

Table S1. Characteristics of the surface layer of bottom sediments in the Norwegian and Barents Seas in different years of research.

Areas	Stations	n	AHCs, $\mu\text{g/g}$		C _{org} , %		Moisture, %	
			interval	average	interval	average	interval	average
August – September, 2016								
All areas	5405–5456	42	3–44	14	0.07–2.59	1.085	20.1–69.7	45.6
Shtockman poligon	5413–5421	7	9–27	15	0.67–2.578	1.812	23.7–69.7	53.0
Medvezhinsky Trough	5431–5441	10	6–44	17	0.25–1.71	0.791	27.0–58.5	40.6
Russian Harbor	5422–5430	7	4–22	11	0.242–1.860	0.960	27.9–60.0	40.1
Svalbard - ZFI	5447–5446	8	8–24	16	0.699–1.475	1.214	33.2–68.5	55.5
July – August, 2017								
All areas	5516–5581	48	3–57	12	0.03–2.38	1.02	17.0–72.1	49.5
Western part	5516–5532	16	15–37	10	0.30–1.70	0.65	30.4–60.7	49.6
Svalbard – ZFI	5550–5564	14	4–37	13	0.72–2.38	1.52	37.6–72.0	54.3
Novaya Zemlya	5565–5569	5	6–57	19	0.80–1.66	1.19	40.5–63.4	49.8
Central part	5570–5581	13	4–17	10.8	0.032–1.94	0.93	17.0–63.4	49.1
May – June, 2019								
All areas	6131–6217	49	6–64	25	0.05–1.87	0.83	17.1–72.6	56.0
Mohns Ridge	6131–6146	7	7–51	18	0.23–0.77	0.51	35.0–72.6	49.8
Lofoten Basin	6139–6142	4	6–28	17	0.49–0.69	0.58	65.2–72.6	68.5
KnipovichRidge	6150–6157	7	14–37	27	0.52–1.32	0.96	60.1–71.2	66.1
Western shelf Svalbard	6152–6163	6	15–35	27	0.58–1.66	0.88	35.3–71.2	54.1
Quaytol Trough	6164–6172	5	7–59	23	0.47–0.80	0.63	34.1–61.0	47.2
Meridional section (27.5°N)	6181–6196	6	28–53	40	1.31–1.87	1.70	50.0–76.2	64.3
South section	6197–6217	14	10–64	23	0.05–1.51	0.52	17.1–68.2	64.3
July – August, 2020								
All areas	6821–6867	21	3–186	45	0.30–1.56	0.92	22.2–72.9	58.6
Mohns Ridge	6821–6838	7	3–27	14	0.30–0.51	0.44	38.5–61.5	49.9
Sturford	6840–6843	4	36–186	90	0.69–1.36	1.12	22.2–66.2	46.3
Eastern shelf Svalbard	6844–6851	5	17–86	52	1.07–1.56	1.29	59.5–72.9	69.6

6847	1-2	39	1.295	1011	19.3	1.61	0.77	0.22	10.94	0.08	0.36	0.62	0.14
	5-6	43	1.127	992	19.3	1.04	0.65	0.20	8.70	0.10	0.20	0.51	0.14
	24-27	71	1.130	1434	15.1	0.85	0.58	0.25	8.29	0.11	0.26	0.46	0.15
6850	0-1	40	1.070	2436	11.9	2.18	0.32	1.17	48.10	0.02	0.33	0.69	0.21
	1-2	22	0.892	2978	9.1	2.01	0.28	1.57	39.36	0.02	0.52	0.67	0.26
	2-3	28	1.022	1424	12.5	2.28	0.30	0.79	45.37	0.02	0.35	0.69	0.17
	3-6	49	1.009	1112	15.6	2.46	0.39	0.68	13.11	0.07	0.33	0.71	0.14
	6-9	34	1.142	833	21.7	2.65	0.58	0.49	11.44	0.08	0.32	0.73	0.09
	9-12	30	1.092	973	17.8	2.22	0.44	0.58	13.70	0.07	0.30	0.69	0.10
	12-15	33	2.107	2184	10.6	2.18	0.31	1.28	13.82	0.07	0.26	0.69	0.13
	15-18	21	0.980	588	21.1	1.77	0.58	0.44	9.31	0.10	0.31	0.64	0.11
	18-21	36	1.017	830	13.9	2.19	0.38	0.80	9.71	0.09	0.26	0.69	0.12
	21-24	26	1.027	807	16.7	2.22	0.40	0.48	11.25	0.08	0.28	0.69	0.13
	21-27	56	1.045	1365	11.8	2.26	0.27	0.58	8.15	0.11	0.28	0.69	0.14
6864	0-1	17	0.675	859	22.8	2.47	0.56	0.42	23.78	0.04	0.04	0.71	0.15
	1-2	25	0.620	983	29.6	2.69	0.69	0.24	28.03	0.03	0.05	0.73	0.13
	2-3	23	0.615	845	33.6	3.02	0.81	0.16	17.80	0.05	0.09	0.75	0.11
	3-4	21	0.580	736	36.3	2.63	0.92	0.16	25.31	0.04	0.11	0.72	0.12
	4-7	19	0.600	776	31.4	2.43	0.72	0.17	22.98	0.04	0.08	0.71	0.14
	7-10	26	0.577	749	32.1	2.81	0.72	0.16	18.30	0.05	0.10	0.74	0.17
	10-13	21	0.552	758	30.2	2.50	0.67	0.22	21.40	0.04	0.04	0.71	0.14
	13-16	20	0.485	865	25.9	2.65	0.51	0.18	14.82	0.06	0.03	0.73	0.09
	16-19	37	0.457	706	35.9	2.10	0.84	0.12	20.24	0.05	0.12	0.68	0.10
	19-21	19	0.450	677	45.1	1.40	1.46	0.10	18.03	0.05	0.17	0.58	0.13
	21-24	29	0.492	913	36.7	2.32	0.96	0.13	13.85	0.07	0.16	0.70	0.15
	24-26	21	0.465	1322	34.8	2.43	0.92	0.34	11.41	0.08	0.19	0.71	0.16