

Collection of living diatom cultures of Limnological Institute SB RAS, its trends and potentials using

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Table S1. Monocultures of diatoms from the collection of the Department of Cell Ultrastructure of the LIN SB RAS (data as of November 2022)

No	Strain ID	Sampling location		Sampling date	Date of obtaining of monoculture	Genus/species of monoculture	DNA sample
1	BZ 12	Lake Baikal	Barguzinsky Bay	08.09.2017	16.09.2017	<i>Asterionella formosa</i> Hassall	
2	BZ 33	Lake Baikal	Barguzinsky Bay	08.09.2017	16.09.2017	<i>Asterionella formo</i> W	+
3	Sl 481		Yenisey River	05.06.2019	07.06.2019	<i>Aulacoseira islandica</i> (O. Müller) Simonsen	
4	SH 504		Yenisey River	05.06.2019	07.06.2019	<i>Aulacoseira islandica</i> (O. Müller) Simonsen	+
5	3 Mr 553	Lake Baikal	3 km from Marituy	06.06.2021	07.06.2021	<i>Aulacoseira islandica</i> (O. Müller) Simonsen	+
6	H256	Lake Baikal	Selenga River, Kharauz channel	September 2012	September 2012	<i>Achnanthisdium sibiricum</i> Kulikovskiy, Lange-Bertalot, Witkowski et Khursevich	+
7	Ov 455		Yenisey River	02.06.2019	04.06.2019	<i>Achnanthisdium affine</i> (Grunow) Czarnecki	+
8	Ov 456		Yenisey River	02.06.2019	04.06.2019	<i>Achnanthisdium affine</i> (Grunow) Czarnecki	+
9	Ov 457		Yenisey River	02.06.2019	04.06.2019	<i>Achnanthisdium affine</i> (Grunow) Czarnecki	+
10	BG 529	Lake Baikal	Near the village Bolshoye Goloustnoye	02.06.2021	07.06.2021	<i>Achnanthisdium affine</i> (Grunow) Czarnecki	+
11	Ov 466		Yenisey River	02.06.2019	04.06.2019	<i>Amphipleura</i> sp.	+
12	L 237	Lake Baikal	Listvennichnyi Bay	29.03.2018	01.04.2018	<i>Ellerbeckia arenaria</i> f. <i>teres</i> (Brun) Crawford	
13	Ov 459		Yenisey River	02.06.2019	04.06.2019	<i>Encyonema minutum</i> (Hilse) D.G. Mann	+
14	Ov 460		Yenisey River	02.06.2019	04.06.2019	<i>Encyonema silesiacum</i> (Bleisch) D.G. Mann	+
15	Ov515		Yenisey River	05.06.2019	07.06.2019	<i>Encyonema silesiacum</i> (Bleisch) D.G. Mann	
16	B 567	Lake Baikal	Near Baikalsk, silt from a depth of 12 m	September 2021	September 2021	<i>Encyonema ventricosum</i> (C.Agardh) Grunow	
17	S-Y 610	Lake Baikal	Solnechnaya-Ushkany (middle of the section)	23.03.2022	26.03.2022	<i>Encyonema ventricosum</i> (C.Agardh) Grunow	
18	LAB26		Lake Labyntyr	07.06.2017	18.06.2017	<i>Fragilaria capucina</i> Desmazières	
19	5 KH 546	Lake Baikal	5 km from Kharauz	15.10.2020	07.11.2020	<i>Fragilaria crotonensis</i> Kitton	

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No	Strain ID	Sampling location		Sampling date	Date of obtaining of monoculture	Genus/species of monoculture	DNA sample
20	ChZ 555	Lake Baikal	Chivyrkuisky Bay	06.09.2020	07.09.2020	<i>Fragilaria crotonensis</i> Kitton	+
21	MM144	Lake Baikal	Strait Olkhon Gates	14.03.2018	16.03.2018	<i>Fragilaria radians</i> (Kütz.) Williams & Round	+
22	BK146	Lake Baikal	2.5 km from the village Bolshiye Koty	10.04.2018	11.04.2018	<i>Fragilaria radians</i> (Kütz.) Williams & Round	+
23	L150	Lake Baikal	Listvennichnyi Bay	26.03.2018	27.03.2018	<i>Fragilaria radians</i> (Kütz.) Williams & Round	+
24	MM239	Lake Baikal	Olkhon Gates Strait	14.03.2018	15.03.2018	<i>Fragilaria radians</i> (Kütz.) Williams & Round	+
25	MM246	Lake Baikal	Olkhon Gates Strait	14.03.2018	15.03.2018	<i>Fragilaria radians</i> (Kütz.) Williams & Round	+
26	BK 487	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Fragilaria radians</i> (Kütz.) Williams & Round	
27	BK 489	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Fragilaria radians</i> (Kütz.) Williams & Round	+
28	BK 490	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Fragilaria radians</i> (Kütz.) Williams & Round	
29	L 547	Lake Baikal	Listvennichnyi Bay	20.04.2021	20.04.2021	<i>Fragilaria radians</i> (Kütz.) Williams & Round	
30	L 548	Lake Baikal	Listvennichnyi Bay	20.04.2021	20.04.2021	<i>Fragilaria radians</i> (Kütz.) Williams & Round	
31	T-N 578	Lake Baikal	Tyya - Nemnyanka (middle of the section)	22.03.2022	25.03.2022	<i>Fragilaria radians</i> (Kütz.) Williams & Round	
32	Ykh-T 580	Lake Baikal	Ukhan - Tonkiy (middle of the section)	20.03.2022	25.03.2022	<i>Fragilaria radians</i> (Kütz.) Williams & Round	
33	KH-K 583	Lake Baikal	Khoboy - Krestoviy (middle of the section)	20.03.2022	25.03.2022	<i>Fragilaria radians</i> (Kütz.) Williams & Round	
34	M-S 586	Lake Baikal	Marituy - Solzan (middle of the section)	17.03.2022	25.03.2022	<i>Fragilaria radians</i> (Kütz.) Williams & Round	
35	BK479	Lake Baikal	2.5 km from the village Bolshiye Koty	04.012.2019	05.12.2019	<i>Hannaea baicalensis</i> Genkal, Popovskaya & Kulikovskiy	+
36	2.5 BK 576	Lake Baikal	2.5 km from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Nitzschia graciliformis</i> Lange-Bertalot & Simonsen	+
37	BK 611	Lake Baikal	2.5 km from the village Bolshiye Koty	18.05.2022	25.03.2022	<i>Nitzschia graciliformis</i> Lange-Bertalot & Simonsen	
38	3 D 619	Lake Baikal	3 km from Davsha	29.09.2022	03.10.2022	<i>Nitzschia dissipata</i> (Kützing) Rabenhorst	
39	SEL 563	Lake Baikal	Selenga River	06.03.2021	08.06.2021	<i>Staurosirella</i> sp.	
40	SEL 564	Lake Baikal	Selenga River	06.03.2021	08.06.2021	<i>Staurosira elliptica</i> (Schumann) Cleve & Möller	+
41	3 Mr 554	Lake Baikal	3 km from Marituy	06.06.2021	07.06.2021	<i>Stephanodiscus meyeri</i> Genkal & Popovskaya	
42	BZ 2	Lake Baikal	Barguzinsky Bay	08.09.2017	16.09.2017	<i>Ulnaria acus</i> (Kützing) Aboal	
43	LAB18		Lake Labyntyr	07.06.2017	18.06.2017	<i>Ulnaria acus</i> (Kützing) Aboal	
44	BZ 43	Lake Baikal	Barguzinsky Bay	08.09.2017	17.09.2017	<i>Ulnaria acus</i> (Kützing) Aboal	
45	LAB53		Lake Labyntyr	07.06.2017	18.06.2017	<i>Ulnaria acus</i> (Kützing) Aboal	
46	LAB60		Lake Labyntyr	07.06.2017	18.06.2017	<i>Ulnaria acus</i> (Kützing) Aboal	
47	LAB62		Lake Labyntyr	07.06.2017	18.06.2017	<i>Ulnaria acus</i> (Kützing) Aboal	
48	LAB63		Lake Labyntyr	07.06.2017	18.06.2017	<i>Ulnaria acus</i> (Kützing) Aboal	
49	MM98	Lake Baikal	Olkhon Gates Strait	14.03.2018	15.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	+
50	MM118	Lake Baikal	Maloye More Strait (center)	13.03.2018	15.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	

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51	L7 124	Lake Baikal	7 km from Listvyanka	26.03.2018	27.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
52	L7 125	Lake Baikal	7 km from Listvyanka	26.03.2018	27.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
53	L7 126	Lake Baikal	7 km from Listvyanka	26.03.2018	27.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
54	L7 130	Lake Baikal	7 km from Listvyanka	26.03.2018	27.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
55	PB177	Lake Baikal	Listvennichnyi Bay (Port Baikal)	22.03.2018	23.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
56	L 180	Lake Baikal	Listvennichnyi Bay (Baikal Museum)	29.03.2018	01.04.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
57	L-T198	Lake Baikal	Listvyanka - Tankhoy (middle of the section)	26.03.2018	27.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
58	L-T199	Lake Baikal	Listvyanka - Tankhoy (middle of the section)	26.03.2018	27.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
59	L-T200	Lake Baikal	Listvyanka - Tankhoy (middle of the section)	26.03.2018	27.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
60	L-T203	Lake Baikal	Listvyanka - Tankhoy (middle of the section)	26.03.2018	27.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
61	MM244	Lake Baikal	Olkhon Gates Strait	14.03.2018	15.03.2018	<i>Ulnaria acus</i> (Kützing) Aboal	+
62	AnS269	Lake Baikal	Anga - Sukhaya (middle of the section)	29.05.2018	13.06.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
63	MS278	Lake Baikal	Marituy - Solzan (middle of the section)	26.05.2018	13.06.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
64	15K292	Lake Baikal	15 km from Kultuk	06.05.2018	14.06.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
65	Bg299	Lake Baikal	Buguldeyka River	28.05.2018	14.06.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
66	3B327	Lake Baikal	3 km from Baykalskoye	03.06.2018	15.06.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
67	3D338	Lake Baikal	3 km from Davsha	27.07.2018	15.08.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
68	MM353	Lake Baikal	Khuzhir Bay	15.07.2018	15.08.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
69	3B357	Lake Baikal	3 km from Baykalskoye	03.06.2018	15.08.2018	<i>Ulnaria acus</i> (Kützing) Aboal	+
70	MM359	Lake Baikal	Nyurgan Bay	14.07.2018	15.08.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
71	BP399	Lake Baikal	Peschanaya Bay	12.07.2018	15.08.2018	<i>Ulnaria acus</i> (Kützing) Aboal	
72	Kh 451	Lake Baikal	3 km from Kharauz	13.03.2019	16.04.2019	<i>Ulnaria acus</i> (Kützing) Aboal	
73	BK 453	Lake Baikal	200 m from the village Bolshiye Koty	13.03.2019	16.04.2019	<i>Ulnaria acus</i> (Kützing) Aboal	
74	BK 494	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Ulnaria acus</i> (Kützing) Aboal	
75	BK 495	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Ulnaria acus</i> (Kützing) Aboal	+
76	BK 497	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Ulnaria acus</i> (Kützing) Aboal	+
77	BK 498	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Ulnaria acus</i> (Kützing) Aboal	
78	BK 499	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Ulnaria acus</i> (Kützing) Aboal	
79	L 549	Lake Baikal	Listvennichnyi Bay	20.04.2021	20.04.2021	<i>Ulnaria acus</i> (Kützing) Aboal	
80	5KH 557	Lake Baikal	5 km from Kharauz	06.06.2021	07.06.2021	<i>Ulnaria acus</i> (Kützing) Aboal	

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81	5KH 560	Lake Baikal	5 km from Kharauz	06.06.2021	07.06.2021	<i>Ulnaria acus</i> (Kützing) Aboal	
82	5KH 561	Lake Baikal	5 km from Kharauz	06.06.2021	07.06.2021	<i>Ulnaria acus</i> (Kützing) Aboal	
83	SEL 562	Lake Baikal	Selenga River	06.03.2021	08.06.2021	<i>Ulnaria acus</i> (Kützing) Aboal	
84	SEL 566	Lake Baikal	Selenga River	06.03.2021	08.06.2021	<i>Ulnaria acus</i> (Kützing) Aboal	
85	B-T 577	Lake Baikal	Baykalskoye - Turali (middle of the section)	21.03.2022	25.03.2022	<i>Ulnaria acus</i> (Kützing) Aboal	
86	12 K 587	Lake Baikal	15 km from Kultuka	17.03.2022	25.03.2022	<i>Ulnaria acus</i> (Kützing) Aboal	
87	SH 465	Yenisey River		02.06.2019	04.06.2019	<i>Ulnaria acus</i> (Kützing) Aboal	
88	LAB31	Lake Labyntyr		07.06.2017	18.06.2017	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
89	BZ251	Lake Baikal	Barguzinsky Bay	08.09.2017	15.09.2017	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	+
90	BZ264	Lake Baikal	Barguzinsky Bay	08.09.2017	15.09.2017	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	+
91	ChZ442	Lake Baikal	Chivyrkuisky Bay	23.09.2018	30.10.2018	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	+
92	BK 486	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
93	BK 488	Lake Baikal	2.5 km from the village Bolshiye Koty	27.02.2020	29.02.2020	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
94	BK 493	Lake Baikal	2.5 km from the village Bolshiye Koty	28.02.2020	29.02.2020	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
95	ChZ424	Lake Baikal	Chivyrkuisky Bay	23.09.2018	30.10.2018	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
96	ChZ425	Lake Baikal	Chivyrkuisky Bay	23.09.2018	30.10.2018	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
97	KrYar-Kh 525	Lake Baikal	Krasniy Yar - Kharauz (middle of the section)	06.09.2020	07.09.2020	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
98	3D 532	Lake Baikal	3 km from Davsha	06.09.2020	07.09.2020	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
99	3D 533	Lake Baikal	3 km from Davsha	06.09.2020	07.09.2020	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
100	3KH 536	Lake Baikal	3 km from Kharauz	06.06.2021	07.06.2021	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
101	3KH 538	Lake Baikal	3 km from Kharauz	06.06.2021	07.06.2021	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
102	3 D 539	Lake Baikal	3 km from Davsha	06.09.2020	07.09.2020	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
103	ChZ 540	Lake Baikal	Chivyrkuisky Bay	06.09.2020	07.09.2020	<i>Ulnaria danica</i> (Kützing) Compère & Bukhtiyarova	
104	2.5 BK 568	Lake Baikal	2.5 km from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Ulnaria</i> sp.	
105	2.5 BK 569	Lake Baikal	2.5 km from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Ulnaria</i> sp.	
106	2.5 BK 570	Lake Baikal	2.5 km from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Ulnaria</i> sp.	
107	2.5 BK 571	Lake Baikal	2.5 km from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Ulnaria</i> sp.	

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108	BK 572	Lake Baikal	50 m from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Ulnaria</i> sp.	
109	BK 573	Lake Baikal	50 m from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Ulnaria</i> sp.	
110	BK 574	Lake Baikal	50 m from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Ulnaria</i> sp.	
111	2.5 BK 575	Lake Baikal	2.5 km from the village Bolshiye Koty	05.04.2022	07.04.2022	<i>Ulnaria</i> sp.	
112	T-N579	Lake Baikal	Tyya - Nemnyanka (middle of the section)	22.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
113	Ykh-T581	Lake Baikal	Ukhan - Tonkiy (middle of the section)	20.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
114	MM 582	Lake Baikal	Maloye More Strait (center)	23.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
115	BK 584	Lake Baikal	2.5 km from the village Bolshiye Koty	18.05.2022	25.03.2022	<i>Ulnaria</i> sp.	
116	B-T 585	Lake Baikal	Baykalskoye - Turali (middle of the section)	21.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
117	12 K 588	Lake Baikal	15 km from Kultuk	17.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
118	12 K 589	Lake Baikal	15 km from Kultuk	17.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
119	MM 590	Lake Baikal	Maloye More Strait (center)	23.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
120	MM 591	Lake Baikal	Maloye More Strait (center)	23.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
121	MM 592	Lake Baikal	Maloye More Strait (center)	23.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
122	C-Y 593	Lake Baikal	Solnechnaya-Ushkany (middle of the section)	23.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
123	Y-T 594	Lake Baikal	Ukhan - Tonkiy (middle of the section)	20.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
124	12 K 595	Lake Baikal	15 km from Kultuk	17.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
125	KH-K 596	Lake Baikal	Khoboy - Krestoviy (middle of the section)	20.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
126	KH-K 597	Lake Baikal	Khoboy - Krestoviy (middle of the section)	20.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
127	K-A 598	Lake Baikal	Kotelnikovskiy – Amnundakan (middle of the section)	22.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
128	K-A 599	Lake Baikal	Kotelnikovskiy – Amnundakan (middle of the section)	22.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
129	L-T 600	Lake Baikal	Listvyanka - Tankhoy (middle of the section)	18.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
130	L-T 601	Lake Baikal	Listvyanka - Tankhoy (middle of the section)	18.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
131	L-T 602	Lake Baikal	Listvyanka - Tankhoy (middle of the section)	18.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
132	L-T 604	Lake Baikal	Listvyanka - Tankhoy (middle of the section)	18.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
133	B-T 605	Lake Baikal	Baykalskoye - Turali (middle of the section)	21.03.2022	25.03.2022	<i>Ulnaria</i> sp.	

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134	K-A 606	Lake Baikal	Kotelnikovskiy – Amnundakan (middle of the section)	22.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
135	Mar-S 607	Lake Baikal	Marituy - Solzan (middle of the section)	17.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
136	MM 609	Lake Baikal	Maloye More Strait (center)	23.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
137	M-S 612	Lake Baikal	Marituy - Solzan (middle of the section)	17.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
138	3 T 613	Lake Baikal	3 km from Tankhoy	18.03.2022	26.03.2022	<i>Ulnaria</i> sp.	
139	3 T 614	Lake Baikal	3 km from Tankhoy	18.05.2022	25.03.2022	<i>Ulnaria</i> sp.	
140	KrYar-Kh 615	Lake Baikal	Krasniy Yar - Kharauz (middle of the section)	20.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
141	3Uh 616	Lake Baikal	3 km from Ukhan	20.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
142	3 T 617	Lake Baikal	3 km from Tankhoy	18.05.2022	25.03.2022	<i>Ulnaria</i> sp.	
143	T -S 618	Lake Baikal	Tolstiy - Snezhnaya (middle of the section)	20.03.2022	25.03.2022	<i>Ulnaria</i> sp.	
144	Ov 552	Yenisey River		05.06.2019	07.06.2019	sp. (benthos)	