Supplement for

A proxy for atmospheric daytime gaseous sulfuric acid concentration in urban Beijing

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This supplementary information document contains seven figures, totaling 5 pages.
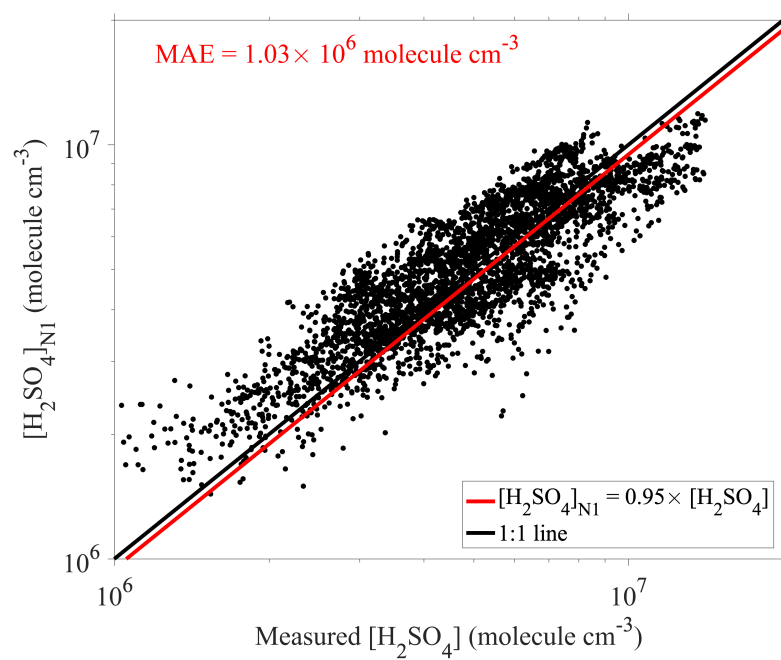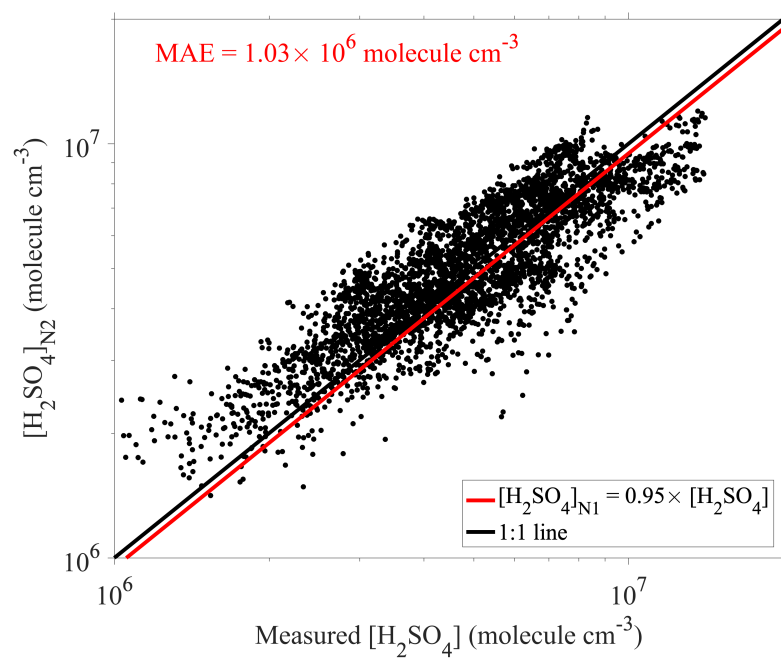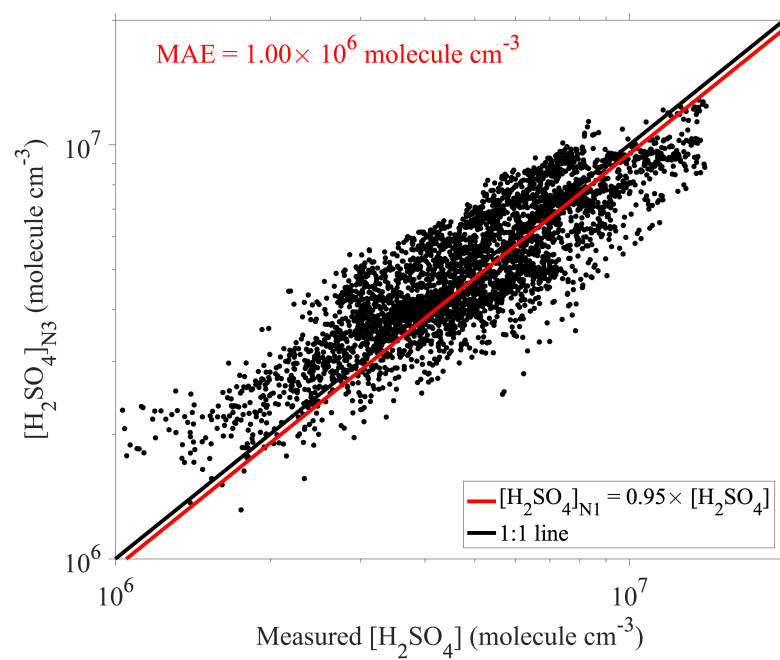
MAE $= 1.03 \times 10^6$ molecule cm^{-3}

$[H_2SO_4]_{N1} = 0.95 \times [H_2SO_4]$
1:1 line

Figure S1a

MAE $= 1.03 \times 10^6$ molecule cm^{-3}

$[H_2SO_4]_{N1} = 0.95 \times [H_2SO_4]$
1:1 line

Figure S1b

Figure S1c

Figure S1d

MAE = 0.94×10^6 molecule cm^{-3}

$[H_2SO_4]_{N1} = 0.96 \times [H_2SO_4]$
1:1 line

Figure S1e

MAE = 0.98×10^6 molecule cm^{-3}
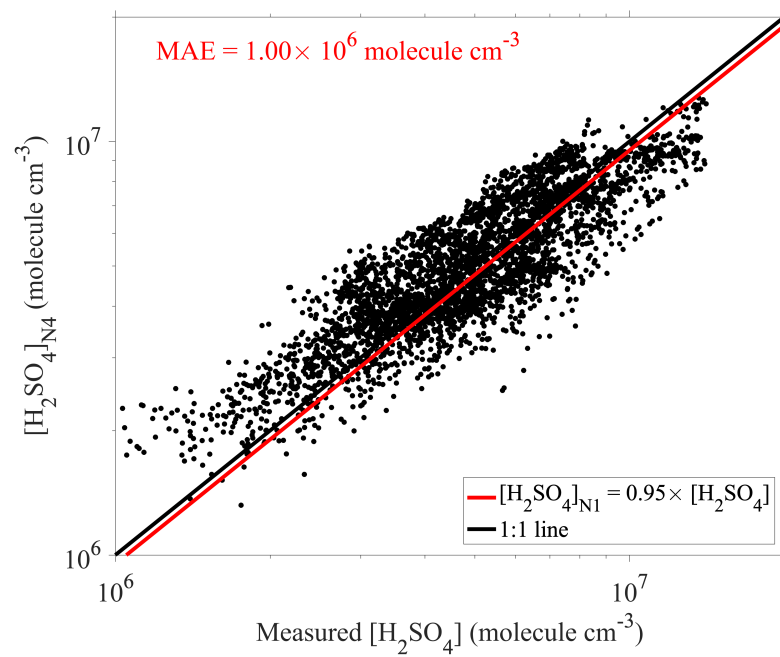
$[H_2SO_4]_{N1} = 0.95 \times [H_2SO_4]$
1:1 line
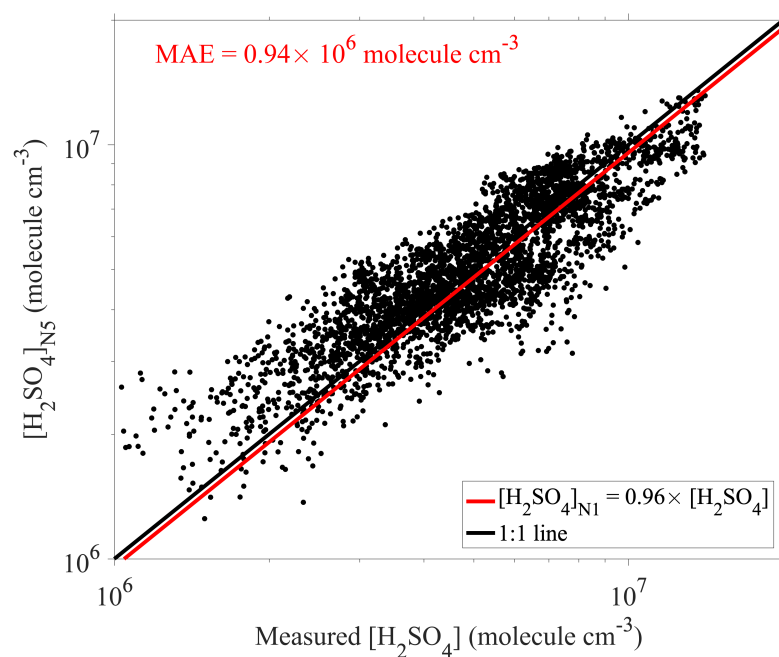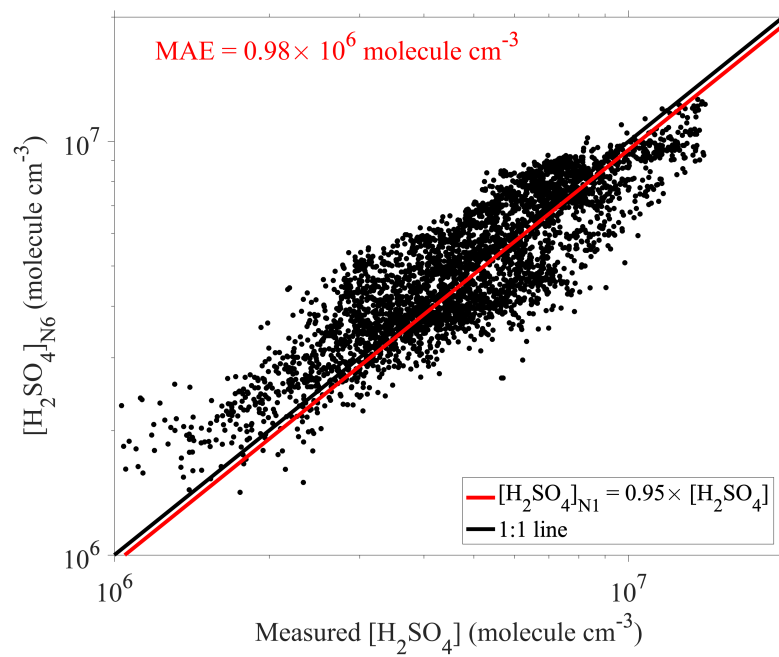
Figure S1f

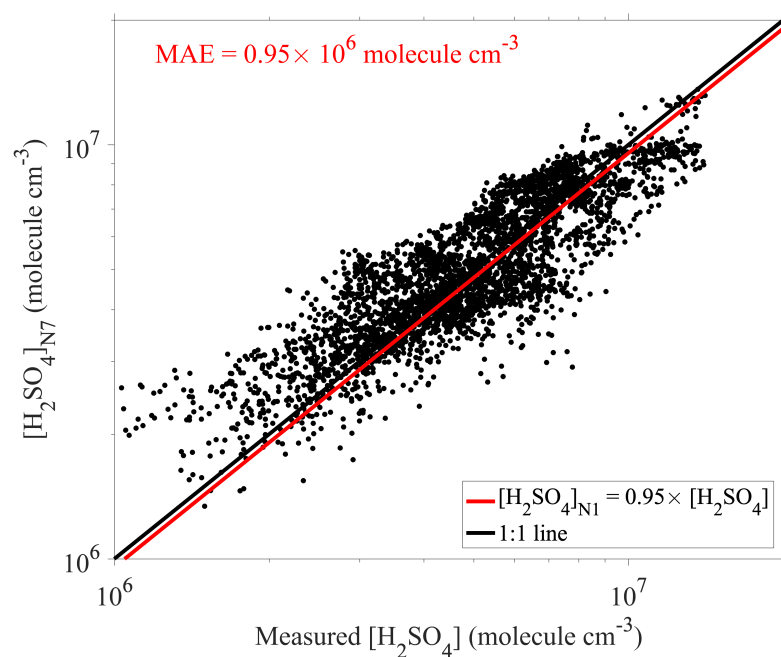**Figure S1g**

Figure S1. (a-g) Correlations between measured $[H_2SO_4]$ and predicted values given by proxies N1-N7, respectively. The black line represents a 1:1 plot. The red line represents a linear fit between $[H_2SO_4]_{Ni}$ and measured $[H_2SO_4]$ with a zero intercept.