



Supplement of

Sea salt aerosols as a reactive surface for inorganic and organic acidic gases in the arctic troposphere

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Table S1 Sampling dates, sampling times, and meteorological conditions for 23 samples

No.	Sampling date	Sampling time	T (°C)	RH (%)	Air pressure (hPa)	Wind direction	Wind speed (m/s)
1	Aug.4, 2012	9:06-9:36	4.7	82	1002.1	330	4.1
2	Aug.4, 2012	21:00-21:20	3.7	85	1001.9	309	5.3
3	Aug.5, 2012	14:53-15:14	5.6	75	1002.6	95	1.8
4	Aug.7, 2012	20:50-21:15	4.9	84	1009.0	296	4.1
5	Aug.8, 2012	8:23-8:48	4.9	81	1007.6	238	2.1
6	Aug.9, 2012	15:20-15:49	7.0	78	1003.5	120	7.3
7	Aug.10, 2012	0:15-0:40	7.3	80	998.6	135	8.9
8	Aug.11, 2012	9:10-9:35	6.2	94	997.0	303	3.3
9	Aug.12,2012	16:00-16:25	6.6	80	1006.8	129	5.9
10	Aug.13, 2012	9:25-9:50	5.1	82	1010.0	141	0.0
11	Aug.13, 2012	14:15-14:40	4.5	90	1011.4	351	2.1
12	Aug.14, 2012	15:12-15:42	4.6	88	1020.5	117	2.6
13	Aug.14, 2012	21:17-21:47	4.8	84	1020.7	276	5.4
14	Aug.15, 2012	18:45-19:31	6.0	70	1018.9	88	3.3
15	Aug.17, 2012	9:00-10:00	3.8	86	1017.1	116	0.3
16	Aug.17, 2012	14:50-15:20	3.7	85	1015.7	109	2.2
17	Aug.18, 2012	15:30-16:15	5.7	83	1020.3	23	1.5
18	Aug.19, 2012	15:30-16:10	6.0	72	1010.0	212	4.9
19	Aug.19, 2012	21:10-21:45	6.1	74	1004.1	297	2.2
19	Aug.20, 2012	9:00-9:40	3.6	77	1008.5	334	2.6
20	Aug.20, 2012	15:10-15:50	4.3	72	1004.7	315	7.5
21	Aug.21, 2012	15:05-15:40	1.6	87	1003.7	314	6.8
22	Aug.22, 2012	8:55-9:30	2.8	78	999.2	331	2.8
23	Aug.23, 2012	15:10-16:10	4.7	56	1001.3	105	4.6

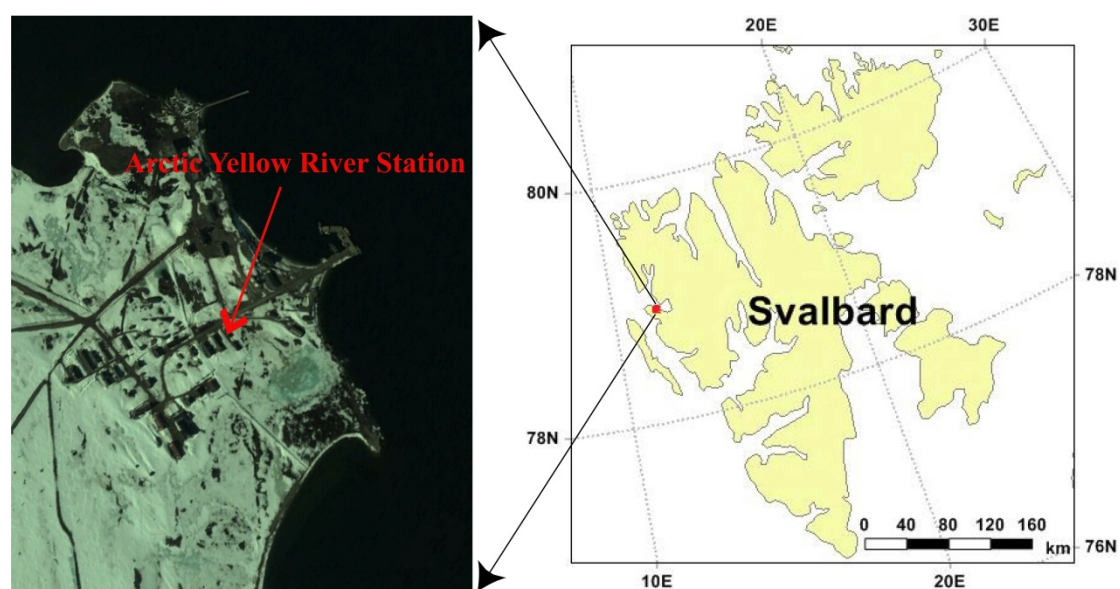


Figure S1. The location of sampling point-Chinese Arctic Yellow River Station,

Svalbard.

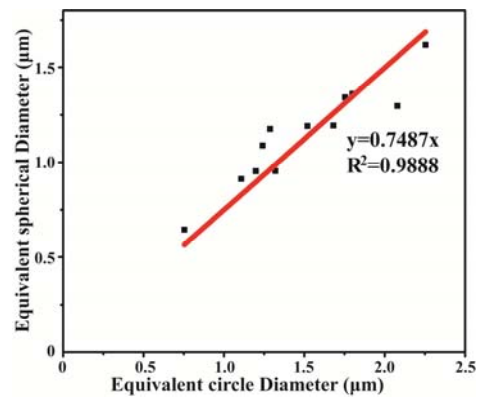


Figure S2. The correlation of equivalent circle diameter (d) and equivalent spherical diameter (D) obtained by AFM.