

Supplementary Table S1: location data, environmental parameters measured, and filtered seawater volume for coccolithophores at the investigated stations.

station	latitude	longitude	bottom depth (m)	sampling depth (m)	temperature (°C)	salinity	chl- α ($\mu\text{g l}^{-1}$)	filtered seawater volume (L) for coccolithophores
1	43°50.00'N	28°40.00'E	33	1	16.17	17.00	11.32	0.20
2	44°00.00'N	29°01.10'E	48	1	24.28	16.25	3.45	0.20
2				15	12.46	21.41	32.08	0.20
3	44°13.50'N	28°46.50'E	26	4	19.38	15.50	12.43	0.20
3				8	15.87	17.56	8.99	0.20
4	44°32.60'N	28°59.80'E	22	1	18.32	16.48	19.36	0.20
5	44°31.20'N	29°37.90'E	50	1	23.78	13.55	8.82	0.20
5				15	15.26	16.44	42.60	0.20
6	44°50.30'N	30°15.50'E	50	1	22.50	12.97	23.57	0.20
6				7	20.58	14.50	77.47	0.20
6				35	7.29	18.14	0.83	0.20
7	45°01.30'N	30°12.00'E	42	1	22.89	12.73	11.61	0.20
7				9	20.42	13.50	80.47	0.20
7				30	7.21	18.09	0.91	0.20
8	43°34.20'N	29°09.40'E	68	1	22.70	13.13	21.48	0.55
8				5	22.53	13.09	30.57	0.54
8				15	13.99	16.65	8.21	1.00
8				25	7.36	18.14	0.99	1.00
9	43°50.60'N	29°38.20'E	75	1	20.54	17.16	5.72	0.20
10	43°59.90'N	29°40.50'E	67	1	23.72	13.69	6.46	0.20
10				15	22.24	13.60	13.93	0.20
11	44°09.60'N	29°39.70'E	65	3	21.56	14.19	13.35	0.20
12	44°27.10'N	30°29.40'E	85	4	21.85	14.69	15.80	0.20
12				16	16.71	17.96	8.77	0.20
12				45	9.26	18.33	2.45	0.20
13	44°29.50'N	30°49.50'E	101	1	23.88	15.61	1.17	0.20
13				20	22.36	15.82	3.08	0.20
14	42°17.00'N	28°50.00'E	1353	1	21.11	18.26	2.76	1.00
14				5	21.11	18.26	2.54	1.37
14				15	13.62	18.37	3.55	1.88
14				25	12.00	18.42	2.65	2.00
14				35	11.00	18.44	2.60	2.00
15	42°35.00'N	30°50.00'E	2165	1	20.21	18.32	1.68	0.78
15				10	17.19	18.31	2.48	1.00
15				25	10.79	18.44	2.61	1.50
15				45	8.50	18.70	5.76	2.00
16	42°35.40'N	31°34.50'E	2150	1	21.12	18.27	1.91	0.76
16				10	18.49	18.22	2.17	1.00
16				25	11.58	18.42	2.98	0.78
16				45	8.75	18.56	3.13	2.00

17	42°54.00'N	33°00.00'E	2204	1	20.25	18.44	1.43	1.00
17				10	18.88	18.44	2.15	2.00
17				25	12.10	18.38	3.31	2.00
18	43°00.30'N	33°49.50'E	2205	1	22.31	18.89	1.21	1.00
18				10	19.98	18.33	1.36	1.45
18				20	13.01	18.48	2.26	0.61
18				35	10.23	18.53	2.90	2.00
18				50	8.34	18.76	6.31	2.00
