

1 *Supplement of*

2 **Response to interactive Comments by Anonymous Referees**

3 David D. Parrish

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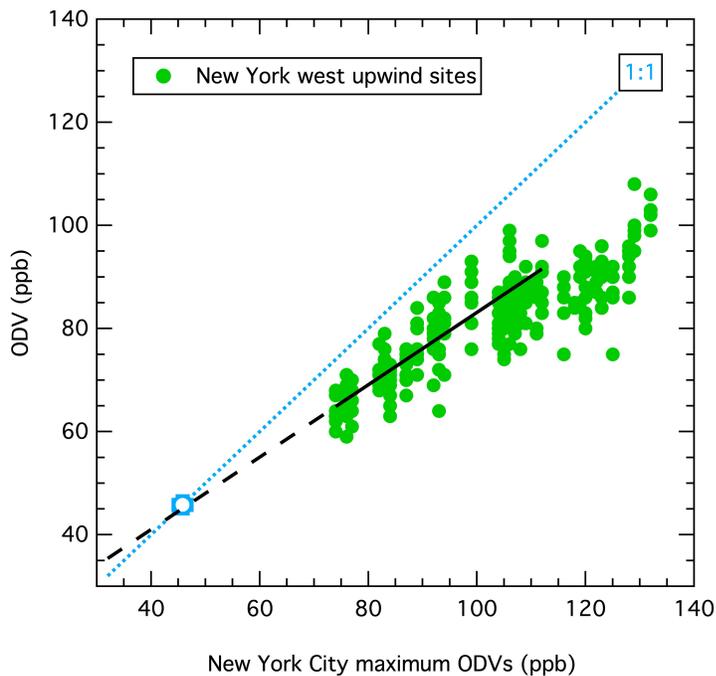
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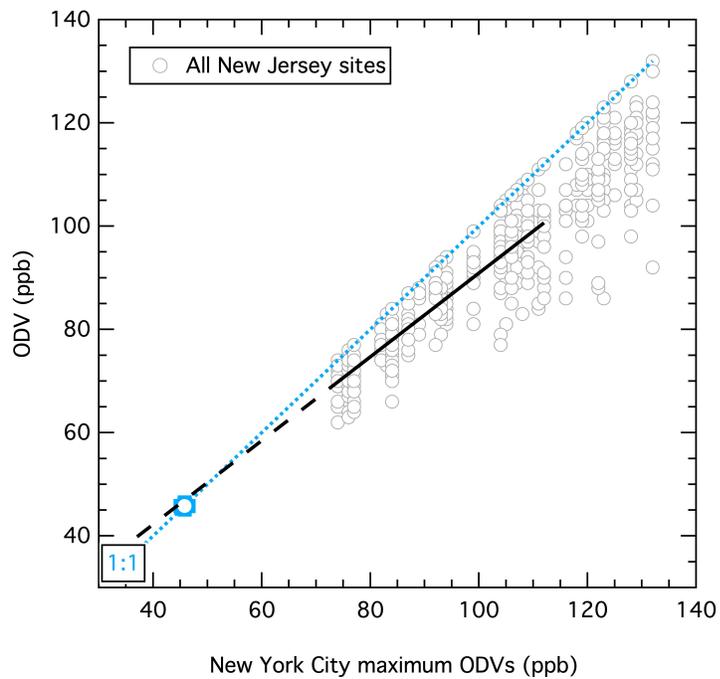
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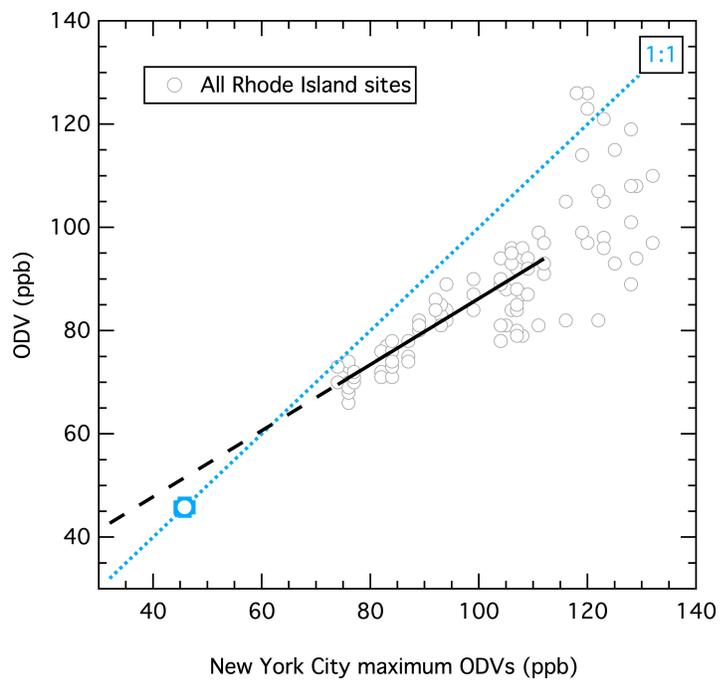
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12 **Figure S1.** Correlation between the ODVs at the New York west upwind sites and the maximum ODVs
13 recorded in the New York city urban area. Solid black line shows the linear fit to the ODVs recorded in
14 2000-2017, with the dashed line showing the extrapolation to smaller ODVs. The blue symbol shows the
15 mean U.S. background ODV derived from the exponential fits to the ODV time series.



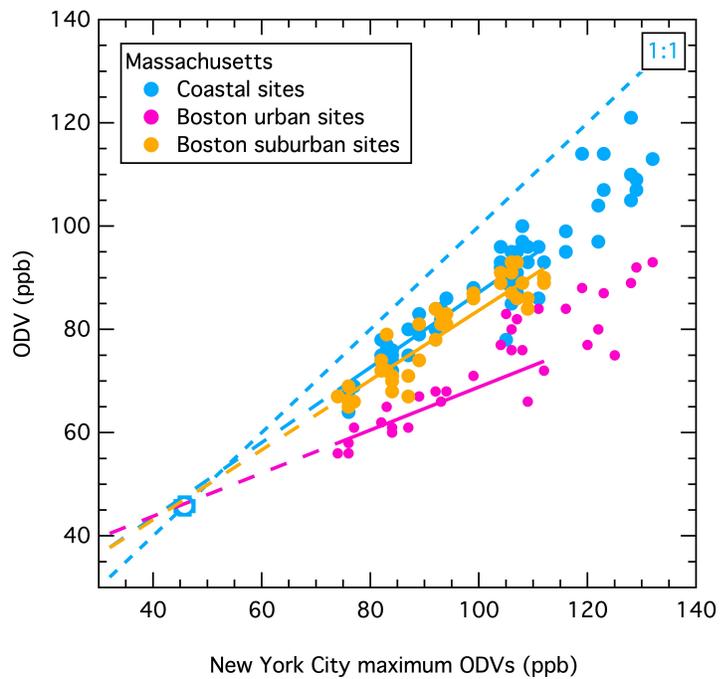
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17 **Figure S2.** Correlation between the ODVs at all New Jersey sites and the maximum ODVs recorded in the
 18 New York city urban area. Format is the same as in Figure S1.



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20 **Figure S3.** Correlation between the ODVs at all Rhode Island sites and the maximum ODVs recorded in
 21 the New York city urban area. Format is the same as in Figure S1.

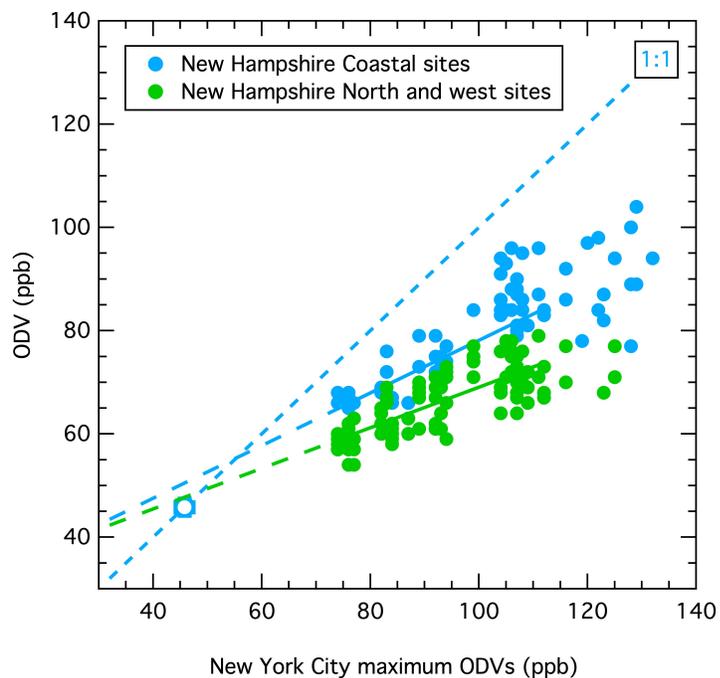


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Figure S4. Correlation between the ODVs at three sets of Massachusetts sites and the maximum ODVs recorded in the New York city urban area. Format is the same as in Figure S1.

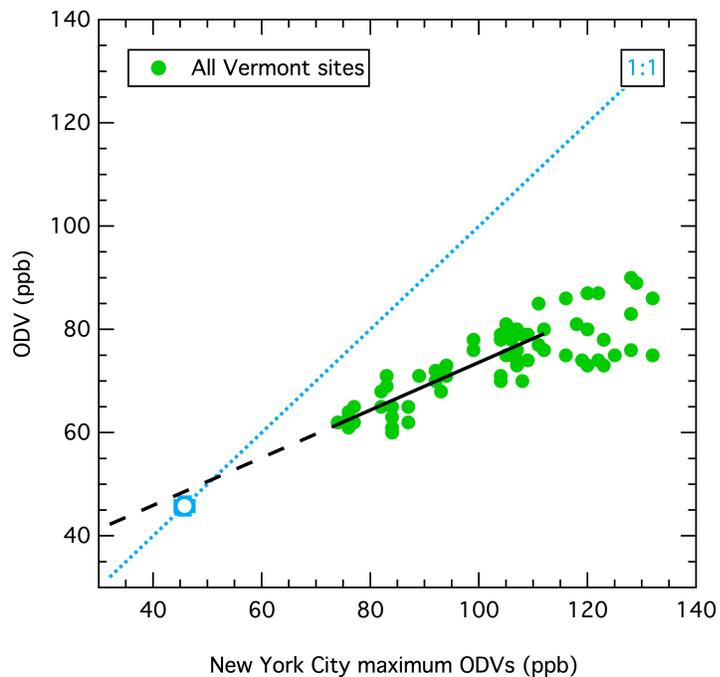


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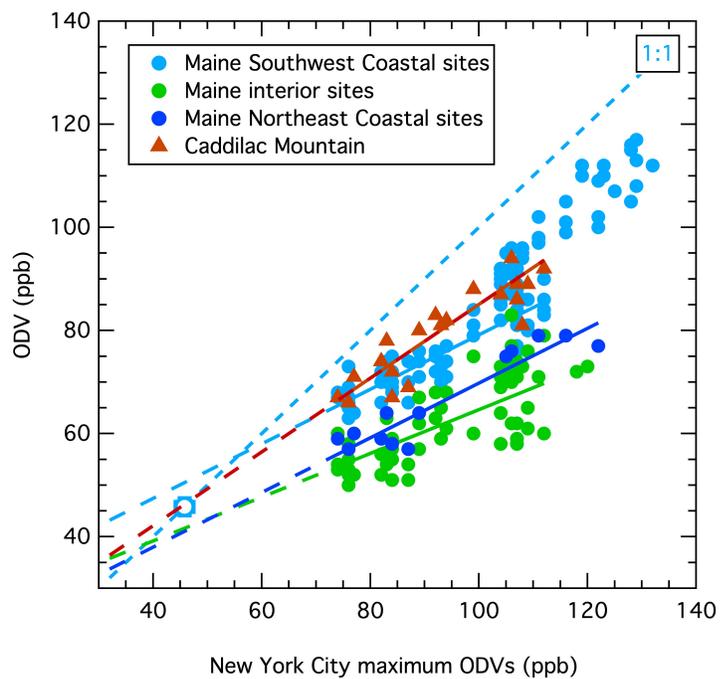
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Figure S5. Correlation between the ODVs at two sets of New Hampshire sites and the maximum ODVs recorded in the New York city urban area. Format is the same as in Figure S1.



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Figure S6. Correlation between the ODVs at all Vermont sites and the maximum ODVs recorded in the New York city urban area. Format is the same as in Figure S1.



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Figure S7. Correlation between the ODVs at four sets of Maine sites and the maximum ODVs recorded in the New York city urban area. Format is the same as in Figure S1, except for the Maine northeast coastal sites all ODVs recorded (1991-2017) are included in the fit.