

Supplementary Materials

Genome Size in the *Arenaria ciliata* Species Complex (Caryophyllaceae), with Special Focus on Northern Europe and the Arctic

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Table S1. Characterization of all collected taxa and samples from the *Arenaria ciliata* species complex. with the corresponding genome sizes (2c values in pg of DNA and the nuclei number per analyzed sample).

Taxon	Coll_date	Lat	Lon	Region	Country	Elev	2c	Nuclei
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50517	-23.95197	Traill Island	Greenland	100	1.61	203
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50517	-23.95248	Traill Island	Greenland	100	1.58	178
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50514	-23.9525	Traill Island	Greenland	100	1.58	289
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50523	-23.9524	Traill Island	Greenland	100	1.61	186
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50525	-23.95214	Traill Island	Greenland	100	1.63	368
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50111	-24.00326	Traill Island	Greenland	10	1.58	188
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50117	-24.00292	Traill Island	Greenland	10	1.63	121
<i>Arenaria pseudofrigida</i>	20.07.2023	72.5004	-24.00373	Traill Island	Greenland	10	1.63	307
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50101	-24.00321	Traill Island	Greenland	10	1.66	162
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50111	-24.00335	Traill Island	Greenland	10	1.58	116
<i>Arenaria pseudofrigida</i>	20.07.2023	72.50113	-24.00331	Traill Island	Greenland	10	1.54	352
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.84	198
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.77	757
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.78	312
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.67	148
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.69	128
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.69	235
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.61	410
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.63	388
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.69	170
<i>Arenaria pseudofrigida</i>	25.07.2023	75.143	-19.734184	Hochstetter	Greenland	30	1.71	989
<i>Arenaria norvegica</i>	24.06.2023	64.690833	-21.453611	Borgarnes	Iceland	60	2.89	728
<i>Arenaria norvegica</i>	24.06.2023	64.690833	-21.453611	Borgarnes	Iceland	60	2.81	269
<i>Arenaria norvegica</i>	24.06.2023	64.690833	-21.453611	Borgarnes	Iceland	60	2.80	203

<i>Arenaria norvegica</i>	24.06.2023	64.690833	-21.453611	Borgarnes	Iceland	60	2.77	192
<i>Arenaria norvegica</i>	24.06.2023	65.5775	-22.167778	Reykholahreppur	Iceland	50	2.68	141
<i>Arenaria norvegica</i>	24.06.2023	65.5775	-22.167778	Reykholahreppur	Iceland	50	2.81	417
<i>Arenaria norvegica</i>	24.06.2023	65.5775	-22.167778	Reykholahreppur	Iceland	50	2.80	228
<i>Arenaria norvegica</i>	24.06.2023	65.5775	-22.167778	Reykholahreppur	Iceland	50	2.73	119
<i>Arenaria norvegica</i>	24.06.2023	65.5775	-22.167778	Reykholahreppur	Iceland	50	2.78	215
<i>Arenaria norvegica</i>	25.06.2023	65.559722	-24.003056	Latrabjarg	Iceland	30	2.76	310
<i>Arenaria norvegica</i>	25.06.2023	65.559722	-24.003056	Latrabjarg	Iceland	30	2.86	153
<i>Arenaria norvegica</i>	25.06.2023	65.559722	-24.003056	Latrabjarg	Iceland	30	2,78	179
<i>Arenaria norvegica</i>	25.06.2023	65.559722	-24.003056	Latrabjarg	Iceland	30	2,78	325
<i>Arenaria norvegica</i>	25.06.2023	65.559722	-24.003056	Latrabjarg	Iceland	30	2,81	178
<i>Arenaria norvegica</i>	25.06.2023	65.559722	-24.003056	Latrabjarg	Iceland	30	2,80	117
<i>Arenaria norvegica</i>	25.06.2023	65.5275	-24.4375	Latrabjarg	Iceland	90	2,83	196
<i>Arenaria norvegica</i>	25.06.2023	65.5275	-24.4375	Latrabjarg	Iceland	90	2,79	172
<i>Arenaria norvegica</i>	25.06.2023	65.5275	-24.4375	Latrabjarg	Iceland	90	2,79	169
<i>Arenaria norvegica</i>	25.06.2023	65.5275	-24.4375	Latrabjarg	Iceland	90	2,75	198
<i>Arenaria norvegica</i>	25.06.2023	65.5275	-24.4375	Latrabjarg	Iceland	90	2,83	248
<i>Arenaria norvegica</i>	21.06.2010	58.124883	-4.9229	Scotland	UK	300	2,87	181
<i>Arenaria gothica</i>	06.07.2017	58.004167	18.563056	Gotland	Sweden	68	4,41	162
<i>Arenaria gothica</i>	07.07.2017	57.854167	18.865833	Gotland	Sweden	9	4,33	239
<i>Arenaria gothica</i>	06.07.2017	58.004167	18.563056	Gotland	Sweden	68	3,94	212
<i>Arenaria gothica</i>	07.07.2017	57.854167	18.865833	Gotland	Sweden	9	3.9	291
<i>Arenaria multicaulis</i>	18.08.2023	46.403889	7.613611	Daubensee, VS	Switzerland	2220	1.57	160
<i>Arenaria multicaulis</i>	18.08.2023	46.404444	7.615833	Daubensee, VS	Switzerland	2220	1.45	139
<i>Arenaria multicaulis</i>	18.08.2023	46.406111	7.619722	Daubensee, VS	Switzerland	2230	1.58	273
<i>Arenaria multicaulis</i>	18.08.2023	46.419444	7.625556	Daubensee, VS	Switzerland	2260	1.43	146
<i>Arenaria multicaulis</i>	18.08.2023	46.398056	7.576389	Daubensee, VS	Switzerland	2330	1.49	281
<i>Arenaria c. subsp. bernensis</i>	06.09.2023	46.5143	7.13803	Pointe de Paray, VD	Switzerland	2319	6.86	570
<i>Arenaria c. subsp. bernensis</i>	06.09.2023	46.51414	7.13755	Pointe de Paray, VD	Switzerland	2343	7.02	264
<i>Arenaria c. subsp. bernensis</i>	06.09.2023	46.51363	7.1375	Pointe de Paray, VD	Switzerland	2361	6.77	788
<i>Arenaria c. subsp. bernensis</i>	14.08.2023	46.43267	6.9766	Rochers de Naye, VD	Switzerland	2022	6.65	368

<i>Arenaria c. subsp. bernensis</i>	14.08.2023	46.43264	6.97657	Rochers de Naye, VD	Switzerland	2020	6.51	374
<i>Arenaria c. subsp. bernensis</i>	14.08.2023	46.43268	6.97656	Rochers de Naye, VD	Switzerland	2020	6.53	106
<i>Arenaria c. subsp. bernensis</i>	14.08.2023	46.43311	6.97718	Rochers de Naye, VD	Switzerland	2020	6.74	118
<i>Arenaria c. subsp. bernensis</i>	14.08.2023	46.4331	6.97717	Rochers de Naye, VD	Switzerland	2020	6.68	171
<i>Arenaria c. subsp. bernensis</i>	14.08.2023	46.43309	6.97719	Rochers de Naye, VD	Switzerland	2020	6.71	139
<i>Arenaria c. subsp. bernensis</i>	16.08.2023	46.528	7.20379	Dent de Combettes, VD	Switzerland	2079	7.02	119
<i>Arenaria c. subsp. bernensis</i>	16.08.2023	46.52812	7.20352	Dent de Combettes, VD	Switzerland	2012	6.96	167
<i>Arenaria ciliata</i> s.str.	16.08.2023	46.52403	7.19905	Rochers des Rayes, VD	Switzerland	1940	1.57	215
<i>Arenaria ciliata</i> s.str.	16.08.2023	46.52411	7.19919	Rochers des Rayes, VD	Switzerland	1955	1.67	227
<i>Arenaria ciliata</i> s.str.	16.08.2023	46.52415	7.19921	Rochers des Rayes, VD	Switzerland	1955	1.69	254
<i>Arenaria ciliata</i> s.str.	16.08.2023	46.52812	7.20356	Dent de Combettes, VD	Switzerland	2012	1.60	531

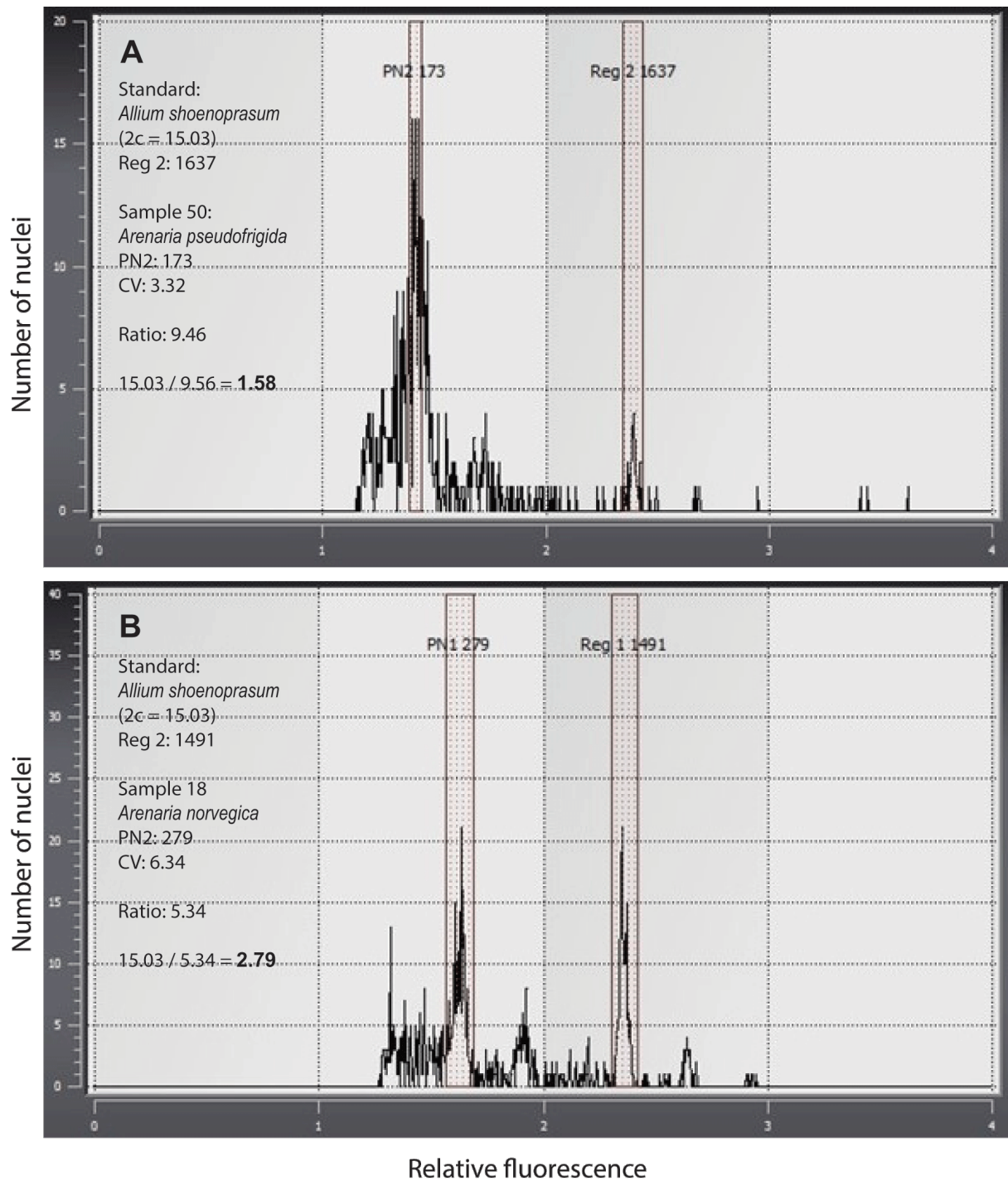


Figure S1. Examples of histograms of genome size estimations using flow cytometry. A: *Arenaria pseudofrigida* from Traill Island, Greenland. B: *Arenaria norvegica* from Latrabjarg, Iceland (Plant Cytometry Services, Didam, The Netherlands, www.plantcytometry.nl).