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*Supplement of*

**Sources, solubility, and acid processing of aerosol iron and phosphorous over the South China Sea: East Asian dust and pollution outflows vs. Southeast Asian biomass burning**

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Table S1. Basic sampling information of each sample, including starting and ending sampling time, starting sampling location (latitude and longitude), and sampling volume.

Starting Time (local time)	Ending Time (local time)	Sampling location (°N, °E)	Volume (m <sup>3</sup> )
2013/2/18 12:38	2013/2/19 08:37	22.992, 120.147	1332
2013/2/19 08:40	2013/2/20 08:20	21.285, 118.542	1578
2013/2/20 08:25	2013/2/21 08:27	20.323, 116.824	1602
2013/2/21 08:30	2013/2/22 08:12	20.587, 116.671	1628
2013/2/22 08:16	2013/2/23 08:40	20.556, 116.718	1676
2013/2/23 08:50	2013/2/24 08:02	20.558, 116.710	1594
2013/2/24 08:07	2013/2/25 08:10	20.558, 116.716	1652
2013/2/25 08:15	2013/2/26 08:02	20.468, 116.422	1634
2013/2/26 08:08	2013/2/27 08:40	20.083, 116.583	1636
2013/2/27 08:45	2013/2/28 08:08	20.414, 116.313	1559
2013/2/28 08:13	2013/3/1 08:05	19.522, 116.650	1591
2013/3/1 08:07	2013/3/2 08:13	19.748, 116.364	1607
2013/3/2 08:15	2013/3/3 08:03	20.139, 116.450	1611
2013/3/3 08:07	2013/3/4 08:10	20.495, 117.213	1652
2013/3/4 08:15	2013/3/5 08:02	20.589, 117.258	1634
2013/3/5 08:05	2013/3/6 08:20	21.053, 119.286	1666
2013/3/6 08:20	2013/3/7 08:15	21.313, 120.027	1643
2013/3/7 08:17	2013/3/8 08:00	21.829, 119.998	1630
2013/6/17 08:15	2013/6/18 07:59	22.971, 120.171	1653
2013/6/18 08:01	2013/6/19 08:15	19.818, 118.900	1750
2013/6/19 08:17	2013/6/20 08:03	16.307, 117.540	1778
2013/6/20 08:05	2013/6/21 08:03	14.434, 114.891	1731
2013/6/21 08:05	2013/6/22 08:16	12.137, 113.726	1643
2013/6/22 08:18	2013/6/22 20:01	10.600, 114.241	776
2013/6/22 20:04	2013/6/23 08:18	10.460, 114.368	810
2013/6/23 08:20	2013/6/23 20:03	10.377, 114.173	806
2013/6/23 20:05	2013/6/24 08:13	10.371, 114.291	814
2013/6/24 08:18	2013/6/24 20:00	10.387, 114.319	775
2013/6/24 20:02	2013/6/25 08:25	10.173, 114.437	841
2013/6/25 08:27	2013/6/25 20:10	10.410, 114.325	786
2013/6/25 20:12	2013/6/26 08:13	10.642, 114.707	827
2013/6/26 08:16	2013/6/27 08:18	11.918, 115.756	1550
2013/6/27 08:22	2013/6/28 08:18	15.084, 116.974	1605
2013/6/28 08:20	2013/6/29 08:23	17.586, 117.989	1613
2013/6/29 08:28	2013/6/30 08:55	20.391, 118.989	1661