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Atmospheric Chemistry and Physics Discussions

Supplement of

The importance of vehicle emissions as a source of atmospheric ammonia in the megacity of Shanghai

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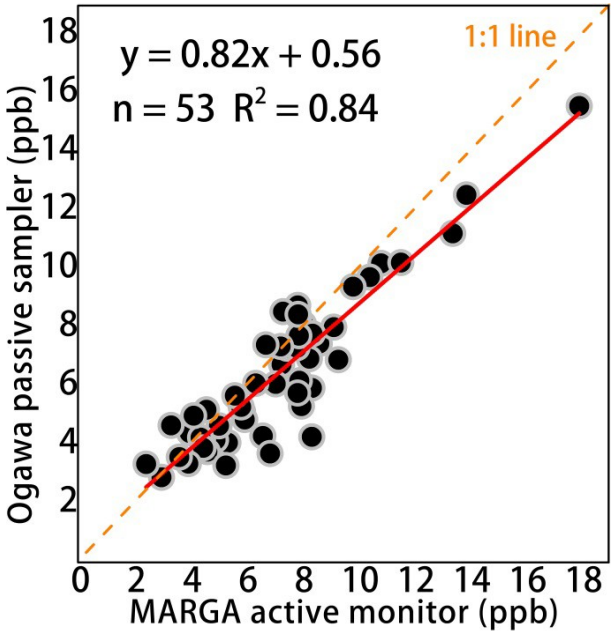

Figure S1. Comparison of results obtained with the Ogawa NH_3 PSDs and an active monitor (MARGA) at Pudong supersite from May 2014 to June 2015.

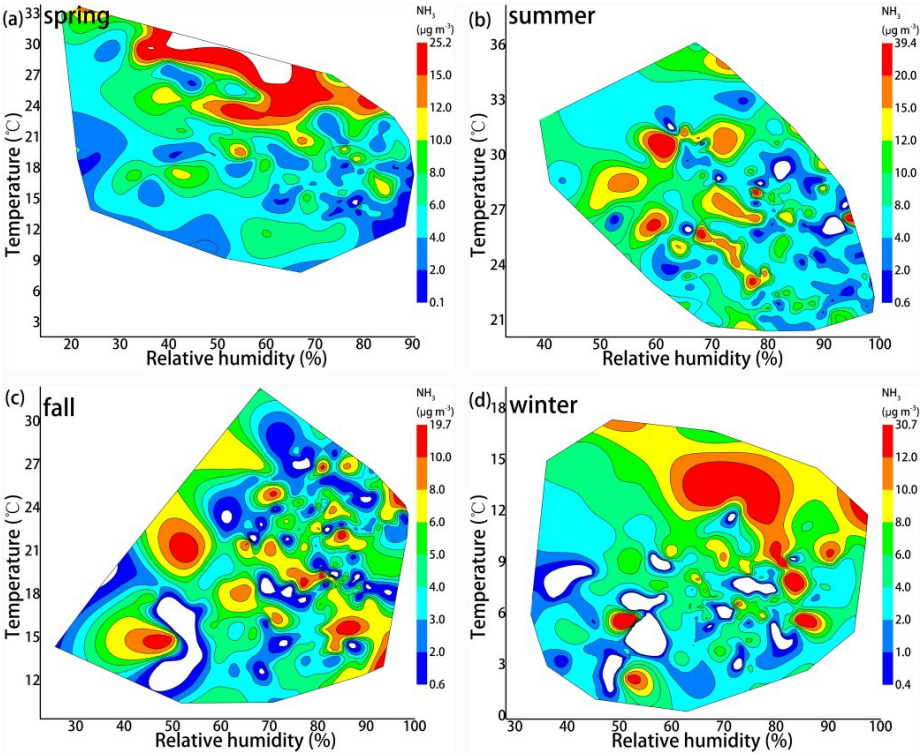

Figure S2. RH/*T* dependence of NH_3 concentration in spring (**a**), summer (**b**), fall (**c**), and winter (**d**) at Pudong supersite during April 2, 2014-April 3, 2015.

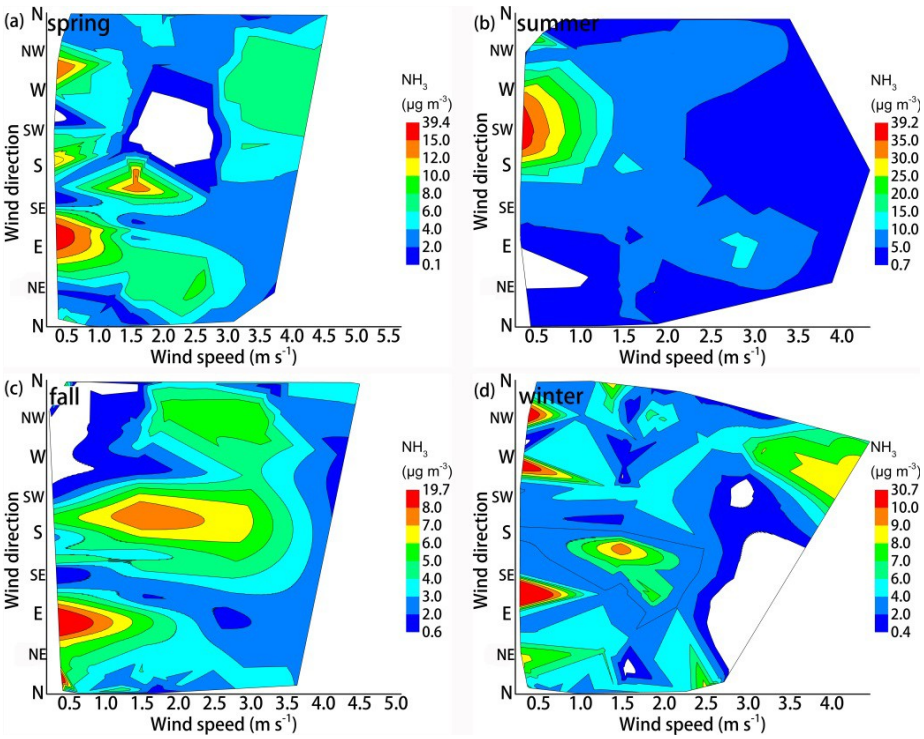

Figure S3. WS/WD dependence of NH_3 concentrations in spring (**a**), summer (**b**), fall (**c**), and winter (**d**) at Pudong supersite during April 2, 2014-April 3, 2015.

Table

Table S1. Descriptive statistics of the NH_3 concentration (μg m^{-3}) at different sampling sites in and out of the Handan Tunnel during the spring campaign in 2014. See Figure 7a and the method section for the information on the sampling points.

	Sampling point	N	Mean	SD	Minimum	Median	Maximum
Handan Tunnel	T-a	6	12.6	3.3	8.8	12.3	18.1
	T-b	6	29.2	6.6	20.1	28.6	38.7
	T-c	6	31.5	5.9	21.4	33.3	37.6
	T-d	19	64.9	11.5	47.0	65.4	82.9
Open environment	O_{0m}	19	11.7	4.2	7.5	10.7	25.0
	O_{20m}	19	6.5	2.8	2.8	5.8	13.2
	O_{150m}	19	5.9	2.5	2.1	5.1	10.7
	O_{310m}	19	5.6	2.5	1.9	4.9	10.1