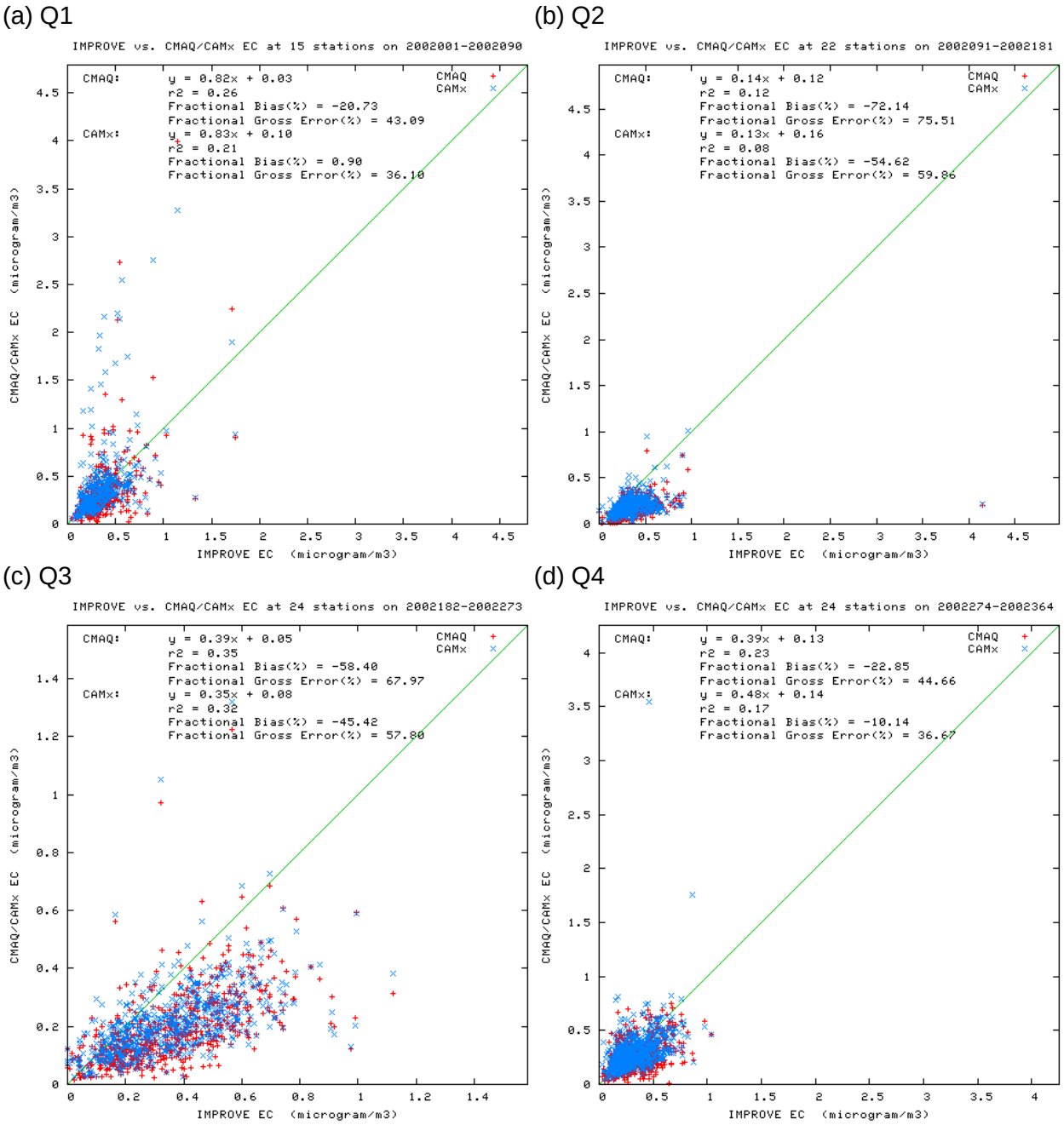


Figure A-11. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (IMPROVE) EC concentrations for each quarter of 2002.

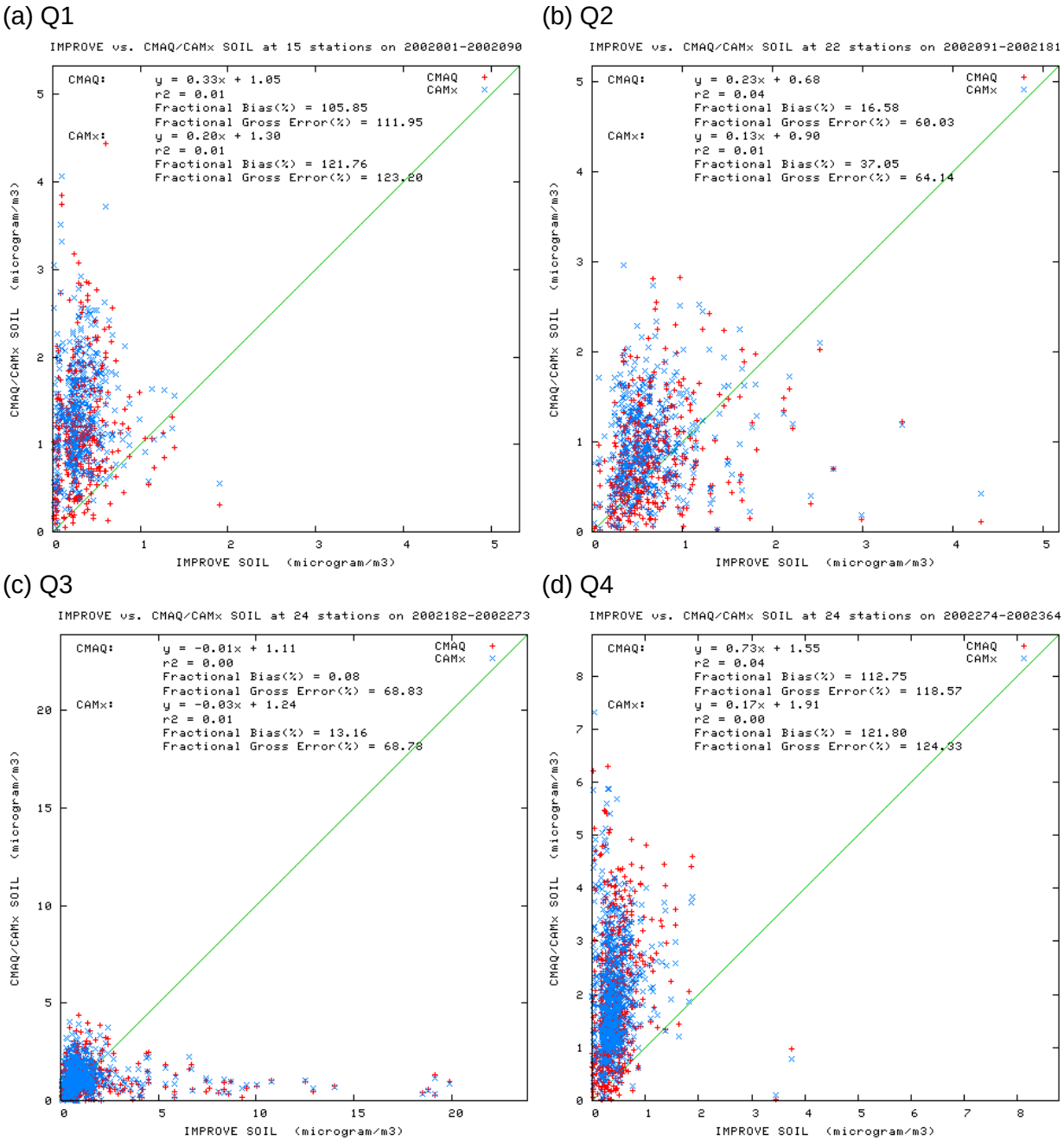


Figure A-12. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (IMPROVE) SOIL concentrations for each quarter of 2002.

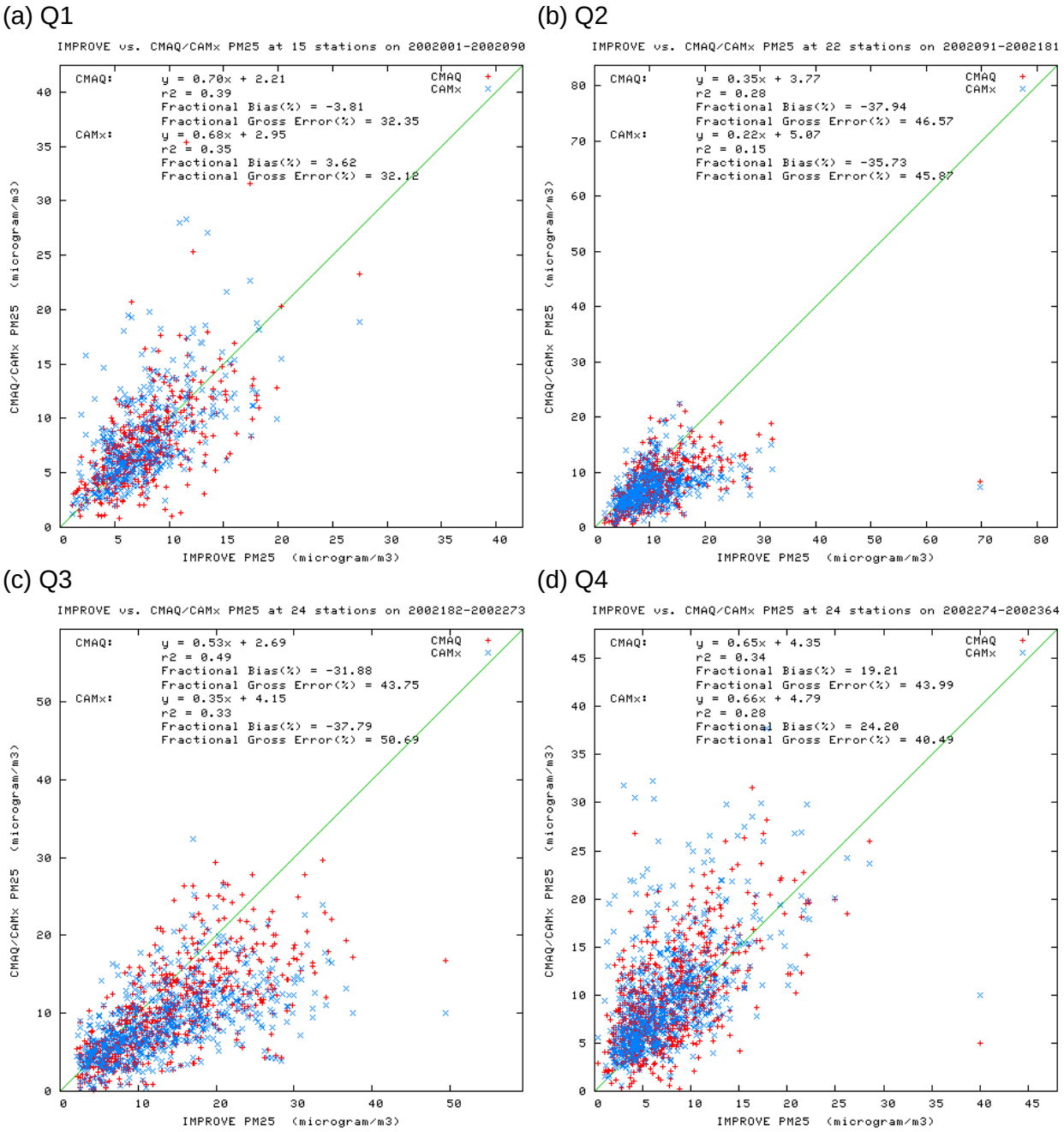


Figure A-13. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (IMPROVE) $PM_{2.5}$ concentrations for each quarter of 2002.

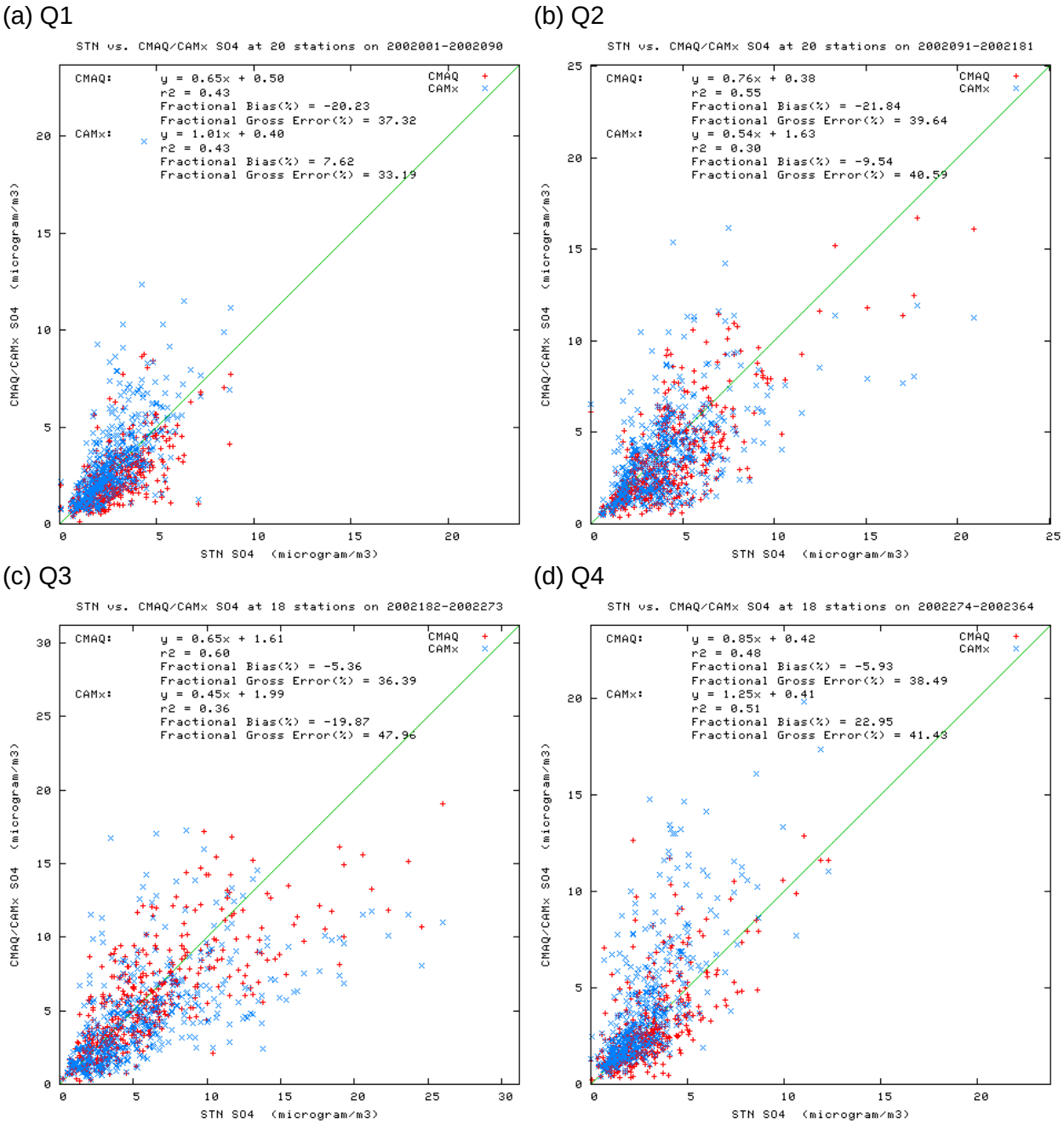


Figure A-14. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (STN) SO4 concentrations for each quarter of 2002.

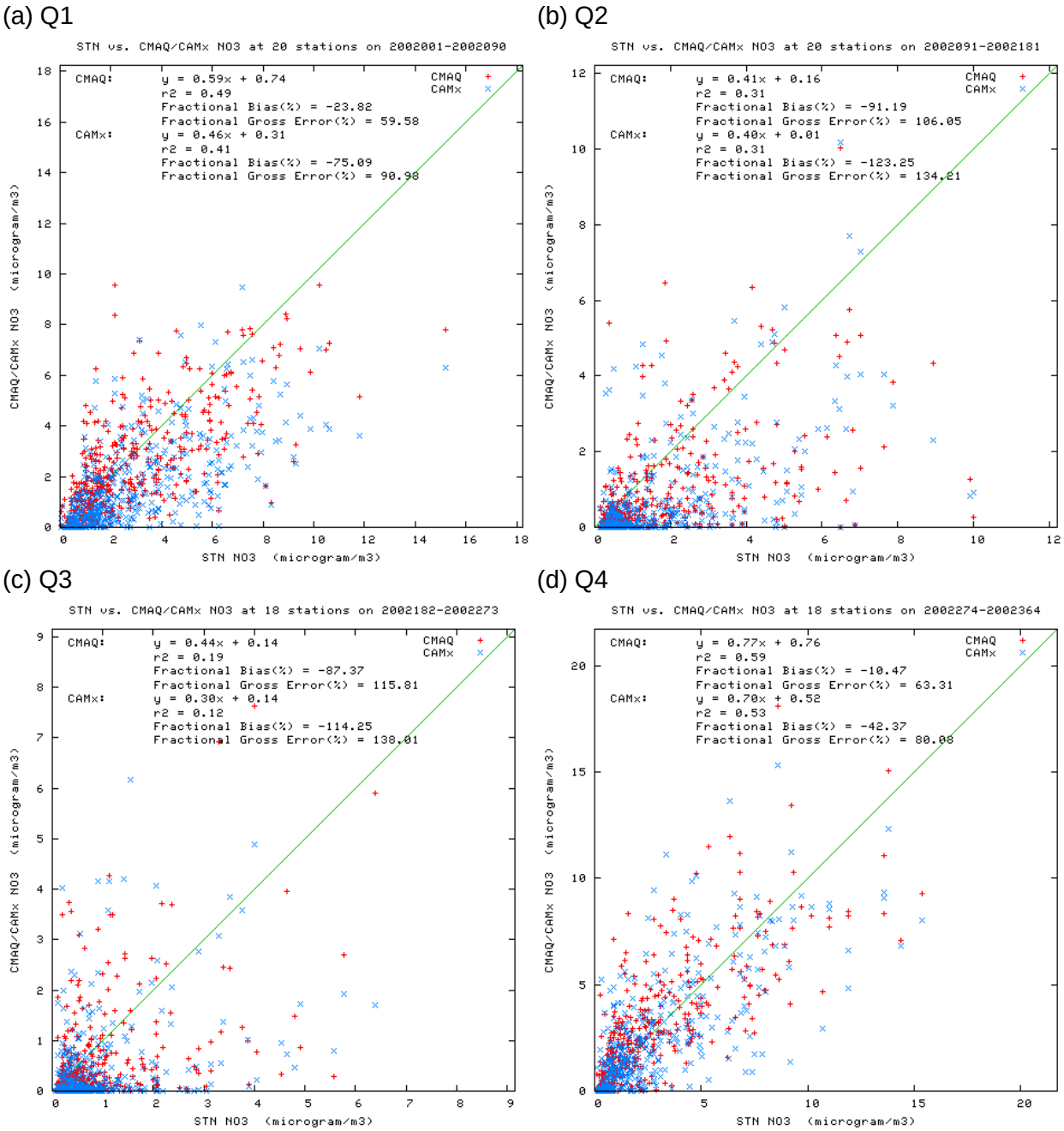
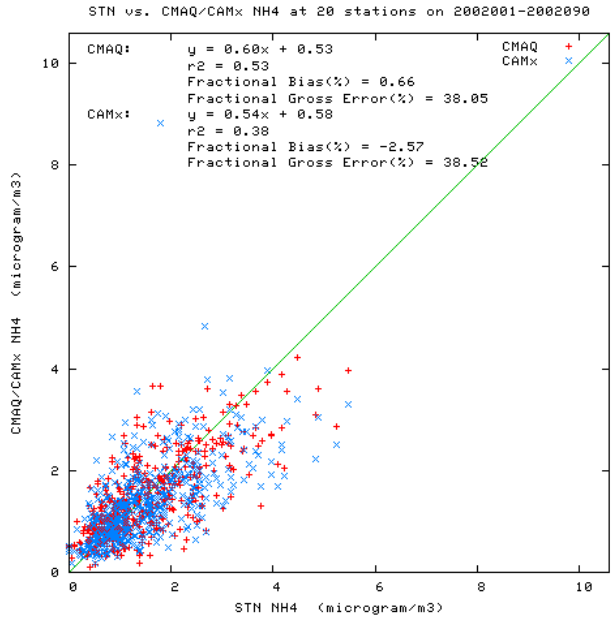
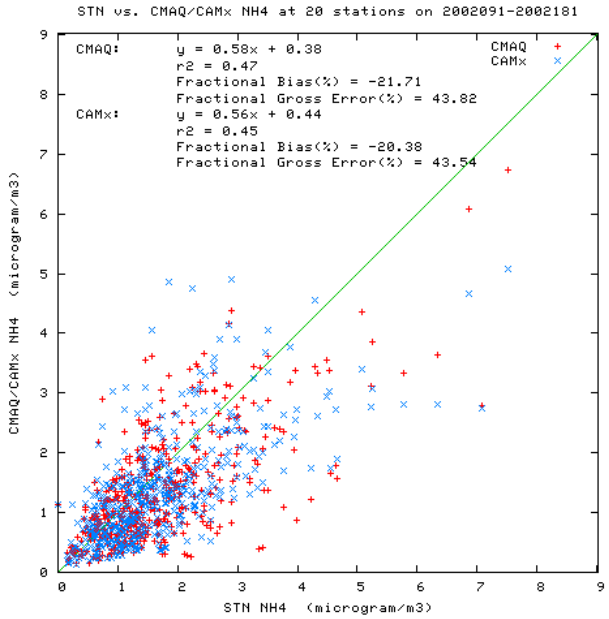


Figure A-15. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (STN) NO3 concentrations for each quarter of 2002.

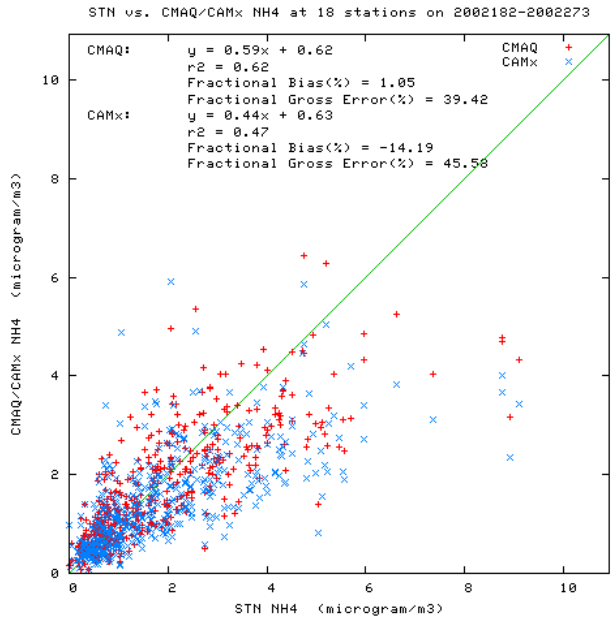
(a) Q1



(b) Q2



(c) Q3



(d) Q4

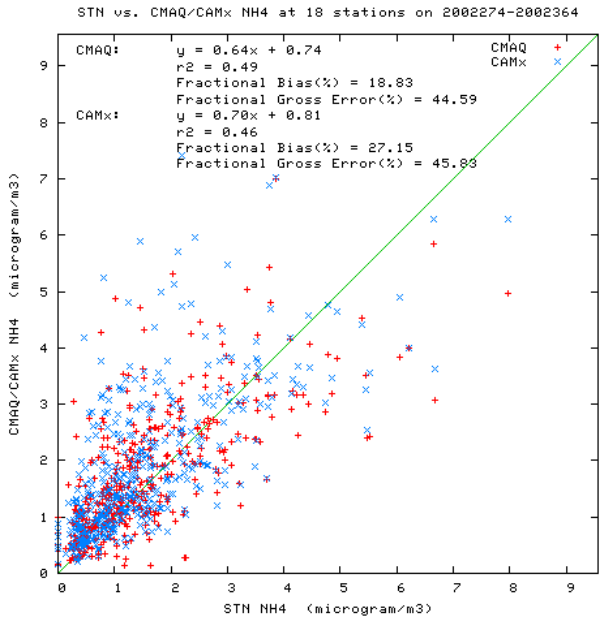


Figure A-16. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (STN) NH4 concentrations for each quarter of 2002.

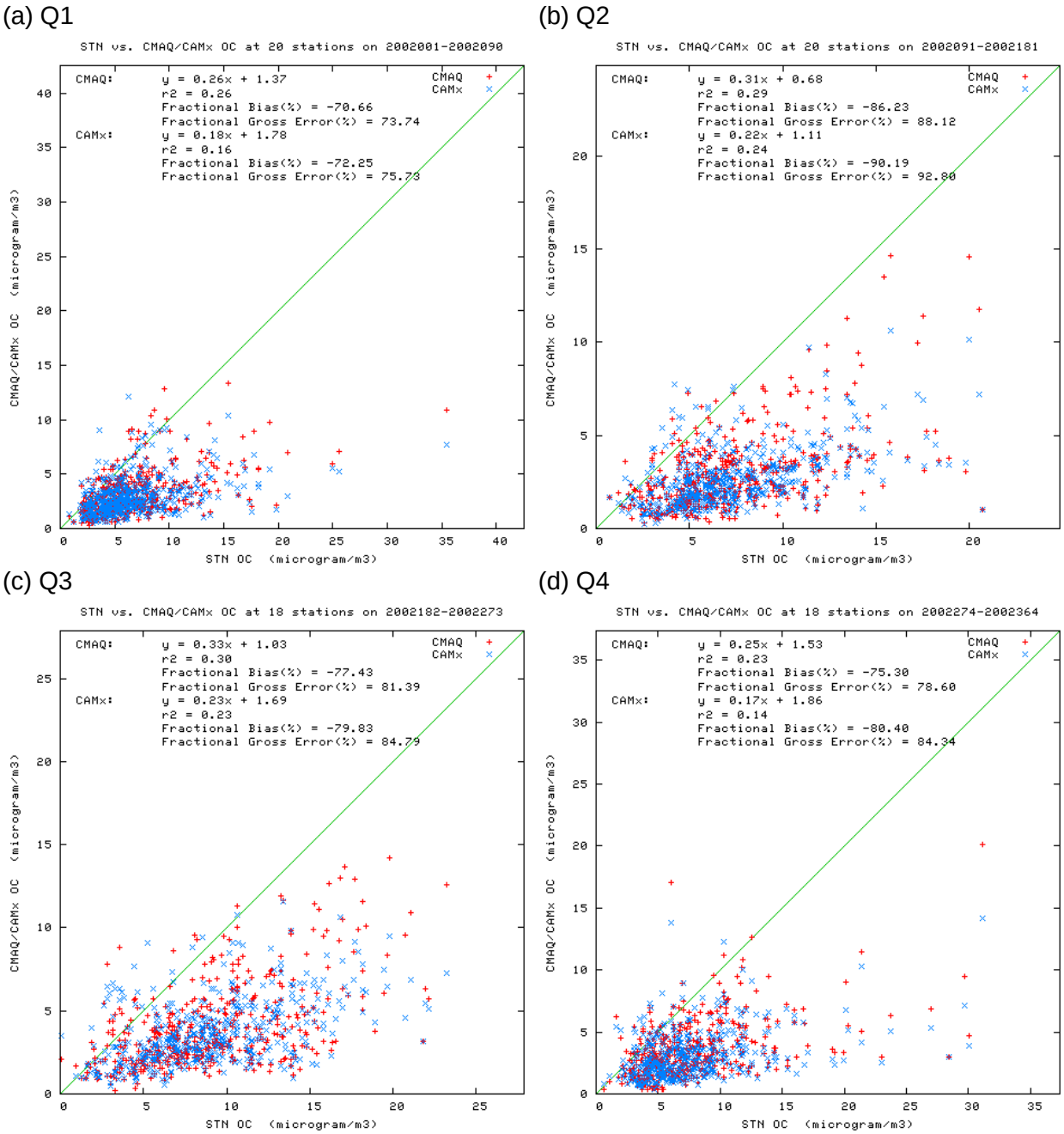
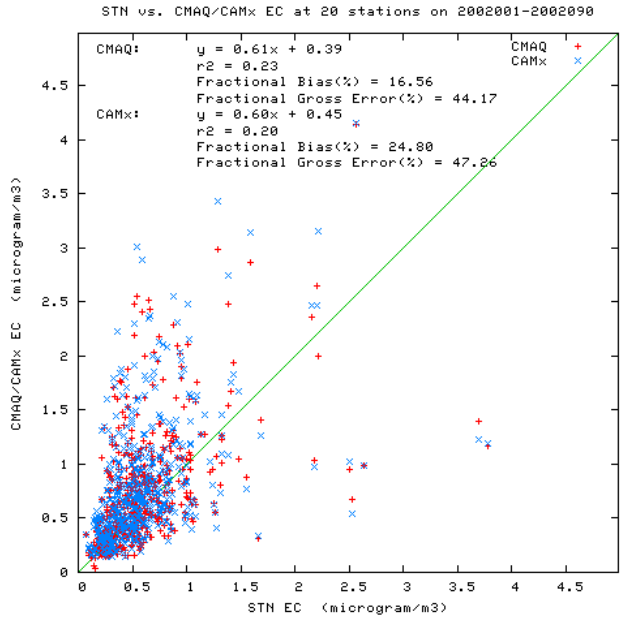
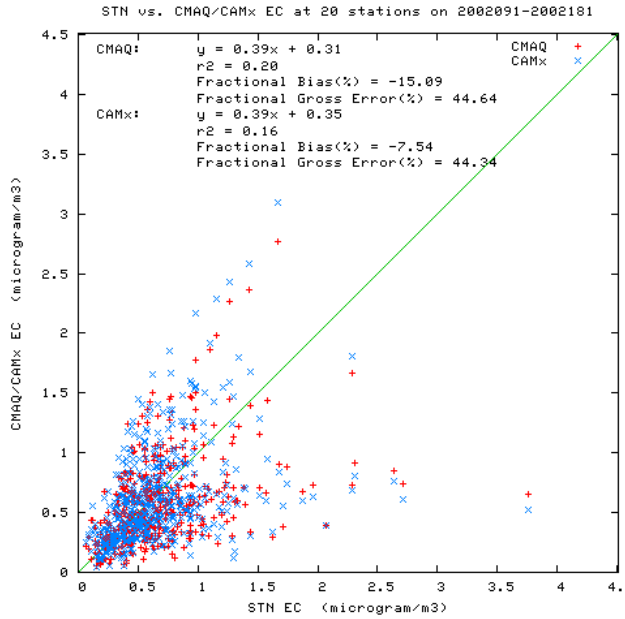


Figure A-17. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (STN) OCM concentrations for each quarter of 2002.

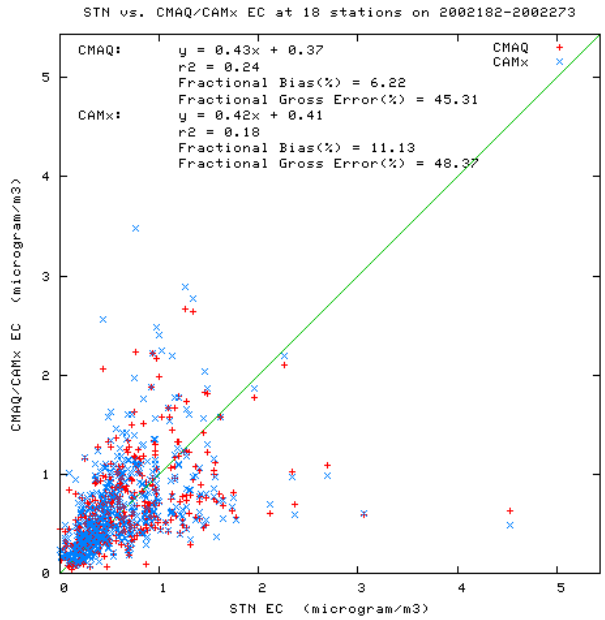
(a) Q1



(b) Q2



(c) Q3



(d) Q4

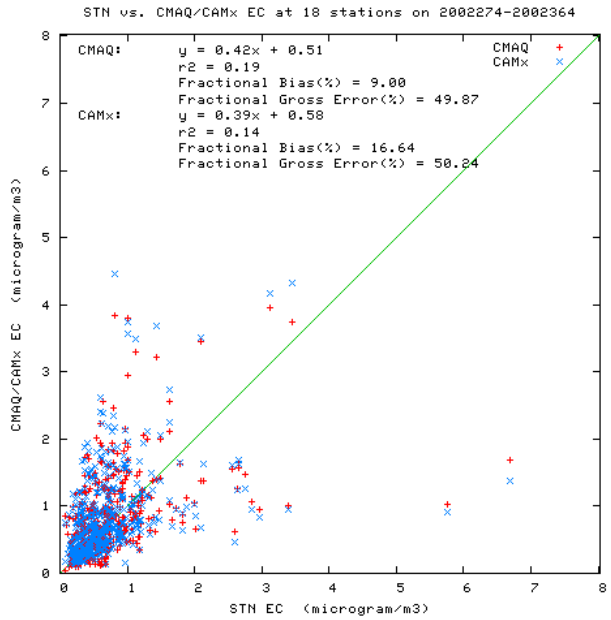


Figure A-18. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (STN) EC concentrations for each quarter of 2002.

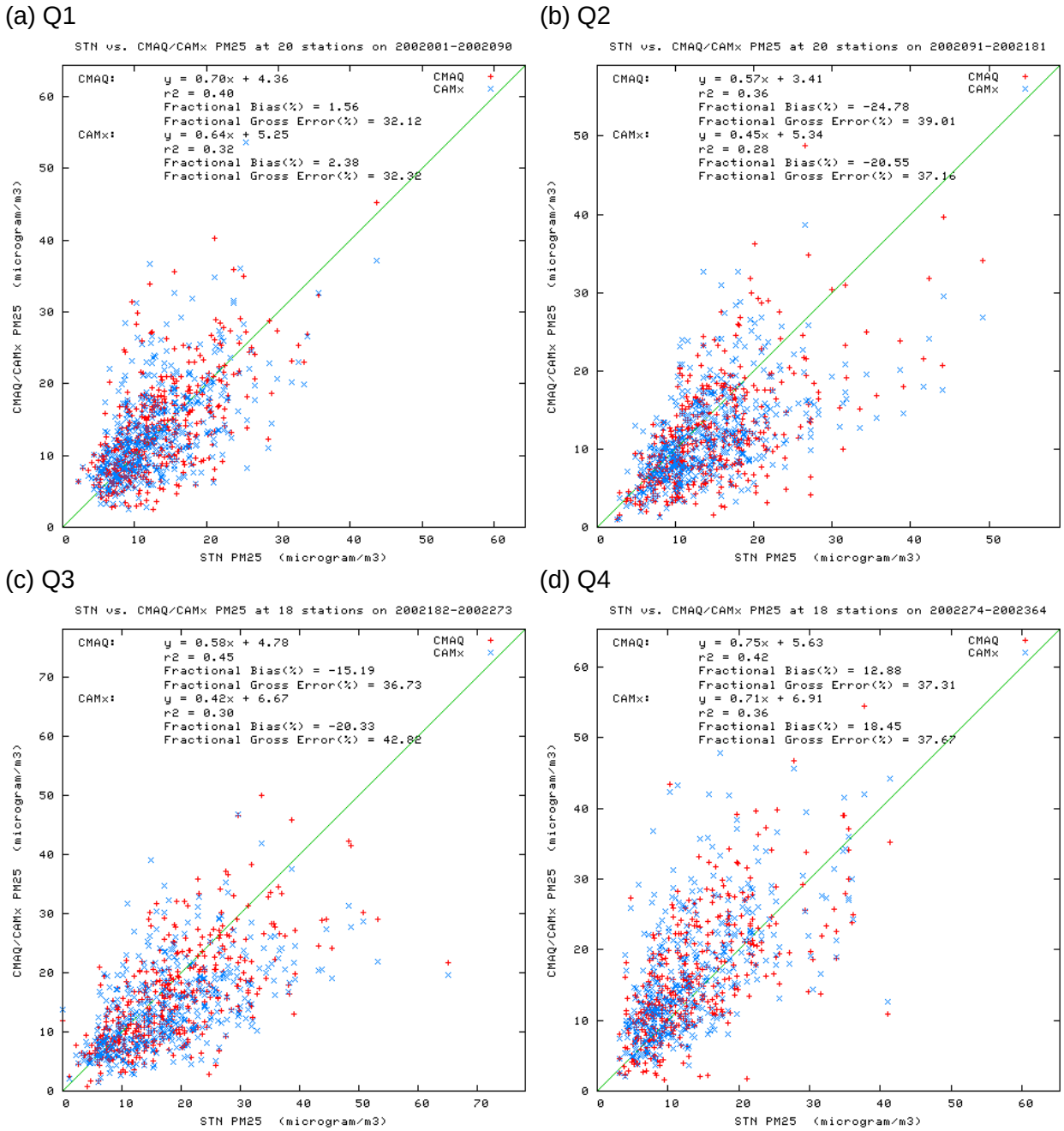
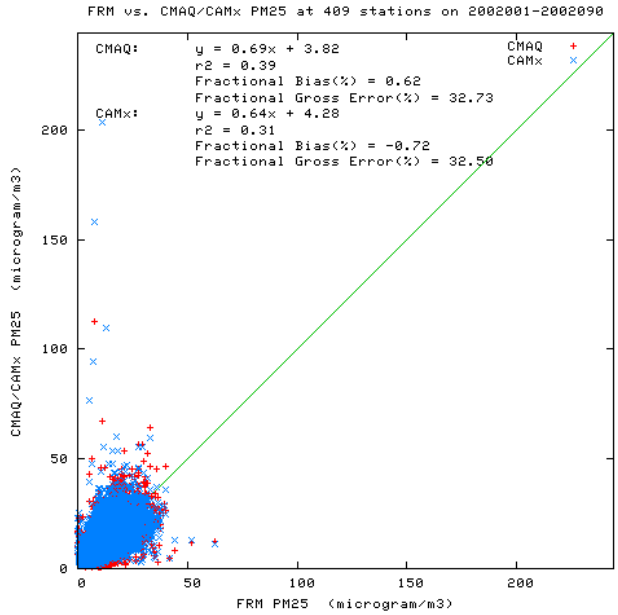
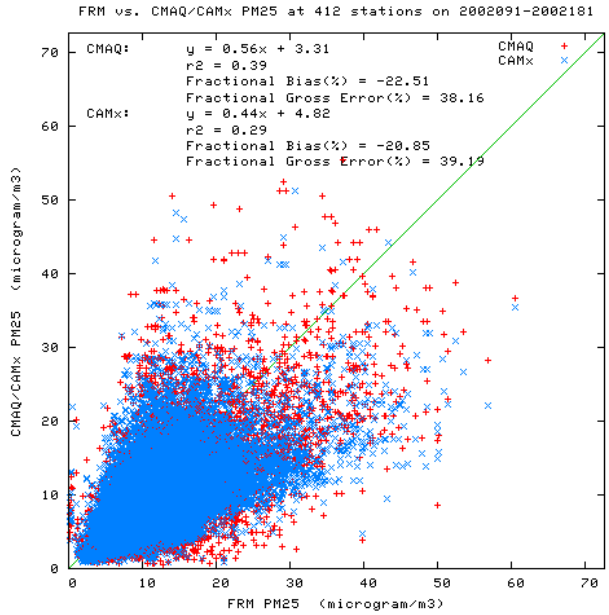


Figure A-19. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (STN) $PM_{2.5}$ concentrations for each quarter of 2002.

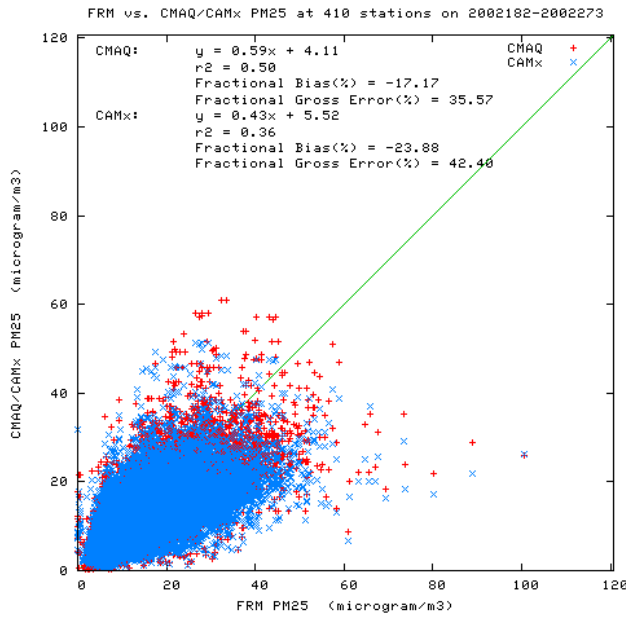
(a) Q1



(b) Q2



(c) Q3



(d) Q4

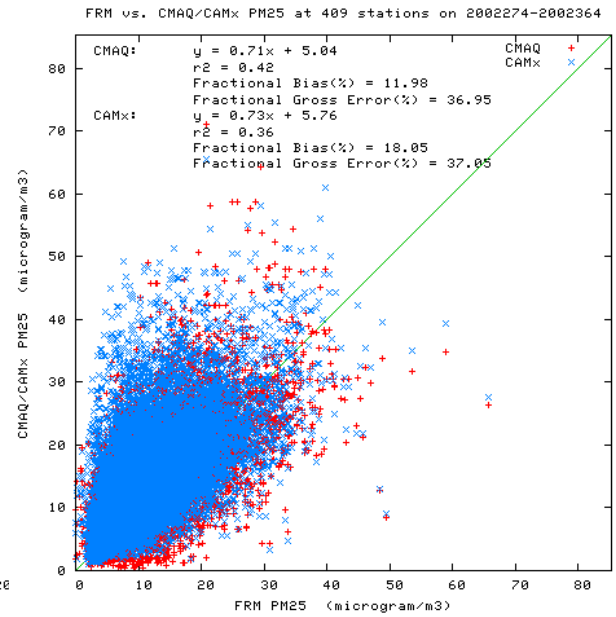


Figure A-20. Scatter plots of predicted (CAMx and CMAQ 2002 Base5b 12 km simulations) and observed (FRM) $PM_{2.5}$ concentrations for each quarter of 2002.