

Supplement

Table S1. Site descriptions.

Site code	Land-use types ^a	Latitude	Longitude	Elevation (m)	Annual precipitation (mm)	Temperature (°C)	Wind Speed (m s ⁻¹)	Relative Humidity (%)
SS	UA	E103°39'45"	N30°37'48"	534	720.4	17.0	1.1	81.4
YS	UA	E103°41'56"	N30°37'24"	513	726.5	17.0	1.1	81.3
XB	UA	E103°39'57"	N30°36'02"	522	702.8	17.1	1.1	81.4
LY	IAA	E103°36'49"	N30°33'14"	507	682.5	17.7	1.4	81.2
SAUF	IAA	E103°40'15"	N30°32'36"	509	679.1	17.7	1.5	81.2
CC	IAA	E103°45'32"	N30°33'11"	479	690.9	17.6	1.5	81.1
LJ	RA	E103°39'02"	N30°46'51"	534	794.0	17.0	1.0	75.9
YT	RA	E103°37'43"	N30°44'12"	579	815.3	17.3	1.0	76
HY	RA	E103°31'53"	N30°44'44"	623	779.3	17.0	1.0	76.1

Note: ^aSS, Shangnan Street; YS, Yuantong Street; XB, Xihe Bridge; CC, Caichang; LY, Liaoyuan; QQ, Qiquan; YT, Yuantong; LJ, Liujie; HY, Huaiyuan. UA, urban area, ^bIAA, intensive agricultural area; RA, rural area.

Table S2. Correlation coefficients of P deposition with meteorological factors

	Precipitation (mm)	Wind Speed (m s ⁻¹)	Relative Humidity (%)	Temperature (°C)
AWD ^a	0.92**	0.12	0.16	0.57**
ADD ^b	-0.18	0.06	0.44**	-0.04
ATD ^c	0.36**	0.12	0.48**	0.29*

Note: “**” and “*” indicate $P < 0.01$ and $P < 0.05$, respectively.