

Table S1. List of protist species and infraspecies taxa found in the Lake Kislo-Sladkoe via microscopy. Designations: «+» - active diversity, «*» - hidden diversity.

№	Taxa	Figures	Year, depths (m)										Year, depths (m)											
			2018										2021											
			0	0.5	1	1.5	2	2.5	3	3.1	3.5	4	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5		
**Bigyra Cavalier-Smith 1998, emend. 2006																								
***Opalozoa Cavalier Smith 1991, emend. 2006																								
****Bicosoecida Grasse 1926, emend. Karpov 1998																								
14	<i>Caecitellus parvulus</i> (Griessmann 1913) Patterson et al. 1998	3c																		*	*		*	
15	<i>Pseudobodo tremulans</i> Griessmann 1913												+											
16	<i>Cafeteria</i> sp.												+											
17	<i>Bicosoeca</i> cf. <i>maris</i> Picken 1841	3d										*												
**Gyrista Cavalier-Smith, 1998																								
***Developaea Karpov et Aleoshin 2016																								
18	<i>Developayella</i> cf. <i>elegans</i> Tong 1995																		*	*			*	
***Ochrophyta Cavalier-Smith 1986, emend. Cavalier-Smith & Chao 1996																								
****Chrysista Cavalier-Smith 1986																								
*****Chrysophyceae Pascher 1914																								
19	Unidentified Chrysophyceae			+	+	+	+	+	+	+	+	+												
*****Chromulinales Pascher 1910																								
20	<i>Kephrion</i> sp.	9i					+																	
*****Ochromonadales Pascher 1910																								
21	<i>Spumella</i> -like flagellates			+	+	+	+	+					+	+		*	*	*	*	*	*	*		
*****Paraphysomonadida Scoble & Cavalier-Smith 2014																								
22	<i>Clathromonas butcheri</i> (Pennick and Clarke 1972) Scoble and Cavalier-Smith 2014	4d,e																	+	+		+		
23	<i>Paraphysomonas cylicophora</i> Leadbeater 1972	4f																+	+	+		+		
24	<i>Paraphysomonas foraminifera</i> Lucas 1967	4c																	+	+				
25	<i>Paraphysomonas vestita</i> (Stokes 1885) De Saedeleer (1929)	4b																	+	+	+		+	
26	<i>Paraphysomonas</i> sp.	4a	+	+	+	+	+	+	+	+	+	+												
****Diatomista Derelle et al., 2016																								
****Diatomeae Dumortier 1821																								
27	<i>Melosira nummuloides</i> C.Agardh 1824	7g-j																	*					
28	<i>Paralia</i> sp.	8k																+						
29	<i>Podosira stelligera</i> (Bailey) A.Mann 1907	7k								*	*													
30	<i>Chaetoceros</i> sp.1	7d,e																	+	+	*			
31	<i>Chaetoceros</i> sp.2	7f											+					+						
32	<i>Cyclotella choctawhatcheeana</i> Prasad 1990	7a,b	+	+	+	+	+	+								+		+	+	+	+	+		
33	<i>Cyclotella meneghiniana</i> Kützing 1844	7c																	*					
34	<i>Amphora micrometra</i> M.H.Giffen 1967	8s,t	*	*												*			*					

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			0	0.5	1	1.5	2	2.5	3	3.1	3.5	4	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5
35	<i>Cocconeis placentula</i> Ehrenberg 1838	8r										+										
36	<i>Cocconeis placentula</i> var. <i>euglypta</i> (Ehrenberg) Cleve 1895	8q										+										
37	<i>Entomoneis paludosa</i> var. <i>subsalina</i> (Cleve) Krammer 1987	8o										*	*	+	+							
38	<i>Gomphonema parvulum</i> (Kützing) Kützing 1849	8p	*	*																		
39	<i>Martyana atomus</i> (Hustedt) Snoeijs 1991	8a										+								*		
40	<i>Nanofrustulum trainorii</i> (E.Morales) E.Morales 2019	8b	+	+	+	+	+	+				+			+							+
41	<i>Navicula antonii</i> Lange-Bertalot 2000	9a										+			+							
42	<i>Navicula gregaria</i> Donkin 1861	9b										+										
43	<i>Navicula</i> sp.	9c	+	+																		
44	<i>Nitzschia microcephala</i> Grunow 1880	8l																			*	
45	<i>Nitzschia paleacea</i> (Grunow) Grunow 1881	8h							*	*												
46	<i>Nitzschia sigma</i> (Kützing) W.Smith 1853	8f,g										+										
47	<i>Planothidium</i> sp.	8i,j,m,n										+									*	
48	<i>Pseudostaurosira</i> cf. <i>elliptica</i> (Schumann) Edlund et al. 2006	8c,d										+									*	
49	<i>Staurosirella pinnata</i> (Ehrenberg) D.M.Williams et Round 1988	8e										+										
50	<i>Gyrosigma</i> sp.	9g										+										+
51	<i>Cylindrotheca closterium</i> (Ehrenberg) Reimann & J.C.Lewin 1964	9f										+										
52	<i>Surirella striata</i> Leuduger-Fortmorel 1879	9d										+										

*****Dictyochophyceae Silva 1980

*****Pedinellales Zimmermann et al. 1984

53	<i>Actinomonas mirabilis</i> Kent 1880	3b	+	+	+	+	+	+												*		
54	<i>Pteridomonas danica</i> Patterson and Fenchel 1985	3a														*	*	*	*	*	*	*

*Alveolata Cavalier-Smith 1991

**Ciliophora Doflein 1901

***Intramacronucleata Lynn 1996

****CONTHREEP Lynn in Adl et al. 2012

*****Oligohymenophorea de Puytorac et al. 1974

55	<i>Cyclidium</i> sp.	6e														*			+	+	+	*	+
56	<i>Uronema</i> sp.	6c																					+
57	<i>Vorticella</i> sp.															*							

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			0	0.5	1	1.5	2	2.5	3	3.1	3.5	4	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5
****Prostomatea Schewiakoff 1896																						
58	<i>Prorodon</i> sp.	6f								+	+	*	*	*								
****Plagiopylea Small & Lynn 1985																						
59	<i>Plagiopyla</i> sp.	6b								*	*	*	*									
****SAL Gentekaki et al. 2014																						
****Spirotrichea Butschli 1889																						
60	<i>Oxytricha</i> sp.	6h															*					
61	<i>Euplates</i> sp.	6g																		+		
****Lamellicorticata Vd'ačny et al. 2010																						
****Armophorea Lynn 2004																						
62	<i>Metopus</i> sp.	6a											*									
Incertae sedis SAL: Mesodiniidae Jankowski, 1980																						
63	<i>Mesodinium</i> sp.	6d															+	*		+	*	
**Colponemida Cavalier-Smith 1993 emend. Adl et al. 2019																						
***Oxyrrhis Dujardin 1841																						
64	<i>Oxyrrhis marina</i> Dujardin 1841	5d, e											*	*					+	+	+	+
**Dinoflagellata Butschli 1885, emend. Fensome et al. 1993, emend. Adl et al. 2005																						
***Dinophyceae Pascher 1914																						
65	<i>Gymnodinium</i> sp.	5c								+	+	+						+	+	*		
66	<i>Amphidinium crassum</i>	5b																				*
67	<i>Prorocentrum</i> sp.	5a															+					
68	<i>Scrippsiella trochoidea</i>	5f, g								+	+	+	+					+	+			
*Rhizaria Cavalier-Smith 2002																						
**Cercozoa Cavalier-Smith 1998, emend. Adl et al. 2005; emend. Cavalier-Smith 2018																						
***Glissomonadida Howe & Cavalier-Smith 2009																						
****Bodomorphidae Hollande 1952, emend. Cavalier-Smith in Howe et al. 2009																						
69	<i>Bodomorpha reniformis</i> (Zhukov, Mylnikov & Moiseyev) Mylnikov & Karpov 2004																				*	
***Imbricatea Cavalier-Smith 2011																						
***Silicofilosea Adl et al. 2005, emend. Adl et al. 2012																						
****Euglyphida Copeland 1956, emend. Cavalier-Smith 1997																						
****Cyphoderiidae de Saedeleer 1934																						
70	<i>Cyphoderia</i> aff. <i>littoralis</i> Golemansky 1973	4g-i																		*		
***Thecofilosea Cavalier-Smith 2003, emend. Cavalier-Smith 2011																						
***Ebriacea Lemmermann 1901																						
71	<i>Ebria tripartita</i> (Shumann) Lemmermann 1899	3f	+	+	+	+	+	+		*		*	*	+	+	*	+	*				

