

Article: Impact of the construction of new port facilities on the biomass and species composition of phytoplankton in the Neva Estuary (Baltic Sea)

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Supplementary Table S1. Phytoplankton species composition, number of occurrences and biomass of algae in the Neva Estuary in 2003–2020.

Class	Species	Number of occurrence	Biomass [mg m ⁻³]
Chlorophyceae	<i>Actinastrum hantzschii</i> Lagerheim 1882	66	0.2-718.1
	<i>Ankistrodesmus fusiformis</i> Corda 1838	5	27.2-744.9
	<i>Binuclearia lauterbornii</i> (Schmidle) Proschkina-Lavrenko 1966	9	6.1-117.3
	<i>Botryococcus braunii</i> Kützing 1849	25	1.9-696.6
	<i>Chlamidomonas</i> sp.	25	13.4-2928.8
	<i>Closterium</i> sp.	10	0.9-69.1
	<i>Closterium aciculare</i> T.West 1860	7	12.9-195.9
	<i>Closterium acutum</i> Brébisson 1848	8	3.3-176.4
	<i>Closterium diana</i> Ehrenberg ex Ralfs 1848	7	71.1-418.1
	<i>Closterium gracile</i> Brébisson ex Ralfs 1848	2	53.1-64.9
	<i>Closterium pronum</i> Brébisson 1856	2	64.5-69.3
	<i>Coelastrum cambricum</i> W.Archer 1868	1	191.0
	<i>Coelastrum microporum</i> Nägeli 1855	65	1.2-1440.0
	<i>Coelastrum sphaericum</i> Nägeli 1849	2	28.4-1713.6
	<i>Coenochloris</i> sp.	6	2.6-80.6
	<i>Cosmarium margaritifерum</i> Meneghini ex Ralfs 1848	3	17.0-1293.1
	<i>Crucigenia tetrapedia</i> (Kirchner) Kuntze 1898	15	2.7-163.2
	<i>Crucigeniella irregularis</i> (Wille) P.M.Tsarenko & D.M.John 2002	10	1.9-102.2
	<i>Desmodesmus communis</i> (E.Hegewald) E.Hegewald 2000	21	0.3-716.8
	<i>Desmodesmus denticulatus</i> (Lagerheim) S.S.An, T.Fiedl & E.Hegewald 1999	1	151.1
	<i>Dictyosphaerium ehrenbergianum</i> Nägeli 1849	1	754.5
	<i>Euastrum</i> sp.	2	4.7-7.8
	<i>Eudorina elegans</i> Ehrenberg 1832	23	0.6-550.1
	<i>Gloeotila</i> sp.	4	1.7-170.1
	<i>Golenkinia radiata</i> Chodat 1894	3	64.1-212.0
	<i>Kirchneriella obesa</i> (West) West & G.S.West 1894	1	38.3
	<i>Koliella spiralis</i> Kuosa 1988	2	8.5
	<i>Lagerheimia genevensis</i> (Chodat) Chodat 1895	1	2.8
	<i>Micractinium pusillum</i> Fresenius 1858	44	4.3-1598.4
	<i>Monoraphidium contortum</i> (Thuret) Komárková-Legnerová 1969	132	1.8-448.0

	<i>Monoraphidium minutum</i> (Nägeli) Komárková-Legnerová 1969	4	6.8-33.6
	<i>Mougeotia</i> sp.	94	0.1-2744.0
	<i>Mucidosphaerium pulchellum</i> (H.C.Wood) C.Bock, Proschold & Krienitz 2011	55	1.2-7833.6
	<i>Nephrocytium limneticum</i> (G.M. Smith) G.M. Smith 1933	5	14.9-87.7
	<i>Nephrocytium minus</i> (Nägeli) Archer	3	0.8-1.6
	<i>Oocystis borgei</i> J.W.Snow 1903	4	7.9-236.4
	<i>Oocystis lacustris</i> Chodat 1897	11	0.1-151.2
	<i>Pandorina morum</i> (O.F.Müller) Bory 1826	41	1.4-3350.5
	<i>Pediastrum duplex</i> Meyen 1829	48	1.3-569.6
	<i>Pseudodidymocystis planctonica</i> (Korshikov) E.Hegewald & Deason 1989	1	9.1
	<i>Pseudopediastrum boryanum</i> (Turpin) E.Hegewald 2005	49	1.9-480.0
	<i>Pseudosphaerocystis lacustris</i> (Lemmermann) Nováková 1965	9	1.5-4855.2
	<i>Pyramimonas</i> sp.	7	8.4-124.1
	<i>Selenastrum bibraianum</i> Reinsch 1866	3	26.5-801.4
	<i>Sphaerocystis planctonica</i> (Korshikov) Bourrelly 1974	15	4.3-1393.5
	<i>Sphaerocystis schroeteri</i> Chodat 1897	33	0.3-1422.0
	<i>Spirogyra</i> sp.	1	1373.4
	<i>Stauridium tetras</i> (Ehrenberg) E.Hegewald 2005	17	0.7-88.3
	<i>Staurodesmus</i> sp.	1	3.7
	<i>Staurodesmus controversus</i> var. <i>crassus</i> (West & GSWest) Coesel & Meesters 2013	1	1.8
	<i>Tetradesmus lagerheimii</i> M.J.Wynne & Guiry 2016	54	0.8-383.0
	<i>Tetradesmus obliquus</i> (Turpin) M.J.Wynne 2016	54	1.1-420.0
	<i>Tetraëdron minimum</i> (A.Braun) Hansgirg 1889	5	14.1-410.2
	<i>Tetrastrum glabrum</i> (Y.V.Roll) Ahlstrom & Tiffany 1934	18	0.8-353.2
	<i>Ulothrix</i> sp.	6	1.8-836.8
Cyanophyceae	<i>Anathece clathrata</i> (West & G.S.West) Komárek, Kastovsky & Jezberová 2011	43	1.5-691.9
	<i>Aphanizomenon flos-aquae</i> Ralfs ex Bornet & Flahault 1886	73	3.6-6389.9
	<i>Aphanizomenon gracile</i> Lemmermann 1907	27	3.4-962.7
	<i>Aphanocapsa reinboldii</i> (Richter) Komárek & Anagnostidis 1995	54	1.2-1848.5
	<i>Chroococcus minutus</i> (Kützinger) Nägeli 1849	2	13.8-374.4
	<i>Chroococcus turgidus</i> (Kützinger) Nägeli 1849	2	3.8-24.0
	<i>Coelosphaerium kuetzingianum</i> Nägeli 1849	47	0.6-1581.1
	<i>Dolichospermum circinale</i> (Brébisson ex Bornet & Flahault) P.Wacklin, L.Hoffmann & J.Komárek 2009	10	9.1-1263.0

	<i>Dolichospermum flos-aquae</i> (Brébisson ex Bornet & Flahault) P.Wacklin, L.Hoffmann & J.Komárek 2009	84	2.9-5153.8
	<i>Dolichospermum lemmermannii</i> (Brébisson ex Bornet & Flahault) P.Wacklin, L.Hoffmann & J.Komárek 2009	7	10.0-115.5
	<i>Dolichospermum scheremetieviae</i> (Brébisson ex Bornet & Flahault) P.Wacklin, L.Hoffmann & J.Komárek 2009	10	58.1-3526.5
	<i>Dolichospermum spiroides</i> (Klebhan) Wacklin, L.Hoffmann & Komárek 2009	20	1.9-200.0
	<i>Limnococcus limneticus</i> (Lemmermann) Komárková, Jezberová, O.Komárek & Zapomelová 2010	2	7.2-10.7
	<i>Limnothrix planctonica</i> (Woloszynska) Meffert 1988	70	2.6-4155.2
	<i>Merismopedia tenuissima</i> Lemmermann 1898	22	0.3-108.4
	<i>Merismopedia tranquilla</i> (Ehrenberg) Trevisan 1845	8	1.2-158.2
	<i>Microcystis aeruginosa</i> (Kützing) Kützing 1846	1	28.7
	<i>Microcystis pulverea</i> (H.C.Wood) Forti 1907	53	1.1-133.4
	<i>Microcystis wesenbergii</i> (Komárek) Komárek ex Komárek 2006	9	26.6-360.0
	<i>Nodularia spumigena</i> Mertens ex Bornet & Flahault 1888	9	6.9-542.5
	<i>Oscillatoria</i> sp.	15	27.9-1506.4
	<i>Oscillatoria tenuis</i> C.Agardh ex Gomont 1892	6	12.4-584.8
	<i>Planktolyngbia limnetica</i> (Lemmermann) Komárková- Legnerová & Cronberg 1992	45	0.5-5238.9
	<i>Planktothrix agardhii</i> (Gomont) Anagnostidis & Komárek 1988	74	1.2-8800.0
	<i>Pseudanabaena limnetica</i> (Lemmermann) Komárek 1974	25	1.2-505.3
	<i>Snowella lacustris</i> (Chodat) Komárek & Hindák 1988	70	1.8-1466.4
	<i>Synechococcus elongatus</i> (Nägeli) Nägeli 1849	2	64.8-9579.4
	<i>Woronichinia compacta</i> (Lemmermann) Komárek & Hindák 1988	7	11.1-77.7
Bacillariophyceae	<i>Asterionella formosa</i> Hassall 1850	75	0.4-337.8
	<i>Aulacoseira distans</i> (Ehrenberg) Simonsen 1979	3	0.1-39.6
	<i>Aulacoseira islandica</i> (O.Müller) Simonsen 1979	104	4.6-3315.7
	<i>Aulacoseira italica</i> (Ehrenberg) Simonsen 1979	10	1.0-222.3
	<i>Aulacoseira muzzanensis</i> (F.Meister) Krammer 1991	4	264.6- 3230.9

	<i>Belonastrum berolinense</i> (Lemmermann) Round & Maidana 2001	51	0.1-4075.5
	<i>Chaetoceros wighamii</i> Brightwell 1856	1	26.7
	<i>Diatoma elongata</i> (Lyngbye) C.Agardh 1824	3	1.8-25.0
	<i>Diatoma tenuis</i> C.Agardh 1812	4	6.6-510.0
	<i>Fragilaria crotonensis</i> Kitton 1869	57	0.5-452.9
	<i>Lindavia bodanica</i> (Eulenstein ex Grunow) T.Nakov, Guillory, Julius, Theriot & Alverson 2015	1	27.4
	<i>Lindavia glomerata</i> (H.Bachmann) Adesalu & Julius 2017	60	0.5-6364.8
	<i>Pantocsekiella kuetzingiana</i> (Thwaites) K.T.Kiss & E.Ács 2016	67	5.9-16127.4
	<i>Rhizosolenia longissima</i> Hustedt 1906	9	5.4-128.0
	<i>Skeletonema</i> sp.	8	79.1-6405.6
	<i>Skeletonema. subsalsum</i> (Cleve-Euler) Bethge 1928	78	3.2-2528.1
	<i>Stephanodiscus</i> sp.	1	1.1
	<i>Stephanodiscus hantzschii</i> Grunow 1880	26	0.2-288.0
	<i>Synedra</i> sp.	1	12.4
	<i>Tabellaria fenestrata</i> (Lyngbye) Kützing 1844	81	2.6-2100.8
	<i>Tabellaria flocculosa</i> (Roth) Kützing 1844	18	3.9-505.7
	<i>Thalassiosira baltica</i> (Grunow) Ostenfeld 1901: 290	2	32.9-49.8
	<i>Ulnaria acus</i> (Kützing) Aboal 2003	25	2.7-367.4
Chrysophyceae	<i>Chrysococcus rufescens</i> Klebs 1892	7	0.6-151.3
	<i>Dinobryon</i> sp.	2	3.6-7.2
	<i>Dinobryon divergens</i> O.E.Imhof 1887	47	1.2-1680.0
	<i>Dinobryon bavaricum</i> Imhof 1890	5	8.3-109.4
	<i>Dinobryon sociale</i> (Ehrenberg) Ehrenberg 1834	4	63.5-100.8
	<i>Mallomonas</i> sp.	15	3.4-107.4
	<i>Mallomonas charkowiensis</i> Swirenko 1913	10	2.0-258.4
	<i>Mallomonas elegans</i> Lemmermann 1904	6	3.8-141.5
	<i>Mallomonas splendens</i> (G.S.West) Playfair 1913	1	85.4
	<i>Synura uvella</i> Ehrenberg 1834	2	6.3-143.7
	<i>Uroglenopsis americana</i> (G.N.Calkins) Lemmermann 1899	1	19.2
Dynophyceae	<i>Apocalathium aciculiferum</i> (Lemmermann) Craveiro, Daugbjerg, Moestrup & Calado 2016	41	1.6-2349.5
	<i>Ceratium hirundinella</i> (O.F.Müller) Dujardin 1841	49	32.0-3200.0
	<i>Glenodinium</i> sp	31	1.4-152.2

	<i>Gymnodinium</i> sp	13	5.2-2304.0
	<i>Peridiniella catenata</i> (Levander) Balech 1977	3	49.5-85.5
	<i>Peridinium</i> sp.	5	43.9-544.5
	<i>Peridinium cinctum</i> (O.F.Müller) Ehrenberg 1832	29	48.0-2664.0
	<i>Protodinium bipes</i> (Paulsen) Balech 1974	3	8.3-49.9
Cryptophyceae	<i>Cryptomonas</i> sp	4	7.3-127.7
	<i>Cryptomonas erosa</i> Ehrenberg 1832	104	4.5-4384.0
	<i>Cryptomonas marssonii</i> Skuja 1948	80	2.8-2491.2
	<i>Cryptomonas ovata</i> Ehrenberg 1832	58	1.3-7056.0
	<i>Cryptomonas phaseolus</i> Skuja 1948	16	2.7-321.2
	<i>Komma caudata</i> (L.Geitler) D.R.A.Hill 1991	131	1.6-1296.9
Euglenophyceae	<i>Lepocinclis acus</i> (O.F.Müller) B.Marin & Melkonian 2003	15	4.2-825.0
	<i>Trachelomonas</i> sp.	10	16.5-2356.0
	<i>Trachelomonas hispida</i> (Perty) F.Stein 1878	1	22.8
	<i>Trachelomonas volvocina</i> (Ehrenberg) Ehrenberg 1834	41	5.9-4680.0
Xanthophyceae	<i>Tribonema affine</i> (Kützing) G.S.West 1904	18	0.6-1177.5

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