

Supplementary material (SM)

**Phytoplankton-Water Quality Relationship in Water Bodies  
in the Mekong Delta, Vietnam**

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**SM 1** List of phytoplankton species present at the study area

No.	Taxa	Sampling sites																								
		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25
1	<i>Anabaena azollae</i>	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	<i>Anabaena circinalis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	1	1	0
3	<i>Aphanocapsa pulchra</i>	135	64	36	166	83	133	68	88	63	82	1	1	0	3	1	6	1	0	1	0	5	11	2	1	4
4	<i>Aphanothece stagnina</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	<i>Aulosira implexa</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	<i>Anabaena elenkini</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4
7	<i>Borzia minima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
8	<i>Calothrix castellii</i>	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	<i>Calothrix sp.</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	<i>Chroococcus dispersus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	<i>Chroococcus giganteus</i>	1	0	0	0	2	0	2	0	1	0	1	0	0	0	0	0	0	0	1	0	0	2	3	1	1
12	<i>Chroococcus limneticus</i>	1	1	21	11	1	1	55	1	1	1	0	0	0	2	0	0	0	0	1	0	0	2	3	1	1
13	<i>Coelosphaerium kutzingianum</i>	1	1	1	0	1	0	0	7	0	1	0	8	2	1	2	0	1	0	0	0	0	0	0	1	1
14	<i>Gloeocapsa sp.</i>	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	<i>Hypnodinium sphaericum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
16	<i>Lyngbya birgei</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	<i>Lyngbya contorta</i>	0	1	0	0	3	1	1	0	1	0	0	1	0	1	1	0	0	0	1	0	1	11	1	0	6
18	<i>Lyngbya majuscula</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	<i>Lyngbya martensiana</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
20	<i>Merismopedia elegans</i>	19	12	5	7	0	0	5	13	6	2	0	0	0	0	0	0	1	0	5	0	0	0	0	0	0
21	<i>Merismopedia minima</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	<i>Merismopedia tenuissima</i>	1	0	0	0	0	0	15	0	1	0	0	0	0	0	0	0	6	0	2	0	0	0	0	0	0
23	<i>Merismopedia trolleri</i>	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	<i>Microcystis aeruginosa</i>	1	1	37	9	2	17	1	4	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
25	<i>Nostoc linckia</i>	3	3	38	1	3	9	4	27	6	5	0	0	0	0	0	0	0	0	0	0	9	32	3	1	1





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		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25
	<b>EUGLENOPHYTA (continued)</b>																									
116	<i>Phacus trapezoides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
117	<i>Phacus triquetus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0
118	<i>Phacus triquetrus</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
119	<i>Strombomonas acuminata</i>	0	0	0	3	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
120	<i>Strombomonas australia</i>	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
121	<i>Strombomonas chinensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
122	<i>Strombomonas gibberosa</i>	0	0	0	0	0	0	1	0	0	1	0	1	1	5	14	5	10	5	0	0	1	1	1	1	5
123	<i>Strombomonas planctonia</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	<i>Strombomonas sp.</i>	0	0	0	0	4	0	0	2	2	0	1	0	13	9	0	1	1	1	1	1	1	8	4	5	7
125	<i>Strombomonas sp.12</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
126	<i>Trachelomonas Playfairi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
127	<i>Trachelomonas abrupta</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	<i>Trachelomonas bacillifera</i>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	<i>Trachelomonas bulla</i>	0	0	0	0	1	0	27	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
130	<i>Trachelomonas bulla Stein</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
131	<i>Trachelomonas caudata</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
132	<i>Trachelomonas dubia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
133	<i>Trachelomonas hexangulata</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	<i>Trachelomonas hispida</i>	1	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
135	<i>Trachelomonas hispida var. acuminata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0
136	<i>Trachelomonas hispida var. granulata</i>	0	17	2	27	1	2	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	2	10	0
137	<i>Trachelomonas hispida var. spinulosa</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
138	<i>Trachelomonas oblonga var. austrialica</i>	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	11	0	1	1	0	0
139	<i>Trachelomonas planctonica</i>	1	0	2	0	4	3	4	0	1	4	0	0	1	0	0	0	0	0	0	1	8	0	0	0	0
140	<i>Trachelomonas pulcherrima var. minor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
141	<i>Trachelomonas rotunda</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	<i>Trachelomonas similis</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	<i>Trachelomonas sp.,</i>	0	1	2	0	0	1	1	1	3	0	0	0	0	6	0	0	0	0	0	18	20	8	10	13	0
144	<i>Trachelomonas sp1.,</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
145	<i>Trachelomonas sp2.,</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	<i>Trachelomonas stokesiana f. maeandrina</i>	0	1	2	7	0	3	0	0	0	0	0	3	0	1	6	6	0	1	4	1	0	0	1	0	0
147	<i>Trachelomonas subverrucosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	28	2	0	0	0
148	<i>Trachelomonas superba var. spinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
149	<i>Trachelomonas superba var. swirenkiaa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
150	<i>Trachelomonas volvocina</i>	0	0	0	5	1	2	3	1	1	10	0	3	0	4	1	28	28	0	17	1	38	6	4	1	2
	<b>DINOPHYTA</b>																									
151	<i>Ceratium candelabrum fo. Commine</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
152	<i>Ceratium furca</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
153	<i>Ceratium furca var. berghia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
154	<i>Ceratium hirundinella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
155	<i>Diplopsalis acuta</i>	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	<i>Diplopsalis lenticula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
157	<i>Diplopsalis lenticula fo. asymmetrica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
158	<i>Glenodinium berolinense</i>	0	13	20	0	0	0	0	28	0	6	0	0	0	0	18	30	242	0	5	1	0	1	0	0	0
159	<i>Glenodinium kuczynskii</i>	1	0	36	6	0	3	52	3	18	0	1	2	0	4	0	25	28	9	320	0	0	0	0	0	0
160	<i>Glenodinium penardiforme</i>	1	0	0	0	0	0	21	0	1	0	0	0	0	0	0	1	0	0	14	1	0	0	0	0	0





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		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25
	<b>CHLOROPHYTA (continued)</b>																									
254	<i>Rhizoclonium hieroglyphicum</i>	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
255	<i>Scenedesmus acuminatus</i>	3	0	2	0	0	0	7	1	0	1	0	0	2	0	0	0	0	0	1	0	12	2	1	0	3
256	<i>Scenedesmus armatus</i>	0	6	0	0	0	2	0	1	0	10	0	0	0	0	1	0	0	3	0	0	0	0	0	1	0
257	<i>Scenedesmus avalternus</i> var. <i>gravenitzii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
258	<i>Scenedesmus bicaudatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
259	<i>Scenedesmus bijugatus</i>	0	0	1	0	0	0	1	0	0	0	0	0	0	1	3	8	0	1	0	6	2	1	1	1	2
260	<i>Scenedesmus brasiliensis</i>	0	0	0	0	0	0	5	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	
261	<i>Scenedesmus crassus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	11	7	2	4	
262	<i>Scenedesmus dimorphus</i>	0	0	1	7	23	0	0	0	0	0	0	2	0	0	5	0	0	4	0	5	0	0	0	0	
263	<i>Scenedesmus obliquus</i>	0	1	0	0	0	0	0	0	0	0	0	7	8	4	20	0	2	0	1	0	0	0	0	1	
264	<i>Scenedesmus protuberans</i>	0	0	5	0	0	0	0	0	0	0	0	1	0	10	0	0	0	0	0	1	0	0	0	0	
265	<i>Scenedesmus quadricauda</i>	0	0	1	0	0	7	21	0	1	0	0	2	1	2	1	4	0	0	1	0	14	7	4	3	
266	<i>Scenedesmus</i> sp.,	17	0	0	0	0	0	0	15	11	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	
267	<i>Selenastrum glaciale</i>	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	
268	<i>Sphaerocystis planctonica</i>	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
269	<i>Sphaerocystis schroeteri</i>	1	14	45	3	15	4	17	20	16	13	1	2	0	1	0	0	1	0	0	1	2	2	1	1	
270	<i>Sphaerodinium cinctum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
271	<i>Sphaeroplea annulina</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
272	<i>Sphaerozosma nitens</i> var. <i>triangulare</i> fa. <i>Javanicum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
273	<i>Spirogyra ionia</i>	0	0	0	0	0	0	1	0	0	0	6	0	0	0	0	1	0	0	0	0	0	0	0	0	
274	<i>Spirogyra prolifica</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
275	<i>Spirulina major</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	
276	<i>Staurastrum chaetocera</i>	1	1	0	16	55	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
277	<i>Staurastrum cuspidatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
278	<i>Staurastrum dejectum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
279	<i>Staurastrum gracile</i>	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
280	<i>Staurastrum megacanthum</i>	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	2	
281	<i>Staurastrum megacanthum</i> var. <i>Kalimantanum</i>	2	1	1	0	0	5	22	28	1	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
282	<i>Staurastrum orbiculara</i> var. <i>depressum</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
283	<i>Staurastrum paradoxum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
284	<i>Staurastrum planctonicum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
285	<i>Staurastrum protectum</i>	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
286	<i>Staurastrum</i> sp.,	34	33	85	27	0	66	32	47	42	1	2	0	0	0	0	0	2	11	9	0	0	0	0	0	
287	<i>Staurastrum tetracerum</i>	0	1	0	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
288	<i>Staurastrum wildemanii</i> var. <i>unispiniferum</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	
289	<i>Staurastrum woltereckii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
290	<i>Tetraedron lobatum</i> var. <i>subtetraedricum</i>	2	0	1	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
291	<i>Tetraedron lobulatum</i>	0	0	0	0	2	1	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
292	<i>Tetraedron regulare</i> var. <i>incus</i>	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
293	<i>Tetraedron trigonum</i>	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
294	<i>Tetrastrum heterocanthum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
295	<i>Trebouxia cladonie</i>	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	

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		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25
	<b>CHLOROPHYTA (continued)</b>																									
296	<i>Treubaria crassispina</i>	1	0	1	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
297	<i>Treubaria triappendiculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	
298	<i>Triploceras verticillatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
299	<i>Ulothrix cylindricum</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
300	<i>Ulothrix tenerima</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
301	<i>Ulothrix variabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	
302	<i>Ulothrix zonata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
303	<i>Volvox aureus</i>	1	1	0	1	2	0	8	15	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
304	<i>Zygnemopsis americana</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
	<b>BACILLARIOPHYTA</b>																									
305	<i>Amphipleura pellucida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
306	<i>Amphora hendeyi</i> n. sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	3	
307	<i>Amphora lineata</i>	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	
308	<i>Bidduphia sinensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
309	<i>Bidduphia mobiliensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
310	<i>Bidduphia regia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	1	0	3	0	0	0	0	0	
311	<i>Chaetoceros Lauder</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
312	<i>Chaetoceros mulleri</i>	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
313	<i>Chaetoceros quadriset</i>	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
314	<i>Chaetoceros weisflogii</i>	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
315	<i>Coscinodiscus Excentricus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2	0	0	0	0	0	
316	<i>Coscinodiscus nodulifer</i>	0	0	0	0	0	0	0	0	0	0	11	0	4	0	0	0	5	0	1	0	0	0	0	1	
317	<i>Coscinodiscus nitidua</i>	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	
318	<i>Coscinodiscus radiatus</i>	0	1	0	0	0	0	36	0	0	0	3	0	0	0	3	0	0	1	0	0	0	0	0	0	
319	<i>Coscinodiscus Rothii</i>	0	0	0	0	0	0	0	0	1	0	1	1	5	5	0	2	1	0	0	0	0	0	0	0	
320	<i>Coscinodiscus sp.,</i>	0	0	0	1	2	0	0	0	0	0	0	0	11	0	11	0	1	0	0	1	0	0	0	0	
321	<i>Cyclotella comta</i>	0	0	1	1	1	1	8	0	1	0	1	12	11	10	0	22	50	0	15	8	20	26	14	13	
322	<i>Cyclotella kutzingiana</i>	0	0	0	0	0	0	0	0	1	0	0	5	0	0	0	1	0	0	2	0	0	0	1	0	
323	<i>Cyclotella Meneghiniana</i>	1	0	1	1	2	1	9	0	0	0	13	2	6	17	9	14	3	15	0	14	14	3	0	0	
324	<i>Cyclotella sp.,</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
325	<i>Cymbella cistula</i>	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
326	<i>Cymbella turgida</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
327	<i>Diatoma elongatum</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
328	<i>Fragilaria capucina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
329	<i>Fragilaria construens</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
330	<i>Grammatophara serpentina</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
331	<i>Grammatophora angulosa</i>	0	0	1	0	0	0	0	3	0	1	0	0	0	0	13	0	0	0	0	0	0	0	1	0	
332	<i>Gyrosigma attenuatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
333	<i>Gyrosigma spenceri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
334	<i>Gyrosigma strigile</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
335	<i>Hemiaulus hauckii</i>	1	1	1	12	0	33	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
336	<i>Hemiaulus indicus</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
337	<i>Lauderia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
338	<i>Leuvenia natans</i>	0	0	0	0	0	0	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
339	<i>Mastogloia minuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	
340	<i>Melosira agussizii</i>	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	1	0	4	0	0	8	0	0	0	

No.	Taxa	Sampling sites																								
		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25
	<b>BACILLARIOPHYTA (continued)</b>																									
341	<i>Melosira distans</i>	44	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
342	<i>Melosira granulata</i>	643	630	358	788	881	374	241	403	476	243	32	11	2	3	5	8	13	0	4	0	0	0	0	0	
343	<i>Melosira granulata</i> var. <i>angu. fo. Spiralis</i>	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	
344	<i>Melosira granulata</i> var. <i>angustissima</i>	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
345	<i>Melosira granulata</i> var. <i>mizzenensis</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	
346	<i>Melosira granulata</i> var. <i>valida</i>	339	290	56	138	1	65	142	91	49	34	1	1	0	1	0	1	1	0	1	0	0	0	0	0	
347	<i>Melosira italica</i>	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
348	<i>Melosira Malayensis</i>	0	0	0	0	0	0	0	0	0	0	0	10	8	2	0	1	0	0	1	1	5	1	1	0	
349	<i>Melosira varians</i>	1	0	0	1	0	0	15	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350	<i>Navicula cancellata</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4	1	0	0	1	
351	<i>Navicula cuspidata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
352	<i>Navicula gastrum</i>	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	1	0	0	
353	<i>Navicula gracilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	1	0	0	2	2	
354	<i>Navicula placentula</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
355	<i>Navicula placentula</i> fo. <i>Lanceolana</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	
356	<i>Navicula placentula</i> fo. <i>Rostrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	
357	<i>Navicula placentula</i> form <i>jenisseyensis</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
358	<i>Navicula radiosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
359	<i>Navicula rhyrhocephala</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
360	<i>Neidium affine</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	
361	<i>Neidium affine</i> var. <i>amphirhynchus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	
362	<i>Nitzschia acicularis</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
363	<i>Nitzschia balcanica</i>	0	10	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	
364	<i>Nitzschia brebissonii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	
365	<i>Nitzschia closterium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	
366	<i>Nitzschia dissipata</i>	0	0	4	0	8	0	33	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
367	<i>Nitzschia dravellensis</i>	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
368	<i>Nitzschia filliformis</i>	92	35	44	0	0	0	0	1	14	5	0	0	0	0	0	7	1	0	0	0	0	1	1	0	
369	<i>Nitzschia fonticola</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370	<i>Nitzschia frigida</i>	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
371	<i>Nitzschia linearis</i>	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
372	<i>Nitzschia longissima</i>	591	313	103	643	637	303	665	414	155	126	4	0	0	0	1	0	1	3	1	1	30	8	1	7	
373	<i>Nitzschia longissima</i> var. <i>reversa</i>	0	55	0	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374	<i>Nitzschia navis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
375	<i>Nitzschia nyassensis</i>	36	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
376	<i>Nitzschia pacifica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
377	<i>Nitzschia parvula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
378	<i>Nitzschia philippinarum</i>	19	0	0	21	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	
379	<i>Nitzschia pseudogracilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
380	<i>Nitzschia ricta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	
381	<i>Nitzschia sigmoidea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
382	<i>Nitzschia</i> sp.,	13	1	0	0	5	1	4	1	12	1	0	0	0	0	0	0	0	0	0	1	1	0	1	2	
383	<i>Nitzschia vermicularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	5	0	0	1	0	
384	<i>Pinnularia gibba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	
385	<i>Placentula</i> form <i>jenisseyensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
386	<i>Pleurosigma affine</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	
387	<i>Pleurosigma angulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
388	<i>Pleurosigma normanii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	

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		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25
	<b>BACILLARIOPHYTA (continued)</b>																									
389	<i>Pleurosigma rectum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
390	<i>Pleurosigma salinarum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0	0
391	<i>Pleurosigma affine</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
392	<i>Pseudo-nitzschia sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0
393	<i>Rhizosolenia hebetata</i> fo. <i>Semispina</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
394	<i>Rhopalodia ventricosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	1
395	<i>Skeletonema costatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	241	2530	394	1113	0	0	0	0	0
396	<i>Skeletonema sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
397	<i>Stephanodiscus sp.</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
398	<i>Surirella biseriata</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
399	<i>Surirella robusta</i>	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
400	<i>Surirella robusta</i> var. <i>aplandida</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401	<i>Surirella robusta</i> var. <i>splendida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
402	<i>Surirella striatula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
403	<i>Surirella tenera</i>	0	0	0	1	0	0	0	1	0	1	3	0	0	0	0	1	1	0	0	0	0	0	0	0	0
404	<i>Synedra acus</i>	0	0	0	0	0	0	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
405	<i>Synedra acus</i> var. <i>angustissima</i>	1	1	56	1	31	44	55	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
406	<i>Synedra acus</i> var. <i>radians</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
407	<i>Synedra affinis</i>	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
408	<i>Synedra aspera</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
409	<i>Synedra cunningtoni</i>	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
410	<i>Synedra sp.</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
411	<i>Synedra tabulata</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
412	<i>Synedra tabulata</i> var. <i>grandis</i>	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
413	<i>Synedra ulna</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
414	<i>Tabellaria fenestrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
415	<i>Thalassionema nitzschioides</i>	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
416	<i>Thalassiosira constricta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
417	<i>Thalassiosira rotula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
418	<i>Thalassiosira sp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
419	<i>Thalassiosira weissflogii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
420	<i>Thalassiothrix frauenfeldii</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
421	<i>Trachyneis aspera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
422	<i>Triceratium reticulum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	<b>Total species</b>	83	67	78	80	114	94	104	77	108	71	36	44	41	53	47	72	66	36	81	59	92	75	76	77	89