

## Supplementary Material

### Drivers of macrophyte and diatom diversity in a shallow hypertrophic lake

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**Table S5.** Frequency of occurrence and cumulative numbers of diatom taxa in samples from the Dehtář fishpond throughout all three years and in each year separately. The calculations are based on the complete species data (species list, species quantities), presented in Table S6. **Frequency:** ≥20% bold, ≥50% light green, ≥75% dark green, ≥90% brown. **Cumulative numbers:** ≥100 bold, ≥500 blue, ≥1000 yellow, ≥2000 red.

Each taxon is given a color according to its affiliation to a particular FT group: green – planktonic taxa from FT1 (=centric diatoms from the *Coscinodiscophyceae*, mainly *Aulacoseira*, *Cyclostephanos*, *Cyclotella* and *Stephanodiscus*), red – typically periphytic taxa from FT2 (=adhering to the surface directly by a mucous film such as *Amphora*, *Cocconeis*, *Epithemia* or with a mucilaginous stalk such as taxa with apical pore fields from Achnanthales and Cymbellales), purple – attachable benthic araphid taxa from FT3 (=facultatively periphytic, passively moving diatoms from Fragilariales and the centric diatom *Melosira varians*), yellow – attachable benthic taxa with raphe with fibulae from FT4 (=facultatively periphytic, actively moving diatoms from Bacillariales and Surirellales), blue – motile benthic raphid taxa from FT5 (=epipellic taxa with raphe, actively moving, mainly symmetrical biraphid pennate diatoms – Naviculales with the exception of *Frustulia vulgaris* from the FT2 living in attached colonies of mucilaginous tubes).

	Frequency all years – number of samples with the species			Frequency 2015 – number of samples with the species			Frequency 2016 – number of samples with the species			Frequency 2019 – number of samples with the species		
	Frequency (%)			Frequency (%) – 2015			Frequency (%) – 2016			Frequency (%) 2019		
	cumulative number			cumulative number 2015			cumulative number 2016			cumulative number 2019		
	n=58			n=21			n=29			n=8		
<i>Achnanthes</i> sp.	8	0.137931034	11	3	0.142857143	4	2	0.068965517	3	3	0.375	4
<i>Achnanthidium catenatum</i> (Bilý & Marvan) Lange-Bertalot	2	0.034482759	2	2	0.095238095	2	0	0	0	0	0	0
<i>Achnanthidium</i> cf. <i>affine</i> (Grunow) Czamecki	2	0.034482759	7	0	0	0	2	0.068965517	7	0	0	0
<i>Achnanthidium minutissimum</i> (Kützing) Czamecki	34	0.586206897	930	2	0.095238095	6	25	0.862068966	770	7	0.875	154
<i>Achnanthidium saprophilum</i> (Kobayasi & Mayama) Round & Bukhtiyarova	47	0.810344828	1070	12	0.571428571	49	27	0.931034483	903	8	1	118
<i>Adlafia minuscula</i> (Grunow) Lange-Bertalot	4	0.068965517	8	4	0.19047619	8	0	0	0	0	0	0
<i>Amphora copulata</i> (Kützing) Schoeman & Archibald	10	0.172413793	21	10	0.476190476	21	0	0	0	0	0	0
<i>Amphora lange-bertalotii</i> Levkov & Metzeltin	9	0.155172414	21	0	0	0	4	0.137931034	8	5	0.625	13
<i>Amphora ovalis</i> (Kützing) Kützing	12	0.206896552	29	10	0.476190476	27	2	0.068965517	2	0	0	0
<i>Amphora pediculus</i> (Kützing) Grunow	3	0.051724138	3	1	0.047619048	1	1	0.034482759	1	1	0.125	1
<i>Anomoeoneis sphaerophora</i> Pfitzer	1	0.017241379	2	0	0	0	1	0.034482759	2	0	0	0
<i>Asterionella formosa</i> Hassall	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Aulacoseira ambigua</i> (Grunow) Simonsen	49	0.844827586	517	17	0.80952381	162	24	0.827586207	275	8	1	80
<i>Aulacoseira muzzanensis</i> (F.Meister) Krammer	6	0.103448276	13	5	0.238095238	12	1	0.034482759	1	0	0	0
<i>Aulacoseira</i> sp.	17	0.293103448	31	8	0.380952381	13	9	0.310344828	18	0	0	0
<i>Caloneis lancettula</i> (Schulz) Lange-Bertalot & Witkovski	6	0.103448276	12	6	0.285714286	12	0	0	0	0	0	0
<i>Caloneis silicula</i> (Ehrenberg) Cleve	6	0.103448276	8	5	0.238095238	7	1	0.034482759	1	0	0	0
<i>Cocconeis pediculus</i> Ehrenberg	2	0.034482759	2	1	0.047619048	1	0	0	0	1	0.125	1
<i>Cocconeis placentula</i> Ehrenberg	24	0.413793103	855	1	0.047619048	1	20	0.689655172	848	3	0.375	6
<i>Craticula ambigua</i> (Ehrenberg) D.G. Mann	5	0.086206897	6	4	0.19047619	5	0	0	0	1	0.125	1
<i>Craticula</i> cf. <i>halophila</i> (Grunow) D.G. Mann	1	0.017241379	1	0	0	0	0	0	0	1	0.125	1
<i>Craticula cuspidata</i> (Kützing) D.G. Mann	10	0.172413793	54	10	0.476190476	54	0	0	0	0	0	0

	Frequency all years – number of samples with the species			Frequency (%)			cumulative number			Frequency 2015 – number of samples with the species			Frequency (%) – 2015			cumulative number 2015			Frequency 2016 – number of samples with the species			Frequency (%) – 2016			cumulative number 2016			Frequency 2019 – number of samples with the species			Frequency (%) – 2019			cumulative number 2019		
	n=58									n=21									n=29									n=8								
<i>Craticula</i> sp.	4	0.068965517	4				0	0	0				4	0.137931034	4				0	0	0				3	0.375	3									
<i>Craticula subminuscula</i> (Manguin) Wetzel & Ector	18	0.310344828	231				0	0	0				15	0.517241379	228				3	0.375	3				3	0.375	3									
<i>Cyclostephanos dubius</i> (Hustedt) Round	28	0.482758621	61				16	0.761904762	32				12	0.413793103	29				0	0	0				0	0	0									
<i>Cyclotella atomus</i> Hustedt	7	0.120689655	20				0	0	0				3	0.103448276	13				4	0.5	7				4	0.5	7									
<i>Cyclotella meneghiniana</i> Kützing	30	0.517241379	189				12	0.571428571	31				17	0.586206897	157				1	0.125	1				1	0.125	1									
<i>Cymatopleura solea</i> (Brébisson) W. Smith	6	0.103448276	6				3	0.142857143	3				1	0.034482759	1				2	0.25	2				2	0.25	2									
<i>Cymbella</i> cf. <i>subcistula</i> Krammer	1	0.017241379	1				1	0.047619048	1				0	0	0				0	0	0				0	0	0									
<i>Cymbella neocistula</i> Krammer	1	0.017241379	1				1	0.047619048	1				0	0	0				0	0	0				0	0	0									
<i>Cymbella</i> sp.	1	0.017241379	1				0	0	0				1	0.034482759	1				0	0	0				0	0	0									
<i>Discostella pseudosteliger</i> (Hustedt) Houk & Klee	1	0.017241379	1				0	0	0				1	0.034482759	1				0	0	0				0	0	0									
<i>Encyonema auerswaldii</i> Rabenhorst	13	0.224137931	74				8	0.380952381	62				3	0.103448276	10				2	0.25	2				2	0.25	2									
<i>Encyonema minutum</i> agg.	41	0.706896552	277				13	0.619047619	19				20	0.689655172	215				8	1	43				8	1	43									
<i>Epithemia</i> sp.	1	0.017241379	1				0	0	0				1	0.034482759	1				0	0	0				0	0	0									
<i>Eunotia bidens</i> Ehrenberg	1	0.017241379	1				0	0	0				1	0.034482759	1				0	0	0				0	0	0									
<i>Eunotia bilunaris</i> (Ehrenberg) Schaarschmidt	10	0.172413793	333				0	0	0				10	0.344827586	333				0	0	0				0	0	0									
<i>Eunotia</i> sp.	1	0.017241379	4				0	0	0				1	0.034482759	4				0	0	0				0	0	0									
<i>Fallacia pygmaea</i> (Kützing) A.J.Stickle & D.G.Mann	11	0.189655172	20				10	0.476190476	19				1	0.034482759	1				0	0	0				0	0	0									
<i>Fistulifera saprophila</i> (Lange-Bertalot & Bonik) Lange-Bertalot	32	0.551724138	247				8	0.380952381	31				19	0.655172414	204				5	0.625	12				5	0.625	12									
<i>Fragilaria capucina</i> Desmazières	30	0.517241379	82				9	0.428571429	19				15	0.517241379	48				6	0.75	15				6	0.75	15									
<i>Fragilaria gracilis</i> Østrup	2	0.034482759	3				0	0	0				2	0.068965517	3				0	0	0				0	0	0									
<i>Fragilaria perdolicatissima</i> Lange-Bertalot & Van de Vijver	2	0.034482759	2				0	0	0				1	0.034482759	1				1	0.125	1				1	0.125	1									
<i>Fragilaria radians</i> (Kützing) D.M. Williams & Round	1	0.017241379	1				0	0	0				0	0	0				1	0.125	1				1	0.125	1									

	Frequency all years – number of samples with the species			Frequency 2015 – number of samples with the species			Frequency 2016 – number of samples with the species			Frequency 2019 – number of samples with the species		
	n=58	Frequency (%)	cumulative number	n=21	Frequency (%) – 2015	cumulative number 2015	n=29	Frequency (%) – 2016	cumulative number 2016	n=8	Frequency (%) – 2019	cumulative number 2019
<i>Fragilaria recapitellata</i> Lange-Bertalot & Metzeltin	10	0.172413793	15	9	<b>0.428571429</b>	14	1	0.034482759	1	0	0	0
<i>Fragilaria rumpens</i> (Kützing) Carlson	3	0.051724138	4	0	0	0	3	0.103448276	4	0	0	0
<i>Fragilaria saxoplanctonica</i> Lange-Bertalot & Ulrich	6	0.103448276	8	0	0	0	4	0.137931034	4	2	0.25	4
<i>Fragilaria tenera</i> (W.Smith) Lange-Bertalot	7	0.120689655	26	3	0.142857143	13	3	0.103448276	11	1	0.125	2
<i>Fragilaria vaucheriae</i> (Kützing) Petersen	32	<b>0.551724138</b>	109	8	<b>0.380952381</b>	17	17	<b>0.586206897</b>	65	7	<b>0.875</b>	27
<i>Fragilariforma virescens</i> (Ralfs) D.M. Williams & Round	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Frustulia vulgaris</i> (Thwaites) De Toni	1	0.017241379	1	1	0.047619048	1	0	0	0	0	0	0
<i>Geisleria cummerowi</i> (L. Kalbe) Lange-Bertalot	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Geisleria</i> sp.	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Gomphonema clavatum</i> Reichardt	1	0.017241379	1	1	0.047619048	1	0	0	0	0	0	0
<i>Gomphonema graciledictum</i> Reichardt	9	0.155172414	22	5	<b>0.238095238</b>	13	3	0.103448276	8	1	0.125	1
<i>Gomphonema innocens</i> Reichardt	2	0.034482759	2	2	0.095238095	2	0	0	0	0	0	0
<i>Gomphonema italicum</i> Kützing	3	0.051724138	3	0	0	0	3	0.103448276	3	0	0	0
<i>Gomphonema minutum</i> (C. Agardh) C. Agardh	3	0.051724138	4	0	0	0	1	0.034482759	1	2	<b>0.25</b>	3
<i>Gomphonema pala</i> Reichardt	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Gomphonema parvulum</i> agg.	51	<b>0.879310345</b>	<b>1964</b>	17	<b>0.80952381</b>	<b>252</b>	26	<b>0.896551724</b>	<b>713</b>	8	<b>1</b>	<b>999</b>
<i>Gomphonema pseudaugur</i> Lange-Bertalot	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gomphonema pumilum</i> (Grunow) Reichardt & Lange-Bertalot	3	0.051724138	25	0	0	0	3	0.103448276	25	0	0	0
<i>Gomphonema sarcophagus</i> Gregory	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Gomphonema subclavatum</i> (Grunow) Grunow	13	<b>0.224137931</b>	38	1	0.047619048	1	9	<b>0.310344828</b>	33	3	<b>0.375</b>	4
<i>Gyrosigma acuminatum</i> (Kützing) Rabenhorst	2	0.034482759	2	2	0.095238095	2	0	0	0	0	0	0
<i>Gyrosigma kuetzingii</i> (Grunow) Cleve	11	0.189655172	18	11	<b>0.523809524</b>	18	0	0	0	0	0	0

	Frequency all years – number of samples with the species			Frequency 2015 – number of samples with the species			Frequency 2016 – number of samples with the species			Frequency 2019 – number of samples with the species		
	n=58	Frequency (%)	cumulative number	n=21	Frequency (%) – 2015	cumulative number 2015	n=29	Frequency (%) – 2016	cumulative number 2016	n=8	Frequency (%) – 2019	cumulative number 2019
<i>Halamphora veneta</i> (Kützing) Levkov	2	0.034482759	10	0	0	0	0	0	0	2	0.25	10
<i>Hantzschia abundans</i> Lange-Bertalot	13	0.224137931	146	1	0.047619048	1	12	0.413793103	145	0	0	0
<i>Hippodonta capitata</i> (Ehrenberg) Lange-Bertalot. Metzeltin & Witkovski	29	0.5	81	16	0.761904762	56	8	0.275862069	15	5	0.625	10
<i>Lemnicola hungarica</i> (Grunow) Round & Basson	8	0.137931034	705	0	0	0	8	0.275862069	705	0	0	0
<i>Luticola</i> cf. <i>saprophila</i> Levkov. Metzeltin & Pavlov	0	0	0	0	0	0	0	0	0	0	0	0
<i>Luticola</i> cf. <i>ventricosa</i> (Kützing) D.G. Mann	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Luticola</i> sp.	1	0.017241379	2	0	0	0	1	0.034482759	2	0	0	0
<i>Melosira varians</i> C. Agardh	1	0.017241379	1	1	0.047619048	1	0	0	0	0	0	0
<i>Meridion circulare</i> agg.	6	0.103448276	7	0	0	0	5	0.172413793	6	1	0.125	1
<i>Navicula antonii</i> Lange-Bertalot	6	0.103448276	8	4	0.19047619	4	2	0.068965517	4	0	0	0
<i>Navicula capitatoradiata</i> Germain	49	0.844827586	2162	21	1	1538	20	0.689655172	151	8	1	473
<i>Navicula</i> cf. <i>upsaliensis</i> (Grunow) Peragallo	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Navicula cryptocephala</i> Kützing	45	0.775862069	345	18	0.857142857	234	19	0.655172414	52	8	1	59
<i>Navicula cryptotenella</i> Lange-Bertalot	9	0.155172414	15	3	0.142857143	4	4	0.137931034	9	2	0.25	2
<i>Navicula cryptotenelloides</i> Lange-Bertalot	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Navicula erifuga</i> Lange-Bertalot	11	0.189655172	84	11	0.523809524	84	0	0	0	0	0	0
<i>Navicula gregaria</i> Donkin	17	0.293103448	75	16	0.761904762	74	1	0.034482759	1	0	0	0
<i>Navicula ingrata</i> Krasske	3	0.051724138	3	3	0.142857143	3	0	0	0	0	0	0
<i>Navicula lacuum</i> Lange-Bertalot. G. Hofmann. Werum & Van de Viver	23	0.396551724	69	14	0.666666667	48	1	0.034482759	1	8	1	20
<i>Navicula lanceolata</i> (C. Agardh) Ehrenberg	1	0.017241379	2	0	0	0	1	0.034482759	2	0	0	0
<i>Navicula menisculus</i> Schumann	7	0.120689655	11	6	0.285714286	10	0	0	0	1	0.125	1
<i>Navicula meniscus</i> Schumann	1	0.017241379	2	1	0.047619048	2	0	0	0	0	0	0

	Frequency all years – number of samples with the species			Frequency 2015 – number of samples with the species			Frequency 2016 – number of samples with the species			Frequency 2019 – number of samples with the species		
		Frequency (%)	cumulative number		Frequency (%) – 2015	cumulative number 2015		Frequency (%) – 2016	cumulative number 2016		Frequency (%) – 2019	cumulative number 2019
	n=58			n=21			n=29			n=8		
<i>Navicula reichardtiana</i> Lange-Bertalot	49	0.844827586	831	18	0.857142857	88	23	0.793103448	712	8	1	31
<i>Navicula simulata</i> Manguin	1	0.017241379	17	1	0.047619048	17	0	0	0	0	0	0
<i>Navicula slesvicensis</i> Grunow	8	0.137931034	11	5	0.238095238	6	3	0.103448276	5	0	0	0
<i>Navicula tenelloides</i> Hustedt	3	0.051724138	4	0	0	0	3	0.103448276	4	0	0	0
<i>Navicula tripunctata</i> (O.F. Müller) Bory	1	0.017241379	5	0	0	0	1	0.034482759	5	0	0	0
<i>Navicula trivialis</i> Lange-Bertalot	26	0.448275862	191	16	0.761904762	165	4	0.137931034	7	6	0.75	19
<i>Navicula upsaliensis</i> (Grunow) Peragallo	1	0.017241379	2	1	0.047619048	2	0	0	0	0	0	0
<i>Navicula viridula</i> (Kützing) Ehrenberg	1	0.017241379	3	1	0.047619048	3	0	0	0	0	0	0
<i>Neidium dubium</i> (Ehrenberg) Cleve	3	0.051724138	3	3	0.142857143	3	0	0	0	0	0	0
<i>Neidium</i> sp.	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Nitzschia acicularis</i> (Kützing) W. Smith	4	0.068965517	11	0	0	0	4	0.137931034	11	0	0	0
<i>Nitzschia amphibia</i> Grunow	27	0.465517241	124	6	0.285714286	6	15	0.517241379	81	6	0.75	37
<i>Nitzschia archibaldii</i> Lange-Bertalot	47	0.810344828	2568	18	0.857142857	304	21	0.724137931	2044	8	1	220
<i>Nitzschia dissipata</i> (Kützing) Grunow	25	0.431034483	61	14	0.666666667	35	8	0.275862069	20	3	0.375	6
<i>Nitzschia filiformis</i> (W. Smith) Van Heurck	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Nitzschia linearis</i> (C. Agardh) W. Smith	3	0.051724138	6	3	0.142857143	6	0	0	0	0	0	0
<i>Nitzschia palea</i> (Kützing) W. Smith	56	0.965517241	2986	19	0.904761905	641	29	1	2296	8	1	49
<i>Nitzschia paleacea</i> (Grunow) Grunow	4	0.068965517	19	0	0	0	4	0.137931034	19	0	0	0
<i>Nitzschia perminuta</i> (Grunow) M. Peragallo	12	0.206896552	27	0	0	0	12	0.413793103	27	0	0	0
<i>Nitzschia pumila</i> Hustedt	4	0.068965517	6	4	0.19047619	6	0	0	0	0	0	0
<i>Nitzschia recta</i> Hantzsch	8	0.137931034	13	7	0.333333333	12	1	0.034482759	1	0	0	0
<i>Nitzschia solgensis</i> Cleve-Euler	3	0.051724138	7	1	0.047619048	1	1	0.034482759	1	1	0.125	5

	Frequency all years – number of samples with the species			Frequency 2015 – number of samples with the species			Frequency 2016 – number of samples with the species			Frequency 2019 – number of samples with the species		
		Frequency (%)	cumulative number		Frequency (%) – 2015	cumulative number 2015		Frequency (%) – 2016	cumulative number 2016		Frequency (%) – 2019	cumulative number 2019
	n=58			n=21			n=29			n=8		
<i>Nitzschia subacicularis</i> Hustedt	7	0.120689655	32	0	0	0	7	<b>0.24137931</b>	32	0	0	0
<i>Nitzschia</i> sp.	1	0.017241379	1	0	0	0	0	0	0	1	0.125	1
<i>Pinnularia borealis</i> Ehrenberg	5	0.086206897	12	1	0.047619048	1	4	0.137931034	11	0	0	0
<i>Pinnularia brebissonii</i> (Kützinger) Rabenhorst	2	0.034482759	5	1	0.047619048	1	0	0	0	1	0.125	4
<i>Pinnularia dornii</i> Metzeltin	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Pinnularia gibba</i> Ehrenberg	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Pinnularia grunowii</i> Krammer	4	0.068965517	12	0	0	0	4	0.137931034	12	0	0	0
<i>Pinnularia isselana</i> Krammer	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Pinnularia marchia</i> I. Schönfelder ex Krammer	6	0.103448276	86	0	0	0	6	<b>0.206896552</b>	86	0	0	0
<i>Pinnularia neomajor</i> Krammer	1	0.017241379	1	0	0	0	1	0.034482759	1	0	0	0
<i>Pinnularia obscura</i> Krasske	5	0.086206897	24	0	0	0	5	0.172413793	24	0	0	0
<i>Pinnularia pseudogibba</i> Krammer	2	0.034482759	13	0	0	0	2	0.068965517	13	0	0	0
<i>Pinnularia schoenfelderii</i> Krammer	6	0.103448276	11	4	0.19047619	5	2	0.068965517	6	0	0	0
<i>Pinnularia sinistra</i> Krammer	7	0.120689655	32	0	0	0	7	<b>0.24137931</b>	32	0	0	0
<i>Pinnularia subcapitata</i> Gregory	6	0.103448276	44	0	0	0	4	0.137931034	42	2	0.25	2
<i>Pinnularia subgibba</i> Krammer	5	0.086206897	13	0	0	0	5	0.172413793	13	0	0	0
<i>Pinnularia viridiformis</i> Krammer	12	<b>0.206896552</b>	90	3	0.142857143	3	8	<b>0.275862069</b>	85	1	0.125	2
<i>Placoneis anglica</i> (Ralfs) E.J.Cox	11	0.189655172	39	9	<b>0.428571429</b>	37	2	0.068965517	2	0	0	0
<i>Placoneis clementioides</i> (Hustedt) Cox	18	<b>0.310344828</b>	95	16	<b>0.761904762</b>	92	1	0.034482759	2	1	0.125	1
<i>Placoneis clementis</i> (Grunow) Cox	2	0.034482759	2	2	0.095238095	2	0	0	0	0	0	0
<i>Placoneis paraelginensis</i> Lange-Bertalot	2	0.034482759	4	1	0.047619048	3	1	0.034482759	1	0	0	0
<i>Placoneis placentula</i> (Ehrenberg) Heinzerling	2	0.034482759	2	0	0	0	0	0	0	2	<b>0.25</b>	2

	Frequency all years – number of samples with the species			Frequency 2015 – number of samples with the species			Frequency 2016 – number of samples with the species			Frequency 2019 – number of samples with the species		
	Frequency (%)	cumulative number		Frequency (%) – 2015	cumulative number 2015		Frequency (%) – 2016	cumulative number 2016		Frequency (%) – 2019	cumulative number 2019	
	n=58			n=21			n=29			n=8		
<i>Placoneis pseudanglica</i> (Lange-Bertalot) Cox	2 0.034482759	3		0 0 0			1 0.034482759	1		1 0.125	2	
<i>Placoneis</i> sp.	1 0.017241379	1		0 0 0			1 0.034482759	1		0 0 0		
<i>Planothidium</i> cf. <i>daui</i> (Foged) Lange-Bertalot	2 0.034482759	2		2 0.095238095	2		0 0 0			0 0 0		
<i>Planothidium delicatulum</i> (Kützing) Round & Bukhtiyarova	1 0.017241379	1		0 0 0			1 0.034482759	1		0 0 0		
<i>Planothidium frequentissimum</i> (Lange-Bertalot) Lange-Bertalot	44 0.75862069	381		12 0.571428571	37		24 0.827586207	278		8 1 66		
<i>Planothidium lanceolatum</i> (Brébisson ex Kützing) Lange-Bertalot	18 0.310344828	64		7 0.333333333	20		10 0.344827586	43		1 0.125	1	
<i>Pseudostaurosira brevistriata</i> (Grunow) Williams & Round	43 0.74137931	1161		21 1 867			15 0.517241379	90		7 0.875	204	
<i>Pseudostaurosira elliptica</i> (Schumann) Edlund. Morales & Spaulding	43 0.74137931	2716		20 0.952380952	2347		16 0.551724138	114		7 0.875	255	
<i>Puncticulata balatonis</i> (Pantocsek) Wojtal & Budzy	54 0.931034483	465		21 1 344			25 0.862068966	89		8 1 32		
<i>Rhoicosphenia abbreviata</i> (C. Agardh) Lange-Bertalot	1 0.017241379	1		0 0 0			1 0.034482759	1		0 0 0		
<i>Rossethidium petersenii</i> (Hustedt) Round & Bukhtiyarova	1 0.017241379	2		0 0 0			1 0.034482759	2		0 0 0		
<i>Sellaphora bacillum</i> (Ehrenberg) D.G.Mann	4 0.068965517	9		4 0.19047619	9		0 0 0			0 0 0		
<i>Sellaphora pupula</i> (Kützing) Mereschkovsky	31 0.534482759	151		16 0.761904762	117		7 0.24137931	9		8 1 25		
<i>Stauroneis leguminopsis</i> Lange-Bertalot & Krammer	2 0.034482759	2		1 0.047619048	1		1 0.034482759	1		0 0 0		
<i>Stauroneis</i> sp.	2 0.034482759	9		0 0 0			2 0.068965517	9		0 0 0		
<i>Stauroneis subgracilis</i> Lange-Bertalot et Krammer	7 0.120689655	27		0 0 0			7 0.24137931	27		0 0 0		
<i>Staurosira binodis</i> (Ehrenberg) Lange-Bertalot	33 0.568965517	141		18 0.857142857	105		10 0.344827586	27		5 0.625	9	
<i>Staurosira</i> cf. <i>venter</i> (Ehrenberg) Grunow	2 0.034482759	2		0 0 0			2 0.068965517	2		0 0 0		
<i>Staurosira construens</i> Ehrenberg	20 0.344827586	58		15 0.714285714	43		5 0.172413793	15		0 0 0		
<i>Staurosirella leptostauron</i> var. <i>dubia</i> (Grunow) M.B. Edlund	45 0.775862069	1276		21 1 1052			16 0.551724138	56		8 1 168		
<i>Stephanodiscus hantzschii</i> Grunow	14 0.24137931	70		6 0.285714286	12		5 0.172413793	52		3 0.375	6	
<i>Surirella angusta</i> Kützing	6 0.103448276	52		1 0.047619048	1		3 0.103448276	49		2 0.25	2	



	Frequency all years – number of samples with the species			Frequency 2015 – number of samples with the species			Frequency 2016 – number of samples with the species			Frequency 2019 – number of samples with the species		
	n=58	Frequency (%)	cumulative number	n=21	Frequency (%) – 2015	cumulative number 2015	n=29	Frequency (%) – 2016	cumulative number 2016	n=8	Frequency (%) – 2019	cumulative number 2019
<i>Surirella brebissonii</i> Krammer & Lange-Bertalot	5	0.086206897	7	4	0.19047619	6	1	0.034482759	1	0	0	0
<i>Surirella minuta</i> Brébisson	1	0.017241379	1	1	0.047619048	1	0	0	0	0	0	0
<i>Tryblionella salinarum</i> (Grunow) Pantocsek	2	0.034482759	2	1	0.047619048	1	0	0	0	1	0.125	1
<i>Ulnaria acus</i> (Kützing) Aboal	2	0.034482759	3	0	0	0	1	0.034482759	2	1	0.125	1
<i>Ulnaria grunowii</i> (Lange-Bertalot & Ulrich) Cantonati & Lange-Bertalot	1	0.017241379	6	0	0	0	1	0.034482759	6	0	0	0
<i>Ulnaria ulna</i> (Nitzsch) P.Compère	26	<b>0.448275862</b>	<b>106</b>	8	<b>0.380952381</b>	12	16	<b>0.551724138</b>	92	2	<b>0.25</b>	2