

## Supplementary Material

### **DMS sea-to-air fluxes and their influence on sulfate aerosols over the Southern Ocean, southeast Indian Ocean, and northwest Pacific Ocean**

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Table S1. The locations of aerosol samples

Sample No.	Start time (UTC)		Start location		End time (UTC)		End location	
			Longitude (°)	Latitude			Longitude	Latitude
NJ-30-30	2014/2/6	21:2	66.47°W	55.10°S	2014/2/1	13:4	-33.09°E	63.64°S
NJ-30-31	2014/2/15	13:4	33.09°W	63.64°S	2014/2/1	13:1	-5.37°E	67.00°S
NJ-30-32	2014/2/17	13:1	5.37°W	67.00°S	2014/2/1	15:2	26.21°E	67.62°S
NJ-30-33	2014/2/19	15:2	26.21°E	67.62°S	2014/2/2	15:0	48.40°E	66.45°S
NJ-30-34	2014/2/22	15:0	48.40°E	66.45°S	2014/2/2	15:2	67.82°E	65.61°S
NJ-30-35	2014/2/24	15:2	67.82°E	65.61°S	2014/2/2	14:4	76.43°E	69.28°S
NJ-30-36	2014/2/26	14:4	76.43°E	69.28°S	2014/3/1	22:0	72.96°E	66.48°S
NJ-30-37	2014/3/1	22:0	72.96°E	66.48°S	2014/3/3	9:30	74.28°E	65.56°S
NJ-30-38	2014/3/3	9:30	74.28°E	65.56°S	2014/3/6	11:1	78.04°E	58.16°S
NJ-30-39	2014/3/6	11:1	78.04°E	58.16°S	2014/3/9	10:1	81.36°E	42.04°S
NJ-30-40	2014/3/9	10:1	81.36°E	42.04°S	2014/3/1	10:0	89.73°E	35.24°S
NJ-30-41	2014/3/11	10:0	89.73°E	35.24°S	2014/3/1	9:04	97.68°E	32.48°S
NJ-30-42	2014/3/14	9:04	97.68°E	32.48°S	2014/3/1	9:15	115.66°	32.04°S
NJ-30-43	2014/3/22	10:1	109.45°E	34.19°S	2014/3/2	10:1	95.34°E	41.28°S
NJ-30-44	2014/3/25	10:1	95.34°E	41.28°S	2014/3/2	11:2	95.90°E	39.56°S
NJ-30-45	2014/3/28	11:2	95.90°E	39.56°S	2014/3/3	10:0	99.44°E	24.69°S
NJ-30-46	2014/3/31	10:0	99.44°E	24.69°S	2014/4/3	9:40	112.98°	11.68°S
NJ-30-47	2014/4/3	9:40	112.98°E	11.68°S	2014/4/6	10:2	119.72°	4.10°N
NJ-30-48	2014/4/6	10:2	119.72°E	4.10°N	2014/4/9	9:56	120.66°	19.75°
NJ-30-49	2014/4/9	9:56	120.66°E	19.75°	2014/4/1	7:46	122.72°	31.25°