

Supporting Information for

**Latitudinal gradient of brown carbon aerosols from the western North
Pacific to the Arctic**

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Table S1. Sampling information of aerosols collected during MR1805C research vessel.

ID	Start time (UTC)	End time (UTC)	Total volume (m ³)	Center latitude (°N)	Center longitude (°E)	Region
HV-001	2018/10/25 7:56	2018/10/26 23:52	1104.6	40.86	146.59	Western North Pacific
HV-002	2018/10/27 2:08	2018/10/28 23:55	1759.7	44.33	156.93	Western North Pacific
HV-003	2018/10/29 0:32	2018/10/30 23:35	1097.3	50.16	166.48	Western North Pacific
HV-004	2018/10/31 0:42	2018/11/01 23:46	920.6	56.88	177.15	Bering Sea
HV-005	2018/11/02 0:56	2018/11/03 23:46	2020.4	63.19	-172.69	Bering Sea
HV-006	2018/11/04 0:54	2018/11/05 23:58	641.5	69.46	-168.72	Arctic Ocean
HV-007	2018/11/06 0:40	2018/11/07 23:43	1393.8	72.79	-164.33	Arctic Ocean
HV-008	2018/11/08 1:40	2018/11/09 23:02	1710.2	72.77	-159.96	Arctic Ocean
HV-009	2018/11/09 23:30	2018/11/11 23:21	1689.4	73.10	-161.65	Arctic Ocean
HV-010	2018/11/12 0:40	2018/11/13 23:15	1676.9	72.86	-162.56	Arctic Ocean
HV-011	2018/11/14 0:01	2018/11/15 23:20	1370.6	72.95	-162.24	Arctic Ocean
HV-012	2018/11/16 0:14	2018/11/17 23:37	1535.7	72.96	-162.16	Arctic Ocean
HV-013	2018/11/18 2:01	2018/11/19 23:16	1143.2	72.87	-162.49	Arctic Ocean
HV-014	2018/11/20 1:28	2018/11/21 23:22	1153.2	72.20	-163.31	Arctic Ocean
HV-015	2018/11/22 0:17	2018/11/24 23:34	1048.6	68.72	-166.28	Arctic Ocean
HV-016	2018/11/25 0:26	2018/11/27 23:10	780.1	61.80	-175.29	Bering Sea
HV-017	2018/11/27 23:40	2018/11/29 23:25	1823.3	55.01	173.79	Western North Pacific
HV-018	2018/11/29 23:57	2018/12/01 23:29	2048.9	49.83	165.67	Western North Pacific
HV-019	2018/12/02 0:06	2018/12/03 23:42	1880.0	44.09	156.28	Western North Pacific
HV-020	2018/12/04 0:13	2018/12/04 23:33	918.9	39.43	148.46	Western North Pacific