

Accessory publication

Iodine speciation in marine aerosols along a 15 000-km round-trip cruise path from Shanghai, China, to the Arctic Ocean

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Table A1. Information on sample collection and details of TI and I speciation (pmol m⁻³)

No	Universal time		Latitude and longitude		Sample period (h)	Sample volume (m ³)	TI	ISI	TSI	SOI	IO ³⁻	I ⁻
	Start	over	Start	over								
1	7.13, 0205 hours	7.14, 0205 hours	33.52°N, 128.19°E	38.34°N, 133.32°E	19 h, 12 min	1077	27	6	21	10	2	9
2	7.14, 0208 hours	7.15, 0200 hours	38.35°N, 133.33°E	43.38°N, 138.35°E	23 h, 35 min	1357	68	23	45	7	25	13
3	7.15, 0220 hours	7.16, 0100 hours	43.43°N, 138.40°E	46.34°N, 145.17°E	22 h, 27 min	1303	44	4	40	9	20	12
4	7.16, 0115 hours	7.17, 0000 hours	46.36°N, 145.22°E	49.28°N, 152.49°E	22 h, 38 min	1344	32	7	25	5	13	7
5	7.17, 0015 hours	7.18, 0015 hours	49.30°N, 152.54°E	51.17°N, 161.46°E	20 h, 02 min	1148	22	3	19	3	13	4
6	7.18, 0020 hours	7.18, 2240 hours	51.18°N, 161.48°E	53.17°N, 169.59°E	20 h, 43 min	1241	20	6	14	5	3	7
7	7.18, 2250 hours	7.19, 2250 hours	53.17°N, 169.59°E	55.07°N, 172.08°E	2 h, 16 min	69	42	16	26	4	19	3
8	7.19, 2300 hours	7.21, 2200 hours	55.09°N, 172.09°E	57.50°N, 176.42°E	18 h, 20 min	688	25	11	15	3	10	2
10	7.21, 2220 hours	7.23, 2200 hours	57.50°N, 176.43°E	60.49°N, 177.56°E	23 h, 23 min	1360	29	12	17	4	8	5

No	Universal time		Latitude and longitude		Sample period (h)	Sample volume (m ³)	TI	ISI	TSI	SOI	IO ³⁻	I ⁻
	Start	over	Start	over								
11	7.23, 2210 hours	7.25, 2200 hours	60.51°N, 177.53°W	62.12°N, 169.00°W	29 h, 26 min	1728	61	11	50	10	21	18
12	7.25, 2210 hours	7.27, 2030 hours	62.12°N, 168.59°W	64.15°N, 171.41°W	28 h, 56 min	1679	45	4	41	15	15	11
13	7.27, 2050 hours	7.29, 2050 hours	64.18°N, 171.34°W	64.25°N, 165.30°W	26 h, 37 min	1516	28	7	21	1	16	3
14	7.31, 2020 hours	8.2, 2045 hours	64.27°N, 165.28°W	69.54°N, 168.45°W	24 h, 20 min	1393	34	13	20	3	13	4
15	8.2, 2100 hours	8.4, 2100 hours	69.56°N, 168.51°W	71.33°N, 163.58°W	31 h, 14 min	1888	81	12	69	21	39	9
16	8.4, 2120 hours	8.6, 2100 hours	71.32°N, 163.59°W	75.03°N, 167.46°W	9 h, 23 min	372	44	7	38	1	34	3
17	8.6, 2120 hours	8.9, 2120 hours	75.03°N, 167.30°W	71.56°N, 154.43°W	27 h, 11 min	876	443	92	351	0	344	34
19	8.13, 2130 hours	8.15, 2100 hours	76.59°N, 155.54°W	78.18°N, 146.10°W	10 h, 11 min	534	139	17	122	0	107	15
21	8.15, 2140 hours	8.18, 2100 hours	78.23°N, 146.08°W	83.16°N, 146.19°W	24 h, 48 min	1493	119	18	101	3	88	11
25	8.27, 2140 hours	8.28, 2110 hours	85.08°N, 147.04°W	85.12°N, 147.12°W	23 h, 22 min	1480	106	34	72	0	25	48
27	9.1, 2130 hours	9.5, 2100 hours	80.01°N, 158.04°W	75.41°N, 172.01°W	6 h, 33 min	406	227	29	197	0	186	20
28	9.5, 2120 hours	9.8, 2120 hours	75.41°N, 172.01°W	66.51°N, 169.03°W	35 h, 24 min	1341	114	14	101	4	76	21
30	9.9, 2200 hours	9.12, 2140 hours	64.26°N, 165.45°W	59.45°N, 170.26°E	42 h, 50 min	2414	54	16	37	9	12	16
31	9.12, 2150 hours	9.14, 2250 hours	59.45°N, 170.21°E	49.45°N, 157.04°E	44 h, 04 min	2349	27	8	19	3	11	5
33	9.15, 2300 hours	9.17, 2330 hours	44.44°N, 151.37°E	41.46°N, 142.33°E	20 h, 26 min	1172	88	17	71	4	47	20
34	9.17, 2340 hours	9.18, 2315 hours	41.46°N, 142.30°E	38.51°N, 136.15°E	18 h, 19 min	1020	80	3	76	28	18	31
35	9.18, 2330 hours	9.20, 0130 hours	38.49°N, 136.11°E	34.24°N, 129.54°E	0 h, 38 min	26	319	76	243	0	231	15
37	9.20, 0215 hours	9.21, 0215 hours	34.16°N, 129.43°E	31.24°N, 123.32°E	19 h, 04 min	699	53	6	47	12	22	13
38	9.21, 0230 hours	9.21, 0730 hours	31.22°N, 123.28°E	31.08°N, 122.37°E	3 h, 35 min	198	100	20	80	34	13	33