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Supplement of

Nitrogen speciation in various types of aerosols in spring over the northwestern Pacific Ocean

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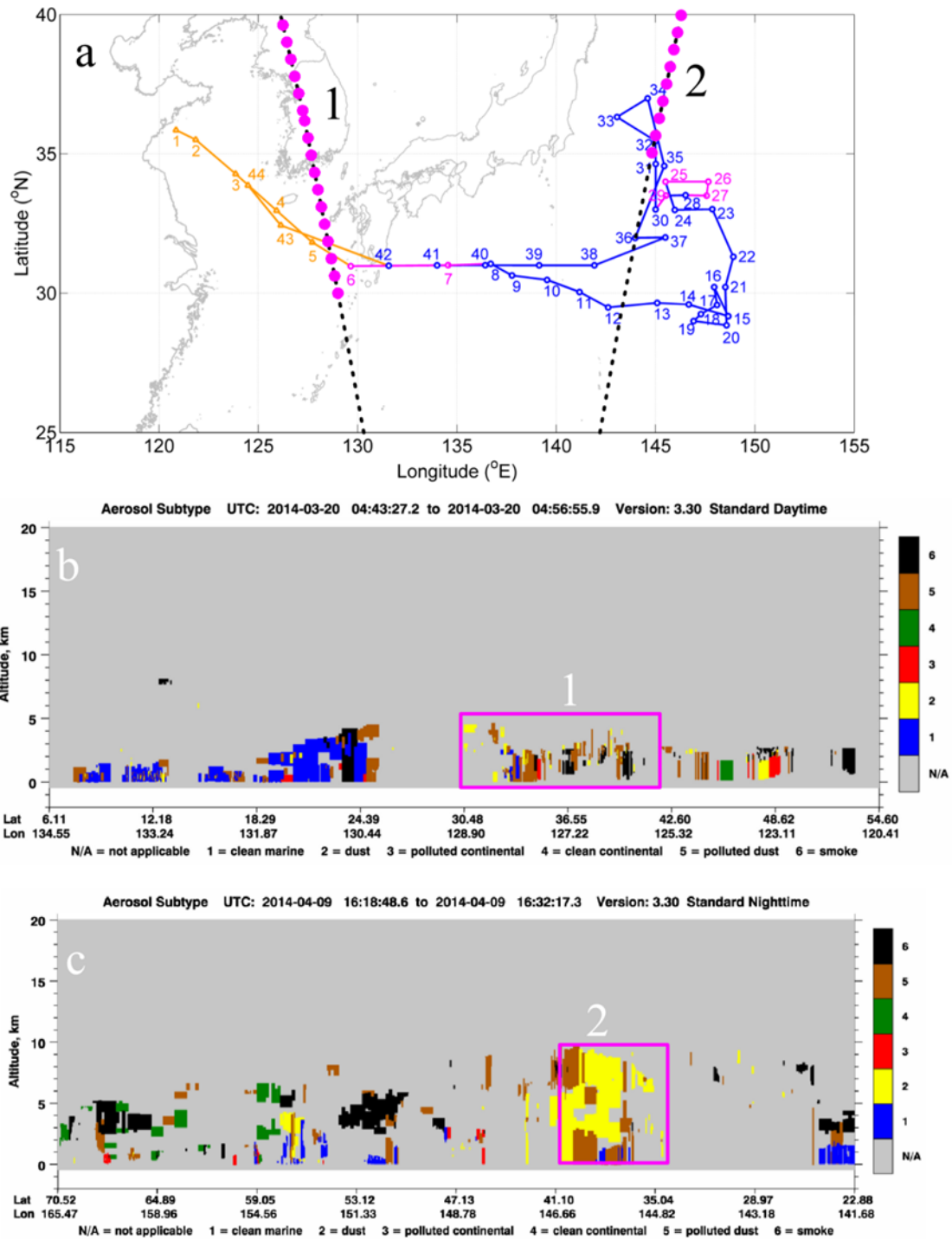
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1 Table S1. Sample information, including starting and end time of sampling and
 2 location (longitude and latitude).

NO.	Start			End		
	Data	Longitude	Latitude	Data	Longitude	Latitude
1	0317 13:20	120.86 E	35.85 N	0317 19:00	121.85 E	35.51 N
2	0317 19:00	121.85 E	35.51 N	0318 07:00	123.86 E	34.28 N
3	0318 07:00	123.86 E	34.28 N	0318 19:50	125.93 E	32.96 N
4	0318 19:50	125.93 E	32.96 N	0319 07:20	127.72 E	31.82 N
5	0319 07:20	127.72 E	31.82 N	0319 18:50	129.65 E	30.97 N
6	0319 19:00	129.65 E	30.97 N	0320 18:30	134.55 E	31.00 N
7	0320 18:40	134.55 E	31.00 N	0321 07:20	136.70 E	31.05 N
8	0321 07:20	136.70 E	31.05 N	0321 20:40	137.77 E	30.63 N
9	0321 20:40	137.77 E	30.63 N	0322 07:20	139.00 E	30.48 N
10	0322 11:00	139.54 E	30.48 N	0322 20:20	141.17 E	30.04 N
11	0322 20:20	141.17 E	30.04 N	0323 07:00	142.61 E	29.48 N
12	0323 07:00	142.61 E	29.48 N	0323 19:40	145.08 E	29.65 N
13	0323 19:40	145.08 E	29.65 N	0324 07:20	146.67 E	29.59 N
14	0324 07:20	146.67 E	29.59 N	0324 19:00	148.66 E	29.17 N
15	0325 19:30	148.66 E	29.17 N	0326 07:20	148.00 E	30.22 N
16	0326 09:10	148.00 E	30.22 N	0326 20:15	148.09 E	29.58 N
17	0326 20:20	148.09 E	29.58 N	0327 08:00	147.28 E	29.25 N
18	0327 08:00	147.28 E	29.25 N	0327 17:50	146.92 E	29.00 N
19	0327 19:30	146.92 E	29.00 N	0328 8:50	148.08 E	29.00 N
20	0401 9:20	148.57 E	28.85 N	0401 18:10	149.91 E	29.75 N
21	0405 11:50	148.51 E	30.22 N	0405 19:00	148.92 E	31.31 N
22	0405 19:00	148.92 E	31.31 N	0406 09:50	147.86 E	33.01 N
23	0406 09:50	147.86 E	33.01 N	0406 18:30	147.05 E	33.00 N
24	0407 09:20	145.97 E	32.99 N	0407 22:10	145.02 E	33.95 N
25	0408 17:50	145.50 E	34.00 N	0409 08:00	147.66 E	34.00 N

26	0409 08:00	147.66 E	34.00 N	0409 19:10	147.57 E	33.50 N
27	0409 19:10	147.57 E	33.50 N	0410 09:20	146.51 E	33.52 N
28	0410 09:20	146.51 E	33.52 N	0410 17:50	145.53 E	33.50 N
29	0410 19:30	145.53 E	33.50 N	0411 05:40	145.00 E	33.00 N
30	0411 05:40	145.00 E	33.00 N	0411 19:30	145.01 E	34.64 N
31	0411 19:30	145.01 E	34.64 N	0412 08:20	145.00 E	35.46 N
32	0412 08:20	145.00 E	35.46 N	0412 19:00	143.06 E	36.32 N
33	0412 19:00	143.06 E	36.32 N	0413 09:10	144.60 E	36.99 N
34	0413 09:10	144.60 E	36.99 N	0413 21:00	144.01 E	36.00 N
35	0414 09:10	145.44 E	34.57 N	0414 17:20	144.00 E	34.00 N
36	0415 11:20	143.97 E	31.98 N	0415 22:20	145.49 E	32.00 N
37	0416 08:30	145.49 E	32.00 N	0417 18:10	141.92 E	31.00 N
38	0417 18:10	141.92 E	31.00 N	0418 09:10	139.14 E	31.00 N
39	0418 09:10	139.14 E	31.00 N	0418 23:50	136.43 E	31.00 N
40	0418 23:50	136.43 E	31.00 N	0419 12:00	134.00 E	31.00 N
41	0419 12:00	134.00 E	31.00 N	0409 23:50	131.57 E	30.98 N
42	0419 23:50	131.57 E	30.98 N	0420 15:50	128.65 E	31.23 N
43	0421 08:00	126.13 E	32.44 N	0421 18:00	124.49 E	33.87 N
44	0421 18:10	124.49 E	33.87 N	0422 09:20	122.08 E	35.38 N



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3 Figure S1. Lidar browse images from the NASA cover the NWPO on March 20 and

4 April 9, 2014. Black dashed lines in (a) represent satellite scanning tracks #1 and #2.

5 Enlarged pink dots are for the target areas shown in (b) and (c) along the tracks #1 and

6 #2, respectively. The pink box in image (b) revealed signals of polluted dust, smoke

7 and dust; while in (c) dust and polluted dust were observed. Both dusty zones locate

8 near the dust aerosol (small open pink dots) we collected along the cruise track.