

**THE DIATOM FLORA AND VEGETATION  
OF LAKE BALATON FROM SEDIMENT CORES  
ACCORDING TO MÁRTA HAJÓS'S LEGACY**

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The diatoms of bottom sediment core samples were studied from Lake Balaton. During the 1980s altogether 33 boreholes were drilled into the Quaternary layers down to 10–12 m. This paper presents the diatom flora and vegetation of 17 boreholes based on the legacy of Márta Hajós who spent 16 years working on this subject. The enumeration contains occurrences of 385 diatom taxa. It is hoped that this scientific account will serve as a “diatom databank” and helps better understanding of recent environmental changes in the larger area.

Key words: diatoms, Hungary, Lake Balaton, palaeolimnology, shallow lakes

**INTRODUCTION**

Diatoms are unicellular algae belonging to the class Bacillariophyceae and are sensitive indicators of environmental changes. They have been successfully used to monitor disturbances like eutrophication, changes to the physical and chemical properties of water as well as fluctuation of water level (Stoermer and Smol 1999). Diatoms are particularly useful, because they are often well preserved in lake sediments and have frequently been used for long-term environmental monitoring.

Many diatom-based studies have focused on arctic treeline lakes in Europe and Canada (reviewed in Lotter *et al.* 1999, Ponader *et al.* 2002), though there are only a few available data from continental shallow lakes (e.g. Brenner *et al.* 1999).

Lake Balaton is one of the well-known and thoroughly studied shallow lakes of the world, as well as from algological point of view. In the past 150 years a number of excellent algologists conducted high-level investigation in their respective times.

The algological literature dealing with Lake Balaton is very extensive, but it is not the aim of the present article to summarise it. We only refer to Padisák's paper, who made a complete overview of the algological results from 1981 until 1996 (Padisák 1997).

The accumulative knowledge about the diatoms of Lake Balaton has got two milestones. The first one is Josef Pantocsek's monograph published in 1901. With 378 figures on 17 tables the book is a masterpiece which combined high-level visual documentation and detailed description of 363 taxa. One-hundred twenty of these were new for science. It should be noted though that some of the taxa were collected from ponds, springs close to Lake Balaton, and from other lakes e.g. Lake Fertő and Sóstó at Fehérvár.

The second one is an attempt to summarise our knowledge about the diatoms of Lake Balaton, published by Gábor Szemes (Szemes 1957). In this paper, spatial and time patterns of 516 diatom taxa, as well as their life forms are discussed. Szemes made some taxonomic treatments and has promised making additional revisions of Pantocsek's taxa; unfortunately, this revision not achieved.

A later contribution to the knowledge of the diatoms of the lake was accomplished by Tamás (i.e. Tamás 1963, 1964, Tamás and Gellért 1958).

The systematic study of microphytobentos was also begun by Tamás (Tamás 1966) who continued her work for a decade (Tamás 1967, 1968, 1971, 1974). Her approach was followed by Uherkovich, who presented the algal vegetation of the sediment surface of Lake Balaton and contributed several excellent illustrations to the knowledge of the algal flora of the lake (Uherkovich and Lantos 1987, Uherkovich 1988, 1992, 1996).

## Background

In 1981, the Geological Institute of Hungary (MÁFI) initiated a comprehensive survey of the geology of Lake Balaton. Altogether 33 boreholes (Fig. 1) were drilled into the Quaternary layers down to 10–12 m. The Holocene mud thickness was 5 m in average. Up to 1986, 17 boreholes were drilled, and later (in 1989) another 16 boreholes (Tó-18–33) ones for studying the geological history and lacustrine sedimentary process (Cserny and Nagy-Bodor 2000, Cserny 2002).

In some cases thick peat layers were identified in the uniform calcareous mud (e.g. borehole Tó-17 and -20). These peat layers encountered at the bottom of the Holocene complex were  $^{14}\text{C}$  dated as 10,000–12,500 years B.P. (Cserny *et al.* 1991a, b, Cserny and Nagy-Bodor 2000, Cserny 2002).

The floristical survey and listing of the diatoms was conducted by Márta Hajós for many years. However, only one of the drillings (borehole Tó-24) had been published in her lifetime (Cserny et al. 1991*a, b*). Five boreholes (Tó-9, -11, -13, 15–16) were analysed by E. Kőváry-Gulyás as Márta Hajós's Ph.D. student. Kőváry-Gulyás's results are available only in manuscript. Boreholes Tó-1 and -25 were studied by K. Buczkó, the results will be published later.

This paper wishes to present the results of Márta Hajós's documentation, by certifying the lists according to boreholes and permanent diatom slides. This account will hopefully provide basis for later taxonomic and floristical studies, and assist planning of future work, e.g. identifying the most promising places for drilling. It is also hoped that the data presented here will be a useful reference for subsequent complex analyses.

The changes in diatom taxonomy and the uncertainties of this field have also made an impetus to make this account available. The hundreds of new taxa published in the past 10 or so years have brought substantial refinement in the diatom taxonomy (see e.g. series *Bibliotheca Diatomologica* and the series of *Diatoms of Europe*). Moreover, the genetic approach will bring a new wave of treatments in this field, so maybe this paper can be regarded as closing of the 20th century's diatom taxonomy in the case of Lake Balaton.

The first author of this paper had been in work connection with Márta Hajós from 1989 until her death. In this enumeration we accepted M. Hajós's taxonomic views, who followed Pantocsek's concept (instead of that of Krammer and Lange-Bertalot, but the basis of the identification were the 4 volumes of the *Süßwasserflora* series (Krammer and Lange-Bertalot 1986, 1988, 1991*a, b*)).

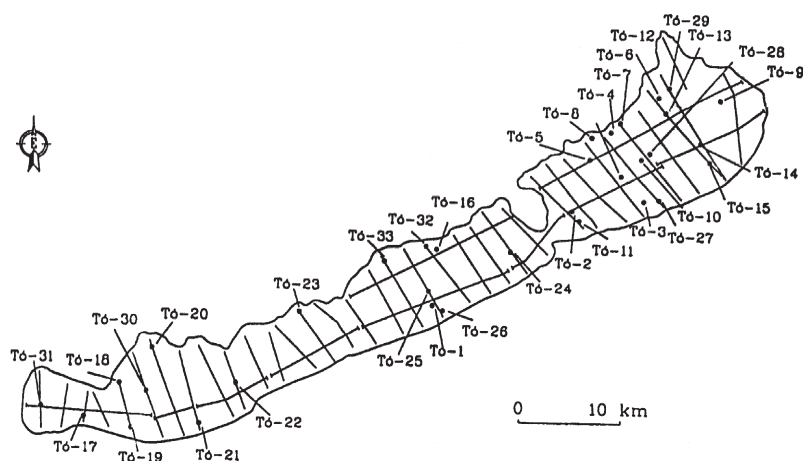


Fig. 1. Locations of the boreholes in Lake Balaton

Table 1

A summary table of the diatom studies of the boreholes from lake Balaton drilled between 1981 and 1989

Bore-hole	Studied by	Depth of borehole (m)	Serial number of slides	Photo documentation (serial No. of negative)	Sum of the taxa in the borehole	The year of study
Tó-1	K. Buczkó					
Tó-2						
Tó-3						
Tó-4	M. Hajós	2.40–0.20	5523–5533	897	112	1995
Tó-5	M. Hajós	2.45–0.05	8379–8385		131	1994
Tó-6						
Tó-7	M. Hajós	2.10–0.00	8386–8403		110	1994
Tó-8	M. Hajós	2.2–0.10	8404–8410		109	1994
Tó-9	Kőváry-Gulyás					
Tó-10						
Tó-11	M. Hajós and Kőváry-Gulyás	4.25–0.20	5559–5539	898	148	1995
Tó-12						
Tó-13	Kőváry-Gulyás					
Tó-14						
Tó-15	Kőváry-Gulyás					
Tó-16	Kőváry-Gulyás					
Tó-17	M. Hajós	3.40–0.00	7551–7630	876–879	139	1992
Tó-18						
Tó-19						
Tó-20	M. Hajós	3.00–0.00	6609–6719	862–864	144	1991
Tó-21	M. Hajós	2.00–0.00	6998–7090 7335–7351	865–869	163	1991
Tó-22	M. Hajós	3.50–0.50	7260–7333	873–875	159	1991
Tó-23	M. Hajós	6.92–0.00	7093–7228	888	218	1993
Tó-24	published earlier by M. Hajós					1990
Tó-25	K. Buczkó					1989?
Tó-26	M. Hajós	1.90–0.00	7364–7401	878–880	138	1992
Tó-27	M. Hajós	1.65–0.00	7457–7489		140	1992
Tó-28	M. Hajós	2.63–0.00	6465–6412		84	1991
Tó-29	M. Hajós	8.42–0.00	7790–7976		131	1992
Tó-30	M. Hajós	4.03–0.08	7643–7717; 7498–7504; 7925–7928	881–886	193	1992
Tó-31	M. Hajós	5.80–0.30	6782–6875	859–860	104	1991
Tó-32						
Tó-33	M. Hajós	4.60–0.02	7922–8045	894	152	1994

## MATERIAL AND METHODS

According to the workbooks the diatom slides were prepared by the following cleaning methods: the samples were first treated with HCl solution, and then digested by hydrogen peroxide. The name of the mounting medium used has not turned out until now.

In the workbooks the following groups are also mentioned: Chrysophyta stomatocysts, Chlorophyta spp., Siderocelis sp., Phytolitharia (Lithodontium, Lithostylidium, Lithodesmites, Porifera, Oxea, Isochela). Some more details (quantitative data) are also available about the groups mentioned above, but they are not presented here.

All diatom identification, taxonomy and enumeration followed Krammer and Lange-Bertalot (1986, 1988, 1991*a, b*) and Pantocsek (1901).

The main features of samples, including the depth, the serial number of permanent diatom slides, the sum of identified valves in a certain slide, and the number of taxa Tables 2 to 18 present. Usually we give the serial number of permanent diatom slide, but sometimes from the workbooks it is not certain, what data correspond to what slides, since they appear as summed-up values (e.g. borehole Tó-17 7558–7560). In some cases the merger affected long sections e.g. borehole Tó-23, where a 70 cm long section was handled as a single item.

A sample key has been introduced in order to find the relative abundance of each taxon both in the tables and enumeration.

As an example the data structure of Table 2 about the borehole Tó-4 is given, where data about the permanent slide no 5527 is found. Altogether 1008

Table 2  
Data of the "Borehole Tó-4"

Depth (m)	2.4	2	1.8	1.6	1.4	1.2	1	0.8	0.6	0.4	0.2
No. of slide(s)	5533	5531	5530	5529	5528	5527	5526	5525	5524	5523	5523
Total valves	111	18	530	564	467	1008	364	596	809	573	1134
No. of taxa	19	6	33	41	32	40	22	35	45	32	20

Table 3  
Data of the "Borehole Tó-5"

Depth bottom	2.45	2.15	1.75	1.35	0.95	0.55	0.15
Depth top	2.40	2.05	1.65	1.25	0.85	0.45	0.05
No. of slide(s)	8379	8380	8384	8382	8383	8384	8385
Total valves	875	861	448	451	529	420	570
No. of taxa	43	38	45	40	37	43	39

Table 4  
Data of the "Borehole Tó-7"

Depth top	2.10	1.95	1.80	1.65	1.25	0.85	0.45	0.00
Depth bottom	2.05	1.90	1.85	1.75	1.35	0.95	0.55	0.15
No. of slide(s)	8386	8387	8388	8389	8400	8401	8402	8403
Total valves	711	569	628	661	745	464	657	531
No. of taxa	13	21	35	41	41	37	35	44

Table 5  
Data of the "Borehole Tó-8"

Depth bottom	2.2	2.15	1.75	1.35	0.95	0.55	0.15
Depth top		2.05	1.65	1.25	0.85	0.45	0.10
No. of slide(s)	8404	8405	8406	8407	8408	8049	8410
Total valves	623	663	165	445	551	425	462
No. of taxa	30	25	25	26	39	36	33

specimens were counted on that slide, so  $10/1008 = 0.010$  is the relative abundance of *A. clevei* at 1.2 m depth. In the upper section, at 0.8 m the relative abundance of *A. clevei* is  $15/596 = 0.025$ , on slide no 5525. The third occurrence of *A. clevei* in borehole Tó-4 is at 0.6 m, where the relative abundance of this taxon is  $0.033 (= 27/809)$ , on slide no 5524.

Following this the conceptual framework of data sets in enumeration is illustrated: e.g. *Achnanthes clevei* Grun. – Tó-4 5527:10, 5525:15, 5524:27; Tó-7 8388:8, 8402:2, 8403:8 ...

This data sequence means that *Achnanthes clevei* was found in borehole Tó-4. In slide 5527, and altogether 10 specimens were counted.

In borehole Tó-7 the relative abundances of *Achnanthes clevei* are  $0.0127 (= 8/628)$  between 1.85 and 1.80 m;  $0.0030 (= 2/657)$  between 0.55 and 0.45 m; and  $0.0151 (= 8/531)$  at the sediment surface, between 0.15 and 0.00 m.

The data sheet was made in Excel file, which has a size exceeding the limits of this publication. This file is available upon request to interested researchers.

## RESULTS

Altogether 385 taxa were identified on species, variety or form level. Specimens identified only at genus level (e.g. *Achnanthes* sp., *Amphora* sp.) are not listed in the enumeration at all, since they have no floristic importance. However, these are included in the "No. of taxa" of the samples, as their occurrences contribute to the diversity of the algal assemblages.

Table 6  
Data of the "Borehole Tó-11"

Depth	4.25	3.8	3.8	3.6	3	2.8	2.6	2.4	2.2	2	1.8	1.6	1.4	1.2	1	0.8	0.6	0.4	0.2
No. of slide(s)	5559	5556	5555	5555	5553	5552	5551	5550	5549	5548	5547	5546	5545	5544	5543	5542	5541	5540	5539
Total valves	668	403	162	282	429	362	334	423	575	330	461	313	366	612	531	456	543	883	
No. of taxa	52	37	25	36	30	27	26	28	39	34	40	29	34	29	33	26	22	27	

Table 7

Data of the "Borehole Tó-17". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)																						
DB	3.4	3.33	3.3	3.23	3.2	3.16	3.03	3.03	2.97	2.85	2.7	2.15	1.8	1.75	1.6	1.5	1.23	1.1	0.6	0.4	0.3	0.2
DT	3.36	3.3	3.26	3.2	3.16	3.06	3.06	2.97	2.93	2.75	2.4	2	1.75	1.6	1.5	1.3	1.1	0.9	0.4	0.3	0.2	0
NS	7551	7563	7564	7566	7567	7558-	7561	7562,	7564	7567-	7570,	7581-	7588	7589-	7592-	7595-	7603-	7607-	6713-	7622-	7625-	7628-
						7560		7576		7568	7571,	7583		7591	7594	7600	7606	7612	7618	7624	7627	7630
TV	35	172	74	48		540	200	939	20	231	104	530	40	20	806	379	130	818	456	579	244	557
NT	7	19	9	7	3	24	21	47	4	5	5	20	2	4	45	22	20	35	42	38	20	23

Table 8

Data of the "Borehole Tó-20". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)																						
DB	3	2.96	2.83	2.66	2.63	2	1.95	1.9	1.76	1.43	1.23	1	0.83	0.62	0.54	0.45	0.4	0.4	0			
DB	2.96	2.9	2.8	2.63	2.55	1.96	1.9	1.86	1.73	1.36	1.2	0.96	0.79	0.58	0.45	0.4	0					
NS	6618	6619	6623	6628	6629-	6631	6633	6634	6641	6661	6670	6681	6691	6701	6707	6709	6719					
					6630																	
TV	724	796	606	484	298	565	230	145	606	196	170	223	255	213	373	332	155					
NT	12	20	16	76	57	72	46	16	36	17	17	29	31	23	18	18	13					

Table 9

Data of the "Borehole Tó-21". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DT	2	1.8	1.73	1.5	1.4	1.3	1.2	1.1	1	0.8	0.56	0.4	0.3	0.15
DB	1.8	1.73	1.5	1.4	1.3	1.2	1.1	1	0.8	0.6	0.4	0.3	0.15	0
NS	7043-7045	7046-7047	7048-7054	7055-7056	7058-7060	7061-7063	7064-7066	7067-7069	7070, 7073	7075-7077	7336! 7081-7082	7083-7084	7085-7087	7088-7090
TV	802	301	1311	498	508	1014	288	325	376	452	671	124	373	747
NT	70	22	63	39	38	56	25	23	19	24	37	16	27	27

Table 10

Data of the "Borehole Tó-22". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DB	3.5	3.3	3.2	2.9	2.8	2.5	2.43	2.4	2.2	2.13	2.10	1.56	1.36	1.06	0.6
DB	3.3	3.2	2.9	2.8	2.7	2.46	2.40	2.3	2.16	2.10	2.00	1.36	1.06	0.6	0.5
NS	7259-7260	7265	7267-7272	7276-7277	7259-7261	7268	7291?	7272-7274	7298	7300	7301-7303	7304-7309	7311-7318	7325	7333
TV	337	349	128	87	406	188	565	317	113	149	319	484	402	321	633
NT	42	30	22	13	42	32	53	35	22	21	42	50	33	32	38

Table 11

Data of the "Borehole Tó-23". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DB	6.92	5.88	5.84	5.63	5.53	5.27	5.2	5.04	4.7	4.63	4.2	4.1	4.03	3.55	3.3	3.15	2.7	2.35	1.6	1.05	0.3
DT	6.4	5.84	5.76	5.53	5.27	5.2	5.04	4.7	4.63	4.2	4.1	4.03	3.55	3.3	3.15	2.7	2.35	1.6	1.05	0.3	0
NS	7093-7094	7099	7101-7104	7109-7111	7112-7119	7120-7125	7122-7130	7126-7130	7131-7132	7133-7144	7145-7148	7149-7150	7151-7160	7161-7165	7166-7168	7169-7177	7178-7184	7185-7196	7197-7207	7208-7222	7223-7228
TV	188	319	1046	1043	653	316	0	803	704	642	614	500	535	441	1096	986	557	776	1253	1381	1561
NT	23	35	46	42	46	23	0	47	54	45	52	44	53	41	75	62	49	58	61	53	20



## Enumeration

- Achnanthes clevei* Grun. – T6-4 5527:10, 5525:15, 5524:27; T6-7 8402:2, 8388:8, 8403:8; T6-8 8405:10, 8407:10, 8049:11; T6-11 5550:2, 5546:2; T6-21 7043–7045:18, 7048–7054:10, 7055–7056:16, 7070, 7073:5; T6-22 7304–7309:6; T6-23 7120–7121:4; T6-26 7364:3, 7365:1, 7366–7367:10, 7373:12, 7383, 7384:7; T6-27 7463–7466:4, 7467–7469:14, 7473–7474:10, 7475–7476:4, 7485–7486:7.
- Achnanthes clevei* Grun. var. *rostrata* Hust. – T6-4 5527:16; T6-27 7467–7469:2.
- Achnanthes conspicua* (Bréb.) Grun. – T6-33 8054:2.
- Achnanthes delicatula* (Kütz.) Grun. – T6-21 7336!, 7081–7082:10, 7085–7087:3; T6-23 7166–7168:2; T6-28 6427:2; T6-29 7817–7819:20.
- Achnanthes dispar* Cl. – T6-4 5529:4; T6-21 7055–7056:5; T6-26 7365:10.
- Achnanthes exigua* Grun. – T6-21 7043–7045:6; T6-22 7291?:2; T6-23 7145–7148:4; T6-27 7473–7474:2; T6-30 7643:2, 7644–7645:42, 7650–7654:55, 7717:1.
- Achnanthes flexella* (Kütz.) Brun – T6-20 6628:1, 6629–6630:2, 6631:1, 6633:2, 6641:4; T6-21 7058–7060:4; T6-22 7259–7260:1, 7276–7277:1, 7291?:2; T6-23 7131–7132:2, 7133–7144:2, 7145–7148:1; T6-33 8059:2, 8054:2.
- Achnanthes hauckiana* Grun. – T6-26 7399–7401:3; T6-33 8042:1.
- Achnanthes hungarica* (Grun.) Grun. – T6-21 7061–7063:4; T6-22 7304–7309:1.
- Achnanthes joursacense* Héribaude – T6-23 7101–7104:1.
- Achnanthes kolbei* Hust. – T6-7 8388:3; T6-23 7112–7119:2.
- Achnanthes lanceolata* (Bréb.) Grun. – T6-7 8387:8, 8389:12, 8400:4; T6-11 5559:4, 5556:2; T6-17 6713–7618:2, 7625–7627:1; T6-20 6618:4; T6-22 7291?:6; T6-23 7099:2, 7101–7104:12, 7112–7119:3, 7126–7130:9, 7131–7132:22, 7145–7148:8, 7149–7150:2, 7151–7160:1, 7161–7165:14, 7166–7168:15, 7169–7177:4; T6-26 7366–7367:5; T6-29 7860–7863:5, 7864–7866:5, 7896–7897:15, 7898–7993:5; T6-30 7644–7645:7, 7680:7, 7683, 7686:2; T6-33 7434:6, 8150:10, 8068:8.
- Achnanthes lanceolata* Bréb. f. *capitata* O. Müll. – T6-23 7101–7104:2.
- Achnanthes lanceolata* Bréb. var. *elliptica* Cleve sensu Straub – T6-23 7101–7104:6, 7131–7132:4; T6-29 7893–7895:5.
- Achnanthes lanceolata* Bréb. var. *rostrata* (Oestrup) Hustedt – T6-23 7131–7132:5, 7166–7168:6.
- Achnanthes minutissima* Kütz. – T6-20 6628:2, 6629–6630:2, 6631:2.
- Achnanthes rupestroides* Hohn – T6-26 7395, 7396:2; T6-30 7644–7645:5, 7650–7654:2.
- Achnanthes trinodis* (W. Sm.) Grun. – T6-27 7488:2.
- Amphora balatonis* Pant. – T6-4 5533:2, 5524:12; T6-8 8404:2; T6-17 7592, 7593, 7594:6, 6713–7618:5; T6-20 6628:1, 6629–6630:3, 6631:2; T6-21 7048–7054:19, 7055–7056:9, 7058–7060:5, 7061–7063:5, 7075–7077:5, 7085–7087:2, 7088–7090:10; T6-22 7268:2; T6-23 7126–7130:5, 7131–7132:1, 7178–7184:2, 7208–7222:11; T6-26 7365:4, 7366–7367:5, 7373:2; T6-27 7463–7466:2, 7475–7476:4; T6-28 6454:3; T6-29 7864–7866:46, 78, 677, 868:10; T6-30 7689–7691:10, 7708–7710:4; T6-33 7922:5, 8144:5, 8126:4, 8084:21, 8083:13, 8054:3.
- Amphora coffeaeformis* (Ag.) Kütz. – T6-33 8050:4.
- Amphora commutata* Grun. – T6-22 7298:5.
- Amphora delicatissima* Krasske – T6-20 6619:2.
- Amphora holsatica* Hust. – T6-26 7365:5; T6-29 7800:5, 7805–7809:5.
- Amphora inariensis* Krammer – T6-20 6628:1, 6629–6630:2, 6631:1.
- Amphora lybica* E. – T6-4 5533:2, 5530:36, 5529:16, 5528:30, 5527:9, 5526:5, 5525:4, 5524:23, 5523:24; T6-5 6801:11, 6802:2; T6-7 8402:3, 8389:5, 8400:14; T6-8 8404:10, 8405:4, 8408:2, 8049:4; T6-11 5559:12, 5556:38, 5549:5, 5548:2, 5547:9, 5544:29, 5543:45; T6-17 7566:3,

Table 12

Data of the "Borehole Tó-26". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DT	1.85	1.8	1.75	1.5	1.4	1.3	1.1	0.95	0.85	0.75	0.45	0.35	0.25	0.15	0
DB	1.9	1.85	1.8	1.65	1.5	1.35	1.3	1.1	0.95	0.85	0.75	0.45	0.35	0.25	0.15
NS	7364	7365	7366– 7367	7371	7373	7375	7376– 7379	7380– 7382	7384	7386	7387– 7392	7394	7396	7398	7399– 7401
TV	331	450	686	331	424	293	317	124	396	282	336	218	316	660	900
NT	24	36	30	24	26	29	16	15	32	17	28	15	18	39	43

Table 13

Data of the "Borehole Tó-27". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DB	1.65–	1.35–	1.15–	1.00–	0.85–	0.75–	0.65–	0.60–	0.55–	0.45–	0.40–	0.30–	0.25–	0.15–	0.10–	0.05–
DT	1.45	1.15	1.00	0.85	0.75	0.65	0.60	0.55	0.50	0.40	0.30	0.25	0.20	0.10	0.05	0.00
NS	7457– 7460	7463– 7466	7467– 7469	7470– 7472	7473– 7474	7475– 7476	7477	7478	7479	7481	7482– 7483	7484	7485– 7486	7487	7488	7489
TV	493	722	612	400	893	869	140	392	474	642	317	228	541	379	338	470
NT	30	43	31	27	47	55	11	30	31	36	14	21	30	36	27	38

Table 14

Data of the "Borehole Tó-28". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DB	2.63	2.05	1.95	1.85	1.8	1.7	1.6	0.75	0.65	0.55	0.45	0.35	0.25	0.05
DT	2.6	2	1.9	1.8	1.75	1.65	1.55	0.7	0.6	0.5	0.4	0.3	0.2	0.00
NS	6465	6459	6457	6455	6454	6452	6450	6427	6424	6423	6420	6419	6416	6412
TV	17	15	30	308	138	290	286	334	96	277	119	130	53	429
NT	7	7	12	21	17	14	16	15	12	33	18	19	9	43

Table 15  
Data of the "Borehole Tó-29". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DB	8.42- 6.76- 4.32- 4.12- 3.87- 3.73- 3.50- 3.23- 2.26- 2.06- 1.93- 1.83- 1.76- 1.56- 1.40- 1.23- 0.96- 0.86- 0.80- 0.76- 0.60- 0.50- 0.30- 0.20-
DT	8.38 6.67 4.30 4.10 3.73 3.50 3.40 3.20 2.20 1.93 1.83 1.76 1.63 1.53 1.30 0.96 0.86 0.80 0.76 0.60 0.50 0.30 0.20 0.00
NS	7790 7794 7799 7800 7805 7810 7817 7825 ### 7860 7864 ### 7869 7875 7880 7884 7893 7896 7898 7898 7904 7963 7969 7972
	-780 -781 -781 9 6 9 2 3 6 6 -786 -787 2 2 2 5 7 -789 -789 -790 -796 -797 -797 6
TV	229 460 105 560 977 265 723 195 148 326 522 453 229 98 382 166 458 878 312 1234 192 533 108 1071
NT	19 18 5 31 42 21 21 11 16 16 22 19 25 9 15 9 11 23 11 39 18 30 7 18

Table 16  
Data of the "Borehole Tó-30". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DB	4.03 3.94 3.82 3.66 3.5 3.4 3.2 3.1 2.9 2.8 2.6 2.4 2.1 2 1.4 1.3 1.1 1.06 0.96 0.62 0.52 0.15 0.08
DT	4 4.03 3.94 3.82 3.66 3.5 3.4 3.2 3.1 2.9 2.8 2.6 2.4 2.1 1.5 1.4 1.3 1.1 1.06 0.96 0.55 0.42 0.12
NS	7643 7644- 7646- 7650- 7655- 7660- 7663, 7669- 7672- 7680 7683, 7689- 7692- 7702- 7705- 7708- 77118 7717 7498- 7500- 7504 7925- 7928
	7645 7649 7654 7659 7662 7666 7671 7678 7686 7691 7701 7704 7707 7710 -7716 7499 7503 7927
TV	591 685 205 415 450 1024 1162 411 708 775 879 1025 253 857 565 314 628 393 460 805 303 858 271
NT	35 61 19 38 25 29 45 32 42 38 60 58 34 27 32 26 50 28 24 46 9 15 11

Table 17  
Data of the "Borehole Tó-31". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)

DB	5.8 5.75 5.35 5.3 5.25 5.15 5.1 4.9 4.85 3.28 3.2 2.75 2.25 1.9 1.15 1.1 1 0.9 0.7 0.6 0.35
DT	5.75 5.7 5.3 5.25 5.2 5.1 5.05 4.85 4.8 3.24 3.15 2.7 2.2 1.8 1.1 1.05 0.95 0.8 0.6 0.5 0.3
NS	6782 6783 6791 6792 6793 6795 6796 6801 6802 6831 6832 6841 6852 6854 6866 6867 6869 6871 6873 6874 6875
TV	6 33 95 82 346 79 82 224 83 70 184 141 42 122 109 50 43 172 78 171 134
NT	3 3 8 9 15 9 11 35 30 16 18 19 6 18 16 14 13 21 15 14 11

7561:6, 7562, 7563:6, 7581–7583:4, 7592, 7593, 7594:17, 7607–7612:5, 6713–7618:9; **T6-20** 6628:12, 6629–6630:21, 6631:10, 6633:2, 6681:2, 6691:2; **T6-21** 7043–7045:18, 7048–7054:5, 7055–7056:18, 7058–7060:15, 7336! 7081–7082:2; **T6-22** 7259–7260:2, 7265:7, 7267–7272:1, 7276–7277:1, 7259–7261:20, 7291?:2, 7272–7274:41, 7300:1, 7301–7303:5, 7304–7309:3, 7311–7318:1, 7325:2; **T6-23** 7093–7094:5, 7099:2, 7101–7104:6, 7109–7111:13, 7112–7119:5, 7126–7130:14, 7131–7132:61, 7133–7144:3, 7145–7148:10, 7149–7150:2, 7161–7165:5, 7166–7168:2, 7169–7177:8, 7178–7184:7, 7185–7196:5, 7197–7207:13, 7208–7222:20; **T6-26** 7364:5, 7366–7367:5, 7370, 7371:5, 7397, 7398:3; **T6-27** 7463–7466:2, 7470–7472:3, 7473–7474:6, 7475–7476:9, 7487:4; **T6-28** 6455:15, 6452:1; **T6-29** 7790:5, 7864–7866:25, 78, 677, 868:54, 7869–7872:10, 7904–7906:5; **T6-30** 7644–7645:2, 7650–7654:5, 7655–7659:2, 7663, 7666:2, 7669–7671:2, 7672–7678:14, 7692–7701:5, 7702–7704:2, 7708–7710:4, 7717:4, 7500–7503:2, 7925–7927:20; **T6-31** 6801:11, 6802:2; **T6-33** 7922:4, 7434:5, 7492:5, 8150:5, 8138:5, 8132:24, 8126:14, 8114:9, 8084:8.

*Amphora ovalis* (Kütz.) Kütz. – **T6-4** 5529:12, 5527:5, 5526:7, 5525:5, 5524:12; **T6-5** 6792:1, 6793:20, 6802:1, 6831:1, 6832:1, 6852:1, 6854:2; **T6-7** 8402:13; **T6-8** 8405:8, 8408:8, 8049:2; **T6-11** 5559:2, 5556:2, 5553:2, 5551:10, 5548:8, 5546:9, 5544:30, 5543:35, 5542:15, 5541:9; **T6-17** 7561:4, 7562, 7563:8, 7567–7568:20, 7592, 7593, 7594:11, 7603–7606:5, 6713–7618:3, 7622–7624:9; **T6-20** 6618:8, 6628:11, 6629–6630:21, 6631:10, 6633:1, 6660, 6661:1, 6681:4, 6701:2, 6709:2; **T6-21** 7046–7047:12, 7048–7054:40, 7058–7060:10, 7061–7063:4, 7067–7069:4, 7336! 7081–7082:5, 7085–7087:1, 7088–7090:20; **T6-22** 7259–7260:2, 7259–7261:42, 7268:10, 7291?:4, 7272–7274:3, 7298:20, 7301–7303:11; **T6-23** 7099:4, 7101–7104:8, 7109–7111:2, 7112–7119:4, 7126–7130:9, 7131–7132:6, 7133–7144:5, 7149–7150:10, 7151–7160:36, 7166–7168:15, 7185–7196:6, 7197–7207:25, 7208–7222:26; **T6-26** 7364:5, 7373:3, 7375:15, 7385, 7386:6, 7395, 7396:15, 7399–7401:3; **T6-27** 7463–7466:10, 7467–7469:4, 7470–7472:4, 7473–7474:8, 7475–7476:5, 7479:8, 7485–7486:4, 7487:4; **T6-28** 6423:5; **T6-29** 7800:5, 7805–7809:14, 7860–7863:5, 78, 677, 868:10, 7869–7872:2, 7898–7993:10, 7904–7906:5; **T6-30** 7643:9, 7644–7645:12, 7650–7654:2, 7655–7659:3, 7660–7662:4, 7669–7671:5, 7672–7678:6, 7683, 7686:7, 7689–7691:10, 7702–7704:3, 7705–7707:2, 77118–7716:2, 7498–7499:2; **T6-31** 6792:1, 6793:20, 6802:1, 6831:1, 6832:1, 6852:1, 6854:2; **T6-33** 8144:14, 8100:3, 8090:4, 8083:19, 8068:5, 8059:6, 8054:2, 8045:3.

*Amphora pediculus* (Kütz.) Grun. – **T6-4** 5530:22, 5529:36, 5528:50, 5527:44, 5526:33, 5525:100, 5524:86, 5523:43; **T6-5** 6866:7, 6867:1, 6869:5, 6871:17, 6873:10, 6874:5; **T6-7** 8386:9, 8402:36, 8388:8, 8403:20, 8389:12, 8400:8; **T6-8** 8405:16,

Table 18

Data of the "Borehole Tó-33". (DB = Depth bottom, DT = Depth top, NS = No. of slide(s), TV = Total valves, NT = No. of taxa)	
DB	4.60 4.55 4.46 4.30 4.00 3.80 3.56 3.06 3.03 2.96 2.83 2.50 2.23 2.03 1.83 1.62 1.43 1.23 1.03 0.83 0.63 0.42 0.22 0.02
DT	4.55 4.52 4.43 4.25 3.96 3.78 3.53 3.03 3.00 2.93 2.80 2.46 2.20 2.00 1.80 1.60 1.40 1.20 1.00 0.80 0.60 0.40 0.20 0.04
NS	8041 8042 8045 8050 8054 8059 8068 8083 8084 8086 8090 8100 8108 8114 8120 8126 8132 8138 8144 8150 8243 7492 7434 7922
TV	247 634 392 390 492 524 432 240 205 412 346 394 362 454 458 535 467 405 439 681 551 754 478 590
NT	13 22 31 19 42 35 24 27 22 30 20 28 31 27 24 31 24 26 26 20 17 27 31 28

8407:45, 8408:28, 8049:19; **T6-11** 5559:13, 5556:13, 5555:4, 5553:4, 5552:6, 5551:11, 5550:13, 5549:2, 5547:6, 5546:33, 5545:8, 5544:4, 5543:93, 5542:26, 5541:6, 5540:30; **T6-17** 7581–7583:10, 7592, 7593, 7594:104, 7607–7612:14, 6713–7618:58, 7622–7624:34, 7625–7627:40; **T6-20** 6623:26, 6628:4, 6629–6630:13, 6631:9, 6633:4, 6641:36, 6670:7, 6681:9, 6691:8, 6701:20, 6707:23, 6709:26, 6719:35; **T6-21** 7043–7045:25, 7055–7056:15, 7061–7063:53, 7064–7066:15, 7067–7069:3, 7070, 7073:27, 7075–7077:16, 7336! 7081–7082:38, 7085–7087:19, 7088–7090:11; **T6-22** 7259–7260:2, 7265:25, 7259–7261:10, 7304–7309:27, 7311–7318:29, 7325:19; **T6-23** 7109–7111:6, 7112–7119:2, 7120–7121:8, 7133–7144:11, 7149–7150:10, 7166–7168:2, 7169–7177:15, 7185–7196:58, 7197–7207:51, 7208–7222:83; **T6-26** 7365:19, 7366–7367:74, 7370, 7371:47, 7373:58, 7376–7379:30, 7383, 7384:37, 7387–7392:10, 7393, 7394:4, 7395, 7396:10, 7397, 7398:8, 7399–7401:25; **T6-27** 7457–7460:8, 7463–7466:41, 7467–7469:15, 7470–7472:15, 7473–7474:31, 7475–7476:42, 7484:4, 7485–7486:10, 7487:37, 7488:9; **T6-28** 6457:7, 6455:63, 6452:6, 6450:17, 6427:6, 6423:5, 6420:4, 6419:14; **T6-29** 7800:5, 7805–7809:20, 7817–7819:10, 78, 547, 855:5, 7860–7863:35, 78, 677, 868:16, 7869–7872:5, 7893–7895:69, 7896–7897:125, 7898:24, 7898–7993:26, 7963–7968:65, 7969–7971:10; **T6-30** 7643:5, 7644–7645:2, 7655–7659:19, 7660–7662:21, 7663, 7666:80, 7669–7671:20, 7672–7678:80, 7680:100, 7683, 7686:48, 7689–7691:126, 7692–7701:4, 7702–7704:49, 7705–7707:51, 7708–7710:5, 77118–7716:47, 7717:26, 7498–7499:28, 7500–7503:15, 7504:92, 7925–7927:19; **T6-31** 6866:7, 6867:1, 6869:5, 6871:17, 6873:10, 6874:5; **T6-33** 7922:81, 7434:22, 7492:66, 8243:7, 8150:32, 8138:30, 8132:12, 8126:8, 8120:55, 8114:30, 8108:2, 8090:22, 8086:14, 8068:2, 8059:12, 8050:11, 8045:2.

*Amphora thumensis* (A. Mayer) Cl. – **T6-11** 5559:10, 5550:10, 5547:2, 5544:4; **T6-17** 7558–7560:2, 7561:2, 7562, 7563:7; **T6-20** 6619:2, 6628:4, 6629–6630:6, 6631:4; **T6-22** 7265:1, 7301–7303:2; **T6-30** 7692–7701:1; **T6-33** 7492:3, 8068:8, 8059:2, 8054:20, 8041:1, 8042:18.

*Amphora veneta* Kütz. – **T6-7** 8388:14; **T6-11** 5547:4; **T6-22** 7259–7260:1, 7300:4; **T6-23** 7131–7132:3; **T6-29** 7817–7819:10.

*Anomoeoneis sphaerophora* (Ehr.) Pfitz. – **T6-4** 5533:25, 5530:24, 5529:14; **T6-7** 8400:28; **T6-11** 5556:2, 5555:20, 5553:7, 5549:2; **T6-17** 7562, 7563:2, 7595, 7596, 7597, 7599, 7600:4; **T6-20** 6628:6, 6629–6630:6, 6631:5, 6633:1; **T6-22** 7259–7260:4, 7259–7261:8, 7268:1, 7291?:2, 7272–7274:3, 7298:8, 7301–7303:16; **T6-23** 7133–7144:4, 7151–7160:6, 7166–7168:3, 7169–7177:8, 7178–7184:16; **T6-26** 7364:16, 7366–7367:2, 7370, 7371:15, 7376–7379:5; **T6-27** 7463–7466:91, 7467–7469:3; **T6-29** 78, 547, 855:5, 7860–7863:14, 7869–7872:10, 7884–7892:5; **T6-30** 7650–7654:1, 7655–7659:1, 7663, 7666:6, 7683, 7686:2; **T6-33** 8108:8, 8100:5, 8090:2, 8086:4, 8084:9.

*Anomoeoneis sphaerophora* (Ehr.) Pfitz. f. *costata* (Kütz.) Schmid – **T6-11** 5553:2, 5550:2; **T6-21** 7061–7063:5; **T6-22** 7272–7274:5; **T6-27** 7463–7466:20.

*Aucaloseira italica* (Ehr.) Sim. – **T6-5** 6831:4; **T6-7** 8387:8, 8388:25, 8403:8, 8389:11, 8400:8; **T6-8** 8404:45, 8405:62; **T6-11** 5559:84, 5556:200, 5555:11, 5553:2; **T6-17** 7566:9, 7558–7560:6, 7561:30, 7562, 7563:251, 7592, 7593, 7594:4, 7603–7606:10, 7607–7612:4, 6713–7618:1, 7622–7624:2; **T6-20** 6619:20, 6628:12, 6629–6630:7, 6631:18, 6641:146; **T6-21** 7043–7045:74, 7048–7054:169, 7055–7056:18, 7058–7060:25, 7061–7063:12, 7088–7090:20; **T6-22** 7259–7260:159, 7265:69, 7267–7272:30, 7276–7277:10, 7259–7261:10, 7268:11, 7291?:10, 7272–7274:7, 7301–7303:4, 7304–7309:113, 7311–7318:3, 7325:2; **T6-23** 7093–7094:3, 7099:12, 7101–7104:137, 7120–7121:13, 7126–7130:214, 7131–7132:15, 7133–7144:205, 7145–7148:120, 7149–7150:91, 7151–7160:20, 7161–7165:27, 7166–7168:8, 7169–7177:5, 7185–7196:31, 7197–7207:10, 7208–7222:2; **T6-26** 7366–7367:3, 7397, 7398:5; **T6-29** 7794:40, 7817–7819:160, 7825:20; **T6-30** 7644–7645:35, 7646–7649:3, 7650–7654:4, 7655–7659:20, 7660–7662:7, 7663, 7666:60, 7669–7671:12, 7672–7678:3, 7680:2, 7683, 7686:4, 7689–7691:11, 7500–7503:4; **T6-31** 6831:4; **T6-33** 8114:13, 8108:6, 8100:3, 8084:2, 8083:6, 8068:11, 8059:91.

*Aulacoseira italica* (Ehr.) Sim. var. *tenuissima* (Grun.) Sim. – T6-8 8405:2; T6-23 7099:7, 7101–7104:4, 7120–7121:4, 7126–7130:8, 7145–7148:15, 7185–7196:5.

*Aulacoseira subarctica* (O. Müll.) Sim. – T6-21 7043–7045:4, 7061–7063:5; T6-22 7265:5, 7267–7272:5.

*Aulacoseira distans* (Ehr.) Simonsen – T6-11 5550:10, 5548:23; T6-21 7043–7045:2; T6-26 7370, 7371:10, 7373:2; T6-27 7485–7486:22; T6-30 7705–7707:4, 7717:2.

*Aulacoseira granulata* (Ehr.) Sim. – T6-4 5531:4, 5528:20, 5527:310, 5526:101, 5525:102, 5524:33, 5523:140; T6-5 6801:2, 6841:57, 6852:1, 6854:12, 6867:1, 6869:1, 6871:2; T6-7 8402:53, 8403:4; T6-8 8407:6, 8408:149, 8049:23; T6-11 5553:18, 5552:184, 5551:128, 5550:105, 5549:172, 5548:300, 5547:156, 5546:200, 5545:70, 5544:45, 5543:35, 5542:21, 5541:33; T6-17 7581–7583:12, 7603–7606:14, 7607–7612:12, 6713–7618:24, 7622–7624:20, 7625–7627:13; T6-20 6628:3, 6631:2, 6633:4, 6634:10, 6641:208, 6670:1, 6691:103, 6701:19, 6709:27, 6719:3; T6-21 7043–7045:3, 7055–7056:12, 7058–7060:30, 7061–7063:131, 7064–7066:93, 7067–7069:67, 7070, 7073:45, 7075–7077:5, 7336! 7081–7082:130, 7083–7084:7, 7088–7090:33; T6-22 7298:5, 7304–7309:91, 7311–7318:157, 7325:85; T6-23 7112–7119:3, 7161–7165:14, 7166–7168:12, 7178–7184:20, 7185–7196:154, 7197–7207:215, 7208–7222:35; T6-26 7370, 7371:80, 7373:35, 7375:9, 7376–7379:130, 7380–7382:9, 7383, 7384:82; T6-27 7457–7460:82, 7463–7466:58, 7467–7469:90, 7470–7472:165, 7473–7474:202, 7475–7476:75, 7479:22, 7481:17, 7485–7486:110, 7487:87, 7488:79; T6-28 6465:11, 6455:10, 6454:60, 6452:245, 6450:165, 6427:230, 6424:40, 6423:8, 6420:7, 6419:2, 6416:2; T6-29 7790:20, 7794:30, 7860–7863:45, 7869–7872:5, 7875:35, 7880–7882:181, 7884–7892:65, 7893–7895:202, 7896–7897:130, 7898:165, 7898–7993:840, 7904–7906:57; T6-30 7660–7662:107, 7663, 7666:210, 7669–7671:140, 7672–7678:149, 7680:204, 7683, 7686:312, 7689–7691:270, 7692–7701:25, 7702–7704:519, 7705–7707:294, 7708–7710:74, 77118–7716:124, 7717:66, 7498–7499:112, 7500–7503:27, 7504:34, 7925–7927:33; T6-31 6801:2, 6841:57, 6852:1, 6854:12, 6867:1, 6869:1, 6871:2; T6-33 7922:28, 7434:35, 7492:37, 8150:10, 8144:23, 8138:5, 8132:70, 8126:140, 8120:152, 8114:87, 8068:5.

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*Cyclotella meneghiniana* Kütz. – **T6-4** 5524:15; **T6-5** 6871:1; **T6-7** 8389:2; **T6-8** 8404:2, 8406:7, 8408:6; **T6-17** 7562, 7563:12, 7567–7568:8, 7622–7624:2; **T6-20** 6623:2, 6631:4, 6681:1, 6719:1; **T6-21** 7085–7087:3; **T6-22** 7259–7260:2, 7265:1, 7300:1, 7301–7303:3, 7304–7309:1; **T6-23** 7131–7132:6, 7133–7144:15, 7161–7165:10, 7166–7168:3, 7197–7207:6; **T6-26** 7397, 7398:3, 7399–7401:2; **T6-27** 7475–7476:8; **T6-28** 6423:1, 6420:1; **T6-29** 7799:5, 7800:5, 7805–7809:10, 7810–7816:41, 7817–7819:5; **T6-30** 7644–7645:4; **T6-31** 6871:1.

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*Cyclotella stelligera* Cl. et Grun. – **T6-30** 7644–7645:3.

*Cyclotella striata* (Kütz.) Grun. – **T6-22** 7304–7309:2.

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*Cymbella amphicephala* Naegeli – **T6-4** 5531:2, 5530:40, 5529:41, 5528:35, 5525:5; **T6-8** 8405:2; **T6-26** 7365:8, 7366–7367:10, 7375:18; **T6-11** 5544:2; **T6-27** 7467–7469:2, 7470–7472:5, 7473–7474:14, 7475–7476:2; **T6-29** 78, 547, 855:15; **T6-33** 8100:2, 8090:220, 8086:92, 8084:13, 8083:2, 8059:5.

*Cymbella amphicephala* Naegeli var. *citrus* (Carter et Bailey-Watts) Krammer – **T6-7** 8387:2; **T6-23** 7126–7130:7, 7133–7144:4, 7145–7148:4, 7149–7150:1, 7169–7177:7, 7178–7184:18; **T6-30** 7680:4, 7692–7701:2, 7500–7503:2.

*Cymbella aspera* (Ehr.) Cl. – **T6-4** 5523:5; **T6-5** 6793:20, 6832:25, 6841:5; **T6-7** 8403:2; **T6-8** 8408:2; **T6-11** 5549:6, 5542:3, 5541:11; **T6-17** 7595, 7596, 7597, 7599, 7600:5; **T6-20** 6619:2, 6628:2, 6629–6630:1, 6631:2, 6633:2, 6634:20, 6641:2, 6709:2; **T6-23** 7151–7160:15, 7178–7184:7, 7208–7222:7; **T6-27** 7457–7460:2; **T6-29** 7810–7816:20, 7898–7993:16; **T6-30** 7650–7654:4, 7660–7662:1, 7683, 7686:6, 7689–7691:1, 7717:2; **T6-31** 6793:20, 6832:25, 6841:5; **T6-33** 8243:5, 8138:4.

*Cymbella austriaca* Grun. – **T6-30** 7692–7701:1.

*Cymbella balatonis* Grun. – **T6-11** 5553:4.

*Cymbella cesatii* (Rabh.) Grun. – **T6-7** 8387:1; **T6-8** 8406:19; **T6-27** 7479:2.

*Cymbella cistula* (Ehr.) Kirchner – **T6-5** 6801:3; **T6-11** 5559:2; **T6-22** 7291?:2; **T6-23** 7109–7111:8, 7185–7196:6, 7197–7207:5; **T6-27** 7478:7; **T6-30** 7500–7503:3; **T6-31** 6801:3.

*Cymbella cuspidata* Kütz. – **T6-4** 5530:57, 5529:20; **T6-8** 8406:2, 8407:2; **T6-11** 5552:2, 5549:8, 5546:2, 5545:6; **T6-23** 7161–7165:5, 7178–7184:12; **T6-26** 7375:3; **T6-27** 7477:8, 7485–7486:7, 7487:4, 7488:10; **T6-30** 7672–7678:4; **T6-33** 8068:2.

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*Cymbella ehrenbergii* Kütz. – **T6-4** 5529:4, 5528:5, 5525:5, 5524:66, 5523:21; **T6-5** 6801:1, 6832:2; **T6-7** 8400:4; **T6-8** 8406:2, 8408:5, 8049:2; **T6-11** 5553:7, 5551:8, 5548:5, 5547:1, 5544:6, 5542:8, 5541:5; **T6-17** 7581–7583:2, 7595, 7596, 7597, 7599, 7600:5; **T6-20** 6628:1, 6660, 6661:3; **T6-21** 7336! 7081–7082:4; **T6-22** 7259–7260:4, 7259–7261:6, 7291?:11, 7311–7318:1, 7325:1; **T6-23** 7131–7132:8, 7151–7160:19, 7166–7168:10, 7169–7177:11, 7178–7184:6, 7185–7196:46, 7197–7207:48; **T6-26** 7373:3, 7375:3, 7376–7379:6, 7383, 7384:1, 7387–7392:10, 7397, 7398:2; **T6-27** 7457–7460:4, 7463–7466:6, 7467–7469:15, 7473–7474:5, 7475–7476:17, 7479:8, 7487:2, 7488:2; **T6-29** 7794:15, 7805–7809:10, 7860–7863:10, 7904–7906:4; **T6-30** 7643:2, 7646–7649:2, 7650–7654:20, 7655–7659:5, 7660–7662:5, 7669–7671:6, 7672–7678:7, 7680:2, 7683, 7686:2, 7689–7691:5, 7708–7710:4, 77118–7716:4, 7717:2; **T6-31** 6801:1, 6832:2; **T6-33** 8108:14, 8100:34, 8084:5.

*Cymbella ehrenbergii* Kütz. var. *hungarica* Pant. – **T6-20** 6629–6630:1, 6631:3; **T6-21** 7048–7054:2; **T6-22** 7259–7260:4, 7265:1, 7268:1, 7272–7274:1, 7298:4, 7301–7303:2; **T6-26** 7365:3, 7385, 7386:7; **T6-28** 6455:15, 6450:3; **T6-30** 7689–7691:1; **T6-33** 8132:5.

*Cymbella elginensis* Krammer – **T6-22** 7291?:2, 7300:4, 7301–7303:4; **T6-23** 7109–7111:2, 7112–7119:6, 7145–7148:7, 7149–7150:5, 7151–7160:7, 7161–7165:5, 7178–7184:8; **T6-27** 7484:4; **T6-29** 7799:5, 7898–7993:2; **T6-30** 7680:2, 7683, 7686:2, 77118–7716:2.

*Cymbella hauckii* Van Heurck – **T6-20** 6628:5, 6629–6630:14, 6631:4.

*Cymbella hebridica* (Grun.) Cl. – **T6-23** 7208–7222:6.

*Cymbella helvetica* Kütz. – **T6-4** 5529:4, 5528:5, 5525:5, 5523:4; **T6-7** 8402:11, 8403:4, 8389:3, 8400:44; **T6-11** 5540:5; **T6-17** 7581–7583:4; **T6-23** 7126–7130:1; **T6-26** 7399–7401:5; **T6-29** 7869–7872:5; **T6-30** 7646–7649:1, 7663, 7666:1, 7683, 7686:2, 7702–7704:4; **T6-33** 8138:8, 8120:5, 8108:2, 8086:5, 8059:6, 8054:7, 8050:12.

*Cymbella helvetica* Kütz. var. *elongata* Pant. – **T6-21** 7043–7045:2.

*Cymbella helvetica* Kütz. var. *balatonis* (Grun.) Cl. – **T6-22** 7301–7303:10.

*Cymbella hungarica* (Grun.) Pant. – **T6-11** 5559:2; **T6-21** 7048–7054:6; **T6-26** 7383, 7384:7.

*Cymbella hustedtii* Krasske – **T6-7** 8402:2; **T6-20** 6631:3, 6633:2.

*Cymbella hybrida* Grun. – **T6-22** 7325:2; **T6-23** 7131–7132:2; **T6-29** 7794:10, 7805–7809:6.

*Cymbella lacustris* (Ag.) Cl. – **T6-4** 5530:10, 5528:5, 5523:5; **T6-7** 8388:4, 8389:1, 8400:21; **T6-8** 8404:4; **T6-11** 5556:4, 5553:4, 5547:2, 5544:2; **T6-17** 7561:2, 7562, 7563:2, 7581–7583:6; **T6-20** 6631:11, 6633:16, 6634:6; **T6-22** 7259–7261:2, 7298:2, 7301–7303:7, 7304–7309:2; **T6-23** 7131–7132:20, 7145–7148:4, 7149–7150:5, 7161–7165:5, 7178–7184:17, 7185–7196:3, 7197–7207:5; **T6-28** 6457:2, 6423:1; **T6-29** 7790:45, 7794:90, 7799:55, 7800:23, 7805–7809:96, 7810–7816:40, 7825:15, 7860–7863:20, 7864–7866:15, 7869–7872:5, 7875:5, 7898–7993:2; **T6-30** 7644–7645:9, 7663, 7666:6, 7689–7691:13, 7717:2; **T6-33** 8144:5, 8126:8, 8114:2, 8108:11, 8086:9, 8083:4, 8059:2, 8054:20, 8050:2, 8041:1.

*Cymbella laevis* Naegeli – **T6-4** 5533:4, 5530:2; **T6-23** 7169–7177:10; **T6-29** 7794:20; **T6-33** 8059:4.

*Cymbella lanceolata* (Ehr.) Kirchner – **T6-4** 5530:34; **T6-11** 5541:5; **T6-17** 7595, 7596, 7597, 7599, 7600:11; **T6-27** 7463–7466:2; **T6-29** 7810–7816:5; **T6-33** 8108:2, 8083:4.

*Cymbella lata* Grun. – **T6-17** 7603–7606:5, 6713–7618:2; **T6-23** 7178–7184:5; **T6-30** 7689–7691:4.

*Cymbella leptoceros* (Ehr.) Kütz. – **T6-4** 5523:3; **T6-20** 6618:4, 6628:3, 6629–6630:3, 6631:4, 6633:23, 6660, 6661:1, 6681:1, 6707:1; **T6-30** 7498–7499:6; **T6-33** 8083:13.

*Cymbella lóczyi* Pant. – **T6-17** 7595, 7596, 7597, 7599, 7600:5, 7625–7627:3; **T6-20** 6631:2; **T6-22** 7265:1, 7259–7261:2, 7300:4, 7304–7309:1; **T6-23** 7178–7184:13; **T6-26** 7375:4; **T6-30** 7689–7691:1.

*Cymbella microcephala* Grun. – **T6-20** 6628:7, 6631:7, 6633:6.

*Cymbella minuta* Hilse – **T6-20** 6641:2; **T6-23** 7178–7184:5.

*Cymbella naviculiformis* Auerswald – **T6-17** 7562, 7563:4; **T6-22** 7272–7274:5; **T6-27** 7463–7466:60.

*Cymbella prostrata* (Berkeley) Cl. – **T6-5** 6801:1, 6802:1; **T6-11** 5559:2, 5545:4; **T6-20** 6628:5, 6631:5; **T6-22** 7268:1; **T6-23** 7112–7119:5, 7126–7130:2, 7145–7148:1; **T6-27** 7470–7472:5, 7487:2; **T6-29** 7794:15, 7800:5, 7805–7809:10; **T6-30** 7643:6, 7705–7707:2; **T6-31** 6801:1, 6802:1; **T6-33** 8243:10, 8100:5, 8050:8, 8042:5.

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*Fragilaria ulna* (Nitzsch) Lange-Bert. var. *acus* (Kütz.) Lange-Bert. – **T6-7** 8400:4; **T6-23** 7093–7094:2, 7099:4, 7149–7150:10; **T6-30** 7692–7701:1, 7702–7704:2.

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*Gomphonema angustatum* (Kütz.) Rabh. – **T6-8** 8406:4, 8407:6; **T6-21** 7043–7045:15; **T6-22** 7259–7261:4; **T6-23** 7145–7148:15, 7178–7184:3; **T6-29** 7794:10, 7800:5, 7805–7809:5, 7825:10; **T6-30** 7689–7691:5; **T6-33** 8150:5, 8138:2, 8126:4, 8114:4, 8050:5.

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*Gomphonema clavatum* Ehr. – **T6-4** 5525:5; **T6-11** 5559:1, 5548:2; **T6-17** 7603–7606:3, 6713–7618:2; **T6-21** 7043–7045:3, 7046–7047:5, 7055–7056:2; **T6-23** 7099:4; **T6-29** 7790:5; **T6-30** 7717:2.

*Gomphonema clevei* Fricke – **T6-20** 6619:2, 6628:4, 6631:2.

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*Gomphonema lanceolatum* Ehr. – **T6-17** 7551:2.

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*Gomphonema olivaceum* (Hornemann) Bréb. var. *calcareum* (Cl.) Cl. – **T6-30** 7717:2.

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*Gyrosigma peisonis* (Grun.) Hust. – **T6-5** 6802:4; **T6-31** 6802:4.

*Gyrosigma spencerii* (W. Sm.) Cl. – **T6-30** 7702–7704:2.

*Hantzschia amphioxys* (Ehr.) Grun. – **T6-5** 6832:2; **T6-8** 8049:1; **T6-11** 5553:4, 5550:2; **T6-17** 7563:4, 7558–7560:6, 7562, 7563:2; **T6-21** 7070, 7073:5, 7336! 7081–7082:5; **T6-22** 7268:5; **T6-23** 7151–7160:1; **T6-30** 7683, 7686:2; **T6-31** 6832:2; **T6-33** 8084:2, 8083:3.

*Hantzschia amphioxys* (Ehr.) Grun. var. *constricta* Pant. – **T6-21** 7336! 7081–7082:5.

*Hantzschia amphioxys* (Ehr.) Grun. var. *maior* Grun. – **T6-17** 7567:3.

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## CONCLUSIONS

This enumeration confirms the well-known fact that Lake Balaton has a rich, diversified algal–diatom flora not only in present time, but even going back to 13,000–15,000 years. The presence of *Eunotia* and *Pinnularia* taxa confirm the one-time peat occurrence at the lower layers.

The high portion of the broken and damaged forms indicates that the accumulation process in the Lake Balaton is wind disturbed, as shown by the upper few (2–3) cm of the lake sediment.

The neotypification or synonymication of taxa described by J. Pantocsek would be a much needed and urgent task for the Hungarian algology, as Szemes emphasized it more than a half century ago (Szemes 1957). This big task has not been implemented until now.

\*

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