

Supplementary Table 1. Data related to sea ice sampling, processing and bioinformatic processing including date of sampling, core information depth from the top (cm.), volume of the sample (ml), 18S copies (ml⁻¹), input sequences, filtered sequences, denoised forward and reverse sequences, merged sequences, amount of sequences after length filtration, and after removal of chimeric sequences.

Date	Core	Depth	Volume	Copies/mL	Input	Filtered	Denoised F	Denoised R	Merged	Length	Nonchim
15/03/2022	1	5	237	5.78·10 ³	118417	105688	51051	51220	48309	48185	45170
15/03/2022	1	10	207	1.77·10 ⁴	122952	110047	51027	51259	48427	48104	45098
15/03/2022	1	15	238	2.73·10 ³	86724	77048	50975	51308	48500	48236	45787
15/03/2022	1	20	276	9.95·10 ³	114583	102573	50970	51261	48522	48392	45457
15/03/2022	1	25	242	6.86·10 ⁴	111935	99374	50922	51074	47848	47332	44445
15/03/2022	1	30	193	2.12·10 ⁴	97179	86498	50846	51038	48060	47023	45007
20/03/2022	2	5	182	1.96·10 ³	57652	51586	51266	51305	49908	49191	49172
20/03/2022	2	10	211	1.56·10 ⁴	100509	90331	51051	51028	47770	46698	43527
20/03/2022	2	15	242	1.24·10 ⁴	120689	106585	51188	51407	48923	48193	46258
20/03/2022	2	20	227	5.40·10 ⁴	96316	86002	50933	51239	48024	47786	45596
20/03/2022	2	25	222	8.06·10 ³	86957	78019	51267	51370	49301	48988	48352
20/03/2022	2	30	262	1.80·10 ⁴	101272	89995	50894	51133	47634	46661	44896
30/03/2023	3	5	190	7.15·10 ⁴	107986	94412	50887	51093	47519	47089	44114
30/03/2023	3	10	223	2.46·10 ⁴	112782	100389	50944	51274	48341	47836	46422
30/03/2023	3	15	218	7.81·10 ⁴	79557	70561	50960	51107	47357	46908	44085
30/03/2023	3	20	213	1.25·10 ⁵	109230	97671	51018	51121	47513	47200	45182
30/03/2023	3	25	227	1.84·10 ⁴	121528	108539	50909	51233	47444	47067	45021
30/03/2023	3	30	193	4.87·10 ⁴	119134	106077	50725	50985	47110	46163	45288
04/04/2022	4	5	220	1.18·10 ⁴	80696	70295	51244	51373	49448	49372	48138
04/04/2022	4	10	221	8.73·10 ³	117144	104318	51046	51207	48829	48561	46219
04/04/2022	4	15	190	3.89·10 ³	94259	83794	51147	51414	48960	48657	47614
04/04/2022	4	20	213	1.40·10 ⁵	109101	97782	50995	50861	47649	47242	42370
04/04/2022	4	25	221	1.10·10 ⁵	87672	69046	51004	51260	48408	47828	44452
04/04/2022	4	30	157	7.28·10 ⁴	114297	101613	50876	51021	47262	45683	43386