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Supplement of

Importance of gas-particle partitioning of ammonia in haze formation in the rural agricultural environment

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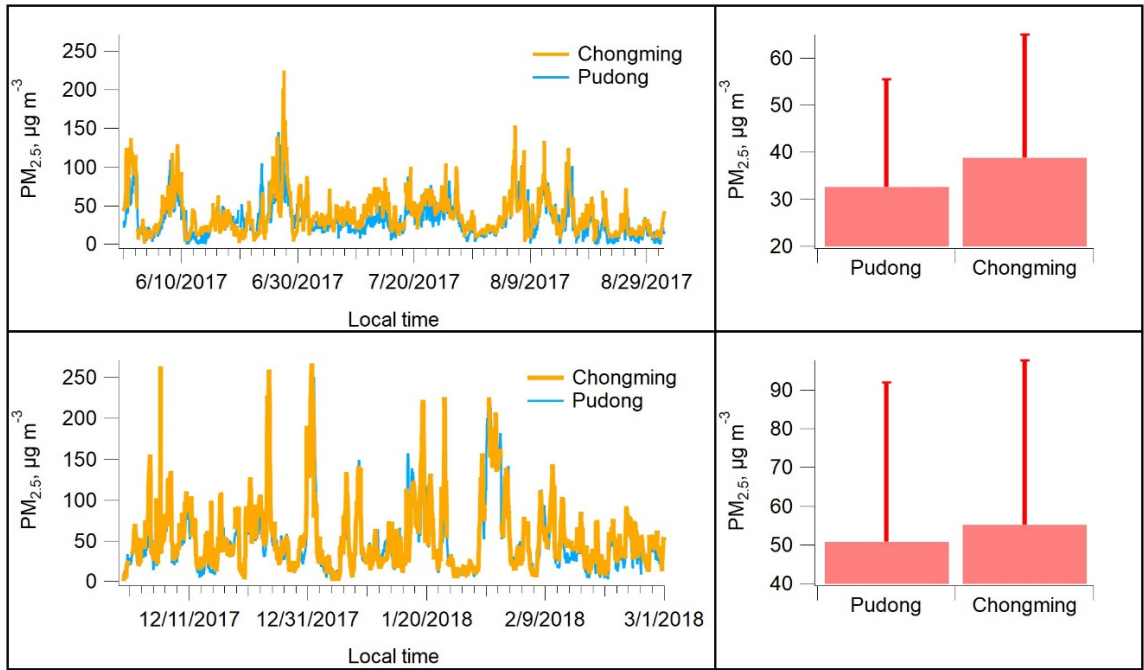


Figure S1: PM_{2.5} at Chongming (rural) and Pudong (urban) in summer (top) and winter (bottom).

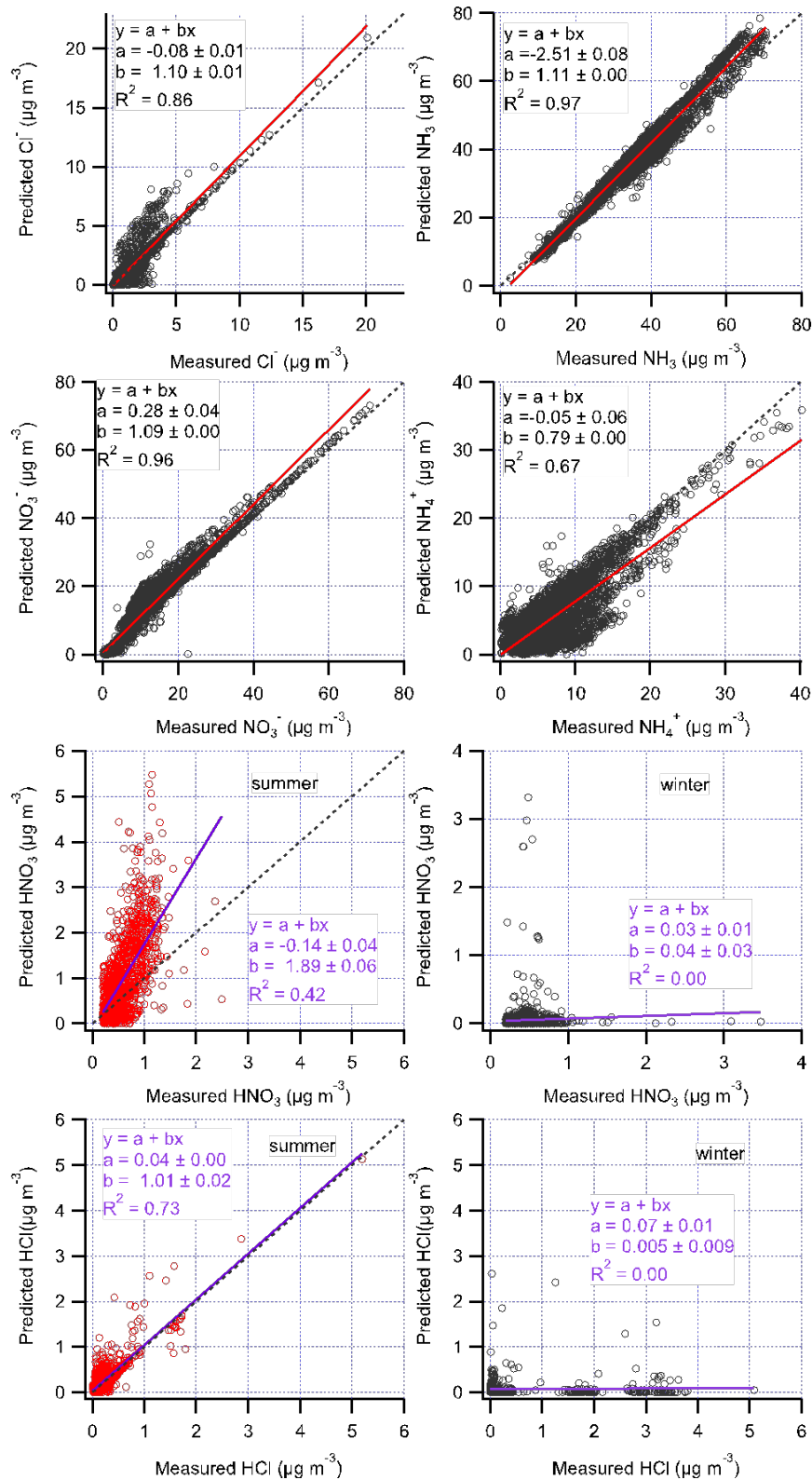


Figure S2: Comparison of predicted and measured Cl^- , NO_3^- , NH_3 , NH_4^+ , and HNO_3 and HCl in summer and in winter, respectively. Orthogonal distance regression (ODR) fits with $\pm 1\sigma$ are shown.

Table S1: District level emission (unit: Mg/year) of NH₃, SO₂, and NO_x in Shanghai based on the MEIC emission inventory (MEIC, www.meicmodel.org)

Name	Agriculture _NH ₃	Agriculture _NO _x	Agriculture _SO ₂	All _NH ₃	All _NO _x	All_SO ₂
Baoshan	371.7	0	0	679.7	33924.2	15352.2
Changning	59.4	0	0	113.4	4850.9	2298.9
Chongming	3057.5	0	0	3242.6	18543	7699
Fengxian	2620.7	0	0	2747.9	11981.3	5646.3
Hongkou	28.5	0	0	51.9	2579.7	1176.4
Huangpu	35.3	0	0	64.5	2629	1247.5
Jiading	1183.5	0	0	1616.3	36659.2	15866.7
Jinshan	2343.8	0	0	2460.4	11107.4	5107.1
Jingan	47.7	0	0	89.7	4282	1960.2
Putuo	83.1	0	0	149.5	6590.2	3025.4
Pudong	4184.5	0	0	4770.5	66681.2	33267.8
Qingpu	1578.5	0	0	1802.9	17867	8333.1
Songjiang	1810.4	0	0	2130.5	28012.5	13287.7
Xuhui	88.1	0	0	168.1	7193	3408.9
Yangpu	77.3	0	0	117.8	6134.7	3091.3
Minhang	851.6	0	0	1317.2	42765.9	20401
Total	18421.6	0	0	21522.9	301801.2	141169.5