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Checklist of Baltic Sea Phytoplankton Species



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**Checklist of Baltic Sea
Phytoplankton Species**

(including some heterotrophic protistan groups)

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On the cover: The blue-green alga *Anabaena lemmermannii*.

Photo Seija Hällfors / FIMR

Two previous checklists of Baltic Sea phytoplankton (Hällfors 1980 (1979) and Edler *et al.* 1984) were titled "preliminary". Our knowledge of the taxonomy and distribution of Baltic Sea phytoplankton has increased considerably over the last 20 years. Much of this new information has been incorporated in this new list. Data from a number of older publications overlooked by Edler *et al.* (1984) has also been included. As a result, the number of species included has grown considerably. Especially the inclusion of more estuarine species adapted to salinities lower than those of the open Baltic Sea has increased the number of species. The new list also contains species which mainly grow in ice but form sparse planktonic populations in the beginning of the spring bloom, and species of benthic or littoral origin (whether epiphytic, epilithic, epipsammic, epipelagic, or rarely epizooic), that are occasionally found in the plankton. The benthic and littoral species are coded with an "l" in the checklist. Concerning the diatoms, especially in the order Bacillariales, it is usually impossible to tell whether the cells of such species have been alive when sampled because of the preparation techniques (including the removal of cell contents) required for an accurate determination.

Whereas the two previous lists were based to a large extent on our own unpublished information, in this list only additional *published* data has been included. Altogether the new list contains more than three times as much information as the earlier lists. Author citations have been made as complete as possible. In a complete author citation the Latin prepositions *in* and *ex* are frequently used. *In* indicates that the author has validly published a new taxon in another writer's work. The use of *ex* indicates that a name was invalid *e.g.* because an original description or type was not provided, but the situation was later corrected by the same or another author. In some cases the distinction between *ex* and *in* may be very fine, and requires careful study of the original publications, and sometimes even of the types, if indeed they exist any more. World War II appears to have destroyed many types. Where shorter citations are needed to save space, everything before *ex* and after *in* can be excluded, as well as the year of publication, unless nomenclatural or taxonomical changes are involved. Many journals require authorships to be cited either when the species occurs for the first time in the text, or in a summarizing table covering all the organisms mentioned. In many routine cases merely a reference to an authoritative checklist may be enough.

The factual and typographical errors found in the previous list (Edler *et al.* 1984) have been corrected, and the annotations revised. Annotations nowadays considered to be common knowledge have been deleted, while new comments have been necessary *e.g.* in several taxonomically complicated cases. Furthermore the list of references has been extended considerably.

Because many old original publications are no longer easily available, certain data is missing from some citations. Determining publication years has been particularly problematic. Often the year of a particular volume has been cited instead of the year when the issue in question was actually published, and these dates may differ by several years. Such problems cannot be solved without access to the individual issues. When bound, the covers of the issues are usually lost, and thereby information on the date of publication. This is a problem *e.g.* with Ehrenberg's publications from the mid 1800s, and A. Schmidt's Atlas from the late 1800s and early 1900s. Even the relatively recent Rabenhorst's Kryptogamenflora suffers from the same problem. In some cases an article has been divided between two issues printed in subsequent years. In rare cases even the description of a new species has been split in this way. I have tried to express this by putting an alternative publication year in brackets, or in the case of a species description being split, using a dash between the years.

The fact that organisms included in the checklist have been described either as a plant according to the International Code of Botanical Nomenclature (ICBN), or as an animal according to the corresponding zoological code (ICZN), may in some cases give rise to problems. The botanical code requires a Latin diagnosis for a name to be valid, whereas ICZN does not. Thus the validity of the name of an organism sometimes depends on whether it is today considered to be a plant or an animal. Sometimes the usage or spelling of even valid names may vary (see *e.g.* Vørs 1992:370). In flagellated organisms the use of two different codes is clearly a problem, when the same cell, depending on external factors, may behave as a plant (autotrophic, photosynthetic) or an animal (phagotrophic), or something in between (mixotrophic).

Arrangement of the checklist

For the purpose of the checklist the Baltic Sea has been divided into ten subareas (Fig. 1), the Bothnian Bay, the Bothnian Sea, the Archipelago Sea, the Gulf of Finland, the Gulf of Riga, the Northern Baltic proper, the Central Baltic proper, the Southern Baltic proper, the Arkona Basin, and the Kattegat and the Belt Sea area. For the abbreviations used in the checklist and below see Table 1. To facilitate the rapid location of samples well defined boundaries have been drawn, which differ somewhat from previously proposed 'natural' boundaries. When considering division of the area for other purposes, the boundaries suggested by Ekman (1931) and by Wattenberg (1949) should be taken into consideration (Edler *et al.* 1984).

The boundary between BB and BS is drawn from Vaasa on the Finnish coast to the westnorthwest to the cape southeast of Nordmaling (Sweden). AS is delimited by a line running from Uusikaupunki to the northern coast of the Åland Islands at 20°E, then southwards along 20°E from Lemland Järsö to the latitude of 59°45'N, and along this latitude eastwards to the tip of the Hanko peninsula. The boundary between GF and NB runs along 23°E, the southern boundary of GF towards GR is 59°N. NB is delimited by 59°45'N to the north, and 58°N to the south. The boundary between NB and GR between Saaremaa and Hiiumaa is drawn along 22°30'E, the boundary between CB and GR along the longitude of 22°E. The southern boundary of CB runs westwards from the boundary between Latvia and Lithuania approximately to the tip of Torhamnssudde in Sweden in the west. The boundary between SB and AB is drawn between the northwestern cape of Bornholm (Hammerodde, Denmark) to Sandhammaren in Sweden, and along the longitude from Duerodde on Bornholm to the Polish coast. The boundary between AB and KB runs from Darsser Ort (Germany) to the tip of Gedser Odde (on the island of Lolland, Denmark), and on from Stevns Klint (on Sjælland, Denmark) to the tip of the promontory at Falsterbo in Sweden. The boundary between KB and Skagerrak goes along the latitude from the tip of Skagen eastwards to the Swedish coast (Fig. 1).

A rather traditional algal system has been adopted for the checklist. This system is only slightly modified from the system employed by Christensen (1980–1994). Although blue-green algae are prokaryotes, and many authors prefer to call them Cyanobacteria or Cyanoprokaryota, they are functionally similar to eucaryotic algae and are therefore included here. In all major groups related heterotrophic taxa have been included. Some heterotrophic protist groups commonly observed in the plankton are appended. I have tried to avoid the inflation of higher taxa, a tendency already criticised by Zimmermann *et al.* (1985). For example regarding the diatoms an extreme case of inflationary systematics was published by Round *et al.* (1990). On the other hand, Krammer & Lange-Bertalot (1986–1991) use excessively wide taxonomical definitions for some genera, particularly the genus *Fragilaria* (Krammer & Lange-Bertalot 1991a). I have tried to find a path somewhere between these extremes. Attempts have been made to include all basionyms, and of the synonyms at least those which have been used in literature on Baltic Sea phytoplankton.

The names of taxa known to be heterotrophic are preceded by an asterisk (*). Mixotrophic taxa are not indicated at this stage because they are not yet sufficiently well known, and furthermore, the degree of mixotrophy is known to vary considerably between taxa, and even within the same taxon depending on the relative availability of mineral nutrients, light and prey. Ecological and other comments to the distribution of taxa are explained in Table 2.

Due to ongoing changes in systematics, taxonomy, species concepts and species' distributions, in addition to which new taxa are described all the time, checklists never actually reach completion, but should be continuously updated. Information on new taxa as well as suggestions for changes in systematics, taxonomy and nomenclature would be most welcome, as would be information on older publications missing from this list, missing or erroneous publication years, and other possible errors. Many species apparently have a much wider distribution than the records in this list indicate. I hope that the list will inspire researchers to fill in missing data, so that a revised edition can be published when the time is ripe.

This checklist, including references, will be posted on the website of the Helsinki Commission (www.helcom.fi). The checklist will be updated from time to time, and a link will be added to a separate file containing the relevant additions. All useful new information will be duly acknowledged.

Acknowledgements

Progress on the compilation of this checklist was rather slow in the late 1980s when most additions were done during my spare-time, much depending on what literature I stumbled over. The most comprehensive publications were put aside awaiting better days. Those better days began in October 1997 when Juha-Markku Leppänen, then leading the Alg@line project, employed me to complete the Baltic Sea Phytoplankton Checklist and to write new Baltic Sea Phytoplankton Sheets for the Finnish Institute of Marine Research (FIMR).

I would like to give my sincere thanks to all the people who have supported me and contributed to this work. My wife Seija Hällfors has given me continuous support through all the years of this project, and also provided the microphotographs included in the checklist. The libraries of Tvärminne Zoological Station, the former Department of Botany of the University of Helsinki, and FIMR have provided me with a wealth of information. Eeri Kukku gave me a number of references and useful hints. Malte Elbrächter (*in litt.*) made some very significant comments on the dinoflagellates, based on his own dinoflagellate list (Elbrächter 2002). Irina Olenina sent a comprehensive reprint on phytoplankton from Lithuanian coastal waters (Olenina 1996). Norbert Wasmund sent a review of his studies on the German Baltic Sea coast, and a list of his most significant publications. Iveta Ledaine (*in litt.*) sent a list of her phytoplankton records from the Latvian coast. Jirí Komárek and Gertrud Cronberg (*pers. comm.*) gave advice especially on the blue-green algae. My daughter Heidi Hällfors greatly helped to edit the final version of this checklist. I gratefully acknowledge the financial support provided by FIMR and HELCOM.

Last but not least, my thanks go to my teacher and long-time friend, Åke Niemi, who inspired me to become a phycologist, and who taught me the basics of Baltic Sea phytoplankton taxonomy, long ago.

References to the introduction and acknowledgements

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Table 1. Abbreviations for the ten subareas of the Baltic Sea

KB	Kattegat and the Belt Sea area	GR	Gulf of Riga
AB	Arkona Basin	GF	Gulf of Finland
SB	Southern Baltic proper	AS	Archipelago Sea
CB	Central Baltic proper	BS	Bothnian Sea
NB	Northern Baltic proper	BB	Bothnian Bay

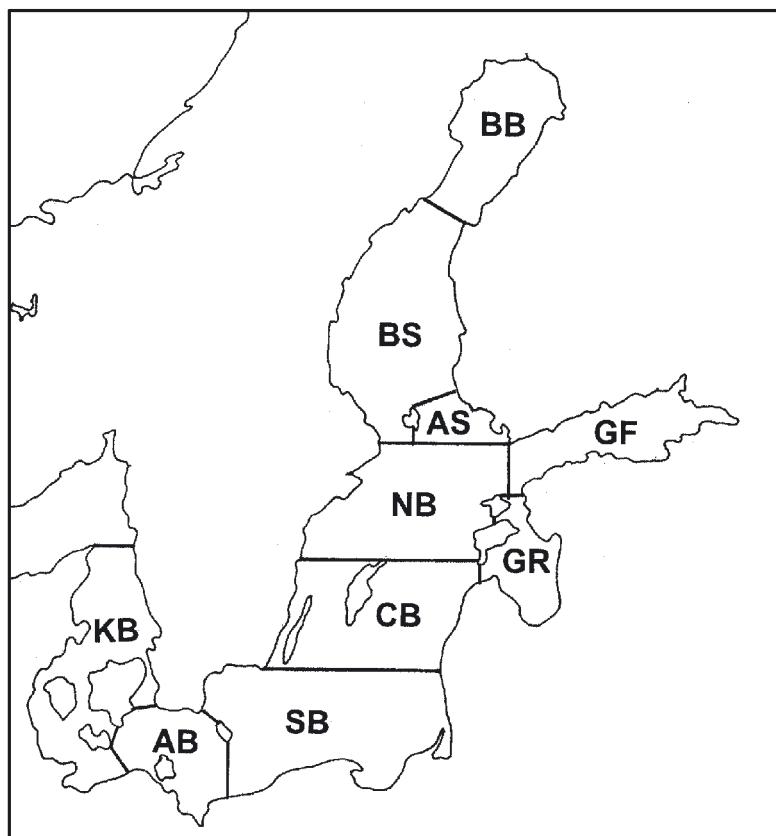


Fig. 1. The Baltic Sea with subareas indicated for which records of planktonic species are included in the checklist. For abbreviations see Table 1.

Table 2. Explanation of the symbols used in the checklist

+	occurrence without ecological characterization
c	cold water species
w	warm water species
l	main occurrence in the littoral
f	freshwater species which does not tolerate the full salinity of the area
b	species belonging to waters of lower salinity than that of the area
s	species belonging to waters of higher salinity than that of the area
e	main occurrence in eutrophied waters
?	questionable record
()	symbol not very strictly applicable, e.g. (c) = generally, but not exclusively cold water species
–	no record

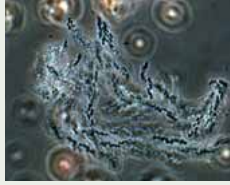
Numbers in bold font and brackets refer to annotations starting on p. 145.

Review of the system used, including some non-photosynthetic protist groups

Division CYANOPHYTA (CYANOBACTERIA)

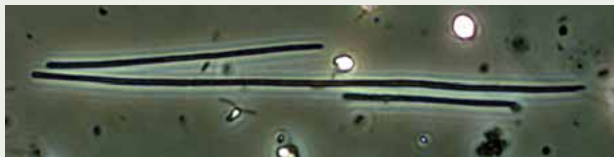
Class Nostocophyceae (Cyanophyceae) – Blue-green algae

Order CHROOCOCCALES



(*Aphanothece sp.*)

Order OSCILLATORIALES



(*Prochlorothrix sp.*
Oscillatorealean filaments)

*INCERTAE SEDIS – RELATED non-photosynthetic groups

Order NOSTOCALES



(*Nodularia spumigena*)

[Division RHODOPHYTA]

[Class Bangiophyceae (Rhodophyceae) – Red algae]

[Order PORPHYRIDALES]

Division CRYPTOPHYTA

Class Cryptophyceae – Recoiling algae

Order CRYPTOMONADALES



(*Teleaulax amphioxeia*)

Division DINOPHYTA (PYRRHOPHYTA)

Class Dinophyceae – Dinoflagellates

Order PROROCENTRALES



(*Prorocentrum minimum*)

Order DINOPHYSALES



(*Dinophysis norvegica*)

Order GYMNODINIALES

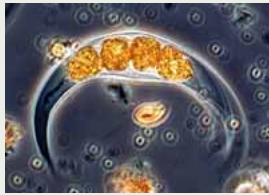
*(Amphidinium sphenoides)*

Order OXYRRHINALES

Order NOCTILUCALES

Order ACTINISCALES

Order PHYTODINIALES (BLASTODINIALES)

*(cf. Dissodinium pseudolunula)*

Order PERIDINIALES

*(Protoperidinium bipes)*

Order GONYAULACALES

*(Peridiniella catenata)*

Division HAPTOPHYTA

Class Prymnesiophyceae (Haptophyceae) – Haptophyte algae

Order PRYMNESIALES

*(Chrysochromulina sp.)*

Order PAVLOVALES

*(Pavlova sp.)*

Division CHRYSOPHYTA (HETEROKONTOPHYTA)

Class Chrysophyceae – Golden-brown algae

Order OCHROMONADALES

*(Dinobryon balticum)*

Order PARMALES

Order STICHOGLOEALES

Order PEDINELLALES



(*Pseudopedinella* sp.)

Class Dictyochophyceae

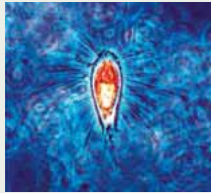
Order DICTYOCHALES



(*Dictyocha speculum*)

Class Synurophyceae

Order SYNURALES



(*Mallomonas caudata*)

Class Diatomophyceae (Bacillariophyceae) – Diatoms

Order EUPODISCALES (BIDDULPHIALES, CENTRALES) – Centric diatoms



(*Melosira arctica*)

Order BACILLARIALES (PENNALES) – Pennate diatoms



(*Achnanthes taeniata*)

Class Tribophyceae (Xanthophyceae, Heterokontae) – Yellow-green algae

Order RHIZOCHLORIDALES (CHLAMYDOMYXALES)

Order MISCHOCOCCALES (HETEROCOCCALES)

Order TRIBONEMATALES

[Class Eustigmatophyceae]

[Order EUSTIGMATALES]

Class Raphidophyceae (Chloromonadophyceae)

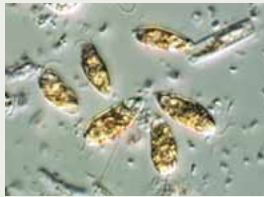
Order CHATTONELLALES

Order RAPHIDOMONADALES

Division EUGLENOPHYTA

Class Euglenophyceae – Euglenoids

Order EUGLENALES



(*Eutreptiella gymnastica.*)

Order SPHENOMONADALES



(*Anisonema prosgeobium*)

Division CHLOROPHYTA

Class Pedinophyceae (Loxophyceae)

Order PEDINOMONADALES

Class Prasinophyceae (Micromonadophyceae)

Order MAMIELLALES

Order CHLORODENDRALES



(*Pyramimonas sp.*)

Class Charophyceae

Order KLEBSORMIDIALES

Order ZYGNEMATALES



(*Mougeotia sp.*)

Class Chlorophyceae – Green algae

Order VOLVOCALES (incl. TETRASPORALES)



(*Eudorina sp.*)

Order CHLOROCOCCALES



(*Dictyosphaerium tetrachotomum*)

Order ULOTRICHALES
Order MICROSPORALES



(*Planctonema lauterbornii*)

Order OEDOGONIALES

Annex: Various non-photosynthetic protist groups

Phylum ZOOMASTIGOPHORA – Zooflagellates

Class Bicosoecida

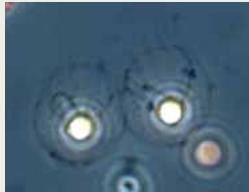
Order BICOSOECIDA (ICBN: BICOSOECALES)



(*Bicosoeca sp.*)

Class Choanoflagellida – Collar flagellates (ICBN: Craspedophyceae)

Order CHOANOFLAGELLIDA



(*Diaphanoeca sphaerica*)

Family CODOSIGIDAE

Family SALPINGOECIDAE

Family ACANTHOECIDAE

Class Eбриidea

Order EBRIIDA (ICBN: EBRIALES)



(*Ebria tripartita*)

Class Kinetoplastida

Order KINETOPLASTIDA

Incertae sedis

Family APUSOMONADIDAE

Family THAUMATOMASTIGIDAE (ICBN: THAUMATOMASTIGACEAE)

Order CERCOMONADIDA



KB AB SB CB NB GR GF AS BS BB

Division CYANOPHYTA (CYANOBACTERIA)

Class **Nostocophyceae** (Cyanophyceae) – Blue-green algae

Order CHROOCOCCALES

Aphanocapsa Nägeli 1849

delicatissima W. & G.S. West 1912

[*Microcystis pulvereae* f. *delicatissima* (W. & G.S. West) Elenkin 1938]

[*Microcystis delicatissima* (W. & G.S. West) Starmach 1966]

[*Microcystis reinboldii* sensu Pankow 1976 p.p.] (1)

elachista W. & G.S. West 1894 (2, 3)

[*Microcystis pulvereae* f. *elachista* (W. & G.S. West) Elenkin 1938]

[*Microcystis elachista* (W. & G.S. West) Starmach 1966]

[*Microcystis reinboldii* sensu Pankow 1990 p.p.] (1)

grevillei (Hassall) Rabenhorst 1865 (4)

[*Coccochloris grevillei* Hassall 1845]

[*Microcystis grevillei* (Hassall) Elenkin 1938]

holsatica (Lemmermann) Cronberg & Komárek 1994

[*Clathrocystis holsatica* Lemmermann 1903]

[*Microcystis holsatica* (Lemmermann) Lemmermann 1907]

[*Microcystis pulvereae* f. *holsatica* (Lemmermann) Elenkin 1938]

[*Microcystis reinboldii* sensu Pankow 1976, 1990 p.p.] (1)

incerta (Lemmermann) Cronberg & Komárek 1994

[*Polycystis incerta* Lemmermann 1899]

[*Microcystis incerta* (Lemmermann) Lemmermann 1910]

[*Microcystis pulvereae* v. *incerta* (Lemmermann) Crow 1923]

[*Microcystis pulvereae* f. *incerta* (Lemmermann) Elenkin 1938]

[*Microcystis reinboldii* sensu Pankow 1976, 1990 p.p.] (1)

parasitica (Kützing) Komárek & Anagnostidis 1995

[*Microcystis parasitica* Kützing 1843]

[*Anacystis parasitica* (Kützing) Trevisan 1848]

[*Microcystis pulvereae* f. *parasitica* (Kützing) Elenkin 1938]

planctonica (G.M. Smith) Komárek & Anagnostidis 1995

[*Aphanocapsa elachista* v. *planctonica* G.M. Smith 1920]

[*Microcystis pulvereae* f. *planctonica* (G.M. Smith) Elenkin 1938]

[*Microcystis reinboldii* sensu Pankow 1990 p.p.] (1)

reinboldii (P. Richter) Komárek & Anagnostidis 1995 (1)

[*Anacystis reinboldii* P. Richter in Reinbold 1889]

[*Microcystis reinboldii* (P. Richter) Forti in De Toni 1907]

rivularis (Carmichael) Rabenhorst 1865 (4, 5)

sp.

?	+	+	-	-	-	+	-	-	+
-	-	+	-	-	-	wf	-	-	-
-	-	+	-	-	-	-	-	-	-
?	-	?	-	-	-	-	-	-	-
f	f	+	+	+	-	-	-	+	-
-	-	-	-	-	-	+	-	-	-
-	-	-	-	-	-	wf	-	-	-
		-	-	-		-	-	-	-
-	-	+	-	-	-	-	-	-	-
+	-	-	-	-	-	+	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Aphanothece Nägeli 1849 <i>nom. cons.</i>										
<i>bachmannii</i> Komárková-Legnerová & Cronberg 1994 [<i>Aphanothece clathrata</i> v. <i>brevis</i> Bachmann 1923]	-	-	+	-	-	-	+	-	-	+
<i>castagnei</i> (Kützing) Rabenhorst 1865 (4, 6) [<i>Palmella castagnei</i> Kützing 1846]	-	-	+	-	-	-	-	-	-	-
<i>clathrata</i> W. & G.S. West 1906 [<i>Rhabdogloea clathrata</i> (W. & G.S. West) Komárek] [? <i>Rhabdoderma clathrata</i> auct.]	-	+	+	-	+	+	wf	-	w	+
<i>microscopica</i> Nägeli 1849 (4)	-	-	+	-	-	-	-	-	-	-
<i>minutissima</i> (W. West) Komárková-Legnerová & Cronberg 1994 [<i>Microcystis minutissima</i> W. West 1912]	-	-	+	-	-	?	-	-	-	-
<i>saxicola</i> Nägeli 1849 (4)	-	-	-	-	-	-	lf	-	-	-
<i>smithii</i> Komárková-Legnerová & Cronberg 1994 [<i>Aphanothece nidulans</i> sensu G.M. Smith 1920]	-	-	-	-	-	-	-	-	-	+
<i>stagnina</i> (Sprengel) A. Braun in Rabenhorst 1865 (7) [<i>Coccochloris stagnina</i> Sprengel 1827]	-	lf	lf	-	-	lf	-	-	-	-
sp.	+	+	+	-	+	-	+	-	+	+
Chroococcus Nägeli 1849										
<i>aphanocapsoides</i> Skuja 1964	-	-	+	-	-	+	-	-	-	-
<i>cohaerens</i> (Brébisson) Nägeli 1849 (4, 8) [<i>Pleurococcus cohaerens</i> Brébisson]	-	-	-	-	-		-	-	-	-
<i>cumulatus</i> Bachmann 1921 (2)	-	-	+	-	-	-	-	-	-	-
<i>dispersus</i> (von Keissler) Lemmermann 1904 [<i>Chroococcus minor</i> v. <i>dispersus</i> von Keissler 1902] [<i>Chroococcus limneticus</i> v. <i>subsalsus</i> Lemmermann 1901] [<i>Gloeocapsa minor</i> f. <i>dispersa</i> (von Keissler) Hollerbach in Elenkin 1938]	+	-	+	-	-	+	+	-	-	w
<i>distans</i> (G.M. Smith) Komárková-Legnerová & Cronberg 1994 [<i>Chroococcus limneticus</i> v. <i>distans</i> G.M. Smith 1920]	-	-	+	-	-	-	-	-	-	-
<i>limneticus</i> Lemmermann 1898 [<i>Gloeocapsa limnetica</i> (Lemmermann) Hollerbach in Elenkin 1938]	f	f	f	+	-	wf	wf	-	-	+
<i>microscopicus</i> Komárková-Legnerová & Cronberg 1994	-	-	-	-	-	+	+	-	-	+
<i>minimus</i> (von Keissler) Lemmermann 1904 [<i>Chroococcus minutus</i> v. <i>minimus</i> von Keissler 1901] [<i>Gloeocapsa minima</i> (von Keissler) Hollerbach in Elenkin 1938]	-	-	f	-	-	-	-	-	-	-
<i>minor</i> (Kützing) Nägeli 1849 (4) [<i>Protococcus minor</i> Kützing 1845?] [<i>Gloeocapsa minor</i> (Kützing) Hollerbach in Elenkin 1938]	-	-	lf	-	-	-	-	-	-	-
<i>minutus</i> (Kützing) Nägeli 1849 [<i>Protococcus minutus</i> Kützing 1843] [<i>Gloeocapsa minuta</i> (Kützing) Hollerbach in Elenkin 1938 p.p.]	-	+	+	-	w	w	w	+	+	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
turgidus (Kützing) Nägeli 1849	f	f	f	-	-	f	f	-	-	+
[<i>Protococcus turgidus</i> Kützing 1845?]										
[<i>Chroococcus dimidiatus</i> (Kützing) Nägeli 1849]										
[<i>Gloeocapsa turgida</i> (Kützing) Hollerbach in Elenkin 1938]										
sp.	-	-	+	+	-	-	+	-	-	+
Coelomoron Buell 1938										
pusillus (van Goor) Komárek 1989	f	f	+	+	+	-	+	-	+	+
[<i>Coelosphaerium pusillum</i> van Goor 1924]										
[<i>Gomphosphaeria pusilla</i> (van Goor) Komárek 1958]										
Coelosphaerium Nägeli 1849										
dubium Grunow in Rabenhorst 1865 (9)	b	+	+	-	-	-	+	-	-	-
kuetzingianum Nägeli 1849	f	f	wf	wf	wf	wf	wf	-	-	w
minutissimum Lemmermann 1900	-	+	+	+	+	+	+	-	-	-
subarcticum Komárek & Komárková-Legnerová 1992	-	-	-	-	-	-	+	-	-	-
Cyanocystis Borzi 1882										
sp.	-	+	-	-	-	-	-	-	-	-
Cyanodictyon Pascher 1914										
imperfectum Cronberg & Weibull 1981	-	-	+	-	-	-	+	-	-	+
planctonicum Meyer 1994	-	+	+	-	-	-	+	-	-	-
[<i>Cyanodictyon reticulatum</i> sensu Hickel 1981]										
reticulatum (Lemmermann) Geitler 1925	-	+	+	-	-	-	+	-	-	+
[<i>Polycystis (Clathrocystis) reticulata</i> Lemmermann 1898]										
[<i>Coelosphaerium reticulatum</i> (Lemmermann) Lemmermann 1910]										
sp.	-	-	+	-	-	-	-	-	-	-
Cyanonephron Hickel 1985										
styloides Hickel 1985	f	-	+	-	-	-	+	-	-	-
Dactylococcopsis Hansgirg 1888 (2, 10)										
raphidioides Hansgirg 1888 (2)	-	+	-	-	-	-	-	-	-	-
Eucapsis Clements & Shantz 1909										
alpina Clements & Shantz 1909 (4)	-	-	f	-	-	-	-	-	-	-
minuta Fritsch 1912 (4)	-	-	f	-	-	-	-	-	-	-
Gloeocapsopsis Geitler ex Komárek 1993										
crepidinum (Thuret) Geitler ex Komárek 1993 (4)	-	-	l	-	-	-	-	-	-	-
[<i>Protococcus crepidinum</i> Thuret 1854]										
[<i>Gloeocapsa crepidinum</i> (Thuret) Thuret in Bornet & Thuret 1876]										
[<i>Pleurocapsa crepidinum</i> (Thuret) Ercegovic 1930]										
Gomphosphaeria Kützing 1836										
aponina Kützing 1836	f	f	f	-	-	f	f	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
multiplex (Nygaard) Komárek 1989 (4) [<i>Gomphosphaeria aponina</i> v. <i>multiplex</i> Nygaard 1926] [<i>Gomphosphaeria aponina</i> f. <i>multiplex</i> (Nygaard) Elenkin]	–	–	–	–	–	f	–	–	–	–
salina Komárek & Hindák 1988	–	+	–	–	–	–	–	–	–	–
sp.	+	+	+	+	+	–	+	–	+	+
Lemmermanniella Geitler 1942										
pallida (Lemmermann) Geitler 1942 [<i>Coelosphaerium pallidum</i> Lemmermann 1898] [<i>Lemmermannia pallida</i> (Lemmermann) Elenkin 1933]	f	–	–	–	–	–	–	–	–	+
parva Hindák 1985	–	–	–	–	–	–	+	–	+	+
sp.	–	–	–	–	–	–	+	–	–	–
Merismopedia Meyen 1839										
elegans A. Braun in Kützing 1849 (4)	–	+	–	–	–	+	–	–	–	–
glauca (Ehrenberg) Kützing 1845 (4)	+	+	+	–	–	+	+	–	+	–
punctata Meyen 1839 (4)	+	+	+	+	+	+	+	–	+	–
tenuissima Lemmermann 1898	+	+	+	–	–	+	+	–	–	+
warmingiana (Lagerheim) Geitler 1932 [<i>Merismopedium hyalinum</i> ssp. <i>warmingianum</i> Lagerheim 1883]	+	+	+	+	–	+	+	+	+	+
sp.	+	+	+	–	–	–	+	–	–	+
Microcrocis P. Richter in Hauck & Richter 1892 [<i>Holopedia</i> Lagerheim 1893]										
geminata (Lagerheim) Geitler 1942 [<i>Merismopedia geminata</i> Lagerheim 1883] [<i>Microcrocis dietelii</i> P. Richter in Hauck & Richter 1892] [<i>Holopedia geminata</i> (Lagerheim) Lagerheim 1893] [<i>Holopedium dietelii</i> (P. Richter) Migula 1905]	–	–	f	–	–	–	–	–	–	–
sabulicola (Lagerheim) Geitler 1942 [<i>Merismopedium sabulicolum</i> Lagerheim 1883] [<i>Holopedia sabulicola</i> (Lagerheim) Kirchner 1900]			–	–	–	–	–	–	–	–
Microcystis Kützing ex Lemmermann 1907 <i>nom. cons.</i>										
aeruginosa (Kützing) Kützing 1846 [<i>Micraloa aeruginosa</i> Kützing 1833] [<i>Polycystis aeruginosa</i> (Kützing) Kützing 1846] [<i>Diplocystis aeruginosa</i> (Kützing) Trevisan 1848] [<i>Clathrocystis aeruginosa</i> (Kützing) Henfrey 1856]	wf	wf	wf	+	wf	wf	wf	–	wf	–
firma (Kützing) Schmidle 1902 (11) [<i>Micraloa firma</i> Kützing 1845–49]	–	–	–	–	–	–	–	–	–	–
flos-aquae (Wittrock in Wittrock & Nordstedt) Kirchner 1900 [<i>Polycystis flos-aquae</i> Wittrock in Wittrock & Nordstedt 1879] [<i>Microcystis aeruginosa</i> f. <i>flos-aquae</i> (Wittrock) Elenkin 1938]	f	f	f	–	–	–	–	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
ichthyoblabe Kützing 1843	f	f	fe	-	-	-	-	-	-	-
[<i>Polycystis ichthyoblabe</i> Kützing 1845–49]										
[<i>Polycystis elabens</i> v. <i>ichthyoblabe</i> (Kützing) Hansgirg]										
novacekii (Komárek) Compère 1974	-	-	+	-	-	-	-	-	-	-
[<i>Diplocystis novacekii</i> Komárek 1958]										
[<i>Microcystis marginata</i> auct.]										
pulverea (Wood) Forti in De Toni 1907 <i>sensu auct.</i> (2)	-	-	+	-	-	-	-	-	-	-
scripta (P. Richter) Lemmermann 1903 (2)	f	-	-	-	-	-	-	-	-	-
[<i>Polycystis scripta</i> P. Richter in Hauck & Richter 1895?]										
smithii Komárek & Anagnostidis 1995	-	-	+	-	-	-	-	-	-	-
[<i>Aphanocapsa pulchra</i> (Kützing) Rabenhorst 1865]										
[<i>Microcystis grevillei</i> sensu G.M. Smith 1920]										
[<i>Microcystis grevillei</i> f. <i>pulchra</i> (Kützing) Elenkin 1936]										
[non <i>Microcystis pulchra</i> Flotow 1842]										
stagnalis (Lemmermann) Lemmermann 1903 (2)	?	+	+	-	-	-	-	-	-	-
[<i>Polycystis stagnalis</i> Lemmermann 1900]										
[<i>Microcystis reinboldii</i> sensu Pankow 1976, 1990 <i>p.p.</i>] (1)										
viridis (A. Braun in Rabenhorst) Lemmermann 1902	-	f	f	-	-	-	-	-	-	-
[<i>Polycystis viridis</i> A. Braun in Rabenhorst 1862]										
[<i>Microcystis aeruginosa</i> f. <i>viridis</i> (A. Braun in Rabenhorst) Elenkin 1938]										
wesenbergii (Komárek) Komárek in Kondrat'eva 1968	-	f	f	-	-	f	f	-	-	-
[<i>Diplocystis wesenbergii</i> Komárek 1958]										
sp.	+	+	+	+	+				+	+
Pannus Hickel 1991										
spumosus Hickel 1991	f	-	-	-	-	-	-	-	-	-
Radiocystis Skuja 1948										
geminata Skuja 1948	-	-	f	-	-	-	-	-	-	-
Rhabdoderma Schmidle & Lauterborn 1900										
compositum (G.M. Smith) Fedorov 1967	-	+	-	-	-	-	-	-	-	-
[<i>Gloeotheca linearis</i> v. <i>composita</i> G.M. Smith 1920]										
[<i>Rhabdoderma lineare</i> f. <i>compositum</i> (G.M. Smith) Hollerbach in Elenkin 1938]										
[<i>Gloeotheca composita</i> (G.M. Smith) Martens & Pankow 1972]										
lineare Schmidle & Lauterborn 1900	-	f	-	-	-	-	f	-	-	-
Rhabdogloea Schröder 1917										
ellipsoidea Schröder 1917 (2, 4, 12)	-	-	-	-	-	-	-	-	-	+
[<i>Dactylococcopsis ellipsoidea</i> (Schröder) Geitler 1942]										
linearis (Geitler) Komárek 1983	-	-	+	-	-	-	-	-	-	-
[<i>Dactylococcopsis linearis</i> Geitler 1935]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
kuetzingii (Schmidle) Compère 1986 (14) [<i>Lyngbya kuetzingii</i> Schmidle 1897]	-	-	-	-	-			-	-	-
Jaaginema Anagnostidis & Komárek 1988										
geminatum (Meneghini ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria geminata</i> Meneghini ex Gomont 1892]	-	-	-	-	-	?	+	-	-	-
subtilissimum (Kützing ex De Toni) Anagnostidis & Komárek 1988 [<i>Oscillatoria subtilissima</i> Kützing ex De Toni 1907]	-	-	lf	-	-	?	-	-	-	-
Leibleinia (Gomont) L. Hoffmann 1985										
epiphytica (Hieronymus in Kirchner) Anagnostidis & Komárek 1988 (14) [<i>Lyngbya epiphytica</i> Hieronymus in Kirchner 1900]	-	-	-	-	-		-	-	-	-
Leptolyngbya Anagnostidis & Komárek 1988										
tenuis (Gomont) Anagnostidis & Komárek 1988 [<i>Phormidium tenue</i> Gomont 1892]	-	-	-	-	-			-	-	-
sp.	-	+	-	-	-	-	-	-	-	-
Limnothrix Meffert 1988										
planctonica (Wołoszyńska) Meffert 1988 [<i>Oscillatoria planctonica</i> Wołoszyńska 1911]	-	-	f	+	-	f	f	-	-	-
redekei (Van Goor) Meffert 1988 [<i>Oscillatoria redekei</i> Van Goor 1918]	-	-	f	-	-	-	-	-	-	-
Lyngbya C.A. Agardh ex Gomont 1892 <i>nom. cons.</i>										
aestuarii (Mertens in Jürgens) Liebman ex Gomont 1892	-		-	-	-			-	-	-
majuscula Harvey in Hooker ex Gomont 1892			-	-	-		-	-	-	-
lutea (C.A. Agardh) Gomont ex Gomont 1892			-	-	-			-	-	-
sp.	-	+	-	-	-	-	+	-	-	-
Oscillatoria Vaucher ex Gomont 1892										
annae van Goor 1918	-	-	-	-	-	+	-	-	-	-
bonnemaisonii Crouan in Desmazières ex Gomont 1892			-	-	-	-	-	-	-	-
chlorina Kützing ex Gomont 1892 (15)	-	?	?	-	-		-	-	-	-
curviceps C.A. Agardh ex Gomont 1892	+	+	w	-	-	+	wf	-	-	-
limosa C.A. Agardh ex Gomont 1892	+	-	+	-	wle	wle	wle	-	-	wl
margaritifera Kützing ex Gomont 1892	-		-	-	-		-	-	-	-
princeps Vaucher ex Gomont 1892	-	-	-	-	-			-	-	-
proboscidea Gomont 1892	-	-	+	-	-	-	-	-	-	-
sancta Kützing ex Gomont 1892 (16)	-	?	?	-	-	-	-	-	-	-
subsalsa C.A. Agardh ex Gomont 1892, <i>species inquir.</i> (2, 15)	-	+	-	-	-	-	-	-	-	-
Phormidium Kützing ex Gomont 1892 <i>sensu</i> Anagnostidis & Komárek 1988										
amphibium (C.A. Agardh ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria amphibia</i> C.A. Agardh ex Gomont 1892]	f	f	-	-	-	+	wlf	-	+	-
autumnale C.A. Agardh ex Gomont 1892	-	-	-	-	-	-		-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
breve (Kützing ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria brevis</i> Kützing ex Gomont 1892]	-	-	-	-	-	+	-	-	-	-
chalybeum (Mertens ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria chalybea</i> Mertens ex Gomont 1892]			-	-	-		wlf	-	-	-
dictyothallum Skuja 1948 (2)	-	-	-	+	-	-	-	-	-	-
formosum (Bory ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria formosa</i> Bory ex Gomont 1892]	-	+	-	-	-	+	-	-	-	-
irriguum (Kützing ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria irrigua</i> Kützing ex Gomont 1892]	-	-	-	-	-	+	-	-	-	-
kuetzingianum (Kirchner) Anagnostidis & Komárek 1988 [<i>Lyngbya kuetzingiana</i> Kirchner 1878]	-	-	-	-	-		-	-	-	-
neotenue G. Hällfors <i>nom. nov.</i> (17) [<i>Oscillatoria tenuis</i> C.A. Agardh ex Gomont 1892] [<i>Phormidium tenue</i> (C.A. Agardh ex Gomont) Anagnostidis & Komárek 1988 <i>nom. illeg.</i>] [non <i>Phormidium tenue</i> Gomont 1892] [= <i>Leptolyngbya tenuis</i> (Gomont) Anagnostidis & Komárek 1988]	+	+	w	-	-	wle	wle	-	+	wle
okenii (C.A. Agardh ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria okenii</i> C.A. Agardh ex Gomont 1892]	-		-	-	-	-	wlfe	-	-	-
splendidum (Greville ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria splendida</i> Greville ex Gomont 1892]	-	-	-	-	-	-	f	-	-	-
subuliforme (Thwaites ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria subuliformis</i> Thwaites ex Gomont 1892]	+	+	-	-	-	-	-	-	-	-
terebriforme (C.A. Agardh ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria terebriformis</i> C.A. Agardh ex Gomont 1892]	-	-	-	-	-	+	-	-	-	-
Planktolyngbya Anagnostidis & Komárek 1988										
bipunctata (Lemmermann) Anagnostidis & Komárek 1988 [<i>Lyngbya bipunctata</i> Lemmermann 1899]	-	-	f	-	-	-	-	-	-	-
contorta (Lemmermann) Anagnostidis & Komárek 1988 [<i>Lyngbya contorta</i> Lemmermann 1898]	f	f	f	-	-	-	f	-	-	-
lacustris (Lemmermann) Anagnostidis & Komárek 1988 [<i>Lyngbya lacustris</i> Lemmermann 1898]	-	-	-	-	-	?	-	-	-	-
limnetica (Lemmermann) Komárková-Legnerová & Cronberg 1992 [<i>Lyngbya limnetica</i> Lemmermann 1898] [<i>Planktolyngbya subtilis</i> (W. West) Anagnostidis & Komárek 1988 <i>sine typo</i>] [non <i>Lyngbya subtilis</i> W. West 1892]	+	+	+	-	+	+	+	-	w	-
Planktothrix Anagnostidis & Komárek 1988										
agardhii (Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria agardhii</i> Gomont 1892]	-	wef	wef	-	wef	we	we	-	we	we

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>cryptovaginata</i> (Škorbatov) Anagnostidis & Komárek 1988 [<i>Lyngbya cryptovaginata</i> Škorbatov 1923]	-	-	-	-	-	+	-	-	-	-
<i>mougeotii</i> (Bory ex Gomont) Anagnostidis & Komárek 1988 [<i>Oscillatoria mougeotii</i> Bory ex Gomont 1892] [<i>Oscillatoria agardhii</i> v. <i>isothrix</i> Skuja 1948]	-	-	-	-	-	+	wf	-	-	-
sp.	-	-	+	-	-	-	-	-	-	-
<i>Pseudanabaena</i> Lauterborn 1915										
<i>biceps</i> Böcher 1946	-	-	-	-	-	+	-	-	-	-
<i>limnetica</i> (Lemmermann) Komárek 1974 [<i>Oscillatoria limnetica</i> Lemmermann 1900]	+	+	w	+	w	w	w	w	w	w
<i>mucicola</i> (Naumann & Huber-Pestalozzi) Bourrelly 1970 [<i>Phormidium mucicola</i> Naumann & Huber-Pestalozzi in Huber-Pestalozzi & Naumann 1929]	-	-	-	-	-	-	f	-	-	-
sp.	+	+	+	-	-	-	+	-	+	-
<i>Romeria</i> Koczwara ex Geitler 1932 [<i>Raciborskia</i> Koczwara 1928 <i>nom. illeg.</i>] [non <i>Raciborskia</i> Wołoszyńska 1919]										
<i>elegans</i> Wołoszyńska ex Geitler 1932	-	-	-	-	-	-	f	-	-	-
<i>Spirulina</i> Turpin ex Gomont 1892										
<i>baltica</i> Martens & Pankow 1972	-	f	-	-	-	-	+	-	-	-
<i>laxissima</i> G.S. West 1907	-	-	+	-	-	-	-	-	-	-
<i>major</i> Kützing ex Gomont 1892	-	+	-	-	-	+	+	-	+	-
<i>meneghiniana</i> Zanardini ex Gomont 1892	-	-	+	-	-	-	-	-	-	-
<i>subsalsa</i> Ørsted ex Gomont 1892	-	-	-	-	-				-	-
sp.	-	-	-	-	-	-	+	-	+	-
<i>Trichodesmium</i> Ehrenberg ex Gomont 1892										
<i>lacustre</i> Klebahn 1895 (91) [<i>Oscillatoria lacustris</i> (Klebahn) Geitler 1925] [<i>Skujaella lacustris</i> (Klebahn) J. De Toni 1938]	-	f	f	-	-	-	-	-	-	+
<i>Tychonema</i> Anagnostidis & Komárek 1988										
<i>bornetii</i> (Zukal) Anagnostidis & Komárek 1988 [<i>Lyngbya bornetii</i> Zukal 1894] [<i>Oscillatoria bornetii</i> (Zukal) Forti 1907]	-	-	-	-	-	wlf	wlf	-	-	-
<i>tenue</i> (Skuja) Anagnostidis & Komárek 1988 [<i>Oscillatoria bornetii</i> f. <i>tenuis</i> Skuja 1930]	-	-	-	-	-	-	wf	-	-	-
*INCERTAE SEDIS – RELATED non-photosynthetic groups (presently classified as bacteria)										
* <i>Achroonema</i> Skuja 1948										
* <i>lentum</i> Skuja 1956	+	+	-	+	-	-	+	-	+	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
longicellularis (Pankow) Komárková-Legnerová & Eloranta 1992 <i>nom. inval.</i> (18) [<i>Anabaena spiroides</i> f. <i>longicellularis</i> Pankow 1965]	-	-	+	-	-	-	-	-	-	-
macrospora Klebahn 1895	-	-	f	-	-	-	f	-	-	wf
oscillarioides Bory ex Bornet & Flahault 1886 (19)	-	-	-	-	-		-	-	-	-
planctonica Brunthaler 1903 [<i>Anabaena solitaria</i> f. <i>planctonica</i> (Brunthaler) Komárek 1958] [<i>Anabaena scheremetievii</i> Elenkin 1909 <i>p.p.</i>]	-	-	f	-	-	-	-	-	-	wf
smithii (Komárek) M. Watanabe 1991 [<i>Anabaena solitaria</i> f. <i>smithii</i> Komárek 1958] [<i>Anabaena planctonica</i> sensu G.M. Smith 1920] [non <i>Anabaena planctonica</i> Brunthaler 1903]	-	?	?	-	-	-	-	-	-	-
solitaria Klebahn 1895 [<i>Anabaena catenula</i> v. <i>solitaria</i> (Klebahn) Geitler 1932]	-	-	f	-	-	-	f	-	-	-
spiroides Klebahn 1895	wef	wf	wf	+	-	wf	wf	-	-	w
torulosa (Carmichael ex Harvey in Hooker) Lagerheim ex Bornet & Flahault 1886	-	-	-	-	-			-	-	-
sp.	+	+	+	+	+	-	+	+	+	+
Anabaenopsis (Wołoszyńska) V. Miller 1923										
arnoldii Aptekarj 1926	wef	-	-	-	-	-	-	-	-	-
elenkinii V. Miller 1923	wef	-	-	-	-	-	we	e	-	-
milleri Woronichin 1929 (20)	-	-	-	-	-	-	-	-	-	-
sp.	-	-	-	-	-	-	+	-	+	+
Aphanizomenon Morren ex Bornet & Flahault 1886										
flos-aquae (L.) Ralfs ex Bornet & Flahault 1886 [<i>Byssus flos-aquae</i> L. 1753]	f	-	-	-	-	?	f	-	-	-
gracile (Lemmermann) Lemmermann 1910 [<i>Aphanizomenon flos-aquae</i> v. <i>gracile</i> Lemmermann 1898] [<i>Aphanizomenon flos-aquae</i> f. <i>gracile</i> (Lemmermann) Elenkin 1938]	-	-	w	-	w	-	w	+	-	w
issatschenkoi (Usacev) Proschkina-Lavrenko [<i>Anabaena issatschenkoi</i> Usacev] [<i>Raphidiopsis mediterranea</i> Skuja]	-	-	+	-	-	-	f	-	-	-
klebahnii (Elenkin) Pechar & Kalina [<i>Aphanizomenon flos-aquae</i> v. <i>klebahnii</i> Elenkin 1909] [<i>Aphanizomenon flos-aquae</i> f. <i>klebahnii</i> (Elenkin) Elenkin 1938]	-	-	-	-	-	-	+	-	-	-
yezoense M. Watanabe 1991	-	-	+	-	-	-	-	-	-	-
sp. ('baltica' nom. ined.) (21) [<i>Aphanizomenon flos-aquae</i> auct.]	wb	w	w	w	w	w	w	w	w	+
sp.	-	+	-	-	-	-	+	-	+	-
Gloeotrichia J.G. Agardh ex Bornet & Flahault 1886										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>echinulata</i> J.E. Smith ex P. Richter 1894 (91)	–	f	f	–	–	–	f	–	–	–
<i>Nodularia</i> Mertens ex Bornet & Flahault 1886 <i>nom. cons.</i>										
<i>baltica</i> Komárek <i>et al.</i> 1993 [<i>Nodularia harveyana</i> auct. ?]	+	+	–	–	–	–	–	–	–	–
<i>harveyana</i> Thuret ex Bornet & Flahault 1886 (22, 23)	l	l	l	–	l	l	l	–	–	–
<i>litorea</i> (Kützinger) Thuret ex Komárek <i>et al.</i> 1993 [<i>Nodularia spumigena</i> v. <i>litorea</i> (Kützinger) Bornet & Flahault 1886] [? <i>Nodularia spumigena</i> v. <i>major</i> (Kützinger) Bornet & Flahault 1886]	–	+	–	–	–	w	+	–	–	–
<i>sphaerocarpa</i> Bornet & Flahault 1886 [<i>Nodularia harveyana</i> v. <i>sphaerocarpa</i> (Bornet & Flahault) Elenkin 1916]	–	–	–	–	–	–	(l)	–	–	–
<i>spumigena</i> Mertens ex Bornet & Flahault 1886	wb	w	w	w	w	w	w	w	w	+
sp.	+	–	–	–	–	–	–	–	–	–
<i>Trichormus</i> (Ralfs ex Bornet & Flahault) Komárek & Anagnostidis 1989										
<i>variabilis</i> (Kützinger ex Bornet & Flahault) Komárek & Anagnostidis 1989 (4, 24, 25) [<i>Anabaena variabilis</i> Kützinger ex Bornet & Flahault 1886]	–	wef	wef	–	–	?	wf	–	–	–

Division RHODOPHYTA

Class **Bangiophyceae** (Rhodophyceae) – Red algae

Order PORPHYRIDALES (92)

Division CRYPTOPHYTA

Class **Cryptophyceae** – Recoiling algae

Order CRYPTOMONADALES

Campylomonas Hill 1991 ***reflexa*** (Marsson *emend.* Skuja) Hill 1991 [*Cryptomonas erosa* v. *reflexa* Marsson 1904] [*Cryptomonas reflexa* (Marsson) Skuja 1939] [*Cryptomonas marssonii* Skuja 1948] [*Cryptomonas gracilis* Skuja 1948]***Chroomonas*** Hansgirg 1885 ***baltica*** (Büttner) N. Carter 1937 [*Cyanomonas baltica* Büttner 1911] ***vectensis*** N. Carter 1937 **sp.*****Cryptomonas*** Ehrenberg 1832 ***curvata*** Ehrenberg 1832? (26) ***erosa*** Ehrenberg 1832 ***obovata*** Skuja 1948 ***ovata*** Ehrenberg 1832

<i>reflexa</i> (Marsson <i>emend.</i> Skuja) Hill 1991 [<i>Cryptomonas erosa</i> v. <i>reflexa</i> Marsson 1904] [<i>Cryptomonas reflexa</i> (Marsson) Skuja 1939] [<i>Cryptomonas marssonii</i> Skuja 1948] [<i>Cryptomonas gracilis</i> Skuja 1948]	–	–	f	–	–	–	f	–	–	–
<i>Chroomonas</i> Hansgirg 1885										
<i>baltica</i> (Büttner) N. Carter 1937 [<i>Cyanomonas baltica</i> Büttner 1911]	+	–	+	–	–	+	–	–	+	–
<i>vectensis</i> N. Carter 1937	+	–	–	–	–	–	–	–	–	–
sp.	+	–	–	–	–	–	–	–	–	–
<i>Cryptomonas</i> Ehrenberg 1832										
<i>curvata</i> Ehrenberg 1832? (26)	–	–	?	–	–	–	–	–	–	–
<i>erosa</i> Ehrenberg 1832	–	–	?	–	–	–	f	–	+	+
<i>obovata</i> Skuja 1948	–	–	?	–	–	–	–	–	–	–
<i>ovata</i> Ehrenberg 1832	–	–	f	–	–	–	f	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>pelagica</i> (Lohmann) Butcher 1967 (2) [<i>Rhodomonas pelagica</i> Lohmann 1908]	+	+	+	+	-	-	-	-	+	+
<i>platyuris</i> Skuja 1948	-	-	?	-	-	-	-	-	-	-
sp.	-	-	-	-	-	-	+	-	+	-
* <i>Goniomonas</i> Stein 1878										
* <i>amphinema</i> Larsen & Patterson 1990	+	-	-	-	-	-	+	-	-	-
* <i>pacifica</i> Larsen & Patterson 1990	+	-	-	-	-	-	+	-	-	-
* <i>truncata</i> (Fresenius) Stein 1878 [<i>Monas truncata</i> Fresenius 1858] [<i>Cyathomonas truncata</i> (Fresenius) Fisch 1885]	+	-	-	-	-	-	+	-	-	-
* sp.	+	-	-	-	-	-	-	-	-	+
<i>Hemiselmis</i> Parke 1949										
<i>virescens</i> Droop 1955	+	+	+	+	+	+	+	+	+	+
sp.	-	-	-	+	-	-	-	+	+	-
<i>Komma</i> Hill 1991										
<i>caudata</i> (Geitler) Hill 1991 [<i>Chroomonas caudata</i> Geitler 1924] [<i>Chroomonas acuta</i> Utermöhl 1925]	-	-	f	-	-	-	-	-	-	-
<i>Plagioselmis</i> Butcher ex Hill 1990										
<i>prolonga</i> Butcher 1967 (27)	+	+	+	-	?	+	+	+	+	+
sp.	-	+	+	+	-	-	+	-	+	+
<i>Rhodomonas</i> Karsten <i>emend.</i> Hill & Wetherbee 1989										
<i>baltica</i> Karsten 1898 [<i>Cryptomonas baltica</i> (Karsten) Butcher 1967] [<i>Cryptomonas pseudobaltica</i> Butcher 1967]	+	+	+	+	-	-	-	-	+	+
<i>lacustris</i> Pascher & Ruttner <i>in</i> Pascher 1913 (2)										
v. <i>lacustris</i> (19, 27) [<i>Cryptomonas pusilla</i> Bachmann 1923] [<i>Rhodomonas minuta</i> Skuja 1948] [<i>Rhodomonas pusilla</i> (Bachmann) Javornický 1967]	?	?	f	?	?	?	f	?	?	+
v. <i>nannoplanctica</i> (Skuja) Javornický 1976 (2, 27) [<i>Rhodomonas minuta</i> v. <i>nannoplanctica</i> Skuja 1948]	-	f	-	-	-	-	-	-	-	-
<i>lens</i> Pascher & Ruttner (2, 4)	+	+	-	+	-	-	-	-	+	+
<i>marina</i> (Dangeard) Lemmermann 1908 [<i>Cryptomonas marina</i> Dangeard 1892] [<i>Cryptomonas marina</i> Büttner 1911] [<i>Chroomonas marina</i> (Büttner) Butcher 1967] [? <i>Rhodomonas pelagica</i> Lohmann 1908]	+	+	-	-	-	+	+	-	+	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Exuviaella lenticulata</i> Matzenauer 1933]										
[<i>Exuviaella elongata</i> Rampi 1951]										
lima (Ehrenberg) Dodge 1975	(l)	(l)	-	-	-	-	-	-	-	-
[<i>Cryptomonas lima</i> Ehrenberg 1860]										
[<i>Exuviaella marina</i> Cienkowski 1881]										
[<i>Dinopyxis laevis</i> Stein 1883]										
[<i>Exuviaella lima</i> (Ehrenberg) Bütschli 1885]										
[<i>Exuviaella laevis</i> (Stein) B. Schröder 1900]										
[<i>Exuviaella cincta</i> Schiller 1918]										
[<i>Exuviaella ostenfeldii</i> Schiller 1933]										
[<i>Exuviaella marina</i> v. <i>lima</i> (Ehrenberg) Schiller 1933]										
[<i>Exuviaella caspica</i> Kiselev 1940]										
[<i>Prorocentrum marinum</i> Dodge & Bibby 1973 <i>comb. inval.</i>]										
micans Ehrenberg 1833 (28)	w	w	w	+	-	?	-	?	?	-
[<i>Prorocentrum schilleri</i> Böhm in Schiller 1933]										
[<i>Prorocentrum levantoides</i> Bursa 1959]										
[<i>Prorocentrum pacificum</i> Wood 1963]										
minimum (Pavillard) Schiller 1933	w	w	w	w	w	w	w	?	-	-
[<i>Exuviaella minima</i> Pavillard 1916]										
[<i>Exuviaella apora</i> sensu Lebour 1925 <i>p.p.</i>]										
[<i>Prorocentrum triangulatum</i> Martin 1929]										
[<i>Exuviaella mariae-lebouriae</i> Parke & Ballantine 1957]										
[<i>Prorocentrum cordiformis</i> Bursa 1959]										
[<i>Prorocentrum minimum</i> v. <i>mariae-lebouriae</i> (Parke & Ballantine) Hulburt 1965 <i>comb. inval.</i>]										
[<i>Prorocentrum minimum</i> v. <i>triangulatum</i> (Martin) Hulburt 1965 <i>comb. inval.</i>]										
[<i>Prorocentrum mariae-lebouriae</i> (Parke & Ballantine) Loeblich III 1970]										
[? <i>Exuviaella cordata</i> Ostenfeld 1901]										
scutellum Schröder 1900 (28, 29)	+	-	-	-	-	+	-	-	-	-
sp.	-	+	-	-	-	-	-	-	-	-

Order DINOPHYSALES

Dinophysis Ehrenberg 1840

acuminata Claparède & Lachmann 1859

[*Dinophysis rotundata* Levander 1894, 1901]

[*Dinophysis ovum* v. *baltica* Paulsen 1908]

[*Dinophysis arctica* sensu Wołoszyńska 1928]

[*Dinophysis baltica* (Paulsen) Wołoszyńska 1928]

[*Dinophysis cassubica* Wołoszyńska 1928]

(w) (w) (w) (w) (w) (w) (w) (w) (w) (w)

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Order GYMNODINIALES										
Amphidinium Claparède & Lachmann 1859										
<i>acutissimum</i> Schiller 1933	+	-	-	+	-	-	-	-	-	-
<i>carterae</i> Hulburt 1957	+	-	-	-	-	-	-	-	-	-
* <i>crassum</i> Lohmann 1908	+	?	+	+	+	+	+	-	+	+
<i>elenkinii</i> Skvortzow 1925 (2, 4)	-	-	-	-	+	-	+	-	-	-
* <i>incoloratum</i> Campbell 1973	+	-	-	-	-	-	-	-	-	-
* <i>longum</i> Lohmann 1908	+	+	+	+	+	-	+	-	+	+
[? <i>Amphidinium acutum</i> Lohmann 1920]										
<i>operculatum</i> Claparède & Lachmann 1859	+	+	+	-	-	-	+	-	-	-
[<i>Amphidinium klebsii</i> Kofoid & Swezy 1921]										
<i>ovoideum</i> (Lemmermann) Lemmermann 1900	+	-	-	-	-	-	-	-	-	-
[<i>Proocentrum ovoideum</i> Lemmermann 1896]										
* <i>pellucidum</i> Herdman 1922	-	-	-	-	+	-	+	-	+	+
[? <i>Amphidinium subsalsum</i> Biecheler 1952] (106)										
<i>semilunatum</i> Herdman 1923	-	-	+	-	-	-	-	-	-	-
* <i>sphenoides</i> Wulff 1916	+	-	-	+	-	-	-	-	+	-
[<i>Gymnodinium filum</i> Lebour 1917]										
<i>steinii</i> (Lemmermann) Kofoid & Swezy 1921	+	+	-	+	-	-	-	-	-	-
[<i>Amphidinium operculatum</i> v. <i>steinii</i> Lemmermann 1910]										
sp.	+	+	+	+	+	-	+	-	+	+
Cochlodinium Schütt 1896										
cf. <i>helicooides</i> Lebour 1925	+	-	-	-	-	-	-	-	-	-
<i>pellucidum</i> Lohmann 1908	+	-	-	-	-	-	-	-	-	-
cf. <i>pupa</i> Lebour 1925	+	-	-	-	-	-	-	-	-	-
sp.	-	+	-	-	-	-	-	-	-	-
Gymnodinium Stein 1878										
<i>aeruginosum</i> Stein 1883	-	-	-	-	-	-	f	-	-	-
<i>album</i> Lindemann 1928	-	+	?	-	-	-	-	-	-	-
<i>arcticum</i> Wulff 1916 (2, 4)	-	+	-	?	-	-	-	-	-	+
<i>aureolum</i> (Hulburt) G. Hansen 2000	+	-	-	-	-	-	-	-	-	-
[<i>Gyrodinium aureolum</i> Hulburt 1957]										
<i>catenatum</i> Graham 1943 (35)	+	-	-	-	-	-	-	-	-	-
<i>chlorophorum</i> Elbrächter & Schnepf 1996	+	-	-	-	-	-	-	-	-	-
* <i>elongatum</i> Hope 1954	+	-	+	+	-	-	-	-	-	-
* <i>endofasciculum</i> Campbell 1973	+	-	-	-	-	-	-	-	-	-
<i>fissum</i> Levander 1894 (36)	+	-	+	+	+	W	W	-	+	+
[<i>Spirodinium fissum</i> (Levander) Lemmermann 1900]										
[<i>Gyrodinium pavillardii</i> Biecheler 1952]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* <i>vestificii</i> Schütt 1895 [?Amphidinium extensum Wulff 1916]	+	+	+	+	+	-	+	-	+	+
* <i>wulffii</i> Schiller 1932-1933 (2) sp.	-	-	+	+	-	-	-	-	+	+
Gyrodinium Kofoid & Swezy 1921	+	+	+	+	+	+	+	-	+	+
*cf. <i>aciculatum</i> nom. ined. (Hansen & Larsen 1992)	+	-	-	-	-	-	-	-	-	-
* <i>calyptroglyphe</i> Lebour 1925	+	-	-	-	-	-	-	-	-	-
* <i>crassum</i> (Pouchet) Kofoid & Swezy 1921 [Gymnodinium crassum Pouchet 1885]	+	-	-	-	-	-	-	-	-	-
* <i>dominans</i> Hulburt 1957	+	-	-	-	-	-	-	-	-	-
<i>esturiale</i> Hulburt 1957	-	-	-	-	-	-	-	-	+	-
* <i>fusiforme</i> Kofoid & Swezy 1921	+	+	+	+	?	-	-	-	-	-
*cf. <i>grave</i> (Meunier) Kofoid & Swezy 1921 [Spirodinium grave Meunier 1910]	+	-	-	-	-	-	-	-	-	-
*cf. <i>herbaceum</i> Kofoid & Swezy 1921	+	-	-	-	-	-	-	-	-	-
* <i>longum</i> (Lohmann) Kofoid & Swezy 1921 [Cochlodinium longum Lohmann 1908]	+	-	-	-	-	-	-	-	-	-
*cf. <i>pepo</i> (Schütt) Kofoid & Swezy 1921 [Gymnodinium spirale v. pepo Schütt 1895]	+	-	-	-	-	-	-	-	-	-
*cf. <i>pingue</i> (Schütt) Kofoid & Swezy 1921 [Gymnodinium spirale v. pinguis Schütt 1895]	+	-	-	-	-	-	-	-	-	-
*cf. <i>pulchellum</i> nom. ined. (Hansen & Larsen 1992)	+	-	-	-	-	-	-	-	-	-
<i>resplendens</i> Hulburt 1957	+	-	-	-	-	-	-	-	-	-
* <i>spirale</i> (Bergh) Kofoid & Swezy 1921 [Gymnodinium spirale Bergh 1881] [Spirodinium spirale (Bergh) Schütt 1896]	+	+	+	+	+	-	+	-	+	-
<i>uncatenum</i> Hulburt 1957	+	-	-	-	-	-	-	-	-	-
* <i>undulans</i> Hulburt 1957	+	-	-	-	-	-	-	-	-	-
sp.	+	+	+	+	+	-	+	-	+	+
Katodinium Fott 1957										
* <i>asymmetricum</i> (Massart) Loeblich III 1965 [Gymnodinium asymmetricum Massart 1920] [Massartia asymmetrica (Massart) Schiller 1933]	+	-	-	-	-	-	-	-	-	-
* <i>fungiforme</i> (Anissimowa) Loeblich III 1965 (2, 4) [Gymnodinium fungiforme Anissimowa 1926]	+	+	+	+	+	-	+	-	+	-
* <i>glaucum</i> (Lebour) Loeblich III 1965 [Spirodinium glaucum Lebour 1917] [Gyrodinium glaucum (Lebour) Kofoid & Swezy 1921]	+	+	+	+	+	+	-	-	+	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* Pronoctiluca Fabre-Domerque 1889										
* pelagica Fabre-Domerque 1889	+	-	-	-	-	-	-	-	-	-
[<i>Rhynchomonas marina</i> Lohmann 1902]										
[<i>Pelagorhynchus marina</i> Pavillard 1917]										
[<i>Protodinifer marinum</i> (Lohmann) Kofoid & Swezy 1921]										
* Spathulodinium J. & M. Cachon 1967										
* pseudonoclituca (Pouchet) J. & M. Cachon ex Loeblich Jr. & Loeblich III 1969]	+	-	-	-	-	-	-	-	-	-
[<i>Gymnodinium pseudonoclituca</i> Pouchet 1885]										
Order ACTINISCALES										
* Actiniscus Ehrenberg 1841										
* pentasterias (Ehrenberg) Ehrenberg 1854	+	-	-	-	-	-	-	-	-	-
[<i>Dictyocha pentasterias</i> Ehrenberg 1841]										
[<i>Gymnaster pentasterias</i> (Ehrenberg) Schütt 1891]										
Order PHYTODINIALES (BLASTODINIALES)										
Dissodinium Klebs in Pascher 1916 <i>emend.</i> Elbrächter & Drebes 1978										
pseudolunula Swift ex Elbrächter & Drebes 1978	+	+	+	+	+	-	-	-	-	-
[<i>Gymnodinium lunula</i> Schütt 1895 <i>p.p.</i>]										
[<i>Pyrocystis lunula</i> (Schütt) Schütt 1896 <i>p.p.</i>]										
[<i>Pyrocystis lunula sensu</i> Apstein 1906]										
[<i>Dissodinium lunula</i> (Schütt) Pascher 1916 <i>p.p.</i>]										
Order PERIDINIALES										
Amphidiniopsis Wołoszyńska 1929										
kofoidii Wołoszyńska 1929	-	-	+	-	-	+	-	-	-	-
sp.	-	-	+	+	+	-	+	-	+	-
* Diplopelta Stein ex E. Jørgensen 1912										
* pusilla Balech & Akselman 1988	+	-	-	-	-	-	-	-	-	-
* Diplopsalis Bergh 1881										
* lenticula Bergh 1881	+	-	-	-	-	-	-	-	-	-
[<i>Glenodinium lenticula</i> (Bergh) Pouchet 1883]										
[<i>Dissodium lenticulum</i> (Bergh) Loeblich III 1970]										
* sp.	-	-	+	-	-	-	-	-	-	-
* Diplopsalopsis Meunier 1910										
* bomba (Stein ex E. Jørgensen) Dodge & Toriumi 1993]	+	-	-	-	-	-	-	-	-	-
[<i>Diplopsalis lenticula</i> Stein 1883]										
[<i>Peridiniopsis asymmetrica</i> Mangin 1911]										
[<i>Diplopelta bomba</i> Stein ex E. Jørgensen 1912]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Katodinium rotundatum</i> (Lohmann) Fott 1957 <i>comb. inval.</i>]										
[<i>Katodinium rotundatum</i> (Lohmann) Loeblich III 1965]										
triquetra (Ehrenberg) Stein 1883	w	w	w	w	w	w	w	w	w	-
[<i>Glenodinium triquetrum</i> Ehrenberg 1840]										
[<i>Properidinium heterocapsa</i> Meunier 1919]										
[<i>Peridinium "triqueta"</i> (Ehrenberg) Lebour 1925 <i>lapsus pennae</i>]										
* Kolkwitiella Lindemann 1919										
* acuta (Apstein) Elbrächter 1993	f	f	f	-	-	-	f	-	-	+
[<i>Glenodinium acutum</i> Apstein 1896]										
[<i>Diplopsalis acuta</i> (Apstein) Entz 1904]										
[<i>Peridinium latum</i> Paulsen 1908]										
[<i>Kolkwitiella salebrosa</i> Lindemann 1919]										
[<i>Entzia acuta</i> (Apstein) Lebour 1922]										
[<i>Kolkwitiella salebrosa</i> v. <i>gibbera</i> Lindemann 1924]										
[<i>Kolkwitiella gibbera</i> (Lindemann) Lindemann 1928]										
[<i>Apsteinia acuta</i> Abé 1981 <i>nom. nud.</i>]										
Kryptoperidinium Lindemann 1924										
foliaceum (Stein) Lindemann 1924	+	+	+	-	-	w	w	w	+	w
[<i>Glenodinium foliaceum</i> Stein 1883]										
[<i>Peridinium umbo</i> Sjöstedt 1924]										
[<i>Phyllocladum scutellaris</i> Conrad 1926]										
* Oblea Balech 1964										
* baculifera Balech 1964 (4)	+	-	-	-	-	-	-	-	-	-
* rotunda (Lebour) Balech ex Sournia 1973	w	w	w	w	w	w	w	w	w	w
[<i>Peridiniopsis rotunda</i> Lebour 1922]										
[<i>Peridinium limnophilum</i> Lindemann 1924]										
[<i>Glenodinium rotundum</i> (Lebour) Schiller 1937]										
[<i>Diplopsalis rotunda</i> (Lebour) Wood 1968]										
[<i>Diplopsalis rotundata</i> Steidinger & Williams 1970 <i>nom. inval.</i>]										
Pentapharsodinium Indelicato & Loeblich III 1986										
dalei Indelicato & Loeblich III 1986	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium faeroense</i> sensu Dale 1977]										
[<i>Scrippsiella faeroense</i> sensu Dodge 1982]										
[<i>Peridinium dalei</i> (Indelicato & Loeblich III) Balech 1990]										
Peridiniopsis Lemmermann 1904										
borgei Lemmermann 1904	-	-	-	-	-	-	-	f	f	-
[<i>Peridinium borgei</i> (Lemmermann) Lemmermann 1910]										
[<i>Glenodinium borgei</i> (Lemmermann) Schiller 1937]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>dinobryonis</i> (Wołoszyńska) Bourrelly 1968 [<i>Staszicella dinobryonis</i> Wołoszyńska 1916] [<i>Glenodinium dinobryonis</i> (Wołoszyńska) Schiller 1937]	-	-	f	-	-	-	-	-	-	-
<i>penardiforme</i> (Lindemann) Bourrelly 1968 (4) [<i>Peridinium penardiforme</i> Lindemann 1918] [<i>Glenodinium penardiforme</i> (Lindemann) Schiller 1937]	-	-	-	-	-	-	f	-	-	-
<i>penardii</i> (Lemmermann) Bourrelly 1968 [<i>Peridinium cinctum</i> Pénard 1891] [non <i>Peridinium cinctum</i> (O.F. Müller) Ehrenberg 1838] [<i>Glenodinium penardii</i> Lemmermann 1900] [<i>Peridinium penardii</i> (Lemmermann) Lemmermann 1910]	-	-	f	-	-	-	f	-	-	-
<i>polonicum</i> (Wołoszyńska) Bourrelly 1968 [? <i>Glenodinium gymnodinium</i> Pénard 1891] [<i>Peridinium polonicum</i> Wołoszyńska 1916]	-	f	f	-	-	f	f	-	+	-
<i>quadridens</i> (Stein) Bourrelly 1968 [<i>Peridinium quadridens</i> Stein 1883] [<i>Glenodinium quadridens</i> (Stein) Schiller 1935]	f	-	-	-	-	-	-	-	-	-
<i>Peridinium</i> Ehrenberg 1832										
<i>cinctum</i> (O.F. Müller) Ehrenberg 1838 [<i>Vorticella cincta</i> O.F. Müller 1786] [<i>Peridinium tabulatum</i> Pénard 1891]	-	f	-	-	-	f	f	-	-	-
<i>grenlandicum</i> Wołoszyńska 1929	+	-	+	-	-	-	-	-	-	-
<i>inconspicuum</i> Lemmermann 1899 [<i>Peridinium umbonatum</i> Stein 1883 <i>sensu</i> Popovský & Pfiester 1986 <i>p.p.</i>]	-	f	-	-	-	-	f	-	-	f
<i>palatinum</i> Lauterborn 1896	-	-	-	-	-	-	f	-	-	-
<i>pusillum</i> (Pénard) Lemmermann 1901 [<i>Glenodinium pusillum</i> Pénard 1891] [<i>Peridinium umbonatum</i> Stein 1883 <i>sensu</i> Popovský & Pfiester 1986 <i>p.p.</i>]	-	-	-	-	-	-	f	-	-	-
<i>umbonatum</i> Stein 1883	-	-	-	-	-	+	-	-	-	-
<i>willei</i> Huitfeld-Kaas 1900 [<i>Peridinium volzii</i> Lemmermann 1905] [? <i>Peridinium tabulatum</i> (Ehrenberg) Levander 1894]	-	-	-	-	-	?	f	-	-	-
sp.	-	-	-	-	-	-	+	-	+	-
* <i>Preperidinium</i> Mangin 1913										
* <i>meunieri</i> (Pavillard) Elbrächter 1993 [<i>Peridinium meunieri</i> Pavillard 1912] [<i>Diplopsalis lenticula</i> f. <i>minor</i> Paulsen 1907] [<i>Peridinium lenticulatum</i> Mangin 1911] [non <i>Peridinium lenticulatum</i> Fauré-Frémiet 1908]	+	+	w	+	w	w	w	-	w	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Peridinium paulsenii</i> Mangin 1911]										
[non <i>Peridinium paulsenii</i> Pavillard 1909]										
[<i>Diplopeltopsis minor</i> (Paulsen) Pavillard 1913]										
[<i>Diplopsalis minor</i> (Paulsen) Lindemann 1927]										
[<i>Glenodinium lenticula</i> f. <i>minor</i> (Paulsen) Schiller 1937]										
[<i>Zygabikodinium lenticulatum</i> (Mangin) Loeblich Jr. & Loeblich III 1970]										
[<i>Peridiniopsis minor</i> (Paulsen) Starmach 1974]										
[<i>Diplopsalopsis minor</i> (Paulsen) Abé 1981]										
* Protoperidinium Bergh 1881 <i>emend.</i> Balech 1974										
* achromaticum (Levander) Balech 1974	+	-	+	+	W	W	W	-	W	W
[<i>Peridinium achromaticum</i> Levander 1902]										
* avellana (Meunier) Balech 1974 (42)	-	-	-	-	+	-	+	-	+	+
[<i>Properidinium avellana</i> Meunier 1919]										
[<i>Peridinium avellana</i> (Meunier) Lebour 1925]										
* bipes (Paulsen) Balech 1974	C	C	C	C	C	C	C	C	C	+
[<i>Glenodinium bipes</i> Paulsen 1904]										
[<i>Peridinium minusculum</i> Pavillard 1905]										
[<i>Minuscula bipes</i> (Paulsen) Lebour 1925]										
[<i>Protoperidinium minusculum</i> auct.]										
* breve (Paulsen) Balech 1974	+	+	?	-	-	-	-	-	-	-
[<i>Peridinium steinii</i> f. <i>brevis</i> Paulsen 1905]										
[<i>Peridinium breve</i> (Paulsen) Paulsen 1907]										
[<i>Protoperidinium pyriforme</i> ssp. <i>breve</i> (Paulsen) Balech 1971]										
* brevipes (Paulsen) Balech 1974 (43)	CW	CW	CW	CW	CW	CW	CW	CW	CW	+
[<i>Peridinium brevipes</i> Paulsen 1908]										
[<i>Peridinium varicans</i> Paulsen 1911]										
[<i>Peridinium incurvum</i> Lindemann 1924]										
*cf. brochii (Kofoid & Swezy) Balech	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium brochii</i> Kofoid & Swezy 1921]										
* cerasus (Paulsen) Balech 1973	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium cerasus</i> Paulsen 1907]										
* claudicans (Paulsen) Balech 1974	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium claudicans</i> Paulsen 1907]										
* conicoides (Paulsen) Balech 1973 (43)	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium conicoides</i> Paulsen 1905]										
* conicum (Gran) Balech 1974	+	-	+	-	-	-	-	-	-	-
[<i>Peridinium divergens</i> v. <i>conicum</i> Gran 1900]										
[<i>Peridinium conicum</i> (Gran) Ostenfeld & Schmidt 1901]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Peridinium divergens</i> v. <i>oblongum</i> Aurivillius 1898]										
[<i>Peridinium divergens</i> (Ehrenberg) Bergh 1881 p.p.]										
[<i>Peridinium oblongum</i> (Aurivillius) P.T. Cleve 1900]										
[<i>Peridinium oceanicum</i> f. <i>oblonga</i> Broch 1906]										
[<i>Peridinium oceanicum</i> v. <i>oblongum</i> Paulsen 1908]										
[<i>Peridinium oceanicum</i> Schiller 1937 p.p.]										
[<i>Protoperidinium oceanicum</i> Balech 1974 p.p.]										
* oceanicum (Vanhöffen) Balech 1974 (47)	s	-	-	-	-	-	-	-	-	-
[<i>Peridinium oceanicum</i> Vanhöffen 1897]										
[<i>Peridinium divergens</i> v. <i>oceanicum</i> Ostenfeld 1899]										
[? <i>Peridinium depressum</i> v. <i>oceanica</i> auct.]										
* ovatum Pouchet 1883	+	+	+	-	-	-	-	-	-	-
[<i>Peridinium ovatum</i> (Pouchet) Schütt 1895]										
[<i>Peridinium globulus</i> v. <i>ovatum</i> (Pouchet) Schiller 1935]										
* pallidum (Ostenfeld) Balech 1973	c(w)	+	-	-	-	-	-	-	-	-
[<i>Peridinium pallidum</i> Ostenfeld 1899]										
* pellucidum Bergh 1881 (48)	c(w)	c	w	+	w	+	w	-	w	+
[<i>Peridinium pellucidum</i> (Bergh) Schütt 1895]										
* pentagonum (Gran) Balech 1974	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium pentagonum</i> Gran 1902]										
[<i>Peridinium sinuosum</i> Lemmermann 1905]										
* punctulatum (Paulsen) Balech 1974	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium punctulatum</i> Paulsen 1907]										
[<i>Peridinium subinerme</i> v. <i>punctulatum</i> (Paulsen) Schiller 1935]										
* pyriforme (Paulsen) Balech 1974	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium steinii</i> f. <i>pyriformis</i> Paulsen 1905]										
[<i>Peridinium pyriforme</i> (Paulsen) Paulsen 1907]										
* roseum (Paulsen) Balech (48)	c	-	-	-	-	-	-	-	-	-
[<i>Peridinium roseum</i> Paulsen 1904]										
* steinii (E. Jørgensen) Balech 1974	+	+	+	-	-	-	-	-	-	-
[<i>Peridinium michaelis</i> Stein 1883]										
[non <i>Peridinium michaelis</i> Ehrenberg 1833]										
[<i>Peridinium steinii</i> E. Jørgensen 1900]										
* subinerme (Paulsen) Loeblich III 1969	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium subinermis</i> Paulsen 1904]										
* thorianum (Paulsen) Balech 1973	+	-	-	-	-	-	-	-	-	-
[<i>Peridinium thorianum</i> Paulsen 1905]										
[<i>Properidinium thorianum</i> (Paulsen) Meunier 1919]										
sp.	+	+	+	+	+	-	+	-	+	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Gonyaulax triacantha</i> E. Jørgensen 1900]										
[<i>Ceratium</i> (?) <i>hyperboreum</i> P.T. Cleve 1900]										
[<i>Amylax lata</i> Meunier 1910]										
Ceratium Schrank 1793										
arcticum (Ehrenberg) P.T. Cleve 1900	+	+	?	-	-	-	-	-	-	-
[<i>Peridinium arcticum</i> Ehrenberg 1853]										
arietinum P.T. Cleve 1900	+	+	-	?	-	-	-	-	-	-
[<i>Ceratium tripos</i> v. <i>bucephalum</i> P.T. Cleve 1897]										
[<i>Ceratium bucephalum</i> (P.T. Cleve) P.T. Cleve 1900]										
[<i>Ceratium arietinum</i> v. <i>bucephalum</i> (P.T. Cleve) Sournia 1966]										
[<i>Ceratium arcuatum</i> auct. p.p.]										
candelabrum (Ehrenberg) Stein 1883	?	-	-	-	-	-	-	-	-	-
[<i>Peridinium candelabrum</i> Ehrenberg 1859]										
furca (Ehrenberg) Claparède & Lachmann 1859	w(c)	+	+	+	-	-	-	-	-	-
[<i>Peridinium furca</i> Ehrenberg 1833, 1836, 1838]										
furcoides (Levander) Langhans 1925	-	-	-	-	-	-	wf	-	-	-
[<i>Ceratium hirundinella</i> v. <i>furcoides</i> Levander 1894]										
[<i>Ceratium hirundinella</i> f. <i>furcoides</i> Schröder 1918]										
fuscus (Ehrenberg) Dujardin 1841	w(c)	+	+	?	-	-	-	-	-	-
[<i>Peridinium fuscus</i> Ehrenberg 1834]										
hirundinella (O.F. Müller) Schrank 1793	f	f	f	-	-	-	f	-	f	+
[<i>Bursaria hirundinella</i> O.F. Müller 1773]										
[<i>Ceratium hirundinella</i> f. <i>austriacum</i> (Zederbauer) Bachmann 1911]										
[<i>Ceratium hirundinella</i> f. <i>carinthiacum</i> (Zederbauer) Bachmann 1911]										
horridum (P.T. Cleve) Gran 1902	+	+	-	-	-	-	-	-	-	-
[<i>Ceratium tripos</i> v. <i>horridum</i> P.T. Cleve 1897]										
[<i>Ceratium tripos</i> v. <i>macroceros</i> f. <i>intermedia</i> E. Jørgensen 1900]										
[<i>Ceratium intermedium</i> (E. Jørgensen) E. Jørgensen 1905]										
[<i>Ceratium batavum</i> Paulsen 1907]										
lineatum (Ehrenberg) P.T. Cleve 1899	c	+	-	-	-	-	-	-	-	-
[<i>Peridinium lineatum</i> Ehrenberg 1854]										
[<i>Ceratium tripos</i> v. <i>subsalsa</i> f. <i>lineata</i> (Ehrenberg) Lohmann 1908]										
longipes (J.W. Bailey) Gran 1902	+	+	?	?	-	-	-	-	-	-
[<i>Peridinium longipes</i> J.W. Bailey 1855]										
[? <i>Ceratium longipes</i> v. <i>baltica</i> Ostenfeld 1903]										
[? <i>Ceratium longipes</i> v. <i>ventricosa</i> Ostenfeld 1903]										
macroceros (Ehrenberg) Vanhöffen 1897	+	+	+	?	-	-	-	-	-	-
[<i>Peridinium macroceros</i> Ehrenberg 1840]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
tripos (O.F. Müller) Nitzsch 1817	+	+	+	?	?	?	?	-	-	-
[<i>Cercaria tripos</i> O.F. Müller 1786]										
[<i>Peridinium tripos</i> (O.F. Müller) Ehrenberg 1833]										
[<i>Ceratium furca</i> v. <i>baltica</i> Möbius 1887]										
[<i>Ceratium tripos</i> v. <i>balticum</i> Schütt 1892]										
[<i>Ceratium tripos</i> f. <i>atlanticum</i> Ostenfeld 1903]										
[<i>Ceratium tripos</i> f. <i>subsalsum</i> Ostenfeld 1903]										
[<i>Ceratium tripos</i> v. <i>atlanticum</i> (Ostenfeld) Paulsen 1907]										
[<i>Ceratium tripos</i> v. <i>subsalsum</i> (Ostenfeld) Paulsen 1907]										
[<i>Ceratium tripos</i> f. <i>hiemalis</i> Paulsen 1907]										
[<i>Ceratium tripos</i> v. <i>subsalsum</i> f. <i>lineata</i> Lohmann 1908]										
sp.	+	-	-	-	-	-	-	-	-	-
Cladopyxis Stein 1883										
claytonii R.W. Holmes 1956	+	+	-	-	-	-	-	-	-	-
[<i>Micracanthodinium claytonii</i> (R.W. Holmes) Dodge 1982]										
setifera Lohmann 1902	+	-	+	-	-	-	-	-	-	-
[<i>Micracanthodinium setiferum</i> (Lohmann) Deflandre 1937]										
sp.	+	+	-	-	-	-	-	-	-	-
Fragilidium Balech ex Loeblich III 1965										
subglobosum (von Stosch) Loeblich III	+	-	-	-	-	-	-	-	-	-
[<i>Helgolandinium subglobosum</i> von Stosch 1969]										
Goniodoma Stein 1883										
polyedricum (Pouchet) E. Jørgensen 1900	+	+	-	-	-	-	-	-	-	-
[<i>Peridinium polyedricum</i> Pouchet 1883]										
[<i>Goniodoma acuminatum</i> Stein 1883]										
[<i>Heteraulacus polyedricus</i> Drugg & Loeblich Jr. 1967]										
[<i>Triadinium polyedricum</i> (Pouchet) Dodge 1981 (ICZN)]										
[non <i>Peridinium acuminatum</i> Ehrenberg 1834, 1838]										
Gonyaulax Diesing 1866										
apiculata (Pénard) Entz 1904	-	-	f	-	-	-	f	-	-	-
[<i>Peridinium apiculatum</i> Pénard 1891]										
digitale (Pouchet) Kofoid 1911	+	?	-	-	-	-	-	-	-	-
[<i>Protoperidinium digitale</i> Pouchet 1883]										
helensis Wołoszyńska 1928 (2)	-	-	+	-	-	-	-	-	-	-
polygramma Stein 1883	+	-	-	-	-	-	-	-	-	-
[<i>Protoperidinium pyrophorum</i> Pouchet 1883]										
[<i>Peridinium pyrophorum</i> (Pouchet) Lemmermann 1899]										
[<i>Gonyaulax schuettii</i> Lemmermann 1899]										
spinifera (Claparède & Lachmann) Diesing 1866	w	w	w	w	w	-	w	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Peridinium spiniferum</i> Claparède & Lachmann 1859]										
[<i>Peridinium</i> sp. Levander 1894]										
[<i>Peridinium levanderi</i> Lemmermann 1900]										
[<i>Gonyaulax levanderi</i> (Lemmermann) Paulsen 1907]										
verior Sournia 1973	w	w	w	w	w	–	w	w	w	–
[<i>Amylax diacantha</i> Meunier 1919]										
[<i>Gonyaulax longispina</i> Lebour 1925]										
[<i>Gonyaulax diacantha</i> (Meunier) Schiller 1937]										
[non <i>Gonyaulax diacantha</i> Athanassopoulos 1931]										
Lingulodinium Wall 1967 <i>emend.</i> Dodge 1989										
polyedrum (Stein) Dodge 1989	+	+	–	–	–	–	–	–	–	–
[<i>Gonyaulax polyedra</i> Stein 1883]										
Oxytoxum Stein 1883										
sp.	+	–	–	–	–	–	–	–	–	–
Peridiniella Kofoid & Michener 1911 <i>emend.</i> Balech 1977										
catenata (Levander) Balech 1977	?	c	c	c	c	c	c	c	c	c
[<i>Peridinium catenatum</i> Levander 1894]										
[<i>Amylax catenata</i> (Levander) Meunier 1910]										
[<i>Gonyaulax catenata</i> (Levander) Kofoid 1911]										
Protoceratium Bergh 1881										
reticulatum (Claparède & Lachmann) Bütschli 1885	w	w	w	w	w	w	w	w	w	w
[<i>Peridinium reticulatum</i> Claparède & Lachmann 1859]										
[<i>Protoceratium aceros</i> Bergh 1881]										
[<i>Gonyaulax grindleyi</i> Reinecke 1967]										
Pyrophacus Stein 1883										
horologicum Stein 1883	w	–	–	–	–	–	w	–	–	–

Division HAPTOPHYTA

Class **Prymnesiophyceae** (Haptophyceae) – Haptophyte algae

Order PRYMNESIALES

Acanthoica Lohmann 1903										
quattrospina Lohmann 1903	+	–	–	–	–	–	–	–	–	–
Balaniger Thomsen & Oates 1978										
* balticus Thomsen & Oates 1978	+	+	–	–	–	–	+	–	–	+
Braarudosphaera Deflandre 1947										
bigelowii (Gran & Braarud) Deflandre 1947	+	–	–	–	–	–	–	–	–	–
Calciopappus Gaarder & Ramsfjell 1954 <i>emend.</i> Manton & Oates 1983										
caudatus Gaarder & Ramsfjell 1954	+	–	–	–	–	–	–	–	–	–
Calyptosphaera Lohmann 1902										
sp.	+	–	–	–	–	–	–	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>spinifera</i> (Fournier) Pienaar & Norris 1979 [<i>Chrysocampanula spinifera</i> Fournier 1971]	+	+	-	-	+	-	+	+	+	-
<i>strobilus</i> Parke & Manton in Parke, Manton & Clarke 1959	+	-	-	-	-	-	?	-	-	-
<i>tenuispina</i> Manton 1978	+	-	-	-	-	-	-	-	-	-
<i>thronsdensii</i> Eikrem 1996	+	-	-	-	-	-	-	-	-	-
sp.	+	+	-	-	-	-	+	+	+	+
<i>Coccolithus</i> Schwarz 1894										
<i>pelagicus</i> (Wallich) Schiller 1930 [<i>Coccosphaera pelagica</i> Wallich 1877] [? <i>Coccosphaera atlantica</i> Ostenfeld 1899] (49)	-	+	+	+	+	-	+	-	+	+
<i>Coronosphaera</i> Gaarder in Gaarder & Heimdal 1977										
<i>mediterranea</i> (Lohmann) Gaarder in Gaarder & Heimdal 1977 [<i>Syracosphaera mediterranea</i> Lohmann 1902]	+	-	-	-	-	-	-	-	-	-
<i>Discosphaera</i> Haeckel 1894										
<i>tubifer</i> (Murray & Blackman) Ostenfeld 1900 (16, 50) [<i>Rhabdosphaera tubifer</i> Murray & Blackman 1898]	-	-	?	-	-	-	-	-	-	-
<i>Emiliana</i> Hay & Mohler in Hay <i>et al.</i> 1967										
<i>huxleyi</i> (Lohmann) Hay & Mohler 1967 (51) [<i>Pontosphaera huxleyi</i> Lohmann 1902] [<i>Coccolithus huxleyi</i> (Lohmann) Kamptner 1943] [<i>Gephyrocapsa huxleyi</i> (Lohmann) Reinhardt 1972]	+	-	-	-	-	-	?	-	-	-
<i>Imantonia</i> Reynolds 1974										
<i>rotunda</i> Reynolds 1974	+	-	-	-	-	-	-	-	-	-
* <i>Pappomonas</i> Manton & Oates 1975										
* <i>flabellifera</i> Manton & Oates 1975										
v. <i>flabellifera</i>	+	-	-	-	-	-	-	-	-	-
v. <i>borealis</i> Manton, Sutherland & McCully 1976	+	-	-	-	-	-	-	-	-	-
* <i>virgulosa</i> Manton & Sutherland 1975	+	-	-	-	-	-	+	-	-	-
<i>Papposphaera</i> Tangen 1972										
<i>lepida</i> Tangen 1972 (50)	+	-	-	-	-	-	-	-	-	-
<i>Phaeocystis</i> Lagerheim 1893										
<i>amoeboidea</i> Büttner 1911 (2, 52)	+	-	-	-	-	-	-	-	-	-
<i>pouchetii</i> (Hariot) Lagerheim 1893 [<i>Tetraspora Poucheti</i> Hariot in Pouchet 1892]	+	+	+	-	-	-	-	-	-	-
<i>sphaeroides</i> Büttner 1911 (2, 52)	+	-	-	-	-	-	-	-	-	-
sp.	+	-	-	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>Pleurochrysis</i> E.G. Pringsheim 1955 <i>emend.</i> Gayral & Fresnel 1983										
<i>carterae</i> (Braarud & Fagerland) Christensen 1978	+	+	-	-	-	-	+	-	-	-
[<i>Syracosphaera carterae</i> Braarud & Fagerland 1946]										
[<i>Hymenomonas carterae</i> (Braarud & Fagerland) Braarud 1954]										
[<i>Cricosphaera carterae</i> (Braarud & Fagerland) Braarud 1960]										
[<i>Apistonema pyrenigerum</i> Pascher 1931 <i>sensu</i> Wærn 1952]										
[<i>Hymenomonas roseola</i> <i>sensu</i> Levander 1894, 1901, A. Luther 1933]										
<i>Prymnesium</i> Massart ex Conrad 1926										
<i>nemamethecum</i> Pienaar & Birkhead 1994	?	-	-	-	-	-	-	-	-	-
<i>parvum</i> N. Carter 1937	+	+	+	?	?	?	+	+	+	-
<i>patellifera</i> Green, Hibberd & Pienaar 1982	?	-	-	-	-	-	+	-	-	-
sp.	+	+	-	-	-	-	+	-	+	+
<i>Trigonaspis</i> Thomsen 1980										
<i>diskoensis</i> Thomsen 1980	+	-	-	-	-	-	-	-	-	-
<i>minutissima</i> Thomsen 1980	+	-	-	-	-	-	-	-	-	-
<i>Turrisphaera</i> Manton, Sutherland & Oates 1976										
<i>arctica</i> Manton, Sutherland & Oates 1976	+	-	-	-	-	-	-	-	-	-
<i>Wigwamma</i> Manton, Sutherland & Oates 1977										
<i>arctica</i> Manton, Sutherland & Oates 1977	+	-	-	-	-	-	-	-	-	-
<i>scenozonion</i> Thomsen 1980	+	-	-	-	-	-	-	-	-	-

Order PAVLOVALES

Pavlova Butcher 1952 ***lutheri*** (Droop) Green 1975 (22) [*Monochrysis lutheri* Droop 1953] **sp. (53)**

	-	-	-	-	-	-	+	-	-	-
	+	-	-	-	+	-	+	-	-	-

Division CHRYSOPHYTA (HETEROKONTOPHYTA)

Class **Chrysophyceae** – Golden-brown algae

Order OCHROMONADALES

****Anthophysa*** Bory 1822 ****vegetans*** (O.F. Müller) Stein 1878 [*Volvox vegetans* O.F. Müller 1786]***Bitrichia*** Wołoszyńska 1914 ***chodatii*** (Reverdin) R. Chodat [*Diceras chodatii* Reverdin 1917]***Chrysidiastrum*** Lauterborn 1913 (54) ***catenatum*** Lauterborn 1913***Chrysococcus*** Klebs 1892 (1893)

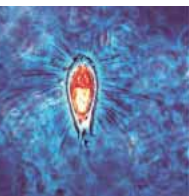
	-	-	lf	-	-	-	lf	-	-	-
	-	-	-	-	-	-	f	-	-	-
	-	-	-	-	-	-	f	-	-	-



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>biporus</i> Skuja	-	-	-	-	-	-	f	-	-	+
<i>minutus</i> (Fritsch) Nygaard	-	-	-	-	-	-	f	-	-	+
[<i>Trachelomonas volvocina</i> f. <i>minuta</i> Fritsch]										
<i>rufescens</i> Klebs 1892 (1893)	-	-	-	f	-	-	f	-	-	+
sp.	-	-	+	-	-	-	-	-	+	+
<i>Chrysolykos</i> Mack 1951 <i>emend.</i> Nauwerck 1979										
<i>planctonicus</i> Mack 1951	-	-	-	-	-	-	f	-	-	-
<i>Chrysosphaerella</i> Lauterborn 1896										
<i>annulata</i> Kristiansen & Tong 1989 (55)	-	-	-	-	-	-	f	-	-	-
<i>brevispina</i> Korshikov 1942 <i>emend.</i> Harris & Bradley 1958 (55)	-	-	-	-	-	-	f	-	-	-
[<i>Chrysosphaerella rodhei</i> Skuja 1948]										
[<i>Chrysosphaerella conradii</i> Bourrelly 1957]										
<i>coronacircumspina</i> Wujek & Kristiansen <i>in</i> Wujek, Gretz & Wujek 1977 (55)	-	-	-	-	-	-	f	-	-	-
<i>Dinobryon</i> Ehrenberg 1935										
<i>acuminatum</i> Ruttner	-	-	f	-	-	f	f	-	-	-
<i>balticum</i> (Schütt) Lemmermann 1901	+	+	+	+	+	+	+	-	+	-
[<i>Dinodendron balticum</i> Schütt 1892]										
[<i>Dinobryon pellucidum</i> Levander 1894]										
<i>bavaricum</i> Imhof 1890	-	-	f	-	-	-	f	-	f	f
[<i>Dinobryon stipitatum</i> ssp. <i>bavaricum</i> (Imhof) Pascher 1913]										
[<i>Dinobryon sociale</i> v. <i>bavaricum</i> (Imhof) Bachmann]										
<i>borgei</i> Lemmermann	-	-	-	-	-	-	f	-	-	-
<i>cylindricum</i> Imhof 1890	-	-	f	-	-	-	f	-	-	f
<i>divergens</i> Imhof 1890	f	f	f	f	-	f	f	-	f	+
[<i>Dinobryon cylindricum</i> v. <i>divergens</i> (Imhof) Lemmermann 1900]										
[<i>Dinobryon sertularia</i> v. <i>divergens</i> (Imhof) Zacharias]										
<i>faculiferum</i> (Willén) Willén 1992	+	+	+	+	+	+	+	+	+	+
[<i>Dinobryon petiolatum</i> Willén 1963]										
[non <i>Dinobryon petiolatum</i> Dujardin 1841]										
<i>pediforme</i> (Lemmermann) Steinecke	-	-	-	-	-	-	-	-	-	+
<i>sertularia</i> Ehrenberg 1838	f	-	f	-	-	f	f	-	f	-
<i>sociale</i> Ehrenberg 1832										
v. <i>sociale</i>	f	-	f	-	-	f	f	-	f	f
v. <i>stipitatum</i> (Stein) Lemmermann	-	f	-	-	f	-	-	-	-	-
[<i>Dinobryon stipitatum</i> Stein]										
[<i>Dinobryon sociale</i> v. <i>elongatum</i> (Imhof) Lemmermann]										
<i>suecicum</i> Lemmermann 1904	-	-	-	-	-	-	f	-	f	f
sp.	+	+	+	+	+	-	+	-	+	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Epipyxis Ehrenberg 1838										
tabellariae (Lemmermann) G.M. Smith 1950	-	-	-	-	-	-	f	-	-	-
[Dinobryon utriculus v. tabellariae Lemmermann]										
[Dinobryon tabellariae (Lemmermann) Pascher 1913]										
sp.	-	-	-	-	-	-	+	-	-	-
Kephyrion Pascher 1911										
hemisphaericum (Lackey) Conrad	-	-	-	-	-	-	f	-	-	-
[Chrysococcus hemisphaericum Lackey]										
ovale (Lackey) Huber-Pestalozzi	-	-	-	-	-	-	f	-	-	f
[Chrysococcus ovalis Lackey]										
rubri-claustri Conrad	-	-	-	-	-	-	-	-	-	+
sitta Pascher	-	-	-	-	-	-	f	-	-	-
skujae Ettl	-	-	-	-	-	-	f	-	-	-
spirale (Lackey) Conrad	-	-	-	-	-	-	-	-	-	f
sp.	-	-	-	-	-	-	+	-	-	f
Lepidochrysis Ikävalko, Kristiansen & Thomsen 1994										
glomerifera (Clarke & Pennick) Ikävalko, Kristiansen & Thomsen 1994	-	-	-	-	-	-	+	-	-	-
[Syncrypta glomerifera Clarke & Pennick 1975]										
Ochromonas Wyssotzski 1887										
sp.	+	+	+	+	+	-	+	-	+	+
Ollicola Vørs 1992										
vangoorii (Conrad) Vørs 1992	+	+	+	+	+	-	+	+	+	+
[Codonomonas Van Goorii Conrad 1938]										
[Calycomonas wulfii Conrad & Kufferath 1954]										
[Calycomonas vangoorii (Conrad) Lund 1960]										
[Calycomonas gracilis auct.]										
*Paraphysomonas de Saedeleer 1929										
*antarctica Takahashi 1987 (55)	-	-	-	-	-	-	c	-	-	-
*butcheri Pennick & Clarke 1972	+	-	-	-	-	-	+	-	-	-
[Paraphysomonas inconspicua Takahashi 1976]										
*caelifrica Preisig & Hibberd 1982 (55)	-	-	-	-	-	-	f	-	-	-
*circumvallata Thomsen in Thomsen et al. 1981	-	-	-	-	-	-	f	-	-	-
*corynephora Preisig & Hibberd 1982 (55)	-	-	-	-	-	-	f	-	-	-
*cribosa Lucas 1968	+	-	-	-	-	-	-	-	-	-
*cyliphora Leadbeater 1972 (55)	+	-	-	-	-	-	+	-	-	-
*diademifera (Takahashi) Preisig & Hibberd 1982	-	-	-	-	-	-	f	-	-	+
[Ochromonas diademifera Takahashi 1972]										
[Lepidochromonas diademifera (Takahashi) Kristiansen 1980]										
*foraminifera Lucas 1967	+	-	-	-	-	-	+	-	-	-
*gladiata Preisig & Hibberd 1982 (55)	-	-	-	-	-	-	f	-	-	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* <i>imperfurata</i> Lucas 1967	+	-	-	-	-	-	+	-	+	+
* <i>oligocycla</i> Takahashi 1987	-	-	-	-	-	-	c	-	c	c
* <i>punctata</i> Zimmermann in Thomsen <i>et al.</i> 1981	-	-	-	-	-	-	f	-	-	+
* <i>sideriophora</i> Thomsen 1975	+	-	-	-	-	-	-	-	-	-
* <i>stelligera</i> Preisig & Hibberd 1982	-	-	-	-	-	-	f	-	-	+
* <i>subquadrangularis</i> Preisig & Hibberd 1982 (55)	-	-	-	-	-	-	f	-	-	-
* <i>subrotacea</i> Thomsen in Thomsen <i>et al.</i> 1981	-	-	-	-	-	-	f	-	-	-
* <i>takahashii</i> Cronberg & Kristiansen 1980 (55)	-	-	-	-	-	-	f	-	f	+
* <i>vestita</i> (Stokes) de Saedeleer 1929 [<i>Physomonas vestita</i> Stokes 1885]										
<i>ssp. vestita</i>	+	-	-	-	-	-	+	-	+	+
<i>ssp. truncata</i> Preisig & Hibberd 1982	-	-	-	-	-	-	f	-	-	-
* <i>sp.</i>	+	-	-	-	-	-	+	-	+	+
<i>Polylepidomonas</i> Preisig & Hibberd 1983										
<i>vacuolata</i> (Thomsen) Preisig & Hibberd 1983 [<i>Paraphysomonas vacuolata</i> Thomsen in Thomsen <i>et al.</i> 1981]	+	-	-	-	-	-	+	-	?	?
<i>Spiniferomonas</i> Takahashi 1973										
<i>bilacunosa</i> Takahashi 1973 (55)	-	-	-	-	-	-	f	-	-	-
<i>bourellyi</i> Takahashi 1973 (" <i>bourellyi</i> ") (55) [? <i>Paraphysomonas bourellyi</i> (Takahashi) Preisig & Hibberd 1982] [<i>Spiniferomonas conica</i> Takahashi 1973] [<i>Spiniferomonas andersonii</i> Green 1979]	-	-	-	-	-	-	f	-	-	-
<i>cornuta</i> Balonov 1978 (55)	-	-	-	-	-	-	f	-	-	-
<i>serrata</i> Nicholls 1981 (55)	-	-	-	-	-	-	f	-	-	-
<i>silverensis</i> Nicholls 1984 (55)	-	-	-	-	-	-	f	-	-	-
<i>takahashii</i> Nicholls 1981 (55)	-	-	-	-	-	-	f	-	-	-
<i>trioralis</i> Takahashi 1973 [<i>Chromophysomonas trioralis</i> (Takahashi) Preisig & Hibberd 1982]	-	-	-	-	-	-	f	-	-	?
<i>sp. (55)</i>	-	-	-	-	-	-	-	-	-	+
<i>Spumella</i> Cienkowski 1870 (56) [<i>Monas</i> O.F. Müller 1773]										
<i>sp.</i>	-	+	+	+	+	-	+	-	+	+
<i>Syncrypta</i> Ehrenberg 1833 (15)										
<i>danubiensis</i> (Schiller) Bourrelly (2)	-	-	f	-	-	-	-	-	-	-
<i>Uroglena</i> Ehrenberg 1835										
<i>americana</i> Calkins 1892 [<i>Uroglenopsis americana</i> (Calkins) Lemmermann 1899]	-	+	+	+	w	-	w	w	w	w
<i>marina</i> Büttner 1911 (2)	+	-	-	-	-	-	-	-	-	-
<i>volvox</i> Ehrenberg 1838	-	-	-	-	-	-	(f)	-	-	-
<i>sp.</i>	-	-	-	-	-	-	-	+	+	-



Class Synurophyceae

Order SYNURALES

Mallomonas Perty 1851

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
acaroides Perty 1851 <i>emend.</i> Ivanov 1899	–	–	f	–	–	–	f	–	–	–
actinoloma Takahashi <i>in</i> Asmund & Takahashi 1969										
v. maramuresensis Péterfi & Momeu 1976 (55)	–	–	–	–	–	–	f	–	–	–
akrokomos Ruttner <i>in</i> Pascher 1913 (55, 59)	–	–	f	–	–	–	f	–	–	?
allorgei (Deflandre) Conrad 1933	–	–	–	–	–	–	f	–	–	–
[<i>Pseudomallomonas allorgei</i> Deflandre 1932]										
alpina Pascher & Ruttner 1913 <i>emend.</i> Asmund & Kristiansen 1986	–	–	–	–	–	–	f	–	–	?
annulata (Bradley) Harris 1967 (55)	–	–	–	–	–	–	f	–	–	–
[<i>Mallomonas papillosa</i> v. <i>annulata</i> Bradley 1966]										
calceolus Bradley 1964 (55)	–	–	–	–	–	–	f	–	–	–
caudata Ivanov 1899 <i>emend.</i> W. Krieger 1930	–	–	f	–	–	–	f	–	–	–
[<i>Mallomonas fastigata</i> Zacharias 1903]										
[<i>Mallomonas caudata</i> v. <i>fastigata</i> (Zacharias) W. Krieger 1930]										
[<i>Mallomonas fastigata</i> v. <i>kriegeri</i> Bourrelly 1957]										
crassisquama (Asmund) Fott 1962	–	–	–	–	–	–	f	–	–	?
[<i>Mallomonas acaroides</i> v. <i>crassisquama</i> Asmund 1959]										
elongata Reverdin 1919 (55)	–	–	–	–	–	–	f	–	–	–
eoae Takahashi <i>in</i> Asmund & Takahashi 1969 (55)	–	–	–	–	–	–	f	–	–	–
hamata Asmund 1959 (55)	–	–	–	–	–	–	f	–	–	–
heterospina Lund 1942 (55)	–	–	–	–	–	–	f	–	–	–
cf. mangofera Harris & Bradley 1960 (55)	–	–	–	–	–	–	f	–	–	–
multiunca Asmund 1956 (55)	–	–	–	–	–	–	f	–	–	–
oviformis Nygaard 1949 (55)	–	–	–	–	–	–	f	–	–	–
paxillata (Bradley) Péterfi & Momeu 1976 (55)	–	–	–	–	–	–	f	–	–	–
[<i>Mallomonopsis paxillata</i> Bradley 1966]										
producta Ivanov 1899 (2)	–	–	–	–	–	–	f	–	–	–
punctifera Korshikov 1941 (55)	–	–	–	–	–	–	f	–	–	f
[<i>Mallomonas elegans</i> Lemmermann v. <i>pulchella</i> Kisselev 1931]										
[<i>Mallomonas reginae</i> Teiling 1946]										
[<i>Mallomonas pulchella</i> (Kisselev) Cronberg & Kristiansen 1980]										
cf. schwemmlei Glenk 1956 <i>emend.</i> Glenk & Fott 1971 (55)	–	–	–	–	–	–	f	–	–	–
scrobiculata Nicholls 1984 (55)	–	–	–	–	–	–	f	–	–	–
striata Asmund 1959 (55)	–	–	–	–	–	–	f	–	–	f
tonsurata Teiling 1912 <i>emend.</i> W. Krieger 1930	–	–	–	–	–	–	f	–	–	–
[<i>Mallomonas heterotricha</i> Nygaard 1949]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>torquata</i> Asmund & Cronberg 1979										
f. <i>torquata</i> (55)	–	–	–	–	–	–	f	–	–	–
cf. f. <i>simplex</i> Nicholls 1988 (55)	–	–	–	–	–	–	f	–	–	–
<i>trummensis</i> Cronberg 1975 (55)	–	–	–	–	–	–	f	–	–	–
<i>vannigera</i> Asmund 1977 (55, 60)	–	–	–	–	–	–	f	–	–	–
<i>zellensis</i> Fott 1962 (55)	–	–	–	–	–	–	f	–	–	–
sp.	–	–	–	–	–	–	f	–	–	–
<i>Synura</i> Ehrenberg 1835										
<i>echinulata</i> Korshikov 1929 (55)	–	–	–	–	–	–	f	–	–	–
<i>petersenii</i> Korshikov 1929 (55)	–	–	–	–	–	–	f	–	–	f
<i>sphagnicola</i> (Korshikov) Korshikov 1929 [<i>Skadovskiiella sphagnicola</i> Korshikov 1927]	–	–	–	–	–	–	f	–	–	–
<i>spinosa</i> Korshikov 1929	–	–	–	–	–	–	f	–	–	–
<i>uvella</i> Ehrenberg <i>emend.</i> Korshikov 1929 (61)	f?	–	–	–	–	–	f?	–	–	–
sp.	–	f	–	–	–	–	f	–	f	f

Class Diatomophyceae (Bacillariophyceae) – Diatoms

Order EUPODISCALES (BIDDULPHIALES, CENTRALES) – Centric diatoms

Acanthoceras Honigmann 1910

zachariasii (Brun) Simonsen 1979

 [*Attheya zachariasii* Brun 1894]

 [*Acanthoceras magdeburgense* Honigmann 1910]

Actinocyclus Ehrenberg 1837

kuetzingii (A. Schmidt) Simonsen 1975

 [*Coscinodiscus kuetzingii* A. Schmidt 1878]

normanii (Gregory *in* Greville) Hustedt 1957

 [*Coscinodiscus normanii* Gregory *in* Greville 1859]

 [*Coscinodiscus rothii* v. *normani* (Gregory *in* Greville) Van Heurck 1885]

f. *normanii*

f. *subsalsus* (Juhlin-Dannfelt) Hustedt 1957

 [*Coscinodiscus subsalsus* Juhlin-Dannfelt 1882]

 [*Coscinodiscus rothii* v. *subsalsa* (Juhlin-Dannfelt) Hustedt 1928]

octionarius Ehrenberg 1838

 [*Actinocyclus ehrenbergii* Ralfs *in* Pritchard 1861]

v. *octionarius*

v. *crassus* (W. Smith) Hendey 1954 (24)

 [*Eupodiscus crassus* W. Smith 1853]

 [*Actinocyclus crassus* (W. Smith) Ralfs *in* Pritchard 1861]

 [*Actinocyclus ehrenbergii* v. *crassa* (W. Smith) Hustedt 1929]

–	–	f	–	–	–	–	f	–	–	f
+	–	–	–	–	–	–	–	–	–	–
+	–	+	–	–	–	–	–	–	–	–
fbe	fbe	fbe	–	fbe	–	fbe	–	–	–	–
+	CW	CW	W	W	W	W	W	+	W	W
+	–	+	+	+	+	+	+	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
v. ralfsii (W. Smith) Hendey 1954 (24) [<i>Eupodiscus ralfsii</i> W. Smith 1856] [<i>Actinocyclus ralfsii</i> (W. Smith) Ralfs in Pritchard 1861] [<i>Actinocyclus ehrenbergii</i> v. <i>ralfsii</i> (W. Smith) Hustedt 1929]	-	-	-	-	-	-	+	-	-	-
v. sparsus (Gregory) Hendey 1954 (24) [<i>Eupodiscus sparsus</i> Gregory 1857] [<i>Actinocyclus ralfsii</i> v. <i>sparsa</i> (Gregory) Ralfs in Pritchard 1861] [<i>Actinocyclus ehrenbergii</i> v. <i>sparsa</i> (Gregory) Hustedt 1929]	-	-	-	-	-	-	-	-	-	-
v. tenellus (Brébisson) Hendey 1954 (24) [<i>Eupodiscus tenellus</i> Brébisson 1854] [<i>Actinocyclus tenellus</i> (Brébisson) Grunow 1867] [<i>Actinocyclus ehrenbergii</i> v. <i>tenella</i> (Brébisson) Hustedt 1929]	-	-	+	-	+	-	-	-	-	-
sp.	+	-	-	-	-	-	-	-	-	-
Actinoptychus Ehrenberg 1839										
senarius (Ehrenberg) Ehrenberg 1843 [<i>Actinocyclus senarius</i> Ehrenberg 1838] [<i>Actinocyclus undulatus</i> J.W. Bailey 1842] [<i>Actinoptychus undulatus</i> (J.W. Bailey) Ralfs in Pritchard 1861]	+	+	+	-	-	-	-	-	-	-
splendens (Shadbolt) Ralfs in Pritchard 1861 [<i>Actinosphaeria splendens</i> Shadbolt 1854]	+	-	-	-	-	-	-	-	-	-
Anaulus Ehrenberg 1844										
balticus Simonsen 1959			-	-	-	-	-	-	-	-
Attheya T. West 1860										
decora T. West 1860				-	-	-		-	-	-
septentrionalis (Østrup) Crawford in Crawford, Gardner & Medlin 1994 [<i>Chaetoceros septentrionalis</i> Østrup 1895] [<i>Chaetoceros glaciale</i> Meunier 1910] [<i>Gonioceros septentrionalis</i> (Østrup) Round <i>et al.</i> 1990]	+	+	+	+	+	+	+	-	+	+
Aulacodiscus Ehrenberg 1844 <i>nom. cons.</i>										
argus (Ehrenberg) A. Schmidt 1886 [<i>Tripodiscus argus</i> Ehrenberg 1839] [<i>Eupodiscus argus</i> (Ehrenberg) W. Smith 1853]	+	-	+	-	-	-	-	-	-	-
Aulacoseira Thwaites 1848 (" <i>Aulacosira</i> ")										
alpigena (Grunow) Krammer 1990 [<i>Melosira distans</i> v. <i>alpigena</i> Grunow in Van Heurck 1882] [<i>Aulacoseira distans</i> v. <i>alpigena</i> (Grunow) Simonsen 1979]	-	-	-	-	f	-	f	-	-	-
ambigua (Grunow) Simonsen 1979 [<i>Melosira crenulata</i> v. <i>ambigua</i> Grunow in Van Heurck 1882] [<i>Melosira ambigua</i> (Grunow) O. Müller 1903]	fe	fe	-	-	-	-	fe	-	fe	fe

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Melosira italica</i> v. <i>valida</i> (Grunow) Hustedt 1927]										
[<i>Aulacoseira italica</i> v. <i>valida</i> (Grunow) Simonsen 1979]										
Auliscus Ehrenberg 1843										
<i>pruinus</i> J.W. Bailey 1854		-	-	-	-	-	-	-	-	-
<i>reticulatus</i> Greville 1863		-	-	-	-	-	-	-	-	-
<i>sculptus</i> (W. Smith) Ralfs in Pritchard 1861		-	-	-	-	-	-	-	-	-
Azpeitia M. Peragallo in Tempère & H. Peragallo 1912										
<i>nodulifera</i> (A. Schmidt) Fryxell & Sims in Fryxell, Sims & Watkins 1986	-	-	-	?	-	-	-	-	-	-
[<i>Coscinodiscus nodulifer</i> A. Schmidt 1878]										
Bacteriastrum Shadbolt 1854										
<i>elongatum</i> P.T. Cleve 1897	+	-	-	-	-	-	-	-	-	-
<i>hyalinum</i> Lauder 1864	+	-	-	-	-	-	-	-	-	-
sp.	+	-	?	-	-	-	-	-	-	-
Bacterosira Gran 1900										
<i>bathyomphala</i> (P.T. Cleve) Syvertsen & Hasle in Hasle & Syvertsen 1993	+	-	-	-	-	-	-	-	-	-
[<i>Coscinodiscus bathyomphalus</i> P.T. Cleve 1883]										
[<i>Lauderia fragilis</i> Gran 1897]										
[<i>Bacterosira fragilis</i> (Gran) Gran 1900]										
Bellerocha Van Heurck 1885 <i>emend.</i> von Stosch 1977										
<i>malleus</i> (Brightwell) Van Heurck 1885 <i>emend.</i> von Stosch 1977	+	-	+	-	-	-	-	-	-	-
[<i>Triceratium malleus</i> Brightwell 1858]										
Biddulphia Gray 1821										
<i>granulata</i> Roper 1859		-	-	-	-	-	-	-	-	-
<i>obtusa</i> (Kützing) Ralfs in Pritchard 1861		-	-	-	-	-	-	-	-	-
[<i>Odontella obtusa</i> Kützing 1844]										
[<i>Biddulphia aurita</i> v. <i>obtusa</i> (Kützing) Hustedt 1930]										
<i>pulchella</i> Gray 1821			-	-	-	-	-	-	-	-
[<i>Biddulphia biddulphiana</i> (J.E. Smith) Boyer 1901]										
<i>subaequa</i> (Kützing) Ralfs in Pritchard 1861			-	-	-	-	-	-	-	-
[<i>Odontella subaequa</i> Kützing 1844]										
[<i>Biddulphia subaequa</i> v. <i>baltica</i> Grunow in Van Heurck 1881]										
Cerataulina H. Peragallo ex Schütt 1896										
<i>pelagica</i> (P.T. Cleve) Hendey 1937	+	+	-	-	-	-	-	-	-	-
[<i>Zygoceros pelagica</i> P.T. Cleve 1889]										
[<i>Cerataulus bergonii</i> H. Peragallo 1892]										
[<i>Cerataulina bergonii</i> (H. Peragallo) H. Peragallo ex Schütt 1896]										
Cerataulus Ehrenberg 1843 (1844)										
<i>smithii</i> Ralfs in Pritchard 1861		-	-	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
debilis P.T. Cleve 1894	c(w)	+	+	-	-	-	?	-	-	-
decipiens P.T. Cleve 1873	c(w)	c	c	-	-	-	c	-	?	?
[<i>Chaetoceros grunowii</i> Schütt 1895]										
densus P.T. Cleve 1901	+	+	+	+	-	-	+	+	-	-
[<i>Chaetoceros boreale</i> v. <i>brightwellii</i> P.T. Cleve 1873 p.p.]										
[<i>Chaetoceros boreale</i> v. <i>densa</i> P.T. Cleve 1897]										
diadema (Ehrenberg) Gran 1897	c	+	+	?	-	-	+	-	-	-
[<i>Syndendrium diadema</i> Ehrenberg 1845]										
[<i>Chaetoceros distans</i> v. <i>subsecundus</i> Grunow in Van Heurck 1881]										
[<i>Chaetoceros subsecundus</i> (Grunow in Van Heurck) Hustedt 1930]										
didymus Ehrenberg 1845										
v. didymus	c(w)	+	?	-	-	-	-	-	-	-
v. anglica (Grunow in Van Heurck) Gran 1908	+	-	-	-	-	-	-	-	-	-
[<i>Chaetoceros furcellatus</i> v. <i>anglica</i> Grunow in Van Heurck 1881]										
v. protuberans (Lauder) Gran & Yendo 1914	+	+	-	-	-	-	-	-	-	-
[<i>Chaetoceros protuberans</i> Lauder 1864]										
difficilis P.T. Cleve 1900	+	-	-	-	-	-	-	-	-	-
eibenii Grunow in Van Heurck 1882	+	-	-	-	-	-	-	-	-	-
furcellatus Bailey 1856	+	-	-	-	-	-	-	-	-	-
gracilis Schütt 1895	+	+	+	+	-	+	+	-	+	+
holsaticus Schütt 1895	c	c	c	c	c	c	c	c	c	c
[<i>Chaetoceros leve</i> Schütt 1895]										
[<i>Chaetoceros balticum</i> P.T. Cleve 1896]										
[<i>Chaetoceros granii</i> P.T. Cleve 1900]										
impressus K.G. Jensen & Moestrup 1998 (62)	+	-	+	-	-	-	-	-	-	-
[<i>Chaetoceros eibenii sensu</i> Wołoszyńska 1935]										
[<i>Chaetoceros eibenii</i> f. <i>solitaria</i> Wołoszyńska 1935 p.p. (Fig. 2:4)]										
[<i>Chaetoceros</i> sp. "A" Sundström 1973]										
ingolfianus Ostenfeld in Gran 1902	c	-	-	-	-	-	-	-	-	-
laciniosus Schütt 1895	c	+	+	+	-	-	-	-	-	-
lauderi Ralfs in Lauder 1864	+	-	-	-	-	-	-	-	-	-
[<i>Chaetoceros weissflogii</i> Schütt 1895]										
lorenzianus Grunow 1863	cw	-	-	-	-	-	-	-	-	-
minimus (Levander) Marino <i>et al.</i> 1991	+	+	+	+	+	+	+	-	+	+
[<i>Rhizosolenia minima</i> Levander 1904]										
[<i>Monoceros isthmiformis</i> Van Goor 1924]										
[<i>Monoceros minimum</i> (Levander) Välikangas 1926]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
sp.	+	+	+	+	+	-	+	-	+	+
Corethron Castracane 1886										
<i>criophilum</i> Castracane 1886	+	-	-	-	-	-	-	-	-	-
Coscinodiscus Ehrenberg 1839 <i>emend.</i> Rattray 1890, Hasle & Sims 1986										
<i>apiculatus</i> Ehrenberg 1844 (2, 4)	-	-	-	-	-	-	?	-	-	-
<i>argus</i> Ehrenberg (4)	-	-	-	-	-	-	?	-	-	-
<i>asteromphalus</i> Ehrenberg 1844 (4, 64)	+	+	+	+	+	-	-	-	-	-
<i>centralis</i> Ehrenberg 1844	+	-	-	-	-	-	-	-	-	-
<i>commutatus</i> Grunow 1884 (4)	+	+	+	-	-	-	+	-	-	-
[<i>Coscinodiscus jonesianus</i> v. <i>commutata</i> (Grunow) Hustedt 1928]										
<i>concinnus</i> W. Smith 1856	+	+	?	-	-	-	-	-	-	-
<i>divisus</i> Grunow <i>in</i> Schneider 1878 (4)	-	-	-	-	-	-	?	-	-	-
<i>granii</i> Gough 1905 (64)	+	+	+	+	W	+	W	W	W	+
<i>granulosus</i> (Grunow) Grunow <i>in</i> Cleve & Grunow 1880 (2, 65)	-	-	+	-	-	-	-	-	-	-
[<i>Odontodiscus granulosus</i> Grunow <i>in</i> Cleve & Grunow 1880]										
<i>jonesianus</i> (Greville) Ostenfeld 1915 (4)	+	-	+	+	-	-	-	-	-	-
[<i>Eupodiscus jonesianus</i> Greville 1862]										
<i>marginatus</i> Ehrenberg 1841 (1843, 1844)	+	-	-	-	-	-	?	-	-	-
<i>obscurus</i> A. Schmidt 1878 (4)	-	?	?	-	-	-	-	-	-	-
<i>oculus-iridis</i> Ehrenberg 1839 (64)	+	+	+	?	?	?	?	-	-	-
<i>perforatus</i> Ehrenberg 1844	+	-	-	-	-	-	?	-	-	-
<i>radiatus</i> Ehrenberg 1841 (1839)	+	+	+	+	?	-	?	-	?	-
[<i>Coscinodiscus neoradiatus</i> Cleve-Euler 1942?]										
<i>stellaris</i> Roper 1858	-	?	?	-	-	-	-	-	-	-
<i>subbulliens</i> E. Jørgensen 1905	+	-	-	-	-	-	-	-	-	-
<i>walesii</i> Gran & Angst 1931	+	-	-	-	-	-	-	-	-	-
[<i>Coscinodiscus nobilis</i> auct.]										
sp.	+	+	+	+	-	+	+	-	+	-
Cyclostephanos (Round 1982) Round <i>in</i> Theriot <i>et al.</i> 1988 (1987)										
<i>dubius</i> (Fricke <i>in</i> A. Schmidt) Round 1982	f	-	f	-	f	-	f	-	-	+
[<i>Cyclotella dubia</i> Fricke <i>in</i> A. Schmidt 1900]										
[<i>Stephanodiscus pulcherrimus</i> Cleve-Euler 1910]										
[<i>Stephanodiscus dubius</i> (Fricke <i>in</i> A. Schmidt) Hustedt 1928]										
Cyclotella (Kützing 1833 (1834)) Brébisson 1838 <i>nom. cons.</i>										
<i>antiqua</i> W. Smith 1853	-	-	-	-	-	-	If	-	-	-
<i>atomus</i> Hustedt 1937	wef	-	+	-	-	-	wef	-	-	-
<i>choctawhatcheeana</i> Prasad <i>in</i> Prasad, Nienow & Livingston 1990	+	+	+	W	W	-	W	-	W	W
[<i>Cyclotella caspia</i> auct.]										
[non <i>Cyclotella caspia</i> sensu Grunow 1878]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Detonula Schütt 1893										
confervacea (P.T. Cleve) Gran 1900	c	c	-	-	-	-	-	-	-	-
[Lauderia confervacea P.T. Cleve 1896]										
pumila (Castracane) Schütt 1896	+	?	?	-	-	-	-	-	-	-
[Lauderia pumila Castracane 1886]										
[Lauderia delicatula H. Peragallo 1888]										
[Detonula delicatula (H. Peragallo) Gran 1900]										
[Thalassiosira condensata P.T. Cleve 1900]										
[Lauderia schroederi Bergon 1903]										
[Detonula schroederi (Bergon) Gran 1905]										
[Schroederella delicatula (H. Peragallo) Pavillard 1913]										
[Coscinodiscus condensatus (P.T. Cleve) Cleve-Euler 1951]										
Dimeregramma Ralfs in Pritchard 1861										
minor (Gregory) Ralfs in Pritchard 1861	-	?	-	-	-	-	-	-	-	-
[Denticula minor Gregory 1857]										
Ditylum J.W. Bailey ex L.W. Bailey 1861 ("Ditylium" auct.)										
brightwellii (T. West) Grunow in Van Heurck 1883	w	+	?	-	-	-	-	-	-	-
[Triceratium brightwellii T. West 1860]										
[Ditylum trigonum J.W. Bailey ex L.W. Bailey 1861]										
Ellerbeckia Crawford 1988										
arenaria (Moore) Crawford 1988	-	lf	lf	-	-	-	lf	-	-	l
[Melosira arenaria Moore ex Ralfs 1843]										
Eucampia Ehrenberg 1839										
zodiacus Ehrenberg 1839	+	-	-	-	-	-	-	-	-	-
Guinardia H. Peragallo 1892										
cylindrus (P.T. Cleve) Hasle 1996 (67)	-	-	-	-	-	-	sw	-	-	-
[Rhizosolenia cylindrus P.T. Cleve 1897]										
delicatula (P.T. Cleve) Hasle 1996	+	-	-	-	-	-	-	-	-	-
[Rhizosolenia delicatula P.T. Cleve 1900]										
flaccida (Castracane) H. Peragallo 1892	w	+	?	-	-	-	-	-	-	-
[Rhizosolenia flaccida Castracane 1886]										
striata (Stoltherfoth) Hasle 1996	+	-	-	-	-	-	-	-	-	-
[Eucampia striata Stoltherfoth 1879]										
[Rhizosolenia stoltherfothii H. Peragallo 1888]										
Helicotheca Ricard 1987										
[Streptothecca Shrubsole 1891]										
[non Streptothecca Vuillemin 1887]										
tamesis (Shrubsole) Ricard 1987	+	-	-	-	-	-	-	-	-	-
[Streptothecca tamesis Shrubsole 1891]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Hemiaulus Heiberg 1863 <i>nom. cons.</i> [non <i>Hemiaulus</i> Ehrenberg 1844]										
hauckii Grunow <i>in</i> Van Heurck 1882	+	-	-	-	-	-	-	-	-	-
sinensis Greville 1865	+	-	-	-	-	-	-	-	-	-
Hyalodiscus Ehrenberg 1845										
scoticus (Kützing) Grunow 1879 [Cyclotella <i>scotica</i> Kützing 1844]	+	+	+	+	+	-	-	-	-	-
Isthmia C.A. Agardh 1832										
enervis Ehrenberg 1838		-	-	-	-	-	-	-	-	-
nervosa Kützing 1844		-	-	-	-	-	-	-	-	-
Lauderia P.T. Cleve 1873										
annulata P.T. Cleve 1873 [<i>Lauderia borealis</i> Gran 1900]	+	-	-	-	-	-	-	-	-	-
Leptocylindrus P.T. Cleve 1889										
danicus P.T. Cleve 1889	+	+	-	-	-	-	?	-	-	-
mediterraneus (H. Peragallo) Hasle 1975 [<i>Lauderia mediterranea</i> H. Peragallo 1888] [<i>Dactyliosolen mediterraneus</i> (H. Peragallo) H. Peragallo 1892]	+	-	-	-	-	-	-	-	-	-
minimus Gran 1915	+	-	+	-	+	-	+	-	+	-
Lithodesmium Ehrenberg 1839										
undulatum Ehrenberg 1839	+	-	-	-	-	-	-	-	-	-
Melosira C.A. Agardh 1824 <i>nom. cons.</i>										
arctica (Ehrenberg) Dickie <i>ex</i> Ralfs <i>in</i> Pritschard 1861 [<i>Gaillionella arctica</i> Ehrenberg 1853] [<i>Melosira hyperborea</i> Grunow <i>in</i> Van Heurck 1882] [<i>Melosira arctica</i> v. <i>bornholmiensis</i> Cleve-Euler 1935]	c	c	c	c	c	c	c	c	c	c
dubia Kützing 1844	-	-	-	-	-	-				-
lineata (Dillwyn) C.A. Agardh 1824 [<i>Conferva lineata</i> Dillwyn 1809] [<i>Melosira juergensii</i> C.A. Agardh 1824] [<i>Melosira subflexilis</i> Kützing 1833]								-		
moniliformis (O.F. Müller) C.A. Agardh 1824 [<i>Conferva moniliformis</i> O.F. Müller 1783] [<i>Melosira borneri</i> Greville 1833]								-		
nummuloides C.A. Agardh 1824 <i>emend.</i> Crawford 1975 [non <i>Conferva nummuloides</i> Dillwyn 1809] (68)										
octogona A. Schmidt 1874 (2) [Trahms 1939, Abshagen 1908]	-		-	-	-	-	-	-	-	-
undulata (Ehrenberg) Kützing 1844 (4) [<i>Gaillionella undulata</i> Ehrenberg 1840]	-	?	?	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
varians C.A. Agardh 1827	f	f	f	-	-	f	f	-	+	+
westii W. Smith 1856	l	?	-	-	-	-	-	-	-	-
sp.	+	-	+	-	-	-	-	-	+	-
Odontella C.A. Agardh 1832										
aurita (Lyngbye) C.A. Agardh 1832	+	+	-	-	-	-	-	-	-	-
[<i>Diatoma auritum</i> Lyngbye 1819]										
[<i>Biddulphia aurita</i> (Lyngbye) Brébisson in Brébisson & Godey 1838]										
granulata (Roper) R. Ross in Hartley 1986	+	-	-	-	-	-	-	-	-	-
[<i>Biddulphia granulata</i> Roper 1859]										
mobiliensis (J.W. Bailey) Grunow 1884	+	+	?	?	?	-	-	-	-	-
[<i>Zygoceros mobiliensis</i> J.W. Bailey 1851]										
[<i>Biddulphia baileyi</i> W. Smith 1856]										
[<i>Biddulphia mobiliensis</i> (J.W. Bailey) Grunow in Van Heurck 1881 (1882?)]										
[<i>Denticella mobiliensis</i> (J.W. Bailey) Grunow 1884]										
rhombus (Ehrenberg) Kützing 1849										
[<i>Zygoceros rhombus</i> Ehrenberg 1840]										
[<i>Biddulphia rhombus</i> (Ehrenberg) W. Smith 1856]										
f. rhombus [f. <i>typica</i> auct. <i>nom. illeg.</i>]	(l)	-	-	-	-	-	-	-	-	-
f. trigona (Cleve ex Van Heurck) R. Ross in Hartley 1886	+	-	-	-	-	-	-	-	-	-
[<i>Biddulphia rhombus</i> v. <i>trigona</i> Cleve ex Van Heurck 1882]										
[<i>Biddulphia rhombus</i> f. <i>trigona</i> (Cleve ex Van Heurck) Hustedt 1930]										
sinensis (Greville) Grunow 1884	+	+	+	?	-	-	-	-	-	-
[<i>Biddulphia sinensis</i> Greville 1866]										
Orthoseira Thwaites 1848										
roseana (Rabenhorst) O'Meara 1876	-	-	f	-	-	-	-	-	-	-
[<i>Melosira roseana</i> Rabenhorst 1853]										
Paralia Heiberg 1863										
sulcata (Ehrenberg) P.T. Cleve 1873	l	l	-	-	-	-	l	-	-	l?
[<i>Gaillonella sulcata</i> Ehrenberg 1838]										
[<i>Melosira sulcata</i> (Ehrenberg) Kützing 1844]										
[<i>Orthosira marina</i> W. Smith 1856]										
[<i>Paralia marina</i> (W. Smith) Heiberg 1863]										
Plagiogramma Greville 1859										
staurophorum (Gregory) Heiberg 1863	-	?	-	-	-	-	-	-	-	-
[<i>Denticula staurophora</i> Gregory 1857]										
[<i>Plagiogramma gregorianum</i> Greville 1859 <i>nom. illeg.</i>]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>styliformis</i> Brightwell 1858	+	+	?	-	-	-	-	-	-	-
Roperia Grunow in Van Heurck 1881										
<i>tesselata</i> (Roper) Grunow in Van Heurck 1881 [<i>Eupodiscus tesselatus</i> Roper 1858]	+	-	-	-	-	-	-	-	-	-
Skeletonema Greville 1865										
<i>costatum</i> (Greville) P.T. Cleve 1878 [<i>Melosira costata</i> Greville 1866]	cw	cw	cw	cw	c(w)	c(w)	c(w)	c(w)	c(w)	c(w)
<i>potamos</i> (Weber) Hasle in Hasle & Evensen 1976 [<i>Microsiphona potamos</i> Weber 1970]	-	-	fb	-	-	-	-	-	-	-
<i>subsalsum</i> (Cleve-Euler) Bethge 1928 [<i>Melosira subsalsa</i> Cleve-Euler 1912]	-	be	be	+	be	be	be	-	-	e
sp.	-	-	+	-	-	-	-	-	-	-
Stellarima Hasle & Sims 1986										
<i>microtrias</i> (Ehrenberg) Hasle & Sims 1986 [<i>Symbolophora? microtrias</i> Ehrenberg 1844] [<i>Coscinodiscus stellaris</i> v. <i>symbolophora</i> (Grunow) Jørgensen 1905]	-	-	-	-	-	-	?	-	-	-
<i>stellaris</i> (Roper) Hasle & Sims 1986 (4) [<i>Coscinodiscus stellaris</i> Roper 1858]	-	?	?	-	-	-	?	-	-	-
Stephanodiscus Ehrenberg 1846										
<i>alpinus</i> Hustedt in Huber-Pestalozzi 1942	-	fce	-	-	-	-	-	-	-	-
<i>binderanus</i> (Kützing) W. Krieger 1927 [<i>Melosira binderana</i> Kützing 1844] [<i>Melosira oestrupi</i> Cleve-Euler 1910] [<i>Stephanodiscus binderanus</i> α. <i>östrupi</i> (Cleve-Euler) Cleve-Euler 1951]	-	-	f	-	f	-	f	-	-	-
<i>hantzschii</i> Grunow in P.T. Cleve & Grunow 1880 [<i>Stephanodiscus hantzschii</i> v. <i>pusilla</i> Grunow in P.T. Cleve & Grunow 1880] [<i>Stephanodiscus hantzschii</i> v. <i>delicatula</i> Cleve-Euler 1910] [? <i>Stephanodiscus tenuis</i> Hustedt 1939] [? <i>Stephanodiscus hantzschii</i> f. <i>tenuis</i> (Hustedt) Håkansson & Stoermer 1984]	f	fe	f	f	f	f	f	-	f	f
<i>minutulus</i> (Kützing) P.T. Cleve & Möller 1978 [<i>Cyclotella minutula</i> Kützing 1844] [<i>Stephanodiscus astraee</i> v. <i>minutula</i> (Kützing) Grunow in Van Heurck 1882]	-	-	f	-	f	-	f	-	-	-
<i>neoastraee</i> Håkansson & Hickel 1986 [<i>Stephanodiscus astraee</i> auct. <i>p.p.</i>] [non <i>Cyclotella astraee</i> (Ehrenberg) Kützing 1849] [non <i>Stephanodiscus astraee</i> (Ehrenberg) Grunow in Van Heurck 1882]	-	fe	fe	-	-	-	-	-	-	?
<i>parvus</i> (Grunow ex Cleve & Möller) Stoermer & Håkansson 1984 [<i>Stephanodiscus hantzschii</i> f. <i>parva</i> Grunow ex Cleve & Möller 1879]	-	-	f	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
rotula (Kützing) Hendey 1964 [<i>Cyclotella rotula</i> Kützing 1844] [<i>Stephanodiscus astraea</i> auct. <i>p.p.</i>] [non <i>Stephanodiscus astraea</i> (Ehrenberg) Grunow in Van Heurck 1882] [non <i>Cyclotella astraea</i> (Ehrenberg) Kützing 1849]	f	f	f	–	–	f	f	–	–	+
subtilis (van Goor) Cleve-Euler 1951 (2) [<i>Melosira subtilis</i> van Goor 1924]	–	–	–	–	–	f	–	–	–	–
sp.	–	–	–	+	–	–	–	–	–	–
Stephanopyxis (Ehrenberg) Ehrenberg 1845										
turris (Greville & Arnott in Gregory) Ralfs in Pritchard 1861 [<i>Creswellia turris</i> Greville & Arnott in Gregory 1857]	+	–	–	–	–	–	–	–	–	–
Terpsinoë Ehrenberg 1843										
americana (Bailey) Ralfs in Pritchard 1861 [<i>Tetragramma americana</i> Bailey 1854]	–	–	–	?	–	–	–	–	–	–
Thalassiosira P.T. Cleve 1873 <i>emend.</i> Hasle 1973										
angulata (Gregory) Hasle 1978 (69) [<i>Orthosira angulata</i> Gregory 1857] [<i>Thalassiosira decipiens</i> (Grunow) E. Jørgensen 1905] [non <i>Thalassiosira decipiens</i> (Grunow) E. Jørgensen <i>sensu</i> Hasle 1979]	–	?	–	–	–	–	–	–	–	–
anguste-lineata (A. Schmidt) G. Fryxell & Hasle 1977 [<i>Coscinodiscus anguste-lineatus</i> A. Schmidt 1878] [<i>Coscinodiscus polychordus</i> Gran 1897] [<i>Thalassiosira polychorda</i> (Gran) E. Jørgensen 1900] [<i>Coscinosira polychorda</i> (Gran) Gran 1900] [? <i>Coscinodiscus sublineatus</i> auct.]	c	+	+	?	–	–	–	–	–	–
baltica (Grunow in P.T. Cleve & Grunow) Ostenfeld 1901 [? <i>Coscinodiscus polyacanthus</i> auct.] [<i>Coscinodiscus polyacanthus</i> v. <i>baltica</i> Grunow in Cleve & Grunow 1880] [<i>Coscinodiscus balticus</i> (Grunow in Cleve & Grunow) P.T. Cleve 1891] [<i>Coscinodiscus subtilis</i> auct. <i>p.p.</i>] [<i>Coscinodiscus subtilis</i> v. <i>fluviatilis</i> Lemmermann 1904] [<i>Thalassiosira baltica</i> v. <i>fluviatilis</i> (Lemmermann) Cleve-Euler 1910] [<i>Thalassiosira subsalina</i> Proschkina-Lavrenko 1955]	+	+	+	c(w)	c(w)	c(w)	c(w)	c(w)	c(w)	c(w)
decipiens (Grunow) E. Jørgensen 1905 <i>sensu</i> Hasle 1979 (4, 69) [<i>Coscinodiscus eccentricus</i> v. ? <i>decipiens</i> Grunow in Schneider 1878]	c	c	c	?	+	–	+	–	–	–
eccentrica (Ehrenberg) P.T. Cleve 1903–1904 [<i>Coscinodiscus eccentricus</i> Ehrenberg 1841 (“ <i>excentricus</i> ”)] [<i>Coscinodiscus eccentricus</i> v. <i>fasciculata</i> Hustedt 1928] [? <i>Coscinodiscus kryophilus</i> Grunow 1884] [? <i>Thalassiosira kryophila</i> (Grunow) E. Jørgensen 1905]	+	+	–	?	–	–	+	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
gravida P.T. Cleve 1896 [<i>Coscinodiscus gravidus</i> (P.T. Cleve) Cleve-Euler 1951]	c	+	+	?	-	-	-	-	-	-
guillardii Hasle 1978	-	-	?	+	+	-	+	-	+	+
hyalina (Grunow <i>in</i> Cleve & Grunow) Gran 1897 [<i>Coscinodiscus hyalinus</i> Grunow <i>in</i> Cleve & Grunow 1880]	c	-	-	-	-	-	-	-	-	-
hyperborea (Grunow) Hasle 1989 [<i>Coscinodiscus hyperboreus</i> Grunow 1884] [<i>Coscinodiscus lacustris</i> auct.] [<i>Thalassiosira lacustris</i> auct.] [<i>Thalassiosira bramaputrae</i> auct.]										
v. lacunosa (Berg) Hasle 1989 [<i>Coscinodiscus lacunosus</i> Berg 1952] [<i>Coscinodiscus lacustris</i> v. <i>septentrionalis</i> auct.] [non <i>Thalassiosira hyperborea</i> v. <i>septentrionalis</i> (Grunow) Hasle 1989]	-	+	c	?	+	?	c	-	c	-
v. pelagica (Cleve-Euler) Hasle 1989 [<i>Coscinodiscus lacustris</i> v. <i>pelagicus</i> Cleve-Euler 1937]	c	-	c	?	-	?	c	-	-	-
lacustris (Grunow <i>in</i> Cleve & Grunow 1880) Hasle <i>in</i> Hasle & G. Fryxell 1977 [<i>Coscinodiscus lacustris</i> Grunow <i>in</i> Cleve & Grunow 1880]	?	?	f	?	?	?	?	-	?	?
leptopus (Grunow <i>in</i> Van Heurck) Hasle & G. Fryxell 1977 [<i>Coscinodiscus leptopus</i> Grunow <i>in</i> Van Heurck 1883] [<i>Coscinodiscus lineatus</i> Ehrenberg 1839 (1854)]	+	-	-	-	-	-	?	-	-	-
levanderi van Goor 1924 (70) [<i>Coscinodiscus levanderi</i> (Van Goor) Cleve-Euler 1951]	+	+	c	+	c	c	c	-	c	+
nordenskioldii P.T. Cleve 1873 [<i>Coscinodiscus nordenskioldii</i> (P.T. Cleve) Cleve-Euler 1951]	c	-	-	-	-	-	-	-	-	-
proschkinae Makarova <i>in</i> Makarova, Genkal & Kuzmin 1979 (70)	+	-	+	-	-	-	-	-	+	-
pseudonana (Hustedt) Hasle & Heimdal 1970 [<i>Cyclotella nana</i> Hustedt 1957] [? <i>Thalassiosira nana</i> Lohmann 1908 <i>p.p.</i>]	+	+	+	+	+	w	w	-	+	+
rotula Meunier 1910 [<i>Coscinodiscus rotulus</i> (Meunier) Cleve-Euler 1951]	+	+	-	-	-	-	-	-	-	-
weissflogii (Grunow <i>in</i> Van Heurck) G. Fryxell & Hasle 1977 [<i>Micropodiscus weissflogii</i> Grunow <i>in</i> Van Heurck 1885] [<i>Thalassiosira fluviatilis</i> Hustedt 1926]	+	e	?	-	-	-	we	-	w	-
sp.	+	+	+	+	+	-	+	-	+	+
Triceratium Ehrenberg 1841 (1839)										
favus Ehrenberg 1841 (1839) [<i>Biddulphia favus</i> (Ehrenberg) Grunow <i>in</i> Van Heurck 1883]	+	-	-	-	-	-	-	-	-	-

Urosolenia Round & Crawford *in* Round *et al.* 1990**eriensis** (H.L. Smith) Round & Crawford *in* Round *et al.* 1990
[*Rhizosolenia eriensis* H.L. Smith 1872]**longiseta** (Zacharias) Edlund & Stoermer
[*Rhizosolenia longiseta* Zacharias 1893]

Order BACILLARIALES (PENNALES) – Pennate diatoms

Achnanthes Bory 1822**bottnica** (P.T. Cleve) P.T. Cleve 1895
[*Achnanthes clevei* v. *bottnica* P.T. Cleve 1891]**brevipes** C.A. Agardh 1824**v. brevipes****v. intermedia** (Kützing) P.T. Cleve 1895[*Achnanthes intermedia* Kützing 1833]**clevei** Grunow *in* P.T. Cleve & Grunow 1880[*Achnanthidium clevei* (Grunow) Czarnecki *in* Czarnecki & Edlund 1995][*Karayevia clevei* (Grunow) Round & Bukhtiyarova 1996]**conspicua** A. Mayer 1919**delicatula** (Kützing) Grunow *in* Cleve & Grunow 1880[*Achnanthidium delicatulum* Kützing 1844][*Planothidium delicatulum* (Kützing) Round & Bukhtiyarova 1996][*Achnanthes hauckiana* Grunow *sensu auct. nonnull.*]**ssp. delicatula****ssp. hauckiana** (Grunow) Lange-Bertalot *in* Lange-Bertalot & Ruppel 1980][*Achnanthes hauckiana* Grunow *in* Cleve & Grunow 1880]**dispar** P.T. Cleve 1891**exigua** Grunow 1880[*Achnanthes exigua* v. *constricta* Torck 1909][*Achnanthes exigua* v. *heterovalva* Krasske 1923 ("*heterovalvata*")]**flexella** (Kützing) Brun 1880[*Cymbella flexella* Kützing 1844]**hungarica** (Grunow) Grunow *in* Cleve & Grunow 1880[*Achnanthidium hungaricum* Grunow 1863]**laevis** Østrup 1910[*Achnanthes lapponica* (Hustedt) Hustedt 1933 *sensu lat.*]**lanceolata** (Brébisson *in* Kützing) Grunow *in* Cleve & Grunow 1880[*Achnanthidium lanceolatum* Brébisson *in* Kützing 1849][*Planothidium lanceolatum* (Brébisson) Round & Bukhtiyarova 1996]**ssp. lanceolata****v. lanceolata**

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Urosolenia Round & Crawford <i>in</i> Round <i>et al.</i> 1990										
eriensis (H.L. Smith) Round & Crawford <i>in</i> Round <i>et al.</i> 1990 [<i>Rhizosolenia eriensis</i> H.L. Smith 1872]	–	–	–	–	–	–	f	–	–	f
longiseta (Zacharias) Edlund & Stoermer [<i>Rhizosolenia longiseta</i> Zacharias 1893]	–	–	f	–	–	–	f	–	f	f
Order BACILLARIALES (PENNALES) – Pennate diatoms										
Achnanthes Bory 1822										
bottnica (P.T. Cleve) P.T. Cleve 1895 [<i>Achnanthes clevei</i> v. <i>bottnica</i> P.T. Cleve 1891]		–	–	–		–	–	–	–	
brevipes C.A. Agardh 1824										
v. brevipes				–	–			–	–	–
v. intermedia (Kützing) P.T. Cleve 1895 [<i>Achnanthes intermedia</i> Kützing 1833]	–	–	–	–	–			–	–	–
clevei Grunow <i>in</i> P.T. Cleve & Grunow 1880 [<i>Achnanthidium clevei</i> (Grunow) Czarnecki <i>in</i> Czarnecki & Edlund 1995] [<i>Karayevia clevei</i> (Grunow) Round & Bukhtiyarova 1996]	–	–		–	–	–		–	–	–
conspicua A. Mayer 1919	–	–	–	–				–	–	–
delicatula (Kützing) Grunow <i>in</i> Cleve & Grunow 1880 [<i>Achnanthidium delicatulum</i> Kützing 1844] [<i>Planothidium delicatulum</i> (Kützing) Round & Bukhtiyarova 1996] [<i>Achnanthes hauckiana</i> Grunow <i>sensu auct. nonnull.</i>]										
ssp. delicatula		–		–				–		
ssp. hauckiana (Grunow) Lange-Bertalot <i>in</i> Lange-Bertalot & Ruppel 1980] [<i>Achnanthes hauckiana</i> Grunow <i>in</i> Cleve & Grunow 1880]	–	–	–	–	–	–		–		
dispar P.T. Cleve 1891	–	–	–	–	–	–		–	–	–
exigua Grunow 1880 [<i>Achnanthes exigua</i> v. <i>constricta</i> Torck 1909] [<i>Achnanthes exigua</i> v. <i>heterovalva</i> Krasske 1923 (" <i>heterovalvata</i> ")]	–	–	–	–	–			–	–	–
flexella (Kützing) Brun 1880 [<i>Cymbella flexella</i> Kützing 1844]	–	–	–	–	–	–	lf	–	–	–
hungarica (Grunow) Grunow <i>in</i> Cleve & Grunow 1880 [<i>Achnanthidium hungaricum</i> Grunow 1863]	–	–	–	–	–	–	lf	–	–	–
laevis Østrup 1910 [<i>Achnanthes lapponica</i> (Hustedt) Hustedt 1933 <i>sensu lat.</i>]	–	–	–	–	–	–	lf	–	–	–
lanceolata (Brébisson <i>in</i> Kützing) Grunow <i>in</i> Cleve & Grunow 1880 [<i>Achnanthidium lanceolatum</i> Brébisson <i>in</i> Kützing 1849] [<i>Planothidium lanceolatum</i> (Brébisson) Round & Bukhtiyarova 1996]										
ssp. lanceolata										
v. lanceolata		–	+	–	–			–	–	–



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
v. elliptica P.T. Cleve 1891	-	-	-	-	-			-	-	-
ssp. dubia (Grunow in Cleve & Grunow) Lange-Bertalot 1991	-	-		-	-	-	-	-	-	-
[<i>Achnanthes lanceolata</i> v. <i>dubia</i> Grunow in Cleve & Grunow 1880]										
[<i>Planothidium dubium</i> (Grunow) Round & Bukhtiyarova 1996]										
latissima Cleve-Euler 1915	-	-	-	-	-	-	lf	-	-	-
lemmermannii Hustedt 1933	-	-	-	-	-			-	-	-
levanderi Hustedt 1933	-	-	-	-	-	-	lf	-	-	-
longipes C.A. Agardh 1824			-	-	-	-	-	-	-	-
minuscula Hustedt 1945	-	-	-	-	-		-	-	-	-
minutissima Kützing 1933	-	-		-	-			-	-	-
[<i>Achnanthidium microcephalum</i> Kützing 1844]										
[<i>Achnanthidium lineare</i> W. Smith 1855]										
[<i>Achnanthes microcephala</i> (Kützing) Grunow in Cleve & Grunow 1880]										
[<i>Achnanthes linearis</i> (W. Smith) Grunow in Cleve & Grunow 1880]										
[<i>Achnanthes minutissima</i> v. <i>cryptocephala</i> Grunow in Van Heurck 1880]										
[<i>Achnanthes affinis</i> Grunow in Cleve & Grunow 1880]										
[<i>Achnanthidium minutissimum</i> (Kützing) Czarnecki 1994]										
oblongella Østrup 1902	-	-	-	-	-	-	lf	-	-	-
[<i>Achnanthes saxonica</i> Krasske in Hustedt 1933]										
parvula Kützing 1844	-	-	-	-	-	-		-	-	-
[<i>Achnanthes brevipes</i> v. <i>parvula</i> (Kützing) P.T. Cleve 1895]										
peragalli Brun & Héribaud 1893	-	-	-	-	-	-	lf	-	-	-
petersenii Hustedt 1937	-	-	-	-	-	-	lf	-	-	-
[<i>Navicula densestriata</i> Hustedt 1922]										
[<i>Achnanthes grubei</i> Simonsen 1987]										
pusilla (Grunow) G.B. De Toni 1891	-	-	-	-	-	-	lf	-	-	
[<i>Achnanthes (linearis</i> var.?) <i>pusilla</i> Grunow in Cleve & Grunow 1880]										
rosenstockii Lange-Bertalot in Lange-Bertalot & Krammer 1989	-	-	-	-	-	-		-	-	-
[<i>Achnanthes biasoletiana</i> (Kützing) Grunow <i>sensu</i> Hustedt <i>et auct. nonnull.</i>]										
rostrata Østrup 1902	-	-		-	-			-	-	-
[<i>Achnanthes lanceolata</i> v. <i>rostrata</i> (Østrup) Hustedt 1911]										
[<i>Planothidium rostratum</i> (Østrup) Round & Bukhtiyarova 1996]										
subsalsa Petersen 1928	-	-	-	-	-	-		-	-	-
[<i>Achnanthes subsalsoides</i> Hustedt 1933]										
suchlandtii Hustedt 1933	-	-	-	-	-	-	lf	-	-	-
taeniata Grunow in Cleve & Grunow 1880	c	c	c	c	c	c	c	c	c	c
[<i>Achnanthes taeniata</i> v. <i>hyperborea</i> Grunow in Cleve & Möller 1878]										
[<i>Achnanthes hyperborea</i> (Grunow) Grunow 1884]										
[<i>Pauliella taeniata</i> (Grunow) Round & Basson 1997]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>thermalis</i> (Rabenhorst) Schönfeldt 1907 [<i>Achnanthidium thermale</i> Rabenhorst 1864] [<i>Achnanthes biasoletiana</i> (Kützing) Grunow in Cleve & Grunow 1880 p.p.] [<i>Achnanthes gibberula</i> Grunow in Cleve & Grunow 1880] [<i>Achnanthes grimmei</i> Krasske 1925]		-	-	-	-			-		-
sp.	-	-	-	-	-	-	-	-		
<i>Amphipleura</i> Kützing 1844										
<i>pellucida</i> (Kützing) Kützing 1844 [<i>Frustulia pellucida</i> Kützing 1833]	-	-	-	-	-	-	l(f)	-	-	-
<i>Amphiprora</i> Kützing 1844 [non <i>Amphiprora</i> Ehrenberg 1843] (71)										
<i>alata</i> (Ehrenberg) Kützing 1844 [<i>Navicula alata</i> Ehrenberg 1840] [<i>Entomoneis alata</i> (Ehrenberg) Ehrenberg 1845]				-				-		
<i>costata</i> Hustedt 1930 [<i>Entomoneis costata</i> Reimer in Patrick & Reimer 1975]	-	-	-	-	-	-	+	-	-	-
<i>kjellmanii</i> P.T. Cleve in Cleve & Grunow 1880 [<i>Entomoneis kjellmanii</i> (P.T. Cleve) Pankow 1990]	-	-	-	-	-	-	c	-	c	-
<i>ornata</i> J.W. Bailey 1850 [<i>Entomoneis ornata</i> (J.W. Bailey) Reimer in Patrick & Reimer 1975]	-	-	-	-	-	-	lf	-	-	lf
<i>paludosa</i> W. Smith 1853 [<i>Entomoneis paludosa</i> (W. Smith) Reimer in Patrick & Reimer 1975]										
v. <i>paludosa</i>								-		
v. <i>subsalina</i> P.T. Cleve 1894 [<i>Entomoneis paludosa</i> v. <i>subsalina</i> (P.T. Cleve) Krammer in Krammer & Lange-Bertalot 1986]	-			-	-		-	-	-	
<i>pseudoduplex</i> (Osada & Kobayasi 1990) <i>comb. nov.</i> (72) [<i>Amphiprora duplex</i> auct.] [non <i>Amphiprora duplex</i> Donkin 1858] [<i>Amphiprora paludosa</i> v. <i>duplex</i> auct.] [<i>Entomoneis paludosa</i> v. <i>duplex</i> auct.] [<i>Entomoneis pseudoduplex</i> Osada & Kobayasi 1990]		-	-		-	-		-	-	
sp.	-	-	-		-	-		-		
<i>Amphora</i> Ehrenberg ex Kützing 1844										
<i>bacillaris</i> Gregory 1857	-	-	?	-	-	-	-	-	-	-
<i>coffeaeformis</i> (C.A. Agardh) Kützing 1844 [<i>Frustulia coffeaeformis</i> C.A. Agardh 1827]		-		-				-		
<i>commutata</i> Grunow in Van Heurck 1880		-		-	-			-	-	

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
copulata (Kützing) Schoeman & Archibald 1986	-			-			-	-	-	-
[<i>Frustulia copulata</i> Kützing 1833]										
[<i>Amphora libyca</i> Ehrenberg 1840 ("lybica")]										
[<i>Amphora affinis</i> Kützing 1844]										
[<i>Amphora ovalis</i> v. <i>affinis</i> (Kützing) Van Heurck 1880]										
[<i>Amphora ovalis</i> v. <i>libyca</i> (Ehrenberg) P.T. Cleve 1895]										
[<i>Amphora minutissima</i> W. Smith 1853]										
delicatissima Krasske in Hustedt 1930		-	-	-		?		-		-
[<i>Amphora coffeaeformis</i> v. <i>perpusilla</i> Grunow 1884]										
holsatica Hustedt 1930			-	-	-			-	-	-
lineolata Ehrenberg 1838	-	-	-	-	-			-	-	-
micrometra Giffen 1966	-	-	-	-	-		-	-	-	-
normanii Rabenhorst 1864	-	-	lf	-	-	-	lf	-	-	-
ovalis (Kützing) Kützing 1844								-		
[<i>Frustulia ovalis</i> Kützing 1833]										
[<i>Amphora ovalis</i> f. <i>gracilis</i> (Ehrenberg) Hustedt 1930]										
pediculus (Kützing) Grunow in A. Schmidt 1875	-			-				-	-	-
[<i>Cymbella pediculus</i> Kützing 1844]										
[<i>Amphora ovalis</i> v. <i>pediculus</i> (Kützing) Van Heurck 1885]										
perpusilla (Grunow) Grunow in Van Heurck 1884	-	-	-	-	-	-	lf	-	-	-
proteus Gregory 1857			-	-	-	-	-	-	-	-
robusta Gregory 1857	-	-	-	-	-		-	-	-	-
veneta Kützing 1844	-	-		-	-			-	-	-
sp.		-	-	-		-		-		
Aneumastus D.G. Mann & Stickle in Round <i>et al.</i> 1990										
tusculus (Ehrenberg) D.G. Mann & Stickle in Round <i>et al.</i> 1990	-	-	-	-				-	-	
[<i>Navicula tuscula</i> Ehrenberg 1840]										
[<i>Navicula tuscula</i> v. <i>obtusa</i> Hustedt 1922]										
[<i>Navicula tuscula</i> f. <i>obtusa</i> (Hustedt) Hustedt 1930]										
[<i>Navicula tuscula</i> f. <i>minor</i> Hustedt 1930]										
Anomoeoneis Pfitzer 1871										
sphaerophora (Ehrenberg) Pfitzer 1871										
[<i>Navicula sphaerophora</i> Ehrenberg 1843]										
f. sphaerophora	-	-	-	-	-		-	-	-	-
f. costata (Kützing) Schmid 1977	-	-	-	-	-		-	-	-	-
[<i>Navicula costata</i> Kützing 1844]										
[<i>Anomoeoneis polygramma</i> P.T. Cleve 1895]										
[non <i>Stauroneis polygramma</i> Ehrenberg 1843]										
[<i>Anomoeoneis sphaerophora</i> v. <i>polygramma</i> (P.T. Cleve) O. Müller 1899]										
[<i>Anomoeoneis costata</i> (Kützing) Hustedt 1959]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Bleakeleya Round <i>in</i> Round <i>et al.</i> 1990										
notata (Grunow) Round <i>in</i> Round <i>et al.</i> 1990	+	+	?	-	-	-	-	-	-	-
[Asterionella bleakeleyi v. notata Grunow 1867]										
[Asterionella notata (Grunow) Grunow <i>in</i> Van Heurck 1881]										
[Asterionella bleakeleyi W. Smith 1856]										
Brachysira Kützing 1836										
brebissonii R. Ross <i>in</i> Hartley 1986	-	-	-	-	-	-	If	-	-	-
[Navicula brachysira Brébisson ex Rabenhorst 1853]										
[Anomoeoneis serians v. brachysira (Brébisson ex Rabenhorst) Hustedt 1930]										
serians (Brébisson ex Kützing) Round & Mann 1981	-	+	-	-	-	-	-	-	-	-
[Navicula serians Brébisson ex Kützing 1844]										
[Anomoeoneis serians (Brébisson ex Kützing) Round & Mann 1981]										
vitrea (Grunow) R. Ross <i>in</i> Hartley 1986	-	-	-	-	-	-	If	-	-	-
[Gomphonema vitreum Grunow 1878]										
[Anomoeneis exilis sensu P.T. Cleve 1895]										
[Anomoeneis vitrea (Grunow) Ross <i>in</i> Patrick & Reimer 1966]										
[non Navicula exilis Kützing 1844]										
Brebissonia Grunow 1860 <i>nom. cons.</i>										
lanceolata (C.A. Agardh) Mahoney & Reimer 1984	-		-	-	-			-		
[Gomphonema lanceolatum C.A. Agardh 1831]										
[Cocconema boeckii Ehrenberg 1835]										
[Brebissonia boeckii (Ehrenberg) Grunow 1860]										
[Vanheurckia boeckii (Ehrenberg) Schütt 1896]										
Caloneis P.T. Cleve 1894										
amphisbaena (Bory) P.T. Cleve 1894	-	-		-	-			-		
[Navicula amphisbaena Bory 1824]										
bacillum (Grunow) P.T. Cleve 1894	-	-	-	-	If	-	If	-	-	-
[Stauroneis bacillum Grunow 1860]										
crassa (Gregory) R. Ross <i>in</i> Hartley 1986	-	-		-	-	-	-	-	-	-
[Navicula crassa Gregory 1855]										
[Navicula brevis Gregory 1857]										
[Caloneis brevis (Gregory) P.T. Cleve 1894]										
molaris (Grunow) Krammer 1985	-	-	-	-	-	-	If	-	-	-
[Navicula molaris Grunow 1863]										
[Pinnularia molaris (Grunow) P.T. Cleve 1895]										
permagna (J.W. Bailey) P.T. Cleve 1894	-	-	-	-	-	-		-		
[Pinnularia permagna J.W. Bailey 1851]										
schumanniana (Grunow) P.T. Cleve 1894	-	-	-	-	-	-	If	-	-	-
[Navicula schumanniana Grunow 1880]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>silicula</i> (Ehrenberg) P.T. Cleve 1894 [<i>Navicula silicula</i> Ehrenberg 1838] [<i>Navicula ventricosa</i> v. <i>truncatula</i> Grunow in Van Heurck 1880] [<i>Caloneis silicula</i> v. <i>truncatula</i> (Grunow) P.T. Cleve 1894]	-	-	-	-	-	-	lf	-	-	-
<i>subsalina</i> (Donkin) Hendey 1951 [<i>Navicula subsalina</i> Donkin 1871] [<i>Caloneis amphisbaena</i> v. <i>subsalina</i> (Donkin) P.T. Cleve 1894] [<i>Caloneis amphisbaena</i> f. <i>subsalina</i> (Donkin) van der Werff & Huls 1957]	-	-		-	-			-		
sp.	-	-	-	-	-	-	-	-		
<i>Campylodiscus</i> Ehrenberg 1840										
<i>bicostatus</i> W. Smith in Roper 1854 [<i>Campylodiscus clypeus</i> v. <i>bicostata</i> (W. Smith) Hustedt 1930] (107)				-	-			-	-	-
<i>clypeus</i> Ehrenberg 1840					-			-		
<i>echeneis</i> Ehrenberg 1840	+	+	+	-	+	+	+	-	-	+
<i>hibernicus</i> Ehrenberg 1845 [<i>Campylodiscus noricus</i> v. <i>hibernicus</i> (Ehrenberg) Grunow 1862]	-	-	-	-	-	-	f	-	-	-
<i>noricus</i> Ehrenberg 1841	lf	lf	-	-	-	-	-	-	-	-
sp.	+	+	+		-	-		-	+	-
<i>Catacombas</i> Williams & Round 1986										
<i>gaillonii</i> (Bory) Williams & Round 1986 [<i>Navicula gaillonii</i> Bory 1824] [<i>Synedra gaillonii</i> (Bory) Ehrenberg 1830]			-	-	-	-	-	-	-	-
<i>Catenula</i> Mereschkowsky 1902–1903										
<i>adhaerens</i> (Mereschkowsky) Mereschkowsky 1902–1903 [<i>Navicula adhaerens</i> Mereschkowsky 1902]	-	-	-	?	-	-	-	-	-	-
<i>Cavinula</i> D.G. Mann & Stickle in Round <i>et al.</i> 1990										
<i>cocconeiformis</i> (Gregory ex Greville) D.G. Mann & Stickle in Round <i>et al.</i> 1990 [<i>Navicula cocconeiformis</i> Gregory ex Greville 1856]	-	-	-	-	-	-	lf	-	-	-
<i>lacustris</i> (Gregory) D.G. Mann & Stickle in Round <i>et al.</i> 1990 [<i>Navicula lacustris</i> Gregory 1856]	-	-	-	-	-	lf	lf	-	-	-
<i>pseudoscutiformis</i> (Hustedt) D.G. Mann & Stickle in Round <i>et al.</i> 1990 [<i>Navicula pseudoscutiformis</i> Hustedt 1930]	-	-	-	-	-	-	lf	-	-	-
<i>variostrata</i> (Krasske) D.G. Mann in Round <i>et al.</i> 1990 [<i>Navicula variostrata</i> Krasske 1923]	-	-	-	-	-	-	lf	-	-	-
<i>Cocconeis</i> Ehrenberg 1838										
<i>costata</i> Gregory 1855	-	-	-	-	-	-	ls	-	-	-
<i>disculus</i> (Schumann) P.T. Cleve in Cleve & Jentzsch 1882 [<i>Navicula disculus</i> Schumann 1864]	-	lf	-	-	-	lf	lf	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
neodiminuta Krammer 1991 [?Cocconeis diminuta Pantocsek 1901] [Cocconeis disculus v. diminuta (Pantocsek) Scheshukova in Proschkina-Lavrenko 1951]	-	?	-	-	-	-		-	-	-
neothumensis Krammer 1991 [?Cocconeis thumensis A. Mayer 1919]	-	-	-	-	-	-	lf	-	-	-
pediculus Ehrenberg 1838								-		
pinnata Gregory ex Greville 1859	-	-	-	-	-	-	ls	-	-	-
placentula Ehrenberg 1838 v. placentula			-				-			
v. euglypta (Ehrenberg) Grunow 1884 [Cocconeis euglypta Ehrenberg 1854]	-	-	-	-	-			-		-
v. klinoraphis Geitler 1927	-	-	-	-	-	-		-	-	-
v. lineata (Ehrenberg) Van Heurck 1885 [Cocconeis lineata Ehrenberg 1843]	-	-	-	-	-	-		-	-	-
scutellum Ehrenberg 1838 v. scutellum								-		
v. intermedia Mereschkowsky 1902	-	-	-	-	-		-	-	-	-
v. minutissima Grunow in Van Heurck 1880	-	-		-	-	-	-	-	-	-
v. parva (Grunow in Van Heurck) P.T. Cleve 1896 [Cocconeis scutellum f. parva Grunow in Van Heurck 1880]	-	-			-	-		-		-
stauroneiformis (W. Smith) Okuno 1957 [Cocconeis scutellum v. stauroneiformis W. Smith 1853]	-	-	-	-	-	-		-	-	-
sp.	-				-	-	-	-		
Cosmioneis D.G. Mann & Stickle in Round <i>et al.</i> 1990 lundstroemii (P.T. Cleve) D.G. Mann in Round <i>et al.</i> 1990 [Navicula lundstroemii Cleve in Cleve & Grunow 1880] [Navicula pusilla v. lundstroemii (Cleve) Lange-Bertalot 1985]	-	-	-	-	-	-		-	-	-
pusilla (W. Smith) D.G. Mann & Stickle in Round <i>et al.</i> 1990 [Navicula pusilla W. Smith 1853]	-	-	-		-			-	-	-
Craticula Grunow 1868 ambigua (Ehrenberg) D.G. Mann in Round <i>et al.</i> 1990 [Navicula ambigua Ehrenberg 1843] [Navicula cuspidata v. ambigua (Ehrenberg) P.T. Cleve 1894]	-	-	-	-	-	-		-	-	
cuspidata (Kützing) D.G. Mann in Round <i>et al.</i> 1990 [Frustulia cuspidata Kützing 1833] [Navicula cuspidata (Kützing) Kützing 1844]			-	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
halophila (Grunow ex Van Heurck) D.G. Mann in Round <i>et al.</i> 1990 [<i>Navicula cuspidata</i> v. <i>halophila</i> Grunow ex Van Heurck 1885] [<i>Navicula halophila</i> (Grunow ex Van Heurck) P.T. Cleve 1894] [<i>Navicula halophila</i> v. <i>subcapitata</i> Østrup 1910] [<i>Navicula simplex</i> Krasske 1925]	-	-	-	-	-			-	-	-
Ctenophora (Grunow) Williams & Round 1986										
pulchella (Ralfs ex Kützing) Williams & Round 1986 [<i>Exilaria pulchella</i> Ralfs ex Kützing 1844] [<i>Synedra pulchella</i> (Ralfs ex Kützing) Kützing 1844] [<i>Synedra pulchella</i> v. <i>lanceolata</i> O'Meara 1875] [<i>Synedra pulchella</i> f. <i>maior</i> Grunow in Van Heurck 1881] [<i>Synedra pulchella</i> v. <i>smithii</i> (Ralfs) Grunow in Van Heurck 1881] [<i>Fragilaria pulchella</i> (Ralfs ex Kützing) Lange-Bertalot 1980]				-				-		
Cylindrotheca Rabenhorst 1859										
closterium (Ehrenberg) Reimann & J. Lewin 1964 [<i>Ceratoneis closterium</i> Ehrenberg 1841] [<i>Nitzschia closterium</i> (Ehrenberg) W. Smith 1853] [<i>Nitzschia curvirostris</i> v. <i>closterium</i> (Ehrenberg) Van Heurck 1881] [? <i>Nitzschia curvirostris</i> v. <i>delicatissima</i> Lemmermann 1898]	+	+	+	+	+	+	+	-	+	+
gracilis (Brébisson ex Kützing) Grunow in Van Heurck 1882 [<i>Ceratoneis gracilis</i> Brébisson ex Kützing 1849] [<i>Cylindrotheca gerstenbergeri</i> Rabenhorst 1859]	+	+	-	-	-	-	+	-	-	-
Cymatopleura W. Smith 1851 <i>nom. cons.</i>										
elliptica (Brébisson ex Kützing) W. Smith 1851 [<i>Surirella elliptica</i> Brébisson ex Kützing 1844]										
v. elliptica	?	-		-	-			-	-	
v. hibernica (W. Smith) Van Heurck 1896 [<i>Cymatopleura hibernica</i> W. Smith 1851] [<i>Cymatopleura nobilis</i> Hantzsch 1860] [<i>Cymatopleura elliptica</i> v. <i>nobilis</i> (Hantzsch) Hustedt in A. Schmidt 1912]	-	-	lf	-	-	-	-	-	-	-
solea (Brébisson) W. Smith 1851 [<i>Cymbella solea</i> Brébisson in Brébisson & Godey 1836] [<i>Cymatopleura solea</i> v. <i>regula</i> (Ehrenberg) Grunow 1862]	-	-	(f)	-	-	(f)	(f)	-	(f)	+
Cymbella C.A. Agardh 1830 <i>nom. cons.</i>										
affinis Kützing 1844 [<i>Cocconema parvum</i> W. Smith 1853] [<i>Cymbella parva</i> (W. Smith) Kirchner 1878]	-	-	-	-	-	lf	lf	-	-	
amphicephala Nägeli in Kützing 1849	-	-	-	-	-	-	lf	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
amphioxys (Kützing) P.T. Cleve 1894 [<i>Navicula amphioxys</i> Kützing 1844]	–	–	–	–	–	–	If	–	–	–
aspera (Ehrenberg) Peragallo 1849 [<i>Cocconema asperum</i> Ehrenberg 1839] [<i>Cymbella gasteroides</i> (Kützing) Kützing 1844]	?	–	–	–	–	–	If	–		
cesatii (Rabenhorst) Grunow in A. Schmidt 1881 [<i>Navicula cesatii</i> Rabenhorst 1853]	–	–	–	–	–	–	If	–	–	–
cistula (Ehrenberg) Kirchner 1878 [<i>Bacillaria cistula</i> Ehrenberg 1828] [<i>Cymbella cistula</i> v. <i>maculata</i> (Kützing) Van Heurck 1880] [= <i>Cymbella cistula</i> v. " <i>macilentata</i> " Halme & Mölder 1958 <i>lapsus pennae</i>]	If	–	–	–	–	If	If	–	–	
cuspidata Kützing 1844	–	–	–	–	–	–	If	–	–	–
cymbiformis C.A. Agardh 1830	–	–	–	–	–	–	If	–	–	–
ehrenbergii Kützing 1844	–	–	–	–	–	–	If	–	–	–
estonica Mölder 1937 (2)	–	–	–	–	–	–	If	–	–	–
falaisiensis (Grunow) Krammer & Lange-Bertalot 1985 [<i>Navicula falaisiensis</i> Grunow 1880] [? <i>Navicula falaisiensis</i> v. <i>lanceola</i> Grunow 1880]	–	–	–	–	–	–	If	–	–	–
gracilis (Ehrenberg) Kützing 1844 [<i>Cocconema gracile</i> Ehrenberg 1843]	–	–	–	–	–	–	If	–	–	–
helvetica Kützing 1844	–	–	–	–	–	l(f)	l(f)	–	–	–
hustedtii Krasske 1923	–	–	–	–	–	–	If	–	–	–
lanceolata (Ehrenberg) Kirchner 1878 [<i>Cocconema lanceolatum</i> Ehrenberg 1838]	–	–	If	–	–	If	If	–	–	
leptoceros (Ehrenberg) Kützing 1844 [<i>Cocconema leptoceros</i> Ehrenberg 1843]	–	–	If	–	–	–	If	–	–	–
microcephala Grunow in Van Heurck 1880	–	–	–	–	–	–	If	–	–	–
naviculiformis Auerswald ex Heiberg 1863 [<i>Cymbella cuspidata</i> v. <i>naviculiformis</i> (Auerswald ex Heiberg) Rabenhorst 1864]	–	–	–	–	–	–	If	–	–	–
obtusiuscula Kützing 1844	–	–	–	–	–	–	If	–	–	–
pusilla Grunow in A. Schmidt 1875	–	–		–	–			–	–	–
reinhardtii Grunow in A. Schmidt 1875	–	–	–	–	–	–	If	–	–	–
rupicola Grunow in A. Schmidt 1881	–	–	–	–	–	–	If	–	–	–
tumida (Brébisson) Van Heurck 1880 [<i>Cocconema tumidum</i> Brébisson in Kützing 1849]	–	–	–	–	–	–	If	–	–	–
tumidula Grunow in A. Schmidt 1875	–	–	–	–	–	–	If	–	–	–
sp.	–	–	–	–	–	–	–	–		–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Diatoma Bory 1824 <i>nom. cons.</i>										
constricta (Grunow <i>in</i> Van Heurck) Williams 1985 [<i>Diatoma vulgare</i> v. <i>constricta</i> Grunow <i>in</i> Van Heurck 1881]	–	–	lf	–	lf	–	lf	–	lf	lf
ehrenbergii Kützing 1844 [<i>Diatoma vulgare</i> v. <i>ehrenbergii</i> (Kützing) Grunow 1862]	–	–	–	–	–	–	lf	–	lf	–
hyemalis (Roth) Heiberg 1863 (" <i>hiemale</i> ") [<i>Conferva hyemalis</i> Roth 1800]	–	–	–	–	–	lf	lf	–	–	–
mesodon (Ehrenberg) Kützing 1844 [<i>Fragilaria mesodon</i> Ehrenberg 1839] [<i>Diatoma hiemalis</i> v. <i>mesodon</i> (Ehrenberg) Grunow 1862]	–	–	–	–	–	–	lf	–	–	–
moniliformis Kützing 1833 [<i>Diatoma tenue</i> v. <i>moniliformis</i> Kützing 1833] [<i>Diatoma elongatum</i> auct. <i>p.p.</i>] [<i>Diatoma tenue</i> v. <i>minor</i> Grunow 1862] [? <i>Diatoma elongatum</i> v. <i>subsalsa</i> Cleve-Euler 1912] [<i>Diatoma elongatum</i> v. <i>subsalsa</i> (?) f. <i>curta</i> Cleve-Euler 1912]	–	–	(l)	–	–	(l)	(l)	–	(l)	(l)
tenue C.A. Agardh 1812 [<i>Diatoma tenue</i> v. <i>elongatum</i> Lyngbye 1819] [<i>Diatoma elongatum</i> (Lyngbye) C.A. Agardh 1824] [<i>Diatoma elongatum</i> v. <i>tenue</i> (C.A. Agardh) Van Heurck 1885] [<i>Diatoma tenue</i> v. <i>hybrida</i> Grunow <i>in</i> Van Heurck 1881] [<i>Diatoma elongatum</i> v. <i>hybrida</i> (Grunow) Cleve-Euler 1912] [? <i>Diatoma tenue</i> v. <i>asterionelloides</i> Reichelt] [? <i>Diatoma elongatum</i> v. <i>actinastroides</i> Krieger 1927]	(l)	(l)	(l)	(l)	(l)	(l)	(l)	(l)	(l)	(l)
vulgare Bory 1824										
v. vulgare				–				–		
v. capitulata Grunow 1862	–	–	–	–	–	–		–	–	–
v. ovalis (Fricke) Hustedt 1930 [<i>Diatoma ovalis</i> Fricke <i>in</i> A. Schmidt 1906]	–	–	–	–	–			–	–	–
v. producta Grunow 1862	–	–	–	–	–	–	lf	–	–	–
sp.	–	+	+	+	–	–	–	–	+	+
Didymosphenia M. Schmidt 1899 <i>nom. cons.</i>										
geminata (Lyngbye) M. Schmidt 1899 [<i>Echinella geminata</i> Lyngbye 1819]	–	–	–	–	–	–	lf	–	–	–
Diploneis Ehrenberg <i>ex</i> P.T. Cleve 1894										
bombus (Ehrenberg) Ehrenberg <i>ex</i> P.T. Cleve 1894 [<i>Pinnularia bombus</i> Ehrenberg 1844]	–	–	–	–	–	–	ls	–	–	–
coffaeiformis (A. Schmidt) P.T. Cleve 1894 [<i>Navicula coffaeiformis</i> A. Schmidt 1874]	–	–	–	–	–	?	–	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
didyma (Ehrenberg) P.T. Cleve 1894 [<i>Navicula (Pinnularia) didyma</i> Ehrenberg 1841]	+	+	+	?	+	+	+	-	-	-
domblittensis (Grunow) P.T. Cleve 1894 [<i>Navicula expleta</i> v. <i>domblittensis</i> Grunow 1882]	-	lf	-	-	-	-	lf	-	-	-
elliptica (Kützing) P.T. Cleve 1891 [<i>Navicula elliptica</i> Kützing 1844]	-	-	-	-	-	l(f)	l(f)	-	-	l
finnica (Ehrenberg) P.T. Cleve 1891 [<i>Cocconeis finnica</i> Ehrenberg 1838] [<i>Diploneis clevei</i> Fontell 1917] [<i>Diploneis finnica</i> v. <i>clevei</i> (Fontell) Hustedt 1937]	-	-	-	-	-	-	lf	-	lf	-
interrupta (Kützing) P.T. Cleve 1894 [<i>Navicula interrupta</i> Kützing 1844]										
v. interrupta	-	?	+	?	l	l	l	-	l	l
v. clancula (A. Schmidt) P.T. Cleve 1894 [<i>Navicula clancula</i> A. Schmidt 1875]	-	-	-	?	-	-	-	-	-	-
v. heeri (Pantocsek) Hustedt 1937 [<i>Navicula heeri</i> Pantocsek 1889]	-	-	-	-	-	-	l	-	-	-
mauleri (Brun) P.T. Cleve 1894 [<i>Navicula mauleri</i> Brun 1880]	-	-	-	-	-	-	lf	-	-	-
oblongella (Nägeli) Cleve-Euler 1922 [<i>Navicula oblongella</i> Nägeli in Kützing 1849] [<i>Diploneis (ovalis</i> var. ?) <i>oblongella</i> (Nägeli) P.T. Cleve 1894]	-	-	-	-	lf	-	-	-	-	-
oculata (Brébisson) P.T. Cleve 1894 [<i>Navicula oculata</i> Brébisson 1870]	-	-	-	-	-	-	lf	-	-	-
ovalis (Hilse in Rabenhorst) P.T. Cleve 1891 [<i>Pinnularia ovalis</i> Hilse in Rabenhorst 1861] [<i>Navicula ovalis</i> (Hilse in Rabenhorst) A. Schmidt 1874]	-	lf	lf	-	-	lf	lf	-	-	-
papula (A. Schmidt) P.T. Cleve 1894 [<i>Navicula papula</i> A. Schmidt 1875]	-	-	-	-	-	l	-	-	-	-
puella (Schumann) P.T. Cleve 1894 [<i>Navicula puella</i> Schumann 1867]	-	-	-	-	-	-	lf	-	-	-
smithii (Brébisson in W. Smith) P.T. Cleve 1894 (2) [<i>Navicula smithii</i> Brébisson in W. Smith 1856]										
v. smithii	l	?	-	?	l	l	l	-	l	l
v. dilatata (M. Peragallo) Terry 1908 [<i>Navicula smithii</i> v. <i>dilatata</i> M. Peragallo in Tempère & Peragallo 1908]	-	-	-	-	-	l	-	-	-	-
v. pumila (Grunow) Hustedt 1937 [<i>Navicula ovalis</i> v. <i>pumila</i> Grunow 1882]	-	-	-	-	-	-	l	-	-	-
[v. recta Peragallo = ?] (Halme & Mölder 1958) (2)	-	-	-	-	-	-	l	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
v. rhombica (Mereschkowsky) Mereschkowsky 1912 [<i>Diploneis smithii</i> f. <i>rhombica</i> Mereschkowsky 1902]	-	-		-	-			-		-
stroemii Hustedt 1937	-	?	-	?	-	-	-	-	-	-
vacillans (A. Schmidt) P.T. Cleve 1894 [<i>Navicula vacillans</i> A. Schmidt 1875]	-	-	-	?	-	-	-	-	-	-
sp.	+	-	-	-	-	-	-	-	+	+
Encyonema Kützing 1833										
caespitosum Kützing 1849 [<i>Cymbella caespitosa</i> (Kützing) Brun 1880]	-	-	-	-	-		-	-	-	-
elginense (Krammer) D.G. Mann <i>in</i> Round <i>et al.</i> 1990 [<i>Cymbella elginensis</i> Krammer 1981] [<i>Cymbella turgida</i> Gregory 1856] [non <i>Cymbella turgida</i> Hassall 1844] [<i>Encyonema turgidum</i> (Gregory) Grunow ex A. Schmidt 1875]	-	-	-	-	-	lf	lf	-	-	-
gracile (Ehrenberg) Rabenhorst 1853 [<i>Cocconema gracile</i> Ehrenberg 1843] [<i>Cymbella gracilis</i> (Ehrenberg) Kützing 1844]	-	-	-	-	-	-	-	-	-	lf
hyndmanii W. Smith 1850	-	-	-	-	-	-	-	-	-	
lacustre (C.A. Agardh) D.G. Mann <i>in</i> Round <i>et al.</i> 1990 [<i>Schizonema lacustre</i> C.A. Agardh 1824] [<i>Cymbella lacustris</i> (C.A. Agardh) P.T. Cleve 1894]	-	-	-	-	-	-	lf	-	-	-
minutum (Hilse <i>in</i> Rabenhorst) D.G. Mann <i>in</i> Round <i>et al.</i> 1990 (4) [<i>Cymbella minuta</i> Hilse <i>in</i> Rabenhorst 1862] [<i>Cymbella ventricosa</i> Kützing 1844 <i>p.p.</i>]	-	-	-	-	-	-	-	-	-	
norvegica (Grunow <i>in</i> A. Schmidt) Bukhtiyarova [<i>Cymbella norvegica</i> Grunow <i>in</i> A. Schmidt 1875]	-	-	-	-	-	-	lf	-	-	-
perpusillum (A. Cleve) D.G. Mann <i>in</i> Round <i>et al.</i> 1990 [<i>Cymbella perpusilla</i> A. Cleve 1895]	-	-	-	-	-	lf	-	-	-	-
prostratum (Berkeley) Kützing 1844 [<i>Monema prostratum</i> Berkeley 1832] [<i>Cymbella prostrata</i> (Berkeley) P.T. Cleve 1894]	-	-	lb	-	-	lb	lb	-	-	
silesiacum (Bleisch <i>in</i> Rabenhorst) D.G. Mann <i>in</i> Round <i>et al.</i> 1990 [<i>Cymbella silesiaca</i> Bleisch <i>in</i> Rabenhorst 1864] [<i>Cymbella ventricosa</i> Kützing 1844 <i>p.p.</i>] [<i>Cymbella minuta</i> v. <i>silesiaca</i> (Bleisch <i>in</i> Rabenhorst) Reimer <i>in</i> Patrick & Reimer 1975]	-	-	lf	-	-	lf	lf	-	-	
Epithemia Brébisson ex Kützing 1844										
adnata (Kützing) Rabenhorst 1853 [<i>Frustulia adnata</i> Kützing 1833]				-	-			-	-	

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Epithemia zebra</i> (Ehrenberg) Kützing 1844]										
[<i>Epithemia zebra</i> v. <i>porcellus</i> (Kützing) Grunow 1862]										
[<i>Epithemia zebra</i> v. <i>saxonica</i> (Kützing) Grunow 1862]										
argus (Ehrenberg) Kützing 1844	–	lf	–	–	–		–	–	–	–
[<i>Eunotia argus</i> Ehrenberg 1843]										
frickei Krammer 1987	–		–	–	–	–	–	–	–	–
[<i>Epithemia intermedia</i> Fricke in A. Schmidt 1904]										
[non <i>Epithemia intermedia</i> Hilse 1860]										
[<i>Epithemia zebra</i> v. <i>intermedia</i> (Fricke) Hustedt 1934]										
[non <i>Epithemia zebra</i> v. <i>intermedia</i> Wartmann in Rabenhorst 1861–1879]										
hyndmannii W. Smith 1850	–	lf	–	–		–		–	–	–
sorex Kützing 1844								–		
turgida (Ehrenberg) Kützing 1844										
[<i>Navicula turgida</i> Ehrenberg 1832]										
v. turgida								–		
v. granulata (Ehrenberg) Brun 1880	–	–	–	–	–		–	–	–	–
[<i>Navicula granulata</i> Ehrenberg 1836]										
[<i>Epithemia granulata</i> (Ehrenberg) Kützing 1844]										
v. westermannii (Ehrenberg) Grunow 1862				–	–			–	–	
[<i>Navicula westermannii</i> Ehrenberg 1833]										
[<i>Epithemia westermannii</i> (Ehrenberg) Kützing										
sp.	–	–	–	–	–	–		–		
Eunotia Ehrenberg 1837										
arcus Ehrenberg 1837										
v. arcus	–	–	–	–	–	lf	lf	–	–	–
v. bidens Grunow in Van Heurck 1881	–	–	–	–	–	–	lf	–	–	–
bilunaris (Ehrenberg) Mills 1934										
[<i>Synedra bilunaris</i> Ehrenberg 1832]										
[<i>Eunotia lunaris</i> (Ehrenberg) Grunow in Van Heurck 1881]										
[non <i>Eunotia lunaris</i> Brébisson ex Rabenhorst 1864]										
v. bilunaris	–	lf	–	–	–	lf	lf	–	–	
v. mucophila Lange-Bertalot & Nörpel 1991 in Alles, Nörpel & Lange-Bertalot 1991	–	–	–	–	–	–	lf	–	–	–
[<i>Eunotia lunaris</i> v. <i>subarcuata</i> (Nägeli) Grunow in Van Heurck 1881]										
diodon Ehrenberg 1837	–	–	–	–	–	–	lf	–	–	–
exigua (Brébisson ex Kützing) Rabenhorst 1864	–	–	–	–	–	–	lf	–	–	–
[<i>Himantidium exiguum</i> Brébisson ex Kützing 1849]										
faba Ehrenberg 1838	–	–	–	–	–	–	lf	–	–	–
fallax A. Cleve 1895	–	–	–	–	–	–	lf	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
alpestris Krasske ex Hustedt 1931	–	lf	–	–	–	–	–	–	–	–
[bidens Heiberg 1863 = ?] (Krammer & Lange-Bertalot 1991) (2)	–	–	–	–	–	lf	–	–	–	–
capucina Desmazières 1825										
v. capucina	lf	lf	lf	–	lf	lf	lf	–	lf	l
v. gracilis (Østrup) Hustedt 1950	–	–	–	–	–	–	lf	–	–	–
[<i>Fragilaria gracilis</i> Østrup 1910]										
[<i>Synedra rumpens</i> v. <i>familiaris</i> (Kützing) Grunow in Van Heurck 1881]										
[? <i>Synedra rumpens</i> v. <i>scotica</i> Grunow in Van Heurck 1881]										
v. mesolepta (Rabenhorst) Rabenhorst 1864	–	–	–	–	–	lf	–	–	–	–
[<i>Fragilaria mesolepta</i> Rabenhorst 1861]										
v. rumpens (Kützing) Lange-Bertalot 1991	–	–	–	–	–	–	lf	–	–	–
[<i>Synedra rumpens</i> Kützing 1844]										
crotonensis Kitton 1869	f	f	f	f	f	f	f	–	f	f
heidenii Østrup 1910 (2)	–	f	f	–	–	–	f	–	–	–
[<i>Synedra inflata</i> Heiden 1900]										
[<i>Fragilaria inflata</i> (Heiden) Hustedt 1931]										
[non <i>Fragilaria inflata</i> Pantocsek 1902]										
hyalina (Kützing) Grunow 1862 (2, 15, 93)	–	–	–	–	–	l	–	–	–	–
[<i>Diatoma hyalinum</i> Kützing 1844]										
istvanffy Pantocsek 1902 (2)	–	–	l	–	–	?	–	–	–	–
[<i>Fragilaria inflata</i> v. <i>istvanffy</i> (Pantocsek) Hustedt 1931]										
nitzschioides Grunow in Van Heurck 1881 (2)	–	–	lf	–	–	–	–	–	–	–
striatula Lyngbye 1819 (2)	(l)	–	–	–	–	–	–	–	–	–
vaucheriae (Kützing) J.B. Petersen 1938	–	–	lf	–	lf	lf	lf	–	–	l
[<i>Exilaria vaucheriae</i> Kützing 1833]										
[<i>Synedra vaucheriae</i> (Kützing) Kützing 1844]										
[<i>Fragilaria intermedia</i> Grunow in Van Heurck 1881]										
[<i>Fragilaria capucina</i> v. <i>vaucheriae</i> (Kützing) Lange-Bertalot 1980]										
sp.	–	?	?	–	–	–	–	–	–	–
Fragilariforma Williams & Round 1988										
[<i>Neofragilaria</i> Williams & Round 1988 (1987)]										
[non <i>Neofragilaria</i> Desikachary, Prasad & Prema in Desikachary & Prema 1987]										
virescens (Ralfs) Williams & Round 1988										
[<i>Fragilaria virescens</i> Ralfs 1843]										
[? <i>Fragilaria virescens</i> v. <i>oblongella</i> Grunow in Van Heurck 1881] (2)										
[<i>Neofragilaria virescens</i> (Ralfs) Williams & Round 1988 (1987)]										
v. virescens	lf	lf	–	–	–	lf	lf	–	–	–
[<i>Fragilaria virescens</i>] v. <i>elliptica</i> Hustedt 1914 (75)	–	–	–	–	–	–	lf	–	–	–
[<i>Fragilaria virescens</i>] v. <i>subsalina</i> Grunow 1881 (75)	–	–	–	–	–	–	l	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Fragilariopsis Hustedt in A. Schmidt 1913 <i>emend.</i> Hasle 1993										
cylindrus (Grunow in Cleve & Möller) W. Krieger in Helmcke & Krieger 1954 [<i>Fragilaria cylindrus</i> Grunow in Cleve & Möller 1882 (" <i>cylindrica</i> " auct.)] [<i>Nitzschia cylindrus</i> (Grunow in Cleve & Möller) Hasle 1972]	c	+	-	-	c	c	c	-	c	c
oceanica (P.T. Cleve) Hasle 1965 [<i>Fragilaria oceanica</i> P.T. Cleve 1873] [<i>Nitzschia grunowii</i> Hasle 1972]	c	-	-	-	-	-	-	-	-	-
Frustulia Rabenhorst 1853 <i>nom. cons.</i>										
rhomboides (Ehrenberg) De Toni 1891 [<i>Navicula rhomboides</i> Ehrenberg 1843]										
v. rhomboides [<i>Frustulia saxonica</i> v. <i>capitata</i> A. Mayer 1916] [<i>Frustulia rhomboides</i> v. <i>saxonica</i> f. <i>capitata</i> (A. Mayer) Hustedt 1930] [<i>Frustulia rhomboides</i> v. <i>saxonica</i> f. <i>undulata</i> Hustedt 1930]	-	-	-	-	-	-	lf	-	-	-
v. saxonica (Rabenhorst) De Toni 1891 [<i>Frustulia saxonica</i> Rabenhorst 1853]	-	-	-	-	-	-	lf	-	-	-
vulgaris (Thwaites) De Toni 1891 [<i>Schizonema vulgare</i> Thwaites 1848]	-	-	-	-	-	-	lf	-	-	-
Gomphonema Ehrenberg 1832 <i>nom. cons.</i>										
acuminatum Ehrenberg 1832										
v. acuminatum	-	-	lf	-	-	lf	lf	-	-	-
v. brebissonii (Kützing) Schönfeldt 1907 [<i>Gomphonema brebissonii</i> Kützing 1849]	-	-	-	-	-	-	lf	-	-	-
v. coronatum (Ehrenberg) W. Smith 1853 [<i>Gomphonema coronatum</i> Ehrenberg 1840]	-	-	lf	-	-	lf	lf	-	-	-
v. trigonocephalum (Ehrenberg) Grunow in Van Heurck 1880 [<i>Gomphonema trigonocephalum</i> Ehrenberg 1854]	-	-	-	-	-	-	lf	-	-	-
affine Kützing 1844 (4) [<i>Gomphonema lanceolatum</i> auct.] [non <i>Gomphonema lanceolatum</i> Ehrenberg 1843] [nec <i>Gomphonema lanceolatum</i> C.A. Agardh 1830]	-	-	-	-	-	-	lf	-	-	-
angustatum (Kützing) Rabenhorst 1864 [<i>Sphenella angustata</i> Kützing 1844]										
v. angustatum	-	-	?	-	-	-	lf	-	-	-
v. productum Grunow in Van Heurck 1880	-	-	-	-	-	-	lf	-	-	-
apicatum Ehrenberg 1854 (2)	-	-	-	-	-	-	lf	-	-	-
augur Ehrenberg 1840	-	-	-	-	-	-	lf	-	-	-
bohemicum Reichelt & Fricke 1902 (2, 4)	-	-	-	-	-	-	lf	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
clavatum Ehrenberg 1832	-	-	-	-	-	-	If	-	-	
[<i>Gomphonema longiceps</i> Ehrenberg 1854]										
[<i>Gomphonema mustela</i> Ehrenberg 1854]										
[<i>Gomphonema longiceps</i> v. <i>montanum</i> (Schumann) Hustedt 1930]										
[? <i>Gomphonema longiceps</i> v. <i>montanum</i> f. <i>suecicum</i> (Grunow in Van Heurck) Hustedt 1930]										
[? <i>Gomphonema longiceps</i> v. <i>subclavatum</i> Grunow 1878]										
[? <i>Gomphonema longiceps</i> v. <i>subclavatum</i> f. <i>gracilis</i> Hustedt 1930]										
gracile Ehrenberg 1838	-	-	-	-	-	If	If	-	-	-
[<i>Gomphonema lanceolatum</i> Ehrenberg 1841]										
[<i>Gomphonema gracile</i> v. <i>lanceolatum</i> (Ehrenberg) P.T. Cleve 1894]										
grovei M. Schmidt 1899										
v. lingulatum (Hustedt) Lange-Bertalot 1985	-	-	-	-	-	-	If	-	-	-
[<i>Gomphonema abbreviatum</i> Kützing 1833]										
[non <i>Gomphonema abbreviatum</i> C.A. Agardh 1831]										
[<i>Gomphonema lingulatum</i> Hustedt 1927]										
helveticum Brun 1895	-	-	-	-	-	-	If	-	-	-
olivaceum (Hornemann) Brébisson 1838										
[<i>Ulva olivacea</i> Hornemann 1810]										
[<i>Echinella olivacea</i> (Hornemann) Lyngbye 1819]										
[<i>Gomphoneis olivacea</i> (Hornemann) P. Dawson ex R. Ross & Sims 1978]										
v. olivaceum				-				-		
v. calcareum (P.T. Cleve) P.T. Cleve 1894	-	-	-	-	-	-		-	-	-
[<i>Gomphonema calcareum</i> P.T. Cleve 1868]										
parvulum (Kützing) Kützing 1849										
[<i>Sphenella parvula</i> Kützing 1844]										
[<i>Gomphonema parvulum</i> v. <i>subellipticum</i> P.T. Cleve 1894]										
v. parvulum	-	-	l(f)	-	-	l(f)	l(f)	-	-	-
v. micropus (Kützing) P.T. Cleve 1894	-	-	-	-	-	-	If	-	-	-
[<i>Gomphonema micropus</i> Kützing 1844]										
truncatum Ehrenberg 1832	-	-	-	-	-	If	If	-	-	
[<i>Gomphonema constrictum</i> Ehrenberg 1832 (<i>nom. nud.</i> ?)]										
[<i>Gomphonema capitatum</i> Ehrenberg 1838]										
[<i>Gomphonema constrictum</i> v. <i>capitatum</i> (Ehrenberg) Grunow in Van Heurck 1985]										
[<i>Gomphonema truncatum</i> v. <i>capitatum</i> (Ehrenberg) Patrick in Patrick & Reimer 1975]										
sp.	+	+	-	-	-	-	-	-		

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
macrum (W. Smith) Griffith & Henfrey 1856 [<i>Pleurosigma macrum</i> W. Smith 1853]	-	-	-	-	-	-	+	-	-	-
nodiferum (Grunow) Reimer 1966 [<i>Pleurosigma nodiferum</i> Grunow in Cleve & Grunow 1880] [<i>Gyrosigma spencerii</i> v. <i>nodifera</i> (Grunow) P.T. Cleve 1894]	-	-	-	-	-	-		-	-	-
obscurum (W. Smith) Griffith & Henfrey 1856 [<i>Pleurosigma obscurum</i> W. Smith 1852] [<i>Pleurosigma subsalsum</i> Wislouch & Kolbe 1916]	-	-	-	-	-	-		-	-	-
parkeri (Harrison) Elmore 1921 [<i>Pleurosigma parkeri</i> Harrison 1860] [<i>Gyrosigma distortum</i> v. <i>parkeri</i> (Harrison) P.T. Cleve 1894]	-	-	-	-	-	-		-	-	-
scalproides (Rabenhorst) P.T. Cleve 1894 [<i>Pleurosigma scalproides</i> Rabenhorst 1861]	-	-	-	-	-			-	-	-
spenceri (Quekett) Griffith & Henfrey 1856 [<i>Navicula spenceri</i> Quekett 1848] [<i>Pleurosigma spenceri</i> (Quekett) W. Smith 1856] [<i>Pleurosigma kuetzingii</i> Grunow 1860] [<i>Gyrosigma spenceri</i> v. <i>kuetzingii</i> (Grunow) Grunow 1880] [<i>Gyrosigma kuetzingii</i> (Grunow) P.T. Cleve 1894]	-	-	-	-	-			-		
strigilis (W. Smith) P.T. Cleve 1894 [<i>Pleurosigma strigilis</i> W. Smith 1852]	-	-		-	-			-	-	-
tenuirostrum (Grunow) Cleve-Euler 1952 [<i>Pleurosigma (fasciola</i> v.?) <i>tenuirostris</i> Grunow 1878] [<i>Gyrosigma fasciola</i> v. <i>tenuirostris</i> (Grunow) P.T. Cleve 1894]	?	-	-	-	-	-	+	-	-	-
tenuissimum (W. Smith) Griffith & Henfrey 1856 [<i>Pleurosigma tenuissimum</i> W. Smith 1853]	c	+	-	-	-	-	-	-	-	-
wansbeckii (Donkin) P.T. Cleve 1894 [<i>Pleurosigma wansbeckii</i> Donkin 1858]		-	-	-	-			-	-	-
sp.	+	+	+	+	-	-	+	-	+	+
Hannaea Patrick in Patrick & Reimer 1966										
arcus (Ehrenberg) Patrick in Patrick & Reimer 1966 [<i>Navicula arcus</i> Ehrenberg 1938] [<i>Ceratoneis arcus</i> (Ehrenberg) Kützing 1844] [<i>Fragilaria arcus</i> (Ehrenberg) P.T. Cleve 1898]	-	-	lf	-	-	-	lf	-	-	-
Hantzschia Grunow 1877 <i>nom. cons.</i>										
amphioxys (Ehrenberg) Grunow in P.T. Cleve & Grunow 1880 [<i>Eunotia amphioxys</i> Ehrenberg 1843]										
f. amphioxys	-	-	-	-	-	lf	lf	-	-	-
f. capitata O. Müller 1909	-	-	-	-	-	-	lf	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
spectabilis (Ehrenberg) Hustedt 1959 [<i>Synedra spectabilis</i> Ehrenberg 1843] [<i>Nitzschia spectabilis</i> (Ehrenberg) Ralfs in Pritchard 1861]			-	-	-	-		-	-	-
virgata (Roper) Grunow 1877										
v. virgata	-	-	-	-	-		-	-	-	-
v. capitellata Hustedt 1930	-	-	-	-	-	-		-	-	-
vivax (W. Smith) M. Peragallo in Tempère & Peragallo 1908 [<i>Nitzschia vivax</i> W. Smith 1853]	-	-	-	-	-	-		-	-	-
Haslea Simonsen 1974										
crucigera (W. Smith) Simonsen 1974 [<i>Schizonema cruciger</i> W. Smith 1856] [<i>Navicula crucigera</i> (W. Smith) P.T. Cleve 1894]	-		-	-	-	-	-	-	-	-
Licmophora C.A. Agardh 1827 <i>nom. cons.</i>										
abbreviata C.A. Agardh 1831 [<i>Podosphenia lyngbyei</i> Kützing 1844] [<i>Licmophora lyngbyei</i> (Kützing) Grunow 1867]		?	?	-	-	-	-	-	-	-
communis (Heiberg) Grunow in Van Heurck 1881 [<i>Podosphenia communis</i> Heiberg 1863]	-	-	-	-		-		-	-	-
debilis (Kützing) Grunow in Van Heurck 1881 [<i>Podosphenia debilis</i> Kützing 1844]	-	-	-	-		-		-	-	-
ehrenbergii (Kützing) Grunow 1867 [<i>Podosphenia ehrenbergii</i> Kützing 1844]	-		-		-	-	-	-	-	-
gracilis (Ehrenberg) Grunow 1867 [<i>Podosphenia gracilis</i> Ehrenberg 1838]										
v. gracilis		-	-	-	-	-		-		-
v. anglica (Kützing) H. & M. Peragallo 1901 [<i>Rhipidophora anglica</i> Kützing 1844] [<i>Licmophora anglica</i> (Kützing) Grunow in Van Heurck 1881]	-	-	-	-		-		-		-
juergensii C.A. Agardh 1831	-	-	-	-		-		-	-	-
oedipus (Kützing) Grunow in Van Heurck 1881 [<i>Rhipidophora oedipus</i> Kützing 1844]	-	-		-		-		-	-	-
paradoxa (Lyngbye) C.A. Agardh 1836 [<i>Echinella paradoxa</i> Lyngbye 1819]	-	-	-	-	-	-		-	-	-
sp.	+	-	-	-		-	-	-	-	-
Luticola D.G. Mann in Round <i>et al.</i> 1990										
mutica D.G. Mann in Round <i>et al.</i> 1990 [<i>Navicula mutica</i> Kützing 1844] [<i>Navicula rotaeana</i> (Rabenhorst) Grunow in Van Heurck 1880]	-	-	-	-	-	-		-	-	-
nivalis (Ehrenberg) D.G. Mann in Round <i>et al.</i> 1990	-	-	-	-	-	-		-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
[<i>Navicula nivalis</i> Ehrenberg 1854]										
[<i>Navicula mutica</i> v. <i>nivalis</i> (Ehrenberg) Hustedt 1911]										
Lyrella Karayeva 1978										
abrupta (Gregory) D.G. Mann	-	-	-	-	-		-	-	-	-
[<i>Navicula lyra</i> v. <i>abrupta</i> Gregory 1857]										
[<i>Navicula abrupta</i> (Gregory) Donkin 1870]										
lyra (Ehrenberg) Karayeva 1978	-	-	-	-	-		-	-	-	-
[<i>Navicula lyra</i> Ehrenberg 1843]										
Martyana Round <i>in</i> Round <i>et al.</i> 1990										
atomus (Hustedt) Snoeijs 1991	-	-	-	-	-			-	-	-
[<i>Fragilaria atomus</i> Hustedt 1931]										
[<i>Martyana atomus</i> (Hustedt) Snoeijs <i>in</i> Snoeijs, Hällfors & Leskinen 1991 <i>comb. inval.</i>]										
martyi (Héribaud) Round <i>in</i> Round <i>et al.</i> 1990				-		-		-		-
[<i>Opephora martyi</i> Héribaud 1902]										
[<i>Fragilaria leptostauron</i> v. <i>martyi</i> (Héribaud) Lange-Bertalot 1991]										
schulzii (Brockmann) Snoeijs 1991	-	?	-	-	-	-	-	-	-	-
[<i>Fragilaria schulzi</i> Brockmann 1950]										
[<i>Opephora schulzi</i> (Brockmann) Simonsen 1962]										
[<i>Martyana schulzii</i> (Brockmann) Snoeijs <i>in</i> Snoeijs, Hällfors & Leskinen 1991 <i>comb. inval.</i>]										
Mastogloia Thwaites <i>in</i> W. Smith 1856										
baltica Grunow <i>in</i> Van Heurck 1880	-	-	-	-	-			-	-	-
braunii Grunow 1863			-	-	-			-	-	
elliptica (C.A. Agardh) P.T. Cleve <i>in</i> A. Schmidt 1893	-	-		-	-			-	-	
[<i>Frustulia elliptica</i> C.A. Agardh 1824]										
exigua Lewis 1861	-	-	-	-	-			-	-	-
pumila (P.T. Cleve & Möller) P.T. Cleve 1895	-	-	-	-	-		-	-	-	-
[<i>Mastogloia braunii</i> v. <i>pumila</i> P.T. Cleve & Möller 1879]										
[<i>Mastogloia braunii</i> v. <i>pumila</i> Grunow <i>in</i> Van Heurck 1880]										
smithii Thwaites <i>in</i> W. Smith 1856										
v. smithii			-	-				-		
v. amphicephala Grunow <i>in</i> Van Heurck 1880	-	-	-	-				-	-	-
v. lacustris Grunow 1878	-	-	-	-	-	-		-	-	-
Meridion C.A. Agardh 1824										
circulare (Greville) C.A. Agardh 1831										
[<i>Echinella circularis</i> Greville 1823]										
v. circulare -	-	lf	-	-	lf	lf	-	-	-	-
v. constrictum (Ralfs) Van Heurck 1881	-	-	-	-	-	-	lf	-	-	-
[<i>Meridion constrictum</i> Ralfs 1843]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
duerrenbergiana Hustedt in A. Schmidt 1934 (2)	–	–	–	–	–		–	–	–	–
erifuga Lange-Bertalot 1985	–	–	–	–	–		–	–	–	–
flanatica Grunow 1860	–	–	–	–	–		–	–	–	–
graciloides A. Mayer 1919	–	–	–	–	–	–	lf	–	–	–
granii (E. Jørgensen) Gran 1908 (2) [<i>Stauroneis granii</i> E. Jørgensen 1905]	c	c	–	–	–	–	c	–	–	–
gregaria Donkin 1861 [<i>Navicula gothlandica</i> auct.] [non <i>Navicula gottlandica</i> Grunow in Van Heurck 1880]	–	–		–	–			–	–	–
hustedtii Krasske 1923	–	–	–	–	–	–	lf	–	–	–
jentschii Grunow 1882	–	–	–	–	–	–	lf	–	–	–
kotschyi Grunow 1860 [<i>Navicula grimmei</i> Krasske 1925]	–	–	–	–	–	–	lf	–	–	–
krasskei Hustedt 1930	–	–	–	–	–	–	lf	–	–	–
lanceolata (C.A. Agardh) Ehrenberg 1838 [non <i>Navicula lanceolata</i> sensu Kützing] [nec <i>Navicula lanceolata</i> sensu Hustedt] [<i>Frustulia lanceolata</i> C.A. Agardh 1827] [<i>Navicula avenacea</i> (Brébisson & Godey) Brébisson ex Grunow 1878] [<i>Navicula viridula</i> v. <i>avenacea</i> (Brébisson & Godey) Van Heurck 1885]		–		–	–			–	–	–
lapidosa Krasske 1929	–	–	–	–	–	–	lf	–	–	–
laterostrata Hustedt 1925	–	–	–	–	–	–		–	–	–
lesmonensis Hustedt 1957	–	–	l(f)	–	–	–	–	–	–	–
lucidula Grunow in Van Heurck 1880 (2, 4)	–	–	–	–	–	–	lf	–	–	–
menisculus Schumann 1867	–	–	–	–	–			–	–	–
meniscus Schumann 1867	–	–		–	–		–	–	–	–
microcephala Grunow in Van Heurck 1880 (2, 4)	–	–	–	–	–	–	lf	–	–	–
minima Grunow in Van Heurck 1880	–	–	–	–	–	–	lf	–	–	–
minuscula Grunow in Van Heurck 1880 v. minuscula –	–	–	–	–	–	lf	–	–	–	–
v. muralis (Grunow) Lange-Bertalot 1981 [<i>Navicula muralis</i> Grunow in Van Heurck 1880]	–	–	–	–	–	–	lf	–	–	–
oblonga (Kützing) Kützing 1844 [<i>Frustulia oblonga</i> Kützing 1833]	–	–		–	–	–	–	–	–	–
palpebralis Brébisson ex W. Smith 1853	–	–	–	?	–	–	–	–	–	–
pelagica P.T. Cleve 1896 (2)	–	–	–	–	–	–	c	–	c	c
pelliculosa (Brébisson ex Kützing) Hilse in Rabenhorst 1862 (2) [(?) <i>Frustulia pelliculosa</i> Brébisson ex Kützing 1849] (76)	–	–	–	–	–	–	lf	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
peregrina (Ehrenberg) Kützing 1844 [<i>Pinnularia peregrina</i> Ehrenberg 1843]										
v. peregrina										
f. peregrina	-	-		-				-	-	
f. angusta Kolbe (2)	-	-	-	-	-	-		-	-	-
f. minor Kolbe 1927 (2)	-	-	-	-	-	-		-	-	-
v. kefvingensis (Ehrenberg) P.T.Cleve 1895 [<i>Pinnularia kefvingensis</i> Ehrenberg 1840]	-	-	-	-	-	-	-	-	-	
perminuta Grunow in Van Heurck 1880 [<i>Navicula cryptocephala</i> v. <i>perminuta</i> (Grunow) P.T. Cleve 1895] [<i>Navicula hanseni</i> M. Møller 1950]	-	-	-	-	-		-	-	-	-
phyllepta Kützing 1844 [<i>Navicula lanceolata</i> (Kützing) Van Heurck 1885]	-	-	-	-	-			-	-	-
platystoma Ehrenberg 1838 (2)	-	-		-	-	-	-	-	-	-
protracta (Grunow) P.T. Cleve 1894 [<i>Navicula crucicula</i> v. <i>protracta</i> Grunow in Cleve & Grunow 1880]	-	-	-	-	-	-		-	-	-
pseudotuscula Hustedt 1943 (2, 77)	-	-	-	-		-	-	-	-	-
radiosa Kützing 1844	lf	lf	lf	lf	-	lf	lf	-	lf	
reinhardtii (Grunow) Grunow in Cleve & Möller 1877 [<i>Stauroneis reinhardtii</i> Grunow 1860]	-	-	lf	-	-	-	lf	-	-	-
rhynchocephala Kützing 1844				-				-		
salinarum Grunow in Cleve & Grunow 1880 f. salinarum		-	-	-			-	-		
f. capitata Schulz 1926 (2, 4)	-	-	-	-	-	-		-	-	-
schoenfeldii Hustedt 1930	-	-	-	-	-	-	lf	-	-	-
scutelloides W. Smith ex Gregory 1856	-	lfe	lfe	-	-	lfe	lfe	-	-	-
similis Krasske 1929	-	-	-	-	-	-	lf	-	-	-
striolata (Grunow) Lange-Bertalot 1985 [<i>Navicula digitoradiata</i> v. <i>striolata</i> Grunow in Cleve & Grunow 1880] [<i>Navicula reinhardtii</i> v. <i>gracilior</i> Grunow in Van Heurck 1885]	-	-	-	-	-	-	lf	-	-	-
subtilissima P.T. Cleve 1891	-	-	-	-	-	-	lf	-	-	-
transitans Cleve 1883 [<i>Navicula derasa</i> v. <i>transitans</i> R. Ross in Hartley 1986]										
v. transitans	+	-	-	-	-	-	-	-	-	-
v. derasa (Grunow in Cleve & Grunow) P.T. Cleve 1883 [<i>Navicula derasa</i> Grunow in Cleve & Grunow 1880]										
f. delicatula Heimdal 1970	+	-	-	-	-	-	-	-	-	-
tripunctata (O.F. Müller) Bory 1822 [<i>Vibrio tripunctatus</i> O.F. Müller 1786] [<i>Navicula gracilis</i> Ehrenberg 1838]	-	-		-	-			-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
vanhoeffenii Gran 1897 (2)	c	–	c	c	c	c	c	–	c	c
vaucheriae Petersen 1915 (4)	–	–	–	–	–	–	lf	–	–	–
veneta Kützing 1844 [<i>Navicula cryptocephala</i> v. <i>veneta</i> (Kützing) Rabenhorst 1864]	–	–	–	–	–	–		–	–	–
ventralis Krasske 1923	–	–	–	–	–	–	lf	–	–	–
viridula (Kützing) Ehrenberg 1838 [<i>Frustulia viridula</i> Kützing 1833]	–	–		–	–			–	–	–
v. viridula	–	–	–	–	–	–		–	–	–
v. rostellata (Kützing) P.T. Cleve 1895 [<i>Navicula rostellata</i> Kützing 1844] [<i>Navicula rhynchocephala</i> v. <i>rostellata</i> (Kützing) P.T. Cleve & Grunow 1880]	–	–	–	–	–	–		–	–	–
vitabunda Hustedt 1930 [<i>Navicula verecunda</i> Hustedt 1930]	–	–	–	–	–	–	lf	–	–	–
vulpina Kützing 1844	–	–	–	–	lf	–	lf	–	–	–
sp.	–	–	–	–	–	–	–	–	+	–
Neidium Pfitzer 1871										
affine (Ehrenberg) Pfitzer 1871 [<i>Navicula affinis</i> Ehrenberg 1843] [? <i>Neidium affine</i> v. <i>capitata</i> Mölder 1937] (2)	–	–	–	–	–	–	–	–	–	+
binodis (Ehrenberg) Hustedt 1945 [<i>Navicula binodis</i> Ehrenberg 1840] [<i>Neidium dubium</i> v. <i>constricta</i> Hustedt 1922] [<i>Neidium dubium</i> f. <i>constricta</i> (Hustedt) Hustedt 1930]	–	–	?	–	–	–	–	–	–	–
dubium (Ehrenberg) P.T. Cleve 1894 [<i>Navicula dubia</i> Ehrenberg 1843]	–	–	–	–	–	lf	lf	–	–	–
iridis (Ehrenberg) P.T. Cleve 1894 [<i>Navicula iridis</i> Ehrenberg 1843] [<i>Navicula amphigomphus</i> Ehrenberg 1843] [<i>Neidium iridis</i> v. <i>amphigomphus</i> (Ehrenberg) A. Mayer 1917]	–	–	–	–	–	–	lf	–	–	–
productum (W. Smith) P.T. Cleve 1894 [<i>Navicula producta</i> W. Smith 1853]	–	–	–	–	–	–	lf	–	–	–
Neosynedra Williams & Round 1986										
provincialis (Grunow) Williams & Round 1986 [<i>Synedra provincialis</i> Grunow 1877]	+	–	–	–	–	–	–	–	–	–
Nitzschia Hassall 1845 <i>nom. cons.</i>										
acicularis (Kützing) W. Smith 1853 [<i>Synedra acicularis</i> Kützing 1844]	(l)f	(l)f	(l)f	(l)f	(l)f	(l)f	(l)f	–	(l)f	(l)f
v. acicularis	–	–	–	–	–	–	lf	–	–	–
v. closterioides Grunow 1862 (2)	–	–	–	–	–	–	lf	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
acula Hantzsch ex Cleve & Grunow 1880 (" <i>acuta</i> " auct.)	–	–	–	–	–	–	lf	–	–	–
amphibia Grunow 1862	–	–	–	–	lf	lf	lf	–	–	–
angularis W. Smith 1853		–	–	–	–	–	–	–	–	–
capitellata Hustedt in A. Schmidt 1922	–	–	–	–	–	?		–	–	–
clausii Hantzsch 1860	–	–	–	–	–	–		–	–	–
communis Rabenhorst 1860	–	–	–	–	–	–		–	–	–
commutata Grunow in Cleve & Grunow 1880		–	–	–	–			–	–	–
dissipata (Kützing) Grunow 1862 [<i>Synedra dissipata</i> Kützing 1844]	–	–	–	–	–			–	–	–
dubia W. Smith 1853			–	–	–			–	–	–
elegantula Grunow in Van Heurck 1881 [<i>Nitzschia microcephala</i> v. <i>elegantula</i> Van Heurck 1885]		–	–	–	–	–	–	–	–	–
fasciculata (Grunow) Grunow in Van Heurck 1881 [<i>Nitzschia sigma</i> v. <i>fasciculata</i> Grunow 1878]	–	–	–	–	–	?	–	–	–	–
filiformis (W. Smith) Van Heurck 1896 [<i>Homoeocladia filiformis</i> W. Smith 1856]	–	–		–	–	–		–		
fonticola Grunow in Van Heurck 1881 [<i>Nitzschia kuetzingiana</i> v. <i>romana</i> Grunow in Cleve & Grunow 1880] [<i>Nitzschia romana</i> (Grunow) Grunow in Van Heurck 1881]	–	–	–	–	–	–	lf	–	–	–
frigida Grunow in Cleve & Grunow 1880 [<i>Nitzschia polaris</i> auct.] (78)	c	–	c	–	c	c	c	–	c	c
frustulum (Kützing) Grunow in Cleve & Grunow 1880 [<i>Synedra frustulum</i> Kützing 1844] [<i>Nitzschia frustulum</i> v. <i>subsalina</i> Hustedt 1925]	–	–		–	–			–		–
gandersheimiensis Krasske 1927	–	–	–	–	–	–		–	–	–
gracilis Hantzsch 1860	–	l(f)	–	–	–	l(f)	l(f)	–	–	–
hantzschiana Rabenhorst 1860 [<i>Nitzschia perpusilla</i> Rabenhorst 1861] [non <i>Nitzschia perpusilla</i> Grunow 1862] [<i>Nitzschia frustulum</i> v. <i>perpusilla</i> (Rabenhorst) Grunow in Van Heurck 1881]	–	–	–	–	–	–	lf	–	–	–
homburgiensis Lange-Bertalot 1978 (4) [<i>Nitzschia thermalis</i> v. <i>minor</i> Hilse 1863]	–	–	–	–	–	–	lf	–	–	–
hybrida Grunow in Cleve & Grunow 1880			–	–	–	–		–	–	–
inconspicua Grunow 1862 [<i>Nitzschia perpusilla</i> auct.]	–	–		–	–			–	–	–
intermedia Hantzsch ex P.T. Cleve & Grunow 1880 [<i>Nitzschia capitellata</i> Hustedt p.p.]	–	–		–	–	–	–	–	–	
lacunarum Hustedt 1930	–	–	–	–	–	–		–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
linearis (C.A. Agardh) W. Smith 1853 [<i>Frustulia linearis</i> C.A. Agardh <i>fide</i> W. Smith 1853]	lf	lf	–	–	–	?	lf	–	–	–
longissima (Brébisson <i>in</i> Kützing) Ralfs <i>in</i> Pritchard 1861 (2, 4) [<i>Ceratoneis longissima</i> Brébisson <i>in</i> Kützing 1849]	+	+	+	+	+	+	+	–	+	+
lorenziana Grunow <i>in</i> Cleve & Grunow 1880 [<i>Nitzschia lorenziana</i> v. <i>subtilis</i> Grunow <i>in</i> Cleve & Grunow 1880]	–	–	+	–	–	–		–	–	–
microcephala Grunow <i>in</i> Cleve & Möller 1878	–	–	–	–	–	l(f)	l(f)	–	–	–
nana Grunow <i>in</i> Van Heurck 1881 [<i>Nitzschia obtusa</i> v. <i>nana</i> (Grunow) Van Heurck 1885] [<i>Nitzschia ignorata</i> Krasske 1929]	–	–	–	–	–	–		–	–	–
obtusa W. Smith 1853	–	–	–	–	–	–		–	–	–
ovalis Arnott <i>ex</i> Grunow <i>in</i> Cleve & Grunow 1880	–	–	–	–	–	–		–	–	–
palea (Kützing) W. Smith 1856 [<i>Synedra palea</i> Kützing 1844]										
v. palea	–	+	+	–				–		–
v. debilis (Kützing) Grunow <i>in</i> Cleve & Grunow 1880 [<i>Synedra debilis</i> Kützing 1844]	–	–	–	–	–	–		–	–	–
paleacea (Grunow) Grunow <i>in</i> Van Heurck 1881 (79) [<i>Nitzschia subtilis</i> v. <i>paleacea</i> Grunow <i>in</i> Cleve & Grunow 1880] [<i>Nitzschia holsatica</i> auct.] [<i>Nitzschia kuetzingiana</i> sensu Hustedt 1930] [non <i>Nitzschia kuetzingiana</i> Hilse 1863] [<i>Synedra actinastroides</i> auct.] [<i>Nitzschia actinastroides</i> auct.]	+	w	w	w	w	w	w(l)	–	+	(l)
perminuta (Grunow) M. Peragallo 1903 [<i>Nitzschia palea</i> v. <i>perminuta</i> Grunow <i>in</i> Cleve & Grunow 1880]	–	–	–	–	–		–	–	–	–
pusilla (Kützing) Grunow 1862 <i>emend.</i> Lange-Bertalot 1976 [<i>Synedra pusilla</i> Kützing 1844] [<i>Nitzschia kuetzingiana</i> Hilse 1863] [non <i>Nitzschia kuetzingiana</i> sensu Hustedt 1930]	–	–		–	–	–	lf	–	–	–
recta Hantzsch <i>in</i> Rabenhorst 1861	–	–	lf	–	–	–	lf	–	–	–
scalaris (Ehrenberg) W. Smith 1853 [<i>Synedra scalaris</i> Ehrenberg 1843]	–	–	–	–	–	–		–	–	–
scalpelliformis (Grunow) Grunow <i>in</i> Cleve & Grunow 1880 [<i>Nitzschia obtusa</i> v. <i>scalpelliformis</i> Grunow <i>in</i> Cleve & Möller]	–	–	–	–	–	–		–	–	–
sigma (Kützing) W. Smith 1853 [<i>Synedra sigma</i> Kützing 1844]				–	–			–	–	
sigmoidea (Nitzsch) W. Smith 1853 [<i>Bacillaria sigmoidea</i> Nitzsch 1817] [<i>Navicula sigmoidea</i> (Nitzsch) Ehrenberg 1832]	lf	lf	lf	–	–	lf	lf	–	lf	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
humerosa (Brébisson ex W. Smith) Stickle & D.G. Mann <i>in</i> Round <i>et al.</i> 1990 [<i>Navicula humerosa</i> Brébisson ex W. Smith 1856]	–	–		?	–			–	–	
latissima (Gregory) Stickle & D.G. Mann <i>in</i> Round <i>et al.</i> 1990 [<i>Navicula latissima</i> Gregory 1856]		–	–	–	–		–	–	–	–
marina (Ralfs <i>in</i> Pritchard) D.G. Mann <i>in</i> Round <i>et al.</i> 1990 [<i>Navicula marina</i> Ralfs <i>in</i> Pritchard 1861]	–	–	–	–	–			–	–	–
Phaeodactylum Bohlin 1897										
tricornutum Bohlin 1897 (22)	–	–	–	–	–	–	+	–	–	–
sp.	+	–	–	–	–	–	–	–	–	–
Pinnularia Ehrenberg 1843 <i>nom. cons.</i>										
appendiculata (C.A. Agardh) P.T. Cleve 1895 [<i>Frustulia appendiculata</i> C.A. Agardh 1827]	–	–	–	–	–	–	lf	–	–	–
borealis Ehrenberg 1843	–	–	–	–	–	–	lf	–	–	–
brauniana (Grunow) P.T. Cleve 1895 (" <i>braunii</i> " auct.)										
v. brauniana	–	–	–	–	–	–	lf	–	–	–
v. amphicephala (A. Mayer) Hustedt 1930 [<i>Pinnularia amphicephala</i> A. Mayer 1916]	–	–	–	–	–	–	lf	–	–	–
dactylus Ehrenberg 1843	–	–	–	–	–	–	lf	–	–	–
elegans (W. Smith) Krammer 1992 [<i>Navicula elegans</i> W. Smith 1853] [<i>Pinnunavis elegans</i> (W. Smith) Okuno 1975]	–	–	–	–	–	–		–	–	
gibba Ehrenberg 1843 [<i>Pinnularia stauoptera</i> (Grunow) Rabenhorst 1864]	–	–	–	–	–	–	lf	–	–	lf
globiceps Gregory 1856	–	–	–	–	–	–	lf	–	–	–
hemiptera (Kützing) Rabenhorst 1853 [<i>Navicula hemiptera</i> Kützing 1844]	–	–	–	–	–	–	lf	–	–	–
major (Kützing) Rabenhorst 1853 (" <i>maior</i> ") [<i>Frustulia major</i> Kützing 1833] [<i>Navicula major</i> (Kützing) Kützing]	–	–	–	–	–	–	lf	–	–	lf
mesolepta (Ehrenberg) W. Smith 1853 [<i>Navicula mesolepta</i> Ehrenberg 1843] [<i>Pinnularia interrupta</i> W. Smith 1853]	–	–	–	–	–	lf	lf	–	–	–
microstauron (Ehrenberg) P.T. Cleve 1891 [<i>Stauoptera microstauron</i> Ehrenberg 1843]	–	–	–	–	–	lf	lf	–	–	–
nodosa (Ehrenberg) W. Smith 1856 [<i>Navicula nodosa</i> Ehrenberg 1838]	–	–	–	–	–	–	lf	–	–	–
polaris Heiden 1905 [" <i>Pinnularia quadratarea</i> v. <i>stuxbergii</i> Cleve"] (80)	–	–	–	–	c	–	c	–	c	c
subcapitata Gregory 1856	–	–	–	–	–	–	lf	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
angulatum (Quekett) W. Smith 1852 [<i>Navicula angulata</i> Quekett 1848]				-	-	-		-	-	-
elongatum W. Smith 1852					-			-	-	
salinarum Grunow 1880	-	-	-	-	-	-		-	-	
strigosum W. Smith 1852		-	-	-	-	-	-	-	-	-
sp.	+	-	-	-	-	-	-	-	-	-
Proschkinia Karayeva 1978										
bulnheimii (Grunow) Karayeva 1978 [<i>Navicula bulnheimii</i> Grunow in Van Heurck 1880] [<i>Libellus bulnheimii</i> (Grunow) Cleve 1894] [<i>Navicula longirostris</i> Hustedt 1930] [<i>Proschkinia? longirostris</i> (Hustedt) D.G. Mann in Round et al. 1990]	-	-	-	-	-	-	+	-	-	-
Pseudo-nitzschia H. Peragallo in H. & M. Peragallo 1900										
delicatissima (P.T. Cleve) Heiden in Heiden & Kolbe 1928 [<i>Nitzschia delicatissima</i> P.T. Cleve 1897] [<i>Nitzschia actydropihila</i> Hasle 1965]	+	+	+	-	-	-	-	-	-	-
fraudentula (P.T. Cleve) Hasle 1993 [<i>Nitzschia fraudentula</i> P.T. Cleve 1897]	?	-	-	-	-	-	-	-	-	-
multiseriis (Hasle) Hasle 1995 [<i>Nitzschia pungens</i> f. <i>multiseriis</i> Hasle 1974] [<i>Pseudo-nitzschia pungens</i> f. <i>multiseriis</i> (Hasle) Hasle 1993]	c	-	-	-	-	-	-	-	-	-
pseudodelicatissima (Hasle) Hasle 1993 [<i>Nitzschia pseudodelicatissima</i> Hasle 1976] [<i>Nitzschia delicatula</i> Hasle 1965]	w	w	-	-	-	-	-	-	-	-
pungens (Grunow ex P.T. Cleve) Hasle 1993 [<i>Nitzschia pungens</i> Grunow ex P.T. Cleve 1897]	cw	+	-	-	-	-	-	-	-	-
seriata (P.T. Cleve) H. Peragallo in H. & M. Peragallo 1900 [<i>Nitzschia seriata</i> P.T. Cleve 1883]										
f. seriata	c	c	?	-	-	-	-	-	-	-
f. obtusa (Hasle) Hasle 1993 [<i>Nitzschia seriata</i> f. <i>obtusa</i> Hasle 1974]	+	-	-	-	-	-	-	-	-	-
Pseudostaurosira Williams & Round 1988 (1987)										
brevistriata (Grunow in Van Heurck 1885) Williams & Round 1988 (1987) [<i>Fragilaria brevistriata</i> Grunow in Van Heurck 1885]										
v. brevistriata	-	+	+	-	-	+	+	-	-	-
[Fragilaria brevistriata] v. inflata (Pantocsek) Hustedt 1930 (2, 81) [<i>Fragilaria inflata</i> Pantocsek 1902]	-	-	+	-	-	-	-	-	-	-
[Fragilaria brevistriata] v. trigibba (Pantocsek) Hustedt 1930 (2, 81) [<i>Fragilaria trigibba</i> Pantocsek 1902]	-	-	+	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Sellaphora Mereschkowsky 1902										
bacillum (Ehrenberg) D.G. Mann 1989	–	–	If	–	–	–	If	–	–	–
[<i>Navicula bacillum</i> Ehrenberg 1843]										
laevissima (Kützing) D.G. Mann 1989	–	–	–	–	–	–	If	–	–	–
[<i>Navicula laevissima</i> Kützing 1844]										
[<i>Navicula bacilliformis</i> Grunow in Cleve & Grunow 1880]										
pupula (Kützing) Mereschkowsky 1902	–	–		–	–			–	–	–
[<i>Navicula pupula</i> Kützing 1844]										
[? <i>Navicula pupula</i> v. <i>rectangularis</i> (Gregory) Grunow in Cleve & Grunow 1880]	–	–	–	–	–	–	If	–	–	–
[? <i>Navicula pupula</i> v. <i>elliptica</i> Hustedt 1911]	–	–	–	–	–	–	If	–	–	–
[? <i>Navicula pupula</i> v. <i>rostrata</i> Hustedt 1911]	–	–	–	–	–	–	If	–	–	–
[? <i>Navicula pupula</i> v. <i>capitata</i> Skvortsow & Meyer 1928]	–	–	–	–	–	–	If	–	–	–
[? <i>Navicula pupula</i> v. <i>capitata</i> Hustedt 1930]	–	–	–	–	–	–	If	–	–	–
[? <i>Navicula pupula</i> v. <i>mutata</i> (Krasske) Hustedt 1930]	–	–	–	–	–	–	If	–	–	–
seminulum (Grunow) D.G. Mann 1989	–	–	–	–	–	–	If	–	–	–
[<i>Navicula seminulum</i> Grunow 1860]										
Stauroneis Ehrenberg 1843										
anceps Ehrenberg 1843	–	–	?	–	–	If	If	–	–	–
[<i>Stauroneis anceps</i> f. <i>gracilis</i> auct.]										
[<i>Stauroneis anceps</i> v. <i>gracilis</i> (Ehrenberg) Brun 1880]										
halmei Mölder 1939	–	–	–	–	–	–		–	–	–
legumen (Ehrenberg) Kützing 1844	–	–	–	–	–	–		–	–	–
[<i>Stauroptera legumen</i> Ehrenberg 1843 (1841)]										
phoenicenteron (Nitzsch) Ehrenberg 1843	–	–	If	–	–	If	If	–	–	
[<i>Bacillaria phoenicenteron</i> Nitzsch 1817 p.p.]										
[<i>Stauroneis phoenicenteron</i> v. <i>brevis</i> Dippel 1904]										
[<i>Stauroneis phoenicenteron</i> f. <i>brevis</i> (Dippel) Hustedt 1959]										
prominula (Grunow) Hustedt 1959	–	–	If	–	–	–		–	–	–
[<i>Pleurostauron prominulum</i> Grunow in Cleve & Möller 1881]										
[<i>Stauroneis parvula</i> v. <i>prominula</i> (Grunow) Grunow in Cleve 1894]										
[<i>Stauroneis biundulata</i> Cleve-Euler 1934]										
[<i>Stauroneis parvula</i> v. <i>biundulata</i> (Cleve-Euler) Cleve-Euler 1939]										
[<i>Stauroneis legumen</i> f. <i>biundulata</i> (Cleve-Euler) Cleve-Euler 1953]										
smithii Grunow 1860	–	–	–	–	–	If	If	–	–	–
spicula Hickie 1874	(l)	–	–	–	–	(l)	(l)	–	(l)	(l)
[<i>Navicula spicula</i> (Hickie) P.T. Cleve 1894]										
thermicola (Petersen) Lund 1946	–	–	–	–	–	?	–	–	–	–
[<i>Navicula thermicola</i> Petersen 1928]										
sp.	–	–	–	–	–	–	–	–	+	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
delicatissima (Lewis) Brébisson ex Van Heurck 1896 [<i>Surirella delicatissima</i> Lewis 1864]	-	-	-	-	-	-	f	-	-	-
sp.	-	-	-	-	-	-	-	-	+	-
Surirella Turpin 1828 (" <i>Suriraya</i> ")										
angusta Kützing 1844 (" <i>angustata</i> " auct.)	-	-		-	-	lf	lf	-	-	-
bifrons Ehrenberg 1843 [<i>Surirella biseriata</i> v. <i>bifrons</i> (Ehrenberg) Hustedt 1911] [<i>Surirella biseriata</i> v. <i>rostrata</i> Schulz 1926]	-	-	f	-	-	-	f	-	-	-
biseriata Brébisson in Brébisson & Godey 1836	-	-	+	-	-	-	lf	-	-	+
brebissonii Krammer & Lange-Bertalot 1987 [<i>Surirella ovata</i> v. <i>marina</i> Brébisson in Rabenhorst 1867] [<i>Surirella ovata</i> Kützing sensu Hustedt 1930] [<i>Surirella ovalis</i> v. <i>ovata</i> (Kützing) Van Heurck 1886]	-			-	-			-	-	
brightwellii W. Smith 1853 [<i>Surirella ovalis</i> v. <i>brightwellii</i> (W. Smith) H. & M. Peragallo 1899]										
v. baltica (Schumann) Krammer 1977 [<i>Surirella baltica</i> Schumann 1867]	-	-	-	-	-		-	-	-	-
capronii Brébisson in Kitton 1869	lf	-	lf	-	-	-	lf	-	-	-
crumena Brébisson ex Kützing 1849 [<i>Surirella ovata</i> v. <i>crumena</i> (Brébisson ex Kützing) Hustedt 1930]	-	-		-	-			-	-	-
didyma Kützing 1844	-	-	-	-	-	-		-	-	-
elegans Ehrenberg 1843	-	-	lf	-	-	-	lf	-	-	-
gracilis Grunow 1862 [<i>Surirella moelleriana</i> sensu Hustedt 1930] [non <i>Surirella moelleriana</i> Grunow ex Möller 1868]	-	-	-	-	-	-	lf	-	-	-
lapponica A. Cleve 1895 [<i>Surirella gracilis</i> sensu Hustedt 1930] [non <i>Surirella gracilis</i> Grunow 1862]	-	-	-	-	-	-	lf	-	-	-
linearis W. Smith 1853	-	-	lf	-	-	-	lf	-	-	-
minuta Brébisson in Kützing 1849 [? <i>Surirella ovata</i> Kützing 1844 p.p.] [<i>Surirella salina</i> W. Smith 1851] [<i>Surirella pinnata</i> W. Smith 1853] [<i>Surirella ovata</i> v. <i>salina</i> (W. Smith) Rabenhorst 1864] [<i>Surirella ovata</i> v. <i>pinnata</i> (W. Smith) Brun 1880] [<i>Surirella ovalis</i> v. <i>pinnata</i> (W. Smith) Van Heurck 1881] [<i>Surirella ovalis</i> v. <i>salina</i> (W. Smith) Van Heurck 1896]	lf	lf	lf	-	-	lf	lf	-	-	-
ovalis Brébisson 1838			-	-	-			-		
robusta Ehrenberg 1841	-	-	lf	-	-	-	lf	-	-	lf

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>spiralis</i> Kützing 1844	–	–	lf	–	–	–	–	–	–	–
<i>splendida</i> (Ehrenberg) Kützing 1844	–	–	–	–	–	–	f	–	–	–
[<i>Navicula(?) splendida</i> Ehrenberg 1832]										
[<i>Surirella robusta</i> v. <i>splendida</i> (Ehrenberg) Van Heurck 1885]										
<i>striatula</i> Turpin 1828	+	+	–	–	–	+	+	–	+	+
<i>tenera</i> Gregory 1856	–	–	–	–	–	–	f	–	–	–
[<i>Surirella tenera</i> v. <i>nervosa</i> auct.]										
<i>turgida</i> W. Smith 1853	–	–	–	–	–	–	f	–	–	–
sp.	+	–	–	–	–	–	+	–	+	+
<i>Synedra</i> Ehrenberg 1830										
<i>acus</i> Kützing 1844										
[<i>Fragilaria ulna</i> v. <i>acus</i> (Kützing) Lange-Bertalot 1980]										
v. acus	–	–	lf	–	–	lf	lf	lf	lf	l
v. angustissima (Grunow in Van Heurck) Van Heurck 1885	–	–	f	–	f	–	f	–	f	f
[<i>Synedra delicatissima</i> v. <i>angustissima</i> Grunow in Van Heurck 1881]										
v. radians (Kützing) Hustedt 1930	f	f	–	f	–	–	f	–	f	f
[<i>Synedra radians</i> Kützing 1844]										
[<i>Synedra delicatissima</i> W. Smith 1853]										
<i>amphicephala</i> Kützing 1844	–	–	–	–	–	–	lf	–	–	–
[<i>Fragilaria capucina</i> v. <i>amphicephala</i> (Kützing) Lange-Bertalot 1991]										
<i>berolinensis</i> Lemmermann 1900 (2, 86)	–	–	f	f	–	–	–	–	–	–
[<i>Fragilaria berolinensis</i> (Lemmermann) Lange-Bertalot 1989]										
<i>biceps</i> Kützing 1844	f	–	?	–	–	–	–	–	?	–
[<i>Synedra longissima</i> W. Smith 1853]										
[<i>Synedra ulna</i> v. <i>biceps</i> (Kützing) Kirchner in Cohn 1878 (p.p.?)]										
[<i>Synedra ulna</i> v. <i>longissima</i> (W. Smith) Brun 1880]										
[<i>Synedra ulna</i> f. <i>longissima</i> (W. Smith) Abshagen 1908]										
[<i>Fragilaria biceps</i> (Kützing) Lange-Bertalot 1991]										
<i>capitata</i> Ehrenberg 1836	–	–	lf	–	–	–	–	–	–	–
[<i>Frustulia dilatata</i> Brebisson & Godey 1838] acc. Hustedt 1932										
[<i>Synedra dilatata</i> Brébisson 1838] acc. Lange-Bertalot										
[<i>Fragilaria capitata</i> (Ehrenberg) Lange-Bertalot 1980]										
[non <i>Fragilaria capitata</i> Ehrenberg 1853, 1854]										
[<i>Fragilaria dilatata</i> (Brébisson) Lange-Bertalot 1986]										
<i>nana</i> Meister 1912	–	–	f	–	–	–	f	–	–	+
[<i>Fragilaria nanana</i> Lange-Bertalot 1991]										
<i>parasitica</i> (W. Smith) Hustedt 1930										
[<i>Odontidium parasiticum</i> W. Smith 1856]										
[<i>Fragilaria parasitica</i> (W. Smith) Grunow in Van Heurck 1881]										
v. parasitica	–	–	(l)f	–	–	–	–	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
v. subconstricta (Grunow) Hustedt 1930 [<i>Fragilaria parasitica</i> v. <i>subconstricta</i> Grunow in Van Heurck 1881]	–	–	–	–	–	–	(l)f	–	–	–
toxoneides Castracane 1880 (2) [<i>Fragilaria toxoneides</i> (Castracane) Lange-Bertalot 1980]	–	–	–	–	–	–	ls	–	–	–
ulna (Nitzsch) Ehrenberg 1832 [<i>Bacillaria ulna</i> Nitzsch 1827] [<i>Fragilaria ulna</i> (Nitzsch) Lange-Bertalot 1980] [<i>Synedra ulna</i> v. <i>splendens</i> (Kützing) Van Heurck 1885]										
v. ulna	lf	lf	lf	lf	–	lf	lf	–	lf	lf
v. amphirhynchus (Ehrenberg) Grunow 1862 [<i>Synedra amphirhynchus</i> Ehrenberg 1843]	–	–	–	–	–	–	lf	–	–	–
v. danica (Kützing) Van Heurck 1885 [<i>Synedra danica</i> Kützing 1844]	–	–	lf	–	–	–	–	–	–	–
utermoehlii Hustedt 1932 (86) sp.	–	–	f	–	–	–	f	–	–	–
Tabellaria Ehrenberg 1840 (1839)	+	–	–	–	–	–	+	–	–	–
binalis (Ehrenberg) Grunow in Van Heurck 1881 [<i>Fragilaria? binalis</i> Ehrenberg 1854]	–	–	–	–	–	–	f	–	–	–
fenestrata (Lyngbye) Kützing 1844 (94) [<i>Diatoma fenestratum</i> Lyngbye 1819]	–	–	(l)f	–	(l)f	(l)f	(l)f	(l)f	(l)f	(l)f
flocculosa (Roth) Kützing 1844 (94) [<i>Conferva flocculosa</i> Roth 1797] [<i>Tabellaria fenestrata</i> v. <i>asterionelloides</i> Grunow in Van Heurck 1881] [<i>Tabellaria fenestrata</i> v. <i>intermedia</i> Grunow in Van Heurck 1881] [<i>Tabellaria fenestrata</i> v. <i>geniculata</i> A. Cleve 1899]	(l)f	–	(l)f	(l)f	–	(l)f	(l)f	–	(l)f	(l)f
Tabularia (Kützing 1844) Williams & Round 1986										
fasciculata (C.A. Agardh) Williams & Round 1986 [<i>Diatoma fasciculatum</i> C.A. Agardh 1812] [<i>Synedra fasciculata</i> (C.A. Agardh) Kützing 1844] [<i>Synedra affinis</i> v. <i>fasciculata</i> (C.A. Agardh) Grunow in Van Heurck 1881] [<i>Synedra tabulata</i> v. <i>fasciculata</i> (Kützing) Hustedt 1932] [<i>Fragilaria fasciculata</i> (C.A. Agardh) Lange-Bertalot 1980 p.p.]	–	–		–				–		
tabulata (C.A. Agardh) Snoeijs 1992 [<i>Diatoma tabulatum</i> C.A. Agardh 1832] [<i>Synedra tabulata</i> (C.A. Agardh) Kützing 1844] [<i>Synedra affinis</i> v. <i>tabulata</i> (C.A. Agardh) Grunow in Van Heurck 1881] [<i>Synedra tabulata</i> v. <i>obtusa</i> (Pantoscek) Hustedt 1932] [<i>Fragilaria fasciculata</i> (C.A. Agardh) Lange-Bertalot 1980 p.p.] [<i>Catacombas obtusa</i> (Pantoscek) Snoeijs in Snoeijs, Hällfors & Leskinen 1991] [<i>Synedra affinis</i> auct.]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
debilis Arnott in O'Meara 1873 [<i>Nitzschia tryblionella</i> v. <i>debilis</i> (Arnott) A. Mayer 1913]	-	-	-	-	-	-		-	-	-
gracilis W. Smith 1853 [<i>Nitzschia tryblionella</i> Hantzsch in Rabenhorst 1860]	-	-		-	-	-		-	-	
hungarica (Grunow) D.G. Mann in Round <i>et al.</i> 1990 [<i>Nitzschia hungarica</i> Grunow 1862]	-	-						-	-	-
levidensis W. Smith 1856 [<i>Nitzschia levidensis</i> (W. Smith) Grunow in Van Heurck 1881] [<i>Nitzschia tryblionella</i> v. <i>levidensis</i> (W. Smith) Grunow in Cleve & Grunow 1880]	-	-	-	-	-			-	-	-
littoralis (Grunow in Cleve & Grunow) D.G. Mann in Round <i>et al.</i> 1990 [<i>Nitzschia littoralis</i> Grunow in Cleve & Grunow 1880] [<i>Nitzschia tryblionella</i> v. <i>littoralis</i> (Grunow in Cleve & Grunow) Grunow in Van Heurck 1881]			-	-	-		-	-	-	-
marginulata (Grunow in Cleve & Möller) D.G. Mann in Round <i>et al.</i> 1990 [<i>Nitzschia marginulata</i> Grunow in Cleve & Möller]	-	-	-	-	-	-	-	-	-	
navicularis (Brébisson ex Kützing) Ralfs in Pritchard 1861 [<i>Surirella navicularis</i> Brébisson ex Kützing 1849] [<i>Nitzschia navicularis</i> (Brébisson ex Kützing) Grunow in Cleve & Grunow 1880]	-		-	-	-	-	-	-	-	-
plana (W. Smith) Pelletan 1889 [<i>Nitzschia plana</i> W. Smith 1853]	-	-	-	-	-	-	-	-	-	
punctata W. Smith 1853 [<i>Nitzschia punctata</i> (W. Smith) Grunow 1878] [? <i>Nitzschia compressa</i> (J.W. Bailey) Boyer 1916]				-	-			-	-	-
salinarum (Grunow in Cleve & Grunow) Pelletan 1889 [<i>Nitzschia tryblionella</i> v. <i>salinarum</i> Grunow in Cleve & Grunow 1880]	-	-		-	-	-	-	-	-	-
victoriae Grunow 1862 [<i>Nitzschia tryblionella</i> v. <i>victoriae</i> (Grunow) Grunow in Cleve & Grunow 1880]	-	-	-	-	-	-		-	-	-

Class **Tribophyceae** (Xanthophyceae, Heterokontae) – Yellow-green algae

Order RHIZOCHLORIDALES (CHLAMYDOMYXALES)

Rhizochloris Pascher 1931

nodulariae Bursa 1953

solitaria Bursa 1968

-	-	+	-	-	-	-	-	-	-	-
-	-	+	-	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Order MISCHOCOCCALES (HETEROCOCCALES)										
Goniochloris Geitler 1928										
<i>mutica</i> (A. Braun) Fott 1960	–	–	f	–	–	–	–	–	–	f
[<i>Polyedrium muticum</i> A. Braun 1855]										
[<i>Tetraëdron muticum</i> (A. Braun) Hansgirg 1888]										
[<i>Pseudostaurastrum muticum</i> (A. Braun) Bourrelly 1951]										
Ophiocytium Nägeli 1849										
sp.	–	–	–	–	–	–	+	–	–	–
Pseudogoniochloris Krienitz <i>et al.</i> 1993										
<i>tripus</i> (Pascher) Krienitz <i>et al.</i> 1993	–	–	f	–	–	–	f	–	–	f
[<i>Goniochloris tripus</i> Pascher 1939]										
[<i>Goniochloris fallax</i> Fott]										
[<i>Tetraëdron trigonum</i> auct.]										
[non <i>Tetraëdron trigonum</i> (Nägeli) Hansgirg]										
Pseudostaurastrum (Hansgirg 1888) R. Chodat 1921										
<i>enorme</i> (Ralfs) R. Chodat 1921	–	–	f	–	–	–	–	–	–	–
[<i>Staurastrum enorme</i> Ralfs 1848]										
[<i>Tetraëdron enorme</i> (Ralfs) Hansgirg 1888]										
<i>gracile</i> (Reinsch) R. Chodat 1921 (2)	–	–	f	–	–	–	–	–	–	–
[<i>Tetraëdron trigonum</i> v. <i>gracile</i> Reinsch]										
[<i>Tetraëdron gracile</i> (Reinsch) Hansgirg]										
<i>hastatum</i> (Reinsch) R. Chodat 1921	–	–	f	–	–	–	–	–	–	–
[<i>Polyedrium tetraëdricum hastatum</i> Reinsch 1867]										
[<i>Tetraëdron hastatum</i> (Reinsch) Hansgirg]										
<i>limneticum</i> (Borge) R. Chodat	–	–	f	–	–	–	f	–	–	–
[<i>Tetraëdron limneticum</i> Borge 1900]										
<i>Tetraëdron planctonicum</i> G.M. Smith 1916 (88)	–	–	–	–	–	–	f	–	–	–
<i>Tetraëdriella</i> Pascher 1930										
<i>jovetii</i> (Bourrelly) Bourrelly ex Krienitz & Heynig 1984	–	–	–	–	–	–	f	–	–	–
[<i>Pseudostaurastrum jovetii</i> Bourrelly 1951]										
Order TRIBONEMATALES										
<i>Tribonema</i> Derbès & Solier 1856										
<i>affine</i> (G.S. West) G.S. West	–	–	–	–	–	–	lf	–	–	–
[<i>Conferva affinis</i> G.S. West]										
<i>viride</i> Pascher	–	–	–	–	–	–	lf	–	–	–
sp.	–	–	–	–	–	–	lf	–	–	lf

Class Eustigmatophyceae

Order EUSTIGMATALES (89)

Class Raphidophyceae (Chloromonadophyceae)

Order CHATTONELLALES (90)

Chattonella Biecheler 1936

subsalsa Biecheler 1936

sp.

Fibrocapsa Toriumi & Takano 1973

japonica Toriumi & Takano 1973

Heterosigma Hada 1968

akashiwo (Hada) Hada 1968 (?)

Olisthodiscus N. Carter 1937

luteus N. Carter 1937

+	-	-	-	-	-	-	-	-	-
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Order RAPHIDOMONADALES

Gonyostomum Diesing 1866

semen (Ehrenberg) Diesing 1866

sp.

Vacuolaria Cienkowski 1870

sp.

-	-	-	-	-	-	-	f	-	-
-	-	-	-	-	-	-	f	-	-
-	-	-	-	-	-	-	f	-	-

Division EUGLENOPHYTA

Class Euglenophyceae – Euglenoids

Order EUGLENALES

**Astasia* Dujardin 1841 *nom. cons.*

**klebsii* Lemmermann 1910

*sp.

Colacium Ehrenberg 1838

arbuscula Stein 1878

[*Colacium vesiculosum* f. *arbuscula* (Stein) Huber-Pestalozzi 1955]

vesiculosum Ehrenberg 1838

sp.

Euglena Ehrenberg 1838

acus Ehrenberg 1830

allorgei Deflandre

hemichromata Skuja 1948

klebsii (Lemmermann) Mainx 1927–1928

[*Euglena intermedia* v. *klebsii* Lemmermann 1910]

-	-	+	-	-	-	-	-	-	-
-	-	-	-	-	-	-	+	-	-
-	-	-	-	-	-	-	f	-	-
-	f	f	-	-	-	-	f	-	f
-	+	+	+	+	-	+	+	-	+
f	f	f	-	-	f	f	-	-	f
-	-	-	-	-	-	-	f	-	-
-	-	f	-	-	-	-	-	-	-
-	-	f	f	-	-	-	-	-	-



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
deflandrei (Roll) Deflandre 1930 [<i>Trachelomonas deflandrei</i> Roll 1928]	-	-	-	-	-	-	f	-	-	-
Trachelomonas Ehrenberg <i>emend.</i> Deflandre 1926										
armata (Ehrenberg) Stein 1878 [<i>Chaetotyphla armata</i> Ehrenberg 1838]	-	-	f	-	-	-	-	-	-	-
hispida (Perty) Stein 1878 <i>emend.</i> Deflandre [<i>Chonemonas hispida</i> Perty 1852]	-	-	f	-	-	-	f	-	f	f
planctonica Swirenko	-	-	-	-	-	-	f	-	-	-
volvocina Ehrenberg 1838	-	-	-	-	-	-	f	-	-	f
sp.	-	f	-	f	-	-	f	-	f	f
Order SPHENOMONADALES										
* Anisonema Dujardin 1841 <i>nom. cons.</i>										
* multicostatum Möbius 1888	+	-	-	-	-	-	-	-	-	-
* prosgobium Skuja 1939	+	-	-	-	-	+	+	-	-	-
* sp.	-	-	-	-	-	-	+	-	-	+
* Petalomonas Stein 1859										
* minuta Hollande 1942	+	-	-	-	-	-	+	-	-	-
* pusilla Skuja 1948	-	-	-	-	-	-	+	-	-	-
* steinii Klebs 1892	-	-	?	-	-	-	-	-	-	-
* sp.	-	-	-	-	-	-	+	-	-	-
* Pseudoperanema Christen 1962 (ICBN) [* <i>Peranema</i> Dujardin 1841 (ICZN)] [non <i>Peranema</i> D. Don 1825 (Pteridophyta, Dryopteridaceae)]										
* trichophorum (Ehrenberg) Christen 1962 [<i>Trachelius ? trichophorum</i> Ehrenberg 1838] [<i>Peranema trichophorum</i> (Ehrenberg) Stein 1878 (ICZN)]	-	-	-	-	-	-	+	-	-	-
Division CHLOROPHYTA										
Class Pedinophyceae (Loxophyceae)										
Order PEDINOMONADALES										
Monomastix Scherffel 1912 (15)										
sp.	-	-	-	-	-	-	f	-	-	-
Pedinomonas Korshikov 1923										
sp.	-	-	-	-	-	-	+	-	-	-
Resultor Moestrup 1991										
mikron (Throndsen) Moestrup 1991 [<i>Pedinomonas mikron</i> Throndsen 1969]	+	-	-	-	-	-	+	-	-	-

Class Prasinophyceae (Micromonadophyceae)

Order MAMIELLALES

Dolichomastix Manton 1977

lepidota Manton 1977

nummulifera Manton 1977

Mamiella Moestrup 1984

gilva (Parke & Rayns) Moestrup 1984

[*Nephroselmis gilva* Parke & Rayns 1964]

Mantoniella Desikachary 1972

squamata (Manton & Parke) Desikachary 1972

[*Micromonas squamata* Manton & Parke 1960]

Micromonas Manton & Parke 1960 (15)

pusilla (Butcher) Manton & Parke 1960

[*Chromulina pusilla* Butcher 1952]

Order CHLORODENDRALES

Cymbomonas Schiller 1913

tetramitiformis Schiller 1913

Halosphaera Schmitz 1878

minor Ostenfeld 1899

viridis Schmitz 1878

sp.

Nephroselmis F. Stein 1878

minuta (N. Carter) Butcher 1959

[*Heteromastix minuta* N. Carter 1937]

olivacea F. Stein 1878 *emend.* Moestrup & Ettl 1979

[*Heteromastix angulata* Korshikov 1923]

pyriformis (N. Carter) Ettl 1982

[*Bipedinomonas pyriformis* N. Carter 1937]

[*Anisomonas longifilis* Butcher 1959]

[*Heteromastix longifilis* (Butcher) Rayns *in* Parke & Dixon 1964]

rotunda (N. Carter) Fott 1971

[*Bipedinomonas rotunda* N. Carter 1937]

sp.

Pachysphaera Ostenfeld *in* Knudsen & Ostenfeld 1899

[*Tasmanites* E.T. Newton 1875]

pelagica Ostenfeld *in* Knudsen & Ostenfeld 1899

sp.

Prasinocladus Kuckuck 1894

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>Dolichomastix lepidota</i>	+	-	-	-	-	-	+	-	-	-
<i>Dolichomastix nummulifera</i>	+	-	-	-	-	-	+	-	-	+
<i>Mamiella gilva</i>	+	-	-	-	-	-	-	-	-	-
<i>Mantoniella squamata</i>	+	+	+	+	+	-	+	-	+	+
<i>Micromonas pusilla</i>	+	+	+	+	+	-	+	-	-	+
<i>Cymbomonas tetramitiformis</i>	+	-	-	-	-	-	-	-	-	-
<i>Halosphaera minor</i>	+	-	-	-	-	-	-	-	-	-
<i>Halosphaera viridis</i>	+	?	?	-	-	-	-	-	-	-
<i>Halosphaera</i> sp.	+	-	-	-	-	-	-	-	-	-
<i>Nephroselmis minuta</i>	+	-	-	-	-	-	+	-	-	-
<i>Nephroselmis olivacea</i>	-	-	-	-	-	-	f	-	-	-
<i>Nephroselmis pyriformis</i>	+	-	+	-	-	-	+	-	+	+
<i>Nephroselmis rotunda</i>	+	-	-	-	-	-	-	-	-	-
<i>Pachysphaera</i> sp.	-	-	-	-	-	-	+	-	+	+
<i>Pachysphaera pelagica</i>	-	-	+	-	-	-	-	-	-	-
<i>Prasinocladus</i> sp.	+	-	-	-	-	-	-	+	+	-



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
marinus (Cienkowski) Wærn 1952 [<i>Chlorangium marinum</i> Cienkowski 1881] [<i>Prasinocladus lubricus</i> Kuckuck 1894] [<i>Tetraselmis marina</i> (Cienkowski) Norris, Hori & Chihara 1980]		-	-	-	-	-	-	-	-	-
Pseudoscourfieldia Manton 1975										
marina (Thronsdén) Manton 1975 [<i>Scourfieldia marina</i> Thronsdén 1969]	+	-	-	-	+	-	+	+	+	-
Pterosperma Pouchet 1893										
cristatum Schiller 1925	+	-	-	-	-	-	+	-	-	-
vanhoeffenii (E. Jørgensen) Ostenfeld in Knudsen & Ostenfeld 1899 [<i>Pterosphaera vanhoeffenii</i> E. Jørgensen 1900]	+	-	-	-	-	-	-	-	-	-
Pyramimonas Schmarda 1850 (95, 96)										
cirolanae Pennick 1982	+	-	-	-	-	-	-	-	-	-
cordata McFadden in McFadden, Hill & Wetherbee 1986	+	-	-	-	-	-	-	-	-	-
disomata McFadden, Hill & Wetherbee 1986 [<i>Pyramimonas disomata</i> Butcher 1959 <i>nom. inval.</i>]	+	-	-	-	-	-	-	-	-	-
gelidicola McFadden, Moestrup & Wetherbee 1982 <i>aff.</i>	c	-	-	-	-	-	-	-	-	-
grossii Parke 1949 <i>emend.</i> Manton 1969	+	+	+	+	+	-	+	-	+	+
longicauda Van Meel 1969 <i>emend.</i> Inouye, Hori & Chihara 1984 [<i>Pyramimonas ostendensis</i> Van Meel 1969]	+	+	+	+	+	-	+	-	+	+
mantoniae Moestrup & Hill 1993	+	-	-	-	-	-	-	-	-	-
nansenii Braarud 1935 <i>emend.</i> Thomsen 1988	c	-	-	-	-	-	-	-	-	-
norrisii Sym & Pienaar 1991	+	-	-	-	-	-	-	-	-	-
obovata N. Carter 1937	+	-	-	-	-	-	-	-	-	-
octopus Moestrup & Aa. Kristiansen in Moestrup, Hori & Kristiansen 1987		-	-	-	-	-	-	-	-	-
orientalis McFadden, Hill & Wetherbee 1986 [<i>Pyramimonas orientalis</i> Butcher 1959 <i>nom. inval.</i>]	+	+	-	-	-	-	+	-	-	-
pseudoparkeae Pienaar & Aken 1985 <i>aff.</i>	-	-	-	-	-	-	+	-	-	-
virginica Pennick 1977	?	+	+	+	+	-	+	+	+	+
sp. (99)	+	+	+	+	+	+	+	+	+	+
Scourfieldia G.S. West 1912										
complanata G.S. West 1912	-	-	-	-	-	-	-	-	-	f
Tetraselmis F. Stein 1878 (96)										
convolutae (Parke & Manton) Norris, Hori & Chihara 1980 [<i>Platymonas convolutae</i> Parke & Manton 1967]	?	-	-	-	-	-	-	-	-	-
cordiformis (H.J. Carter) F. Stein 1878 [<i>Cryptoglana cordiformis</i> H.J. Carter 1859] [<i>Carteria cordiformis</i> (H.J. Carter) Dill 1895]	+	+	+	+	+	-	+	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>gracilis</i> (Kylin) Butcher 1959 [<i>Platymonas gracilis</i> Kylin 1935]	+	-	-	-	-	-	-	-	-	-
<i>suecica</i> (Kylin) Butcher 1959 [<i>Platymonas suecica</i> Kylin 1935]	+	-	-	-	-	-	-	-	-	-
<i>tetrathele</i> (G.S. West) Butcher 1959 [<i>Platymonas tetrathele</i> G.S. West 1916]	?	-	-	-	-	-	-	-	-	-

Class Charophyceae

Order KLEBSORMIDIALES

Elakatothrix Wille 1898

gelatinosa Wille 1898

genevensis (Reverdin) Hindák

[*Elakatothrix lacustris* Korshikov]

[*Ankistrodesmus lacustris* (Chodat) Ostenfeld]

sp.

Klebsormidium Silva, Mattox & Blackwell 1972

flaccidum (Kützing) Silva, Mattox & Blackwell 1972

[*Hormidium flaccidum* Kützing 1845]

[*Chlorhormidium flaccidum* (Kützing) Fott 1960]

Koliella Hindák 1963

longiseta Hindák

f. *longiseta*

f. *tenuis* Nygaard

setiformis (Nygaard) Nygaard 1979

[*Ankistrodesmus falcatus* v. *acicularis* (A. Braun)

G.S. West 1904 *sensu* Brunnthaler 1915]

spiculiformis (Vischer) Hindák

spiralis Kuosa 1988

sp.

Raphidonema Lagerheim 1892

cryophilum Chodat 1925 (2, 4, 66)

[*Raphidium nivale* Chodat]

[*Ankistrodesmus nivalis* (Chodat) Brunnthaler *in* Pascher 1915]

[non *Raphidonema nivale* Lagerheim 1892]

Stichococcus Nägeli 1849

bacillaris Nägeli 1849

minor Nägeli 1849

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>gelatinosa</i> Wille 1898	-	-	-	-	-	-	f	-	-	-
<i>genevensis</i> (Reverdin) Hindák	-	-	-	-	-	-	f	-	-	-
sp.	-	-	-	-	-	-	-	-	-	+
<i>flaccidum</i> (Kützing) Silva, Mattox & Blackwell 1972	-	-	-	-	-	-	c	-	-	-
f. <i>longiseta</i>	-	-	f	-	-	-	+	-	-	+
f. <i>tenuis</i> Nygaard	-	-	-	-	-	-	+	-	-	-
<i>setiformis</i> (Nygaard) Nygaard 1979	-	-	-	-	-	-	+	-	-	-
<i>spiculiformis</i> (Vischer) Hindák	-	f	-	-	-	-	+	+	+	-
<i>spiralis</i> Kuosa 1988	-	-	f	-	-	-	+	-	+	-
sp.	-	+	-	-	-	-	-	-	-	-
<i>cryophilum</i> Chodat 1925 (2, 4, 66)	-	-	+	+	-	-	-	-	-	-
<i>Stichococcus bacillaris</i> Nägeli 1849	-	-	+	-	-	-	-	-	-	-
<i>Stichococcus minor</i> Nägeli 1849	-	-	+	-	-	-	-	-	-	-



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Order ZYGNEMATALES										
Arthrodesmus Ehrenberg ex Ralfs 1848										
<i>hexagonus</i> Boldt 1885	f	-	-	-	-	-	-	-	-	-
<i>incus</i> (Brébisson) Hassall ex Ralfs 1848	-	-	-	-	-	-	f	-	-	-
[<i>Cosmarium incus</i> Brébisson 1839]										
Closterium Nitzsch ex Ralfs 1848										
<i>acerosum</i> (Schrank) Ehrenberg ex Ralfs 1848	-	-	f	-	-	f	-	-	-	-
[<i>Vibrio acerosus</i> Schrank 1803]										
<i>aciculare</i> T. West 1860	-	-	f	-	-	f	f	-	-	+
<i>acutum</i> Brébisson in Ralfs 1848										
v. <i>acutum</i>	-	-	f	-	-	-	f	-	-	-
v. <i>variabile</i> (Lemmermann) W. Krieger 1935	-	-	f	-	-	-	f	-	f	+
[<i>Closterium pseudospirotaenium</i> v. <i>variabile</i> Lemmermann 1896]										
<i>ceratium</i> Perty 1852	-	-	f	-	-	-	-	-	-	-
<i>cornu</i> Ehrenberg ex Ralfs 1848	-	-	f	-	-	-	-	-	-	-
<i>costatum</i> Corda ex Ralfs 1848	-	-	f	-	-	-	-	-	-	-
<i>dianae</i> Ehrenberg ex Ralfs 1848	-	-	f	-	-	f	-	-	-	-
<i>ehrenbergii</i> Meneghini ex Ralfs 1848	-	-	f	-	-	?	f	-	-	-
<i>gracile</i> Brébisson ex Ralfs 1848	-	-	f	-	-	-	-	-	-	-
<i>kuetzingii</i> Brébisson 1856	-	-	-	-	-	-	f	-	-	-
<i>lanceolatum</i> Kützing ex Ralfs 1848	-	-	-	-	-	f	-	-	-	-
<i>lineatum</i> Ehrenberg ex Ralfs 1848	-	-	f	-	-	-	-	-	-	-
<i>lunula</i> (O.F. Müller) Nitzsch ex Ralfs 1848	-	-	f	-	-	-	-	-	-	-
[<i>Vibrio lunula</i> O.F. Müller 1784]										
<i>moniliferum</i> (Bory) Ehrenberg ex Ralfs 1848	f	f	f	-	-	f	f	-	-	-
[<i>Lunulina monilifera</i> Bory 1824]										
<i>parvulum</i> Nägeli 1849	-	-	f	-	-	f	f	-	-	-
<i>pronum</i> Brébisson 1856	-	-	-	-	-	-	f	-	-	-
<i>setaceum</i> Ehrenberg ex Ralfs 1848	-	-	f	-	-	-	f	-	-	-
<i>strigosum</i> Brébisson 1856	-	-	f	-	-	-	-	-	-	-
<i>tumidulum</i> Gay 1884	-	-	-	-	-	f	-	-	-	-
sp.	f	-	f	-	-	-	f	-	-	+
Cosmarium Corda ex Ralfs 1848										
<i>bioculatum</i> Brébisson ex Ralfs 1848	-	-	-	-	-	-	f	-	-	-
<i>botrytis</i> Meneghini ex Ralfs 1848	-	-	-	-	-	f	-	-	-	-
<i>dentiferum</i> Corda ex Nordstedt 1888	-	-	-	-	-	-	f	-	-	-
<i>granatum</i> Brébisson ex Ralfs 1848	-	-	-	-	-	f	-	-	-	-
<i>impersulum</i> Eilfvig 1881	-	-	-	-	-	f	-	-	-	-
<i>laeve</i> Rabenhorst 1868	-	f	-	-	-	f	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>cuspidatus</i> (Brébisson ex Ralfs) Teiling 1948 [<i>Staurastrum cuspidatum</i> Brébisson ex Ralfs 1848]	-	-	-	-	-	-	f	-	-	-
<i>dejectus</i> (Brébisson ex Ralfs) Teiling 1948 [<i>Staurastrum dejectum</i> Brébisson ex Ralfs 1848]	-	-	-	-	-	-	f	-	-	-
v. <i>dejectus</i>	-	-	f	-	-	-	-	-	-	-
v. <i>apiculatus</i> (Brébisson) Teiling 1967 [<i>Staurastrum apiculatum</i> Brébisson 1856]	-	-	f	-	-	-	-	-	-	-
<i>Zygnema</i> C.A. Agardh 1824 <i>nom. cons.</i> sp. (97)	-	-	lf	-	-	lf	lf	-	lf	-

Class Chlorophyceae – Green algae

Order VOLVOCALES (incl. TETRASPORALES)

Asteromonas Artari 1913

gracilis Artari 1913

+ - - - - - - - - -

Brachiomonas Bohlin 1897

submarina Bohlin 1897 (22)

[*Chloraster* (?) n. sp.? Levander 1894]

+ - - - + - + - - -

Carteria Diesing 1866 *emend.* Francé 1893

sp. (95, 96, 99)

+ + + + - - + - - -

Chlamydocapsa Fott 1972

ampla (Kützing) Fott 1972

[*Gloeocapsa ampla* Kützing 1843]

[*Gloeocystis ampla* (Kützing) Rabenhorst]

- - f - - - f - - -

planctonica (W. & G.S. West) Fott 1972

[*Gloeocystis gigas* v. *planctonica* W. & G.S. West 1906]

[*Gloeocystis planktonica* (W. & G.S. West) Lemmermann 1915]

- - f - - - f - - f

Chlamydomonas Ehrenberg 1833

braunii Goroschankin 1890

- - f - - - - - - -

dinobryonis G.M. Smith 1920

- - - - - - f - - -

magnusii Reinke 1889 (2)

+ - - - - - - - - -

marina Cohn 1865 (2, 4)

[*Sphaerella marina* (Cohn) Lemmermann 1902]

- - - - - c - - - -

mikroplankton Reinke 1898 (2, 4)

+ - - - - - - - - -

pulsatilla Wollenweber 1926 (22)

- - - - - - + - - -

sp. (99)

+ - - + - + + + + +

Chlorangiella G.B. De Toni 1889

pygmaea (Ehrenberg) Silva 1959

[*Stentor pygmaeus* Ehrenberg 1831]

[*Colacium stentorium* Ehrenberg 1838]

[*Chlorangium stentorium* (Ehrenberg) Stein 1878]

- - f - - - f - - -



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Chlorogonium Ehrenberg 1830										
<i>maximum</i> Skuja 1939	–	–	f	–	–	–	–	–	–	–
sp.	–	–	–	–	–	–	–	–	–	+
Dysmorphococcus Takeda 1916										
<i>feldmannii</i> (Bourrelly) Ettl 1983	–	–	f	–	–	–	–	–	–	–
[<i>Thorakomonas feldmannii</i> Bourrelly 1951]										
Eudorina Ehrenberg 1831										
<i>elegans</i> Ehrenberg 1831	–	–	f	–	–	f	f	–	–	f
<i>unicocca</i> G.M. Smith 1931	–	–	–	–	–	–	f	–	–	–
Gonium O.F. Müller 1773										
<i>pectorale</i> O.F. Müller 1773	–	f	f	–	–	f	f	–	–	–
<i>sociale</i> (Dujardin) Warming 1876	–	f	f	–	–	–	f	–	–	–
[<i>Tetramonas socialis</i> Dujardin 1841]										
Hemitoma Skuja 1939										
<i>maeandrocystis</i> Skuja 1939	–	–	–	–	–	–	–	–	–	+
Lobomonas Dangeard 1898										
<i>ampla</i> Pascher 1927	–	–	f	–	–	–	f	–	–	–
Pandorina Bory 1824										
<i>morum</i> (O.F. Müller) Bory 1824	–	–	f	f	–	f	f	–	–	–
[<i>Volvox morum</i> O.F. Müller 1773]										
Phacotus Perty 1852										
<i>lenticularis</i> (Ehrenberg) Stein 1878	f	–	f	–	–	–	–	–	–	–
* Polytoma Ehrenberg 1838										
* <i>papillatum</i> Pascher 1927	–	–	–	–	–	–	c	–	c	c
*sp.	–	–	–	–	–	–	–	–	+	–
* Polytomella Aragao 1910										
*sp.	–	–	–	–	–	–	–	–	–	c
Pseudosphaerocystis Woronichin 1931										
<i>lacustris</i> (Lemmermann) Nováková 1965	–	–	f	–	–	–	f	–	–	–
[<i>Tetraspora lacustris</i> Lemmermann 1898]										
[non <i>Tetraspora lacustris</i> Lemmermann 1915]										
[= <i>T. lemmermannii</i> Fott 1972]										
[<i>Pseudosphaerocystis planctonica</i> Woronichin 1931]										
[<i>Gemellcystis neglecta</i> Teiling 1946]										
[<i>Planktogloea lacustris</i> Skuja 1948]										
Pteromonas Seligo 1887										
<i>aculeata</i> Lemmermann 1900	–	–	f	–	–	–	–	–	–	–
Schizochlamys A. Braun 1849										
<i>gelatinosa</i> A. Braun 1849	–	–	f	–	–	–	–	–	–	–



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Spermatozopsis Korshikov 1913										
<i>exultans</i> Korshikov 1913	-	-	-	-	-	-	f	-	-	-
Sphaerellopsis Korshikov 1925										
sp.	-	-	?	?	?	-	-	-	-	-
Tetraspora Link 1809										
<i>lemmermannii</i> Fott 1972	-	-	-	-	-	-	f	-	-	-
<i>limnetica</i> W. & G.S. West 1912 (2, 4)	-	-	-	-	-	-	f	-	-	-
Volvox L. 1758 <i>emend.</i> Ehrenberg 1830										
<i>aureus</i> Ehrenberg 1830	-	f	-	-	-	-	f	-	-	-
<i>tertius</i> Meyer 1896	-	f	-	-	-	-	-	-	-	-
Order CHLOROCOCCALES										
Acanthosphaera Lemmermann 1898										
<i>zachariasii</i> Lemmermann 1898	-	-	f	-	-	-	-	-	-	-
Actinastrum Lagerheim 1882										
<i>fluviatile</i> (Schröder) Fott 1977 (2)	-	-	f	-	-	-	-	-	-	-
[<i>Actinastrum hantzschii</i> v. <i>fluviatile</i> Schröder 1899]										
<i>hantzschii</i> Lagerheim 1882	-	fe	f	-	f	f	f	-	-	-
Ankistrodesmus Corda 1838										
<i>falcatus</i> (Corda) Ralfs 1848	f	f	f	f	f	f	f	-	f	+
[<i>Micrasterias falcata</i> Corda 1835]										
[<i>Ankistrodesmus biplex</i> (Reinsch) G.S. West 1904]										
Ankyra Fott 1957										
<i>judayi</i> (G.M. Smith) Fott 1957	-	-	-	-	-	-	f	-	-	-
[<i>Schroederia judayi</i> G.M. Smith 1916]										
[<i>Lambertia judayi</i> (G.M. Smith) Korshikov 1953]										
<i>lanceolata</i> (Korshikov) Fott 1957	-	-	-	-	-	-	f	-	-	-
[<i>Lambertia lanceolata</i> Korshikov 1953]										
[<i>Lambertia spatulifera</i> Korshikov 1953]										
[<i>Ankyra spatulifera</i> (Korshikov) Fott 1957]										
Botryococcus Kützing 1849										
<i>braunii</i> Kützing 1849	f	f	f	-	+	+	+	-	+	+
sp.	-	+	-	-	-	-	-	-	-	-
Botryosphaerella Silva 1970										
<i>sudetica</i> (Lemmermann) Silva 1970	-	-	-	-	-	-	f	-	-	-
[<i>Botryococcus sudeticus</i> Lemmermann 1896]										
[<i>Botryosphaera sudetica</i> (Lemmermann) Chodat 1922]										
Characium A. Braun <i>in</i> Kützing 1849										
<i>angustum</i> A. Braun 1855 (" <i>angustatum</i> " auct.) (4)	-	-	lf	-	-	-	-	-	-	-
sp.	-	?	?	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Chlorella Beijerinck 1890 <i>nom. cons.</i>										
vulgaris Beijerinck 1890	–	?	f	–	–	–	–	–	–	–
sp.	–	–	–	–	–	–	+	–	–	+
Chlorolobion Korshikov 1953										
braunii (Nägeli <i>in</i> Kützing) Komárek 1979	–	–	–	–	–	–	f	–	–	–
[Raphidium braunii Nägeli <i>in</i> Kützing 1849]										
[Ankistrodesmus braunii (Nägeli <i>in</i> Kützing) Collins 1912]										
[Monoraphidium braunii (Nägeli <i>in</i> Kützing) Komárková-Legnerová 1969]										
[Keratococcus braunii (Nägeli <i>in</i> Kützing) Hindák 1977]										
Choricystis (Skuja) Fott 1976										
[Coccomyxa sect. Choricystis Skuja 1948]										
chodatii (Jaag) Fott 1976 (4)	–	–	f	–	–	–	–	–	–	–
[Coccomyxa chodatii Jaag 1933]										
[Coccomyxa lacustris Chodat 1909]										
[non Dactylococcus lacustris Chodat 1897]										
[= Coccomyxa lacustris (Chodat) Pascher 1915]										
coccoides (Rodhe & Skuja) Fott 1976 (4)	–	–	f	–	–	–	–	–	–	–
[Coccomyxa coccoides Rodhe & Skuja <i>in</i> Skuja 1948]										
sp.	–	–	–	–	–	–	–	+	+	–
Closteriopsis Lemmermann 1899										
longissima (Lemmermann) Lemmermann 1899	–	–	f	–	–	–	f	–	–	–
[Closterium pronum v. longissima Lemmermann 1895]										
[Ankistrodesmus longissimus (Lemmermann) Wille 1910]										
Coelastrum Nägeli 1849										
astroideum De Notaris 1867	–	–	f	–	–	–	–	–	–	–
[?Coelastrum pseudomicroporum Korshikov 1953]										
cambricum Archer 1868 (2)	–	–	f	–	–	–	f	–	–	–
indicum Turner 1892 (4)	–	–	f	–	–	–	–	–	–	–
microporum Nägeli <i>in</i> A. Braun 1855	f	f	f	f	–	f	f	–	–	f
reticulatum (Dangeard) Senn 1899	–	f	f	–	–	–	f	–	–	–
[Hariotina reticulata Dangeard 1889]										
sphaericum Nägeli 1849	–	–	f	–	–	–	–	–	–	–
[Coelastrum cubicum Nägeli 1849]										
Coenocystis Korshikov 1953										
subcylindrica Korshikov 1953	–	–	f	–	–	–	–	–	–	–
Crucigenia Morren 1830										
fenestrata (Schmidle) Schmidle 1900	–	f	f	–	–	–	f	–	–	–
[Staurogenia fenestrata Schmidle 1897]										
quadrata Morren 1830 (2)	–	f	f	–	–	f	f	fe	–	f

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
tetrapedia (Kirchner) W. & G.S. West 1902	–	fe	f	–	–	f	f	+	f	f
[<i>Staurogenia tetrapedia</i> Kirchner 1880]										
[<i>Tetrapedia kirchneri</i> Lemmermann 1899]										
[<i>Lemmermannia tetrapedia</i> (Kirchner) Lemmermann 1904]										
Crucigeniella Lemmermann 1900										
apiculata (Lemmermann) Komárek 1974	–	–	f	–	–	–	–	–	–	–
[<i>Staurogenia apiculata</i> Lemmermann 1898]										
[<i>Crucigenia apiculata</i> (Lemmermann) Schmidle 1900]										
[<i>Tetrastrum apiculatum</i> (Lemmermann) Schmidle ex Brunthaler 1915]										
crucifera (Wolle) Komárek 1974	–	–	f	–	–	–	–	–	–	–
[<i>Staurogenia crucifera</i> Wolle 1877]										
[<i>Crucigenia cruciata</i> Schmidle 1900]										
[<i>Crucigenia crucifera</i> (Wolle) Collins 1909]										
[<i>Crucigenia reniforme</i> Swirenko 1926]										
lunaris Lemmermann 1900	–	?	f	–	–	–	–	–	–	–
[<i>Crucigenia lunaris</i> (Lemmermann) Wille 1911]										
rectangularis (Nägeli) Komárek 1974	–	–	f	–	–	f	f	–	–	f
[<i>Chloropodium rectangularis</i> Nägeli in litt. 1849]										
[<i>Crucigenia rectangularis</i> (Nägeli) Gay 1891]										
truncata (G.M. Smith) Komárek 1974	–	–	–	–	–	–	f	–	–	–
[<i>Crucigenia truncata</i> G.M. Smith 1920]										
Dactylosphaerium Steinecke 1916										
jurisii Hindák 1977	–	–	f	–	–	–	–	–	–	–
Desmodesmus (Chodat) An, Friedl & Hegewald 1999 (100)										
abundans (Kirchner) Hegewald 2000	f	–	?	–	–	–	f	–	–	–
[<i>Scenedesmus caudatus</i> f. <i>abundans</i> Kirchner in Cohn 1878]										
[<i>Scenedesmus quadricauda</i> f. <i>hyperabundans</i> Gutwinski 1890]										
[<i>Scenedesmus sempervirens</i> R. Chodat 1913]										
[<i>Scenedesmus gutwinskii</i> R. Chodat 1926]										
armatus (R. Chodat) Hegewald 2000										
[<i>Scenedesmus hystrix</i> v. <i>armatus</i> R. Chodat 1902]										
[<i>Scenedesmus armatus</i> (R. Chodat) R. Chodat 1913]										
[<i>Scenedesmus ellipsoideus</i> R. Chodat 1926]										
[<i>Scenedesmus helveticus</i> R. Chodat 1926]										
[? <i>Scenedesmus westii</i> (G.M. Smith) R. Chodat 1926]										
[<i>Scenedesmus decorus</i> Hortobágyi 1959]										
[<i>Scenedesmus armatus</i> v. <i>splendidus</i> Uherkovich 1968]										
[<i>Scenedesmus ellipsoideus</i> v. <i>symmetriocaudatus</i> Uherkovich 1968]										
[<i>Scenedesmus armatus</i> v. <i>semigranulatus</i> Uherkovich 1971]										
[<i>Scenedesmus quadricauda</i> auct.]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
denticulatus (Lagerheim 1882) An, Friedl & Hegewald 1999										
[<i>Scenedesmus denticulatus</i> Lagerheim 1882]										
v. denticulatus	–	f	f	–	–	f	f	–	–	f
v. fenestratus (Teiling) Hegewald 2000	–	–	–	–	–	–	f	–	–	–
[<i>Scenedesmus fenestratus</i> Teiling 1942]										
[<i>Scenedesmus arcuatus</i> f. <i>spinosus</i> Hortobágyi & Németh 1963]										
v. linearis (Hansgirg) Hegewald 2000	–	–	–	–	–	–	f	–	–	–
[<i>Scenedesmus denticulatus</i> v. <i>linearis</i> Hansgirg 1888]										
[<i>Scenedesmus longus</i> v. <i>brevispina</i> G.M. Smith 1916]										
[<i>Scenedesmus longus</i> v. <i>minutus</i> G.M. Smith 1916]										
[<i>Scenedesmus brevispina</i> (G.M. Smith) R. Chodat 1926]										
dispar (Brébisson) Hegewald 2000	–	f	f	–	–	–	–	–	–	f
[<i>Scenedesmus dispar</i> Brébisson 1856]										
[<i>Scenedesmus quadricauda</i> v. <i>dispar</i> (Brébisson) Brunnthaler 1913]										
[? <i>Scenedesmus longus</i> auct. <i>p.p.</i>]										
[non <i>Scenedesmus longus</i> Meyen 1829]										
hystrix (Lagerheim) Hegewald 2000	–	–	f	–	–	–	–	–	–	–
[<i>Scenedesmus hystrix</i> Lagerheim 1882]										
intermedius (R. Chodat) Hegewald 2000	–	–	f	–	–	+	+	–	+	+
[<i>Scenedesmus intermedius</i> R. Chodat 1926]										
lefevrei (Deflandre) An, Friedl & Hegewald 1999	–	–	–	–	–	–	f	–	–	–
[<i>Scenedesmus lefevrei</i> Deflandre 1924 (" <i>lefevrii</i> ")]										
maximus (W. & G.S. West) Hegewald 2000	–	–	f	–	–	–	f	–	–	f
[<i>Scenedesmus quadricauda</i> v. <i>maximus</i> W. & G.S. West 1895 (" <i>maximum</i> ")]										
[<i>Scenedesmus maximus</i> (W. & G.S. West) R. Chodat 1913]										
[<i>Scenedesmus westii</i> (G.M. Smith) R. Chodat 1926]										
[<i>Scenedesmus longus</i> auct.]										
[<i>Scenedesmus naegelii</i> auct.]										
[<i>Scenedesmus quadricauda</i> auct.]										
[? <i>Scenedesmus magnus</i> Meyen 1829]										
[? <i>Scenedesmus quadricauda</i> v. <i>setosus</i> (Kirchner) Hansgirg 1888]										
opoliensis (P. Richter) Hegewald 2000										
[<i>Scenedesmus opoliensis</i> P. Richter 1895]										
v. opoliensis	–	f	f	–	–	+	+	–	+	+
v. carinatus (Lemmermann) Hegewald 2000	–	–	–	–	–	–	+	–	–	–
[<i>Scenedesmus opoliensis</i> v. <i>carinatus</i> Lemmermann 1899]										
[<i>Scenedesmus carinatus</i> (Lemmermann) R. Chodat 1913]										
v. mononensis (R. Chodat) Hegewald 2000	–	–	–	–	–	–	+	–	–	–
[<i>Scenedesmus opoliensis</i> v. <i>mononensis</i> R. Chodat 1926]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
protuberans (Fritsch & Rich) Hegewald 2000 [<i>Scenedesmus protuberans</i> Fritsch & Rich 1929]	–	–	f	–	–	–	–	–	–	–
serratus (Corda) An, Friedl & Hegewald 1999 [<i>Arthrodesmus serratus</i> Corda 1839] [<i>Scenedesmus serratus</i> (Corda) Bohlin 1901] [<i>Scenedesmus arvernensis</i> R. & F. Chodat 1926]	–	–	f	–	–	–	–	–	–	–
spinosus (R. Chodat) Hegewald 2000 [<i>Scenedesmus spinosus</i> R. Chodat 1913]	f	–	f	–	–	+	+	–	+	–
subspicatus (R. Chodat) Hegewald & A. Schmidt <i>in</i> Hegewald 2000 [<i>Scenedesmus subspicatus</i> R. Chodat 1926]	–	f	?	–	–	+	+	–	–	–
Dicellula Swirenko 1926										
planctonica Swirenko 1926 [<i>Franceia tuberculata</i> G.M. Smith 1926]	–	–	f	–	–	–	–	–	–	–
Dictyosphaerium Nägeli 1849										
ehrenbergianum Nägeli 1849	–	f	f	–	–	f	f	–	–	+
elegans Bachmann 1913	–	–	f	–	–	–	f	–	–	f
elongatum Hindák 1977 [<i>Steiniella graevenitzii</i> forma <i>sensu</i> Skuja 1956]	–	–	–	–	–	f	–	–	–	–
pulchellum H.C. Wood 1872 (1874?) (101)	+	+	+	–	–	+	+	+	+	+
subsolitarium Van Goor 1924 [<i>Dictyosphaerium simplex</i> Skuja 1956] [<i>Dictyosphaerium primarium</i> Skuja 1964] [<i>Dictyosphaerium skujae</i> Philipose 1967]	–	–	+	–	–	–	+	–	–	–
tetrachotomum Printz 1914 (101)	–	–	–	–	–	?	+	–	–	–
sp.	+	+	–	–	–	–	–	+	–	+
Dimorphococcus A. Braun 1855										
lunatus A. Braun [<i>Dictyosphaerium reniforme</i> Bulnheim 1859]	–	–	f	–	–	–	f	–	–	–
Eresmosphaera De-Bary 1858 [<i>Chlorosphaera</i> Henfrey 1859]										
viridis De-Bary 1858 [<i>Chlorosphaera oliveri</i> Henfrey 1859]	–	–	f	–	–	–	–	–	–	–
Eutetramorus Walton 1918 [<i>Coenococcus</i> Korshikov 1953]										
fottii (Hindák) Komárek 1979 [<i>Coenococcus fottii</i> Hindák 1977] [<i>Coenochloris fottii</i> (Hindák) Tzarenko] [<i>Sphaerocystis schroeteri</i> auct.]	–	–	f	–	–	–	–	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
planctonicus (Korshikov) Bourrelly 1966 [<i>Coenococcus planctonicus</i> Korshikov 1953]	-	-	f	-	-	-	-	-	-	-
Franceia Lemmermann 1898 [<i>Bohlinia</i> Lemmermann 1899]										
armata (Lemmermann) Korshikov 1953 [<i>Golenkinia armata</i> Lemmermann 1898] [<i>Chodatella armata</i> (Lemmermann) Lemmermann 1898]	f	-	f	-	-	-	-	-	-	-
droescheri (Lemmermann) G.M. Smith 1933 [<i>Chodatella droescheri</i> Lemmermann 1900] [<i>Lagerheimia droescheri</i> (Lemmermann) Printz 1914]	-	-	f	-	-	f	-	-	-	-
echidna (Bohlin) Bourrelly 1948 [<i>Oocystis echidna</i> Bohlin 1897] [<i>Bohlinia echidna</i> (Bohlin) Lemmermann 1899] [<i>Chodatella echidna</i> (Bohlin) Chodat 1901] [<i>Lagerheimia echidna</i> (Bohlin) Wille 1909]	-	-	f	-	-	-	-	-	-	-
ovalis (Francé) Lemmermann 1898 [<i>Phythelios ovalis</i> Francé 1894]	-	-	f	-	-	-	-	-	-	-
Fusola Snow 1902 viridis Snow 1902 [<i>Elakatothrix viridis</i> (Snow) Printz 1914]	-	-	-	-	-	-	f	-	-	+
Golenkinia R. Chodat 1894 <i>emend.</i> Korshikov radiata R. Chodat 1894 [<i>Micractinium radiatum</i> (R. Chodat) Wille 1909]	f	f	f	f	f	f	f	-	-	f
sp.	-	-	-	-	-	-	f	-	-	-
Granulocystis Hindák 1977 sp.	-	-	+	-	-	-	-	-	-	-
Granulocystopsis Hindák 1977 pseudocoronata (Korshikov) Hindák 1977 [<i>Oocystis pseudocoronata</i> Korshikov 1939]	-	-	f	-	-	-	-	-	-	-
Hydrodictyon Roth 1800 reticulatum (L.) Lagerheim 1883 [<i>Conferva reticulata</i> L. 1763] [<i>Hydrodictyon utriculatum</i> Roth 1800]	-	-	+	-		-		-	-	-
Kirchneriella Schmidle 1893 contorta (Schmidle) Bohlin 1897 [<i>Kirchneriella obesa</i> v. <i>contorta</i> Schmidle 1894] [<i>Raphidocelis contorta</i> (Schmidle) Marvan, Komárek & Comas 1984]	-	-	f	-	-	-	f	fe	f	-
danubiana Hindák 1980 [<i>Raphidocelis danubiana</i> (Hindák) Marvan, Komárek & Comas 1984]	-	-	f	-	-	-	-	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>lunaris</i> (Kirchner) Möbius 1894 [<i>Raphidium convolutum</i> v. <i>lunare</i> Kirchner 1878]	–	–	f	–	–	f	f	–	–	–
<i>obesa</i> (W. West) Schmidle 1893 [<i>Selenastrum obesum</i> W. West 1892]	–	f	f	–	–	–	f	–	–	–
sp.	–	–	–	–	–	–	+	?	+	–
<i>Komarekia</i> Fott 1981 [<i>Hofmania</i> R. Chodat 1900] [non <i>Hofmannia</i> Heist. ex Fabr. 1759] [nec <i>Hoffmannia</i> Swartz 1788]										
<i>appendiculata</i> (R. Chodat) Fott 1981 [<i>Hofmania appendiculata</i> R. Chodat 1900] [<i>Crucigenia appendiculata</i> (R. Chodat) Schmidle 1900]	–	–	f	–	–	–	–	–	–	–
<i>Korshikoviella</i> Silva 1959 [<i>Lambertia</i> Korshikov 1953] [non <i>Lambertia</i> J.E. Smith 1798] [nec <i>Korsikovella</i> Valkanov 1964]										
<i>limnetica</i> (Lemmermann) Silva 1959 [<i>Characium limneticum</i> Lemmermann 1903] [<i>Lambertia limnetica</i> (Lemmermann) Korshikov 1953]	–	–	f	–	–	–	–	–	–	–
<i>Lagerheimia</i> R. Chodat 1895										
<i>chodatii</i> Bernard 1908 [<i>Bernardia chodatii</i> (Bernard) Playfair 1917] [<i>Chodatella chodatii</i> (Bernard) Ley 1948]	–	–	f	–	–	–	–	–	–	–
<i>ciliata</i> (Lagerheim) R. Chodat 1895 [<i>Oocystis ciliata</i> Lagerheim 1882] [<i>Chodatella ciliata</i> (Lagerheim) Lemmermann 1898]	–	–	f	–	–	–	–	–	–	–
<i>citriiformis</i> (Snow) Collins 1909 [<i>Chodatella citriiformis</i> Snow 1902]	–	f	f	–	–	f	–	–	–	–
<i>genevensis</i> (R. Chodat) R. Chodat 1895 [<i>Tetraceras genevensis</i> R. Chodat 1894] [<i>Lagerheimia subglobosa</i> Lemmermann 1898] [<i>Chodatella genevensis</i> (R. Chodat) Ley 1948]	–	–	f	–	–	–	f	–	–	–
<i>longiseta</i> (Lemmermann) Wille 1909 [<i>Chodatella longiseta</i> Lemmermann 1898]										
v. <i>longiseta</i>	–	–	f	–	–	–	f	–	–	–
v. <i>major</i> G.M. Smith 1920	–	–	–	–	–	–	f	–	–	–
<i>quadriseta</i> (Lemmermann) G.M. Smith 1926 [<i>Chodatella quadriseta</i> Lemmermann 1898]	–	–	f	–	–	–	–	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
subsalsa Lemmermann 1898 [<i>Chodatella subsalsa</i> (Lemmermann) Lemmermann 1898]	f	-	f	-	-	f	-	-	-	-
wratislaviensis Schröder 1897 [<i>Bernardia wratislaviensis</i> (Schröder) Playfair] [<i>Chodatella wratislaviensis</i> (Schröder) Ley 1948]	-	-	f	-	-	-	-	-	-	-
sp.	-	-	-	-	-	-	f	-	+	-
Micractinium Fresenius 1858 [<i>Richteriella</i> Lemmermann 1896] [<i>Errerella</i> Conrad 1913]										
pusillum Fresenius 1858 [<i>Golenkinia botryoides</i> Schmidle 1896] [<i>Richteriella globosa</i> Lemmermann 1897] [<i>Richteriella botryoides</i> (Schmidle) Lemmermann 1898] [<i>Tetrastrum multisetum</i> (Schmidle) Chodat 1902]	-	-	f	-	f	f	f	-	-	f
quadrisetum (Lemmermann) G.M. Smith 1916 [<i>Richteriella quadriseta</i> Lemmermann 1898]	-	-	f	-	-	-	-	-	-	-
Monoraphidium Komárková-Legnerová 1969										
arcuatum (Korshikov) Hindák 1970 [<i>Ankistrodesmus arcuatus</i> Korshikov]	-	-	f	-	-	-	f	-	-	-
contortum (Thuret in Brébisson) Komárková-Legnerová 1969 [<i>Ankistrodesmus contortus</i> Thuret in Brébisson 1856] [? <i>Dactylococcopsis raphidioides</i> Hansgirg 1888] [<i>Ankistrodesmus falcatus</i> v. <i>spirilliformis</i> G.S. West 1904] [? <i>Ankistrodesmus angustus</i> auct.] [? <i>Ankistrodesmus falcatus</i> auct.] [? <i>Ankistrodesmus spiralis</i> auct.]	+	+	+	+	+	+	+	+	+	+
convolutum (Corda) Komárková-Legnerová 1969 [<i>Ankistrodesmus convolutus</i> Corda 1838]	-	f	f	-	-	f	-	-	-	-
dybowski (Wołoszyńska) Hindák & Komárková-Legnerová 1969 [<i>Keratococcus dybowski</i> Wołoszyńska 1917]	-	-	-	-	-	-	f	-	-	-
griffithii (Berkeley) Komárková-Legnerová 1969 [<i>Closterium griffithii</i> Berkeley 1854] [<i>Raphidium aciculare</i> A. Braun 1855] [<i>Ankistrodesmus falcatus</i> v. <i>acicularis</i> (A. Braun) G.S. West 1904] [<i>Ankistrodesmus acicularis</i> (A. Braun) Korshikov 1953]	-	-	f	-	-	f	f	-	-	+
komarkovae Nygaard 1979 [<i>Monoraphidium setiforme</i> (Nygaard) Komárková-Legnerová 1969 <i>sine typo</i>] [<i>typus</i> = <i>Koliella setiformis</i> (Nygaard) Nygaard 1979]	-	-	f	-	-	-	f	f	f	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
v. angulosum	–	–	f	–	–	–	f	–	–	–
v. asperum (A. Braun) Sulek 1969	–	–	–	–	–	–	f	–	–	–
[<i>Pediastrum pertusum</i> v. <i>asperum</i> A. Braun 1855]										
[<i>Pediastrum duplex</i> v. <i>coronatum</i> Raciborski 1890]										
biradiatum Meyen 1829	–	–	f	–	–	–	f	–	–	–
boryanum (Turpin) Meneghini 1840										
[<i>Helierella boryana</i> Turpin 1828]										
[? <i>Pediastrum constrictum</i> Hassall 1845]										
[<i>Pediastrum granulatum</i> Kützing 1845]										
[<i>Pediastrum bidentulum</i> A. Braun 1855]										
[<i>Pediastrum boryanum</i> v. <i>granulatum</i> (Kützing) A. Braun]										
[? <i>Pediastrum boryanum</i> v. <i>rugulosum</i> G.S. West]										
v. boryanum	f	f	f	f	f	f	f	–	–	+
v. brevicorne A. Braun 1855	f	f	f	–	–	f	–	–	–	–
[<i>Pediastrum muticum</i> Kützing 1849 p.p.]										
[<i>Pediastrum boryanum</i> ssp. <i>longicorne</i> f. <i>granulatum</i> Raciborski 1890]										
[<i>Pediastrum boryanum</i> v. <i>brevicorne</i> f. <i>granulatum</i> (Raciborski) Parra 1979]										
v. cornutum (Raciborski) Sulek 1969	–	–	–	–	–	f	f	–	–	–
[<i>Pediastrum duplex</i> v. <i>cornutum</i> Raciborski 1890]										
[<i>Pediastrum cornutum</i> (Raciborski) Troitzkaja 1933]										
v. divergens Lemmermann 1901 (2)	–	f	–	–	–	–	–	–	–	–
v. longicorne Reinsch 1867	–	f	f	–	–	f	f	–	–	–
[<i>Pediastrum muticum</i> v. <i>longicorne</i> (Reinsch) Raciborski 1890]										
duplex Meyen 1829										
[<i>Pediastrum pertusum</i> Kützing 1845]										
[<i>Pediastrum duplex</i> v. <i>genuinum</i> A. Braun nom. illeg.]										
[<i>Pediastrum pertusum</i> v. <i>clathratum</i> A. Braun 1855]										
[<i>Pediastrum duplex</i> v. <i>clathratum</i> (A. Braun) Lagerheim 1883]										
[<i>Pediastrum duplex</i> v. <i>reticulatum</i> Lagerheim]										
[<i>Pediastrum limneticum</i> Thunmark 1945]										
v. duplex	f	f	f	–	–	f	f	–	–	+
v. asperum (A. Braun) Hansgirg 1886 (2)	–	–	–	–	–	–	f	–	–	–
v. gracillimum W. & G.S. West 1895 (2)	–	f	–	–	–	–	f	–	–	–
[<i>Pediastrum gracile</i> A. Braun 1855]										
[? <i>Pediastrum duplex</i> v. <i>genuinum</i> f. <i>gracilis</i> (A. Braun) Brunenthaler 1915]										
[<i>Pediastrum gracillimum</i> (W. & G.S. West) Thunmark 1945]										
v. pulchrum Lemmermann 1898 (2)	–	f	–	–	–	–	–	–	–	–
[<i>Pediastrum boryanum</i> v. <i>pulchrum</i> (Lemmermann) Abshagen 1908]										
v. rugulosum Raciborski 1890	–	–	f	–	–	–	f	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>pfitzeri</i> (Schröder) G.M. Smith 1920 [<i>Raphidium pfitzeri</i> Schröder 1902] [<i>Ankistrodesmus pfitzeri</i> (Schröder) G.S. West]	-	-	f	-	-	-	f	-	-	-
sp.	-	-	-	-	-	-	?	-	-	+
<i>Rayssiella</i> Edelstein & Prescott 1964										
<i>curvata</i> (Bohlin) Komárek 1974 [<i>Scenedesmus curvatus</i> Bohlin 1897] [<i>Schroederiella curvata</i> (Bohlin) Fott & Komárek 1960]	-	-	f	-	-	-	-	-	-	-
<i>Scenedesmus</i> Meyen 1829										
<i>aculeolatus</i> Reinsch 1877 (2, 103) [<i>Scenedesmus denticulatus</i> v. <i>linearis</i> Hansgirg 1886]	-	-	-	-	-	-	-	-	-	-
<i>acuminatus</i> (Lagerheim) R. Chodat 1902 [<i>Selenastrum acuminatum</i> Lagerheim in Wittrock & Nordstedt 1883] [<i>Scenedesmus acuminatus</i> v. <i>biseriatus</i> Reinhardt 1904 (1905)]	f	f	f	-	+	+	+	-	+	+
<i>acutiformis</i> Schröder 1897	f	-	f	-	-	-	C	-	-	-
<i>apiculatus</i> (W. & G.S. West) R. Chodat 1926 <i>nom. illeg.</i> (108) [non <i>Scenedesmus apiculatus</i> Corda in G.B. De Toni 1894] [<i>Scenedesmus alternans</i> v. <i>apiculata</i> W. & G.S. West 1894] [<i>Scenedesmus incrassatulus</i> Bohlin <i>sensu</i> Kuosa 1986]	-	-	f	-	-	-	f	-	-	-
<i>arcuatus</i> (Lemmermann) Lemmermann 1899 [<i>Scenedesmus bijugatus</i> v. <i>arcuatus</i> Lemmermann 1898] [<i>Scenedesmus alternans</i> v. <i>arcuatus</i> (Lemmermann) Fott & Komárek 1960]										
v. <i>arcuatus</i>	-	-	-	-	-	f	f	-	f	f
v. <i>platydiscus</i> G.M. Smith 1916 [<i>Scenedesmus platydiscus</i> (G.M. Smith) R. Chodat 1926] [<i>Scenedesmus alternans</i> v. <i>platydiscus</i> (G.M. Smith) Fott & Komárek 1960]	-	-	-	-	-	-	f	-	-	-
<i>caudato-aculeolatus</i> R. Chodat 1926 (104)	-	-	f	-	-	-	-	-	-	-
<i>costatus</i> Schmidle 1895 (4)	-	-	f	-	-	-	-	-	-	-
<i>ellipticus</i> Corda 1835 [<i>Scenedesmus quadricaudatus</i> v. <i>ecornis</i> Ehrenberg 1839] [<i>Scenedesmus bijugatus</i> v. <i>flexuosus</i> Lemmermann 1898] [<i>Scenedesmus ecornis</i> (Ehrenberg ex Ralfs) R. Chodat 1926] [<i>Scenedesmus bijuga</i> (" <i>bijugatus</i> ") auct. <i>p.p.</i> (?)] [<i>Scenedesmus linearis</i> Komárek 1974] etc. (105)	f	f	+	-	-	+	+	-	-	-
<i>granulatus</i> W. & G.S. West 1897	-	-	+	-	-	-	+	-	-	+
<i>incrassatulus</i> Bohlin 1897	-	-	-	-	-	-	f	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
obliquus (Turpin) Kützing 1833	-	f	f	-	+	+	+	-	+	+
[<i>Achnanthes obliqua</i> Turpin 1828]										
[<i>Achnanthes dimorpha</i> Turpin 1828]										
[<i>Scenedesmus acutus</i> Meyen 1829]										
[<i>Scenedesmus dimorphus</i> (Turpin) Kützing 1833]										
[<i>Scenedesmus antennatus</i> Brébisson in Ralfs 1848]										
[<i>Scenedesmus antennatus</i> v. <i>tetradesmiformis</i> Wołoszyńska 1917]										
[<i>Scenedesmus tetradesmiformis</i> (Wołoszyńska) R. Chodat 1926]										
[<i>Scenedesmus acutus</i> f. <i>alternans</i> Hortobágyi 1941]										
[<i>Scenedesmus acutus</i> f. <i>tetradesmiformis</i> (Wołoszyńska) Uherkovich 1966]										
[<i>Scenedesmus acutus</i> f. <i>costulatus</i> (R. Chodat) Uherkovich 1966]										
obtusus Meyen 1829 emend. Hegewald et al. 1988	-	-	f	-	-	-	f	-	-	-
[<i>Scenedesmus alternans</i> Reinsch 1867]										
[<i>Scenedesmus bijuga</i> v. <i>alternans</i> (Reinsch) Borge 1906]										
[<i>Steiniella graevenitzii</i> Bernard 1908]										
[<i>Scenedesmus arcuatus</i> v. <i>disjunctus</i> Borge 1923]										
[<i>Scenedesmus ovalternus</i> R. Chodat 1926 nom illeg.]										
[<i>Scenedesmus ovalternus</i> v. <i>graevenitzii</i> (Bernard) R. Chodat 1926]										
[<i>Scenedesmus platydiscus</i> v. <i>alternans</i> (Reinsch) R. Chodat 1926]										
[<i>Scenedesmus graevenitzii</i> (Bernard) Margalef 1956]										
[<i>Scenedesmus alternans</i> v. <i>prescottii</i> Fott & Komárek 1960]										
[<i>Scenedesmus obtusus</i> f. <i>alternans</i> (Reinsch) Compère 1976]										
[<i>Scenedesmus arcuatus</i> f. <i>prescottii</i> (Fott & Komárek) Kuosa 1988]										
[<i>Scenedesmus obtusus</i> v. <i>graevenitzii</i> (Bernard) Kuosa 1988] etc. (105)										
parvus (G.M. Smith) Bourrelly in Bourrelly & Manguin 1952	-	-	f	-	-	-	-	-	-	-
[<i>Scenedesmus bijuga</i> (v. <i>alternans</i>) f. <i>parvus</i> G.M. Smith 1916]										
[<i>Scenedesmus parvus</i> v. <i>granulatus</i> Bourrelly in Bourrelly & Manguin 1952]										
[<i>Scenedesmus intermedius</i> (v. <i>acaudatus</i>) f. <i>granulatus</i> Hortobágyi 1960]										
[<i>Scenedesmus papillosus</i> Pankow 1986] etc. (105)										
pectinatus Meyen 1829	-	-	f	-	-	-	+	-	-	-
[<i>Scenedesmus falcatus</i> R. Chodat 1894]										
[<i>Scenedesmus acuminatus</i> auct.]										
spicatus W. & G.S. West 1898 (2)	-	-	-	-	-	f	f	-	-	-
verrucosus Roll 1925	-	-	f	-	-	-	f	-	-	f
[<i>Scenedesmus bijugatus</i> v. <i>disciformis</i> R. Chodat 1902]										
[<i>Scenedesmus ecornis</i> v. <i>disciformis</i> (R. Chodat) R. Chodat 1926]										
[<i>Scenedesmus disciformis</i> (R. Chodat) Fott & Komárek 1960] etc. (105)										
sp.	+	+	+	-	-	-	+	-	+	+

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Schroederia Lemmermann 1898										
<i>setigera</i> (Schröder) Lemmermann 1898	–	–	f	–	–	f	f	–	–	–
[<i>Reinschiella setigera</i> Schröder 1897]										
[<i>Ankistrodesmus setigerus</i> (Schröder) G.S. West 1904]										
[<i>Characium setigerum</i> (Schröder) Bourrelly 1951]										
Selenastrum Reinsch 1867										
<i>bibraianum</i> Reinsch 1867	–	–	f	–	–	–	f	–	–	–
[<i>Ankistrodesmus bibraianus</i> (Reinsch) Korshikov 1953]										
<i>capricornutum</i> Printz 1914	–	–	–	–	–	–	f	–	–	f
<i>gracile</i> Reinsch 1867	–	–	f	–	–	–	–	–	–	–
[<i>Ankistrodesmus gracilis</i> (Reinsch) Korshikov 1953]										
<i>spinulosum</i> Nägeli 1849	–	–	f	–	–	–	f	–	–	–
Siderocelis (Naumann) Fott 1934										
<i>ornata</i> (Fott) Fott 1934	–	–	f	–	–	–	–	–	–	–
[<i>Oocystis ornata</i> Fott 1933]										
Siderocystopsis Swale 1964										
<i>fusca</i> (Korshikov) Swale 1964	–	–	f	–	–	–	–	–	–	–
[<i>Siderocystis fusca</i> Korshikov 1953]										
Sorastrum Kützing 1845										
<i>americanum</i> (Bohlin) Schmidle 1900	–	–	f	–	–	–	–	–	–	–
[<i>Selenosphaerium americanum</i> Bohlin 1897]										
Sphaerocystis R. Chodat 1897										
<i>planctonica</i> (Korshikov) Bourrelly 1966	–	–	f	–	–	–	–	–	–	–
[<i>Palmellocystis planctonica</i> Korshikov 1953]										
[<i>Gloeococcus schroeteri</i> (R. Chodat) Lemmermann <i>sensu</i> Skuja 1948]										
<i>schroeteri</i> R. Chodat 1897	–	f	f	–	–	–	f	–	+	+
[<i>Gloeococcus schroeteri</i> (R. Chodat) Lemmermann 1915]										
sp.	–	–	–	–	–	–	f	–	–	+
Tetrachlorella Korshikov 1939										
<i>alternans</i> (G.M. Smith) Korshikov 1939	–	–	f	–	–	–	–	–	–	–
[<i>Crucigenia alternans</i> G.M. Smith 1926]										
<i>coronata</i> (Korshikov) Korshikov 1953	–	–	f	–	–	–	–	–	–	–
[<i>Tetrachlorella alternans</i> f. <i>coronata</i> Korshikov 1939]										
<i>ornata</i> Korshikov 1953	–	–	f	–	–	–	–	–	–	–
Tetradesmus G.M. Smith 1913										
<i>wisconsinensis</i> G.M. Smith 1913	–	–	f	–	–	–	–	–	–	–
Tetraëdron Kützing 1845										
<i>caudatum</i> (Corda) Hansgirg 1888	–	–	f	–	–	f	f	–	–	–
[<i>Asteridium caudatum</i> Corda 1839]										
[<i>Tetraëdron caudatum</i> v. <i>incisum</i> Lagerheim 1883]										

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
<i>incus</i> (Teiling) G.M. Smith 1926 [<i>Tetraëdron regulare</i> v. <i>incus</i> Teiling 1912]	–	–	f	–	–	–	–	–	–	–
<i>longispinum</i> (Perty) Hansgirg <i>sensu</i> Gucunski 1973 (2)	–	–	f	–	–	–	–	–	–	–
<i>minimum</i> (A. Braun) Hansgirg 1888 [<i>Polyedrium minimum</i> A. Braun 1855] [<i>Tetraëdron quadratum</i> (Reinsch) Hansgirg 1889]	–	f	+	–	–	+	+	–	+	+
<i>triangulare</i> Korshikov 1953	–	–	f	–	–	–	–	–	–	–
sp.	–	f	–	–	–	–	–	–	–	–
<i>Tetrastrum</i> R. Chodat 1895										
<i>elegans</i> Playfair 1917	–	–	f	–	–	–	–	–	–	–
<i>staurogeniaeforme</i> (Schröder) Lemmermann 1900 [<i>Cohniella staurogenaeformis</i> Schröder 1897]	f	f	f	f	–	–	f	–	–	–
<i>triangulare</i> (R. Chodat) Komárek 1974 [<i>Staurogenia triangulare</i> R. Chodat 1900] [<i>Crucigenia quadrata</i> auct.]	–	f	f	–	–	–	f	–	–	–
<i>Treubaria</i> Bernard 1908										
<i>schmidlei</i> (Schröder) Fott & Kováčik 1975 [<i>Polyedrium schmidlei</i> Schröder 1898] [<i>Tetraedron schmidlei</i> (Schröder) Lemmermann 1903]	–	f	f	–	–	–	–	–	–	–
<i>setigera</i> (Archer) G.M. Smith 1933 [<i>Tetrapedia setigera</i> Archer 1872] [<i>Polyedrium trilobulatum</i> Reinsch 1888] [<i>Tetraëdron trilobulatum</i> (Reinsch) Hansgirg 1889]	–	–	–	–	–	–	f	–	–	–
<i>triappendiculata</i> Bernard 1908 [<i>Tetraedron triappendiculatum</i> (Bernard) Wille <i>in</i> Brunnthaler 1915]	–	–	f	–	–	–	f	–	–	–
<i>Trochiscia</i> Kützing 1845 (2)										
<i>brachiolata</i> (Möbius) Lemmermann 1903 (2) [<i>Xanthidium brachiolatum</i> Möbius 1887]	+	+	+	+	–	–	–	–	–	–
<i>clevei</i> Lemmermann 1903 (2) [<i>Xanthidium hystrix</i> P.T. Cleve 1900]	+	+	+	–	–	–	+	–	?	?
<i>multispinosa</i> (Möbius) Lemmermann 1903 (2) [<i>Xanthidium multispinosum</i> Möbius 1887]	+	+	+	–	–	–	–	–	–	–
<i>paucispinosa</i> (P.T. Cleve) Lemmermann 1903 (2) [<i>Xanthidium paucispinosum</i> P.T. Cleve 1900]	+	–	–	–	–	–	–	–	–	–
sp.	–	–	–	–	–	–	–	–	+	–
<i>Westella</i> De-Wildeman 1897										
<i>botryoides</i> (W. West) De-Wildeman 1897 [<i>Tetracoccus botryoides</i> W. West 1892]	–	–	f	–	–	–	f	–	–	f



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
Willea Schmidle 1900										
<i>irregularis</i> (Wille) Schmidle 1900 [<i>Crucigenia irregularis</i> Wille 1898]	-	-	f	-	-	-	-	-	-	-
Order ULOTRICHALES										
Ulothrix Kützing 1836 (1833) sp.	-	-	-	-	-	-	-	-		-
Order MICROSPORALES										
Catena R. Chodat 1900										
<i>viridis</i> R. Chodat 1900 (15)	-	-	f	-	-	-	-	-	-	-
Geminella Turpin 1828										
<i>mutabilis</i> (Nägeli) Wille 1909 [<i>Hormospora mutabilis</i> Nägeli]	-	-	f	-	-	-	-	-	-	-
Gloeotila Kützing 1843										
<i>coronata</i> R. Chodat (15)	-	-	f	-	-	-	-	-	-	-
<i>pelagica</i> (Nygaard) Skuja 1956 [<i>Ulothrix pelagica</i> Nygaard 1949]	-	-	-	-	-	-	-	-	-	f
Microspora Thuret 1850 <i>nom. cons.</i> sp.	-	-	f	-	-	-	f	-	-	-
Planctonema Schmidle 1903 (" <i>Planktonema</i> " auct.)										
<i>lauterbornii</i> Schmidle 1903 [<i>Binuclearia lauterbornii</i> (Schmidle) Proschkina-Lavrenko 1966]	+	+	+	+	+	+	+	+	+	+
Order OEDOGONIALES										
Oedogonium Link ex Hirn 1900 sp. (97)	-	-	-	-	-	-		-	-	-

Annex: Various non-photosynthetic protist groups

Phylum ZOOMASTIGOPHORA – Zooflagellates

Class Bicosoecidea

Order BICOSOECIDA (ICBN: BICOSOECALES)

**Bicosoeca* James-Clark 1867 ("*Bicoeca*")

**ainikkiae* Järnefelt 1956

[*Bicosoeca tubiformis* Skuja 1956]

**lacustris* James-Clark 1867

	-	-	-	-	-	-	f	-	-	+
	-	-	-	-	-	-	f	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* <i>maris</i> Picken 1941 [<i>Bicosoeca pocillum</i> Griessmann 1913] [non <i>Bicosoeca pocillum</i> Kent 1880] [<i>Bicosoeca griessmannii</i> Bourrelly 1951]	+	-	-	-	-	-	-	-	-	-
* <i>mignotii</i> Moestrup, Thomsen & Hibberd in Vørs 1992	-	-	-	-	-	-	+	-	-	-
* <i>ovata</i> Lemmermann 1914 [<i>Bicosoeca kepneri</i> v. <i>ovata</i> (Lemmermann) Bourrelly 1951]	-	f	-	-	-	f	-	-	-	+
* <i>petiolata</i> (Stein) E.G. Pringsheim 1946 [<i>Poteriodendron petiolatum</i> Stein 1878]	-	-	-	-	-	-	f	-	-	-
* <i>planctonica</i> Kisselew 1931 [<i>Bicosoeca annulata</i> Štolc 1887 (1888)] [<i>Bicosoeca multiannulata</i> Skuja 1948] [<i>Bicosoeca planctonica</i> v. <i>multiannulata</i> (Skuja) Bourrelly 1951]	-	-	-	-	-	-	f	-	f	f
* <i>sp.</i>	+	-	-	-	-	-	+	-	-	+
* <i>Cafeteria</i> Fenchel & Patterson 1988										
* <i>roenbergensis</i> Fenchel & Patterson 1988	+	-	-	-	-	-	+	-	-	-
* <i>Pseudobodo</i> Griessmann 1913										
* <i>tremulans</i> Griessmann 1913	+	-	-	-	-	-	-	-	-	-

Class Choanoflagellidea – Collar flagellates (ICBN: Craspedophyceae)

Order CHOANOFLAGELLIDA

Family CODOSIGIDAE

**Codosiga* James-Clark 1866 ("*Codonosiga*" auct.)

**botrytis* (Ehrenberg) Kent 1880
[*Epistylis botrytis* Ehrenberg 1838]

**sp.*

**Desmarella* Kent 1880

**moniliformis* Kent 1880

**sp.*

**Monosiga* Kent 1880

**baltica* Willén 1963

**micropelagica* Throndsen 1974 (4)

**ovata* Kent 1880

**sp.*

**Proterospongia* Kent 1880 ("*Protospongia*" auct.)

**dybsoeënsis* Grøntved 1956

Family SALPINGOECIDAE

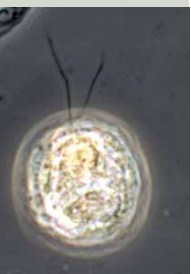
**Salpingoeca* James-Clark 1867

**aggregata* Valkanov 1970

	-	-	-	-	-	-	+	-	-	-
	-	-	-	-	-	-	+	-	-	-
	-	-	-	-	-	-	-	-	-	+
	+	-	-	-	-	-	-	-	-	-
	-	-	?	?	-	-	-	-	?	-
	+	+	-	+	-	-	+	-	+	+
	+	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	+	-	-	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* amphoridium James-Clark 1867 [<i>Salpingoeca ampullacea</i> Stein 1878] [<i>Salpingoeca ampulloides</i> Bicudo & Bicudo 1983]	+	-	-	-	-	-	+	-	-	-
* collaris Stokes 1894	-	-	-	-	-	-	+	-	-	-
* frequentissima (Zacharias) Lemmermann 1913 [<i>Diplosiga frequentissima</i> Zacharias 1894] [<i>Diplosigopsis frequentissima</i> (Zacharias) Lemmermann 1904]	-	-	-	-	-	-	f	-	-	-
* marina James-Clark 1867	+	-	-	-	-	-	+	-	-	-
* sp.	+	+	+	+	-	-	-	-	+	+
Family ACANTHOECIDAE										
* Acanthocorbis Hara & Takahashi 1984										
* apoda (Leadbeater) Hara & Takahashi 1984 [<i>Acanthoecopsis apoda</i> Leadbeater 1972]	+	-	-	-	-	-	w	-	+	-
* asymmetrica (Thomsen) Hara & Takahashi 1984 [<i>Acanthoecopsis asymmetrica</i> Thomsen 1979] [<i>Acanthoecopsis spiculifera</i> sensu Thomsen 1977]	+	-	-	-	-	-	+	-	-	+
* haurakiana Thomsen in Thomsen, Buck & Chavez 1991	-	-	-	-	-	-	+	-	-	+
* unguiculata (Thomsen) Hara & Takahashi 1984 [<i>Acanthoecopsis unguiculata</i> Thomsen 1973] [? <i>Pseudomicrosportella ornata</i> Scagel & J.R. Stein 1961]	+	-	-	-	-	-	+	-	-	-
* sp.	+	-	-	-	-	-	-	-	-	-
* Acanthoeca Ellis 1930										
* brevipoda Ellis 1930	+	-	-	-	-	-	-	-	-	-
* spectabilis Ellis 1930	+	-	-	-	-	-	+	-	-	-
* Bicosta Leadbeater 1978										
* minor (Reynolds) Leadbeater 1978 [<i>Salpingoeca minor</i> Reynolds 1976] [<i>Salpingoeca virgata</i> Parke & Leadbeater 1977]	+	-	-	-	-	-	+	-	-	-
* spinifera (Thronsen) Leadbeater 1978 [<i>Salpingoeca spinifera</i> Thronsen 1970]	+	-	-	-	-	-	-	-	-	-
* Calliicantha Leadbeater 1978										
* natans (Grøntved) Leadbeater 1978 [<i>Salpingoeca natans</i> Grøntved 1956]	+	-	+	+	-	-	+	-	+	+
* simplex Manton & Oates 1979	+	-	-	-	-	-	+	-	-	-
* Cosmoeca Thomsen in Thomsen & Boonruang 1984										
* norvegica Thomsen in Thomsen & Boonruang 1984	+	-	-	-	-	-	-	-	-	-
* ventricosa Thomsen in Thomsen & Boonruang 1984 [<i>Parvicorbicula orculaeformis</i> aff. Thomsen 1976, 1979]	+	-	?	-	-	-	+	-	+	-

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* <i>Crinolina</i> Thomsen 1976										
* <i>isefjordensis</i> Thomsen 1976	+	-	-	-	-	-	-	-	-	-
* <i>Crucispina</i> Espeland in Espeland & Throndsen 1986										
* <i>cruciformis</i> Espeland in Espeland & Throndsen 1986 [<i>Salpingoeca cruciformis</i> Leadbeater 1974]	+	-	-	-	-	-	-	-	-	-
* <i>Diaphanoeca</i> Ellis 1930										
* <i>grandis</i> Ellis 1930	+	-	-	-	-	-	+	-	+	+
* <i>pedicellata</i> Leadbeater 1972	+	-	-	-	-	-	-	-	-	-
* <i>sphaerica</i> Thomsen 1982 [<i>Diaphanoeca pedicellata</i> auct.]	+	+	?	-	-	-	C	-	C	C
* <i>sp.</i>	+	+	-	-	+	-	-	-	+	-
* <i>Diplothea</i> Valkanov 1970										
* <i>costata</i> Valkanov 1970	+	-	-	-	-	-	+	-	-	-
* <i>Monocosta</i> Thomsen 1979										
* <i>fennica</i> Thomsen 1979	+	-	-	-	-	-	+	-	+	-
* <i>Nannoeca</i> Thomsen 1988										
* <i>minuta</i> (Leadbeater) Thomsen 1988 [<i>Pleurasiga minima</i> v. <i>minuta</i> Leadbeater 1972] [<i>Pleurasiga minima</i> (Leadbeater) Leadbeater in Manton <i>et al.</i> 1976]	+	-	-	-	-	-	-	-	-	-
* <i>Parvicorbicula</i> Deflandre 1960										
* <i>circularis</i> Thomsen 1976	+	-	?	-	-	-	+	-	+	-
* <i>quadrucostata</i> Throndsen 1970	+	-	-	-	-	-	-	-	-	-
* <i>socialis</i> (Meunier) Deflandre 1960 [<i>Corbicula socialis</i> Meunier 1910]	+	-	-	-	-	-	-	-	-	?
* <i>sp.</i>	-	-	-	-	-	-	+	-	+	+
* <i>Platypleura</i> Thomsen in Thomsen & Boonruang 1983										
* <i>infundibuliformis</i> (Leadbeater) Thomsen in Thomsen & Boonruang 1983 [<i>Parvicorbicula infundibuliformis</i> Leadbeater 1974]	+	-	-	-	-	-	-	-	-	-
* <i>Pleurasiga</i> Schiller 1925										
* <i>minima</i> Throndsen 1970	+	-	-	-	-	-	-	-	-	-
* <i>reynoldsii</i> Throndsen 1970	+	-	-	-	-	-	-	-	-	-
* <i>Polyfibula</i> Manton in Manton & Bremer 1981										
* <i>sphyrelata</i> (Thomsen) Manton in Manton & Bremer 1981 [<i>Pleurasiga sphyrelata</i> Thomsen 1973] [<i>Campanoeca dilatata</i> Throndsen 1974]	+	-	-	-	-	-	+	-	-	+
* <i>Saroeca</i> Thomsen 1979										
* <i>attenuata</i> Thomsen 1979	C	-	-	-	-	-	C	-	-	-
* <i>Savillea</i> Loeblich III 1967										
* <i>micropora</i> (Norris) Leadbeater 1975 [<i>Pleurasiga micropora</i> Norris 1965]	+	-	-	-	-	-	+	-	-	+



	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* <i>parva</i> (Ellis) Loeblich III 1967 [<i>Diaphanoeca parva</i> Ellis 1930] [<i>Ellisiella parva</i> (Ellis) Norris 1965]	+	-	-	-	-	-	+	-	-	-
* Stephanoeca Ellis 1930										
* <i>apheles</i> Thomsen, Buck & Chavez 1991	+	-	-	-	-	-	+	-	-	+
* <i>cupula</i> (Leadbeater) Thomsen 1988 [<i>Pleurasiga cupula</i> Leadbeater 1972]	+	-	-	-	-	-	-	-	-	-
* <i>diplocostata</i> Ellis 1930										
* <i>v. diplocostata</i> [<i>Stephanoeca pedicellata</i> Leadbeater 1972]	+	-	-	-	-	-	-	-	-	?
* <i>v. paucicostata</i> Thronsdon 1969	+	-	-	-	-	-	+	-	-	-
* <i>elegans</i> (Norris) Thronsdon 1974 [<i>Pleurasiga elegans</i> Norris 1965]	+	-	-	-	-	-	-	-	-	-
* <i>norrisii</i> Thomsen 1973 [<i>Sportelloeca kentii</i> (Ellis) Norris 1965] [non <i>Sportelloeca kentii</i> sensu Ellis 1930]	+	-	-	-	-	-	-	-	-	-
* <i>urnula</i> Thomsen 1973	+	-	-	-	-	-	CW	-	-	+

Class Eбриidea

Order EBRIIDA (ICBN: EBRIALES)

**Ebria* Borgert 1891

**tripartita* (Schumann) Lemmermann 1900 (?1901)

[*Dictyocha tripartita* Schumann 1867]

[*Dictyocha fornix* Möbius 1887]

[*Ebria fornix* (Möbius) Borgert 1891]

CW CW CW CW CW CW CW CW CW CW

Class Kinetoplastidea

Order KINETOPLASTIDA

**Bodo* Ehrenberg 1832

**curvifilus* Griessmann 1913

**designis* Skuja 1948

**ovatus* (Dujardin) Stein 1878

[*Heteromita ovata* Dujardin 1838]

**saliens* Larsen & Patterson 1990

**saltans* Ehrenberg 1832

[*Pleuromonas jaculans* Perty 1852]

**sp.*

+ - - - - - + - - -
+ - - - - - + - - -
- - - - - - - - - +
+ - - - - - + - - -
+ - - - - - + - - -
+ - - - - - - - + +

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* Katablepharis Skuja 1939 (ICZN: <i>Kathablepharis</i>)										
* ovalis Skuja 1948	–	+	+	+	–	–	+	+	+	+
* remigera (Vørs) Clay & Kugrens 1999 [<i>Leucocryptos remigera</i> Vørs 1992]	+	–	–	–	–	–	+	–	–	+
* sp.	–	–	–	–	–	–	f	–	+	–
* Kiitoksia Vørs 1992 (ICZN)										
* ystava Vørs 1992	+	–	–	–	–	–	+	–	–	–
* Leucocryptos Butcher 1967										
* marina (Braarud) Butcher 1967 [<i>Bodo marina</i> Braarud 1935] [<i>Chilomonas marina</i> Halldal 1953]	+	+	+	–	–	–	+	–	–	–
* Luffisphaera Belcher & Swale 1975										
* cucumiformis Belcher & Swale 1975	–	–	–	–	–	–	+	–	–	–
* longihastis Vørs 1992	?	–	–	–	–	–	–	–	–	–
* myosurus Belcher & Swale 1975	–	–	–	–	–	–	+	–	–	–
* "striata" Thomsen <i>nom. ined., in</i> Vørs 1992	+	–	–	–	–	–	–	–	–	–
* turriiformis Vørs 1992	+	–	–	–	–	–	–	–	–	–
* "sp. B" Belcher & Swale 1975	–	–	–	–	–	–	+	–	–	–
* Metopion Larsen & Patterson 1990										
* fluens Larsen & Patterson 1990	+	–	–	–	–	–	+	–	–	–
* Metromonas Larsen & Patterson 1990										
* simplex (Griessmann) Larsen & Patterson 1990 [<i>Phyllomonas simplex</i> Griessmann 1913]	+	–	–	–	–	–	+	–	–	–
* Percolomonas Fenchel & Patterson 1986										
* cosmopolitus (Ruinen) Fenchel & Patterson 1986 [<i>Tetramitus cosmopolitus</i> Ruinen 1938]	+	–	–	–	–	–	–	–	–	–
* cuspidata Larsen & Patterson 1990	+	–	–	–	–	–	–	–	–	–
* Phyllomitius Stein 1878										
* granulatus Larsen & Patterson 1990	+	–	–	–	–	–	–	–	–	–
* Postgaardii Fenchel <i>et al.</i> 1995										
* mariagerensis Fenchel <i>et al.</i> 1995	+	–	–	–	–	–	–	–	–	–
* Quadricilia Vørs 1992										
* rotundata (Skuja) Vørs 1992 [<i>Tetramitus rotundatus</i> Skuja 1948] [<i>Collodictyon sphaericum</i> Norris 1964]	+	–	–	–	–	–	+	–	–	+
* Telonema Griessmann 1913										
* "antarctica" Thomsen <i>nom. ined., in</i> Vørs 1992	+	–	–	–	–	–	–	–	–	–
* subtile Griessmann 1913	+	–	–	–	–	–	+	+	+	+
* Tetradimorpha Hsiung 1927										
* marina Fenchel <i>et al.</i> 1995	+	–	–	–	–	–	–	–	–	–

	KB	AB	SB	CB	NB	GR	GF	AS	BS	BB
* <i>Trichonema</i> Fromental 1872										
* <i>gracile</i> Möbius 1888	+	-	-	-	-	-	-	-	-	-
Family APUSOMONADIDAE										
* <i>Amastigomonas</i> De Saedeleer 1931										
* <i>debruynei</i> De Saedeleer 1931	+	-	-	-	-	-	+	-	-	-
[<i>Thecamonas trahens</i> Larsen & Patterson 1990]										
* <i>mutabilis</i> (Griessmann) Molina & Nerad 1991	+	-	-	-	-	-	+	-	-	-
[<i>Rhynchomonas mutabilis</i> Griessmann 1913]										
[<i>Thecamonas mutabilis</i> (Griessmann) Larsen & Patterson 1990]										
Family THAUMATOMASTIGIDAE (ICBN: THAUMATOMASTIGACEAE)										
* <i>Protaspis</i> Skuja 1939										
* <i>glans</i> Skuja 1939	+	-	-	?	-	?	+	-	-	-
* <i>simplex</i> Vørs 1992	+	-	-	-	-	-	+	-	-	-
* <i>verrucosa</i> Larsen & Patterson 1990	+	-	-	-	-	-	+	-	-	-
* <i>sp.</i>	-	-	-	-	-	-	+	-	+	+
* <i>Thaumatomastix</i> Lauterborn 1899										
* <i>bipartita</i> Beech & Moestrup 1986	+	-	-	-	-	-	?	-	-	-
* <i>dybsoeana</i> Thomsen <i>et al.</i> 1993	+	-	-	-	-	-	-	-	+	+
* <i>formosa</i> Thomsen <i>et al.</i> 1993	+	-	-	-	-	-	-	-	-	-
* <i>patelliformis</i> (Takahashi & Hara) Beech & Moestrup 1986	+	-	-	-	-	-	-	-	-	?
[<i>Chrysophaerella patelliformis</i> Takahashi & Hara 1984]										
[<i>Spiniferomonas patelliformis</i> (Takahashi & Hara) Nicholls 1984]										
*" <i>punctata</i> " Thomsen <i>nom. ined.</i> , in Vørs 1992	-	-	-	-	-	-	+	-	-	-
* <i>sagittifera</i> (Conrad) Beech & Moestrup 1986	+	-	-	-	-	-	-	-	-	-
[<i>Reckertia sagittifera</i> Conrad 1920]										
* <i>salina</i> (Birch-Andersen) Beech & Moestrup 1986	+	+	-	-	-	+	+	-	+	+
[<i>Chrysophaerella salina</i> Birch-Andersen 1973]										
[<i>Spiniferomonas salina</i> Nicholls 1984]										
* <i>spinosa</i> Thomsen <i>et al.</i> 1993	+	-	-	-	-	-	-	-	-	-
* <i>triangulata</i> (Balonov) Beech & Moestrup 1986	+	-	-	-	-	-	+	-	-	?
[<i>Chrysophaerella triangulata</i> Balonov 1980]										
* <i>tripus</i> (Takahashi & Hara) Beech & Moestrup 1986	+	-	-	-	-	-	-	-	-	-
[<i>Chrysophaerella tripus</i> Takahashi & Hara 1984]										
[<i>Spiniferomonas tripus</i> (Takahashi & Hara) Nicholls 1984]										
Order CERCOMONADIDA										
* <i>Cercomonas</i> Dujardin 1841										
* <i>sp.</i> Vørs 1992	+	-	-	-	-	-	-	-	-	-
* <i>Maissisteria</i> Larsen & Patterson 1990										
* <i>marina</i> Larsen & Patterson 1990	+	-	-	-	-	-	+	-	-	-

- (1) The distribution of *Aphanocapsa reinboldii* should be reinvestigated. Recent determinations are mostly based on Pankow's (1976, 1990) wide concept of *Microcystis reinboldii*, which includes *A. delicatissima*, *A. elachista*, *A. holsatica*, *A. incerta*, *A. planctonica* and *Microcystis stagnalis*. The real *A. reinboldii* is a halophilic benthic species mainly living on sandy bottoms (Lindstedt 1943, Komárek & Anagnostidis 1999), and occurs but accidentally in the plankton.
- (2) Requires taxonomic reinvestigation.
- (3) According to Komárek & Anagnostidis (1999) and Komárek (*pers. comm.*) *Aphanocapsa elachista* mainly occurs in the tropics, and the records from the Baltic Sea probably represent another species.
- (4) The determination needs confirmation.
- (5) According to Komárek & Anagnostidis (1999) and Komárek (*pers. comm.*) the real *Aphanocapsa rivularis* is epi- or endolithic on or in limestone or shells in clean running freshwater, particularly in limestone mountains. Determinations from Baltic Sea plankton are most probably erroneous.
- (6) According to Komárek & Anagnostidis (1999) and Komárek (*pers. comm.*) *Aphanothece castagnei* is an exclusively aerophytic or subaerophytic species growing on wet rocks and mosses, being common particularly in mountains. Records from Baltic Sea plankton are evidently incorrect. Finds with the correct morphology in Baltic Sea near-shore pleuston should be referred to as *Aphanothece* cf. *castagnei* until a detailed taxonomical investigation of the material has been made.
- (7) *Aphanothece stagnina* is very abundant in certain only slightly brackish rock pools in the northern Baltic Sea (Hällfors 1984:38), and can conceivably be washed into the sea during heavy rains.
- (8) According to Komárek & Anagnostidis (1999) and Komárek (*pers. comm.*) *Chroococcus cohaerens* is a subaerophytic species whose occurrence in the plankton of the Baltic Sea is improbable.
- (9) See Cronberg & Komárek 1994:342.
- (10) According to Komárek & Anagnostidis (1999:34, 107) *Dactylococcopsis raphidioides* Hansgirg 1888 is a green alga; sensu G.M. Smith 1920 is a synonym of *Rhabdogloea smithii* (R. & F. Chodat) Komárek 1983.
- (11) Known from the Baltic Sea according to Komárek & Anagnostidis (1999).
- (12) According to Komárek & Anagnostidis (1999) and Komárek (*pers. comm.*) *Rhabdogloea ellipsoidea* is probably distributed only in swamps of the tropical zone. The record is probably *R. smithii*.
- (13) Given by Komárek & Anagnostidis (1999:107) for the "eastern Baltic Sea".
- (14) Obligate epiphyte; occasionally found in coastal waters on drifting filaments of littoral algae.
- (15) Systematic position uncertain.
- (16) According to Pankow (1976, 1990) recorded once in the Gulf of Gdańsk.
- (17) The species of *Oscillatoria* which Anagnostidis & Komárek (1988) transferred to *Phormidium* includes *Oscillatoria tenuis*. They did not take into account, however, that the new combination was illegitimate because of the existence of an older *Phormidium tenue* which they had transferred to the genus *Leptolyngbya* earlier in the same article. Thus *Oscillatoria tenuis* needs a new name in the genus *Phormidium*:

Phormidium neotenue G. Hällfors *nom. nov.*

Basionym: *Oscillatoria tenuis* C.A. Agardh ex Gomont. Annales des Sciences Naturelles. Septième Série. Botanique, 16, p. 220-221, pl. 7, figs 2–3, 1892.

Synonym: *Phormidium tenue* (C.A. Agardh ex Gomont) Anagnostidis & Komárek 1988:406 *nom. illeg.*

Non: *Phormidium tenue* Gomont Annales des Sciences Naturelles. Septième Série. Botanique, 16:169, pl. 4, figs 23–25, 1892.

= *Leptolyngbya tenuis* (Gomont) Anagnostidis & Komárek 1988:393.

- (18) The combination *Anabaena longicellularis* (Pankow) Komárková-Legnerová & Eloranta 1992 is invalid because a full and direct reference to the original publication of the basionym is not given (ICBN Art. 33.2). It should have been done like this:

Anabaena longicellularis (Pankow) *comb. nov.*

Basionym: *Anabaena spiroides* var. *longicellularis* Pankow, *Limnologica* (Berlin) 8(2), p. 164, fig. 1 p. 165, 1965.

- (19) In coastal saline pools (Komárek & Hindák 1988)
- (20) According to Komárek (*pers. comm.*) found in the coastal waters of northern Germany.
- (21) See Janson *et al.* (1994).
- (22) Main occurrence in rock-pools in the northern Baltic Sea (Droop 1953, Hällfors 1984).
- (23) *Nodularia harveyana* is a benthic species which is occasionally found secondarily in very small amounts in coastal plankton. It is occasionally more abundant in brackish-water rock-pools (Hällfors 1984, Wærn 1952).
- (24) Reported by Pankow (1990) for the whole Baltic Sea.
- (25) Recorded from the sea only without akinetes. Akinete formation is at times abundant in certain brackish-water rock-pools (Hällfors 1984). See also Wærn (1952:35).
- (26) According to Hill (1991) closely related to the genus *Campylomonas*.
- (27) *Rhodomonas lacustris* v. *lacustris* and v. *nannoplanktica* are freshwater flagellates which hardly are competitive in brackish water of salinity higher than ca. 2 ‰. Reportings of these taxa from areas of higher salinity (*e.g.* Pankow 1990, Willén 1995) are apparently misidentifications of *Teleaulax amphioxeia* respectively *Plagioselmis prolunga*.
- (28) The determinations of *Prorocentrum micans* from the northern parts of the Baltic Sea should be checked. The cells are wider and shorter than typical *P. micans* in the Kattegat and the Belt Sea area, the Arkona Basin, and the Southern Baltic proper. Tenson (1995) refers to this type as *P. scutellum*.
- (29) According to Lebour (1925).
- (30) The taxonomic status of *Dinophysis dens* is uncertain. It is possibly only a stage in the life cycle of *D. acuta* (Hansen & Larsen 1992).
- (31) *Dinophysis acuta* has frequently been confused with *D. norvegica*. Therefore records of *D. acuta* north of the central Baltic Sea are very dubious.
- (32) According to Dodge (1982) *Dinophysis tripos* Gourret 1883 is a synonym of *Dinophysis caudata* Saville-Kent 1881.
- (33) See Willén (1995).
- (34) According to Pankow (1976) to the Darss threshold.
- (35) So far only benthic cysts have been observed (Nehring 1993, 1994).
- (36) The combination *Gyrodinium fissum* (Levander) Kofoid & Swetzy 1921 is illegitimate because it is based on a type different from Levander's *Gymnodinium fissum*.

Levander's type has clearly visible yellowish-green to brown-green chloroplasts. Levander saw a faint striation in some individuals, but apparently not in the cell he based the iconotype on, as he did not draw them (Levander 1894, pl. 2. figs 5–8). The sulcus continues into the epitheca as a narrow slit (Levander 1894:44). Actually, it soon divides into two fine lines which run on both sides of the apex, to be joined on the dorsal side (own observations on material from the Gulf of Finland 90 km WSW of the type locality). Perhaps these lines caused Levander to write about striation? Cells are as a rule laterally more or less compressed (“... in der Regel seitlich mehr [oder] weniger comprimirt...”), sometimes round in cross section, occasionally dorso-ventrally compressed.

Gyrodinium fissum Kofoid & Swezy 1921 on the other hand, is practically colourless with “pale green rodlets”. If *Gymnodinium fissum* Levander 1894 is transferred to *Gyrodinium*, the oldest available valid name seems to be *Gyrodinium pavillardii* Biecheler 1952.

- (37) Spelled “*galathrata*” in Willén (1995).
- (38) Popovský & Pfiester 1990 included *Woloszyńska hiemale* together with several other species in the synonymy of an improbably variable *W. pascheri*.
- (39) Recorded by Keskitalo & Ilus (1977) from the Loviisa archipelago in the central Gulf of Finland. This is most probably a misidentification.
- (40) Main occurrence in rockpools and coastal lagoons with much decaying organic matter. Only accidentally in coastal plankton.
- (41) The genus *Glenodinium* is a “wastebasket” for species with thin theca and unknown or imperfectly known plate arrangement. When studied properly, most species probably should be transferred to other genera.
- (42) Most probably a misidentification of an undescribed species (in the northern Baltic Sea).
- (43) Samples from the inner Baltic Sea with large-celled *Protoperidinium brevipes* should be checked for the presence of *P. conicoides*.
- (44) One cell observed by Hansen & Larsen (1992) in the northern Kattegat.
- (45) Pankow (1990).
- (46) According to Hansen & Larsen (1992) all Danish specimens from Kattegat and the Belt Sea area belong to *v. latidorsale* Dangeard (1927), considered by Balech (1951, 1974, 1988) to be a separate species, *Protoperidinium latidorsale* (Dangeard) Balech (1974).
- (47) According to Edler *et al.* (1984).
- (48) Levander’s (1908) report of *Peridinium roseum* from the Bothnian Sea should probably be referred to *Protoperidinium pellucidum* which occurred in the same sample. At that time the two species were difficult to separate, being of about the same size and general shape (*cf.* Paulsen 1908). There are no reliable known records of *Protoperidinium (Peridinium) roseum* east of the Sound (Øresund, Öresund) from where Christensen *et al.* (1985) cited a record for the species.
- (49) Given by Rumeck (1948) for the Gulf of Gdańsk.
- (50) *Dictyosphaera tubifer* and *Papposphaera lepida* are hardly distinguishable with LM (Tangen 1972).
- (51) The record for the Gulf of Finland is based on single scales only.
- (52) According to Pankow (1976) recorded from the Kiel harbour.
- (53) The confident determination of several apparently common and widespread species requires TEM of sectioned material (*cf.* Green 1980).
- (54) Systematic position controversial. For instance, Starmach (1985) refers the genus *Chrysidiastrum* together with *Chrysarachnion* to the family Chrysarachniaceae Matvienko 1965 in the order Chrysarachniales Starmach 1980 in the subclass Acontochrysophycidae Bourrelly 1968. Christensen (1980–1994) does not mention *Chrysidiastrum*, but places *Chrysarachnion* together with *Rhizochrysis* in the family Rhizochrysidaceae in the order Ochromonadales.
- (55) The record is based on the observation of single scales only.
- (56) See Preisig *et al.* (1991:372–373).
- (57) Has been suggested as a class of its own, Pedinellophyceae, or to be included in the Dictyochophyceae, *cf.* Christensen (1980–1994).
- (58) *Actinomonas mirabilis* and *Pteridomonas danica* appear to be virtually impossible to distinguish without TEM of thin sections (Vørs 1992).
- (59) For synonyms, see Asmund & Kristiansen (1986).
- (60) Living cells found by the present author in abundance under the ice in the Pojo Bay in spring.
- (61) Especially in the older literature this species has been comprehended in a wide sense, including several other species of the genus. Thus *Synura uvella* Ehrenberg is now equivalent to *Synura* sp. The structure of the scales in most cases needs to be known for a correct species determination to be possible.

- (62) Records of *Chaetoceros borealis* from the Gulf of Finland probably represent *C. impressus*.
- (63) Records of *Chaetoceros compressus* from Scandinavian waters probably represent misidentified *Chaetoceros contortus*. The real *C. compressus* Lauder is a warm-water species, see Jensen & Moestrup (1998).
- (64) *Coscinodiscus granii* is by far the most common and abundant of the large *Coscinodiscus*-like species in the Baltic Sea. Until recently, however, it has usually been misidentified as *C. asteromphalus* and/or *C. oculus-iridis*, especially by geologists. Thus the distribution of these species may contain an element of error.
- (65) Pankow (1976, 1990) gives *Coscinodiscus granulatus* (Grunow) Grunow (syn. *Odontodiscus granulatus* Grunow) for the whole Baltic Sea. This record is certainly erroneous, and the identity of the species is in doubt. See also Cleve-Euler (1951:70).
- (66) Ringer (1973), Borysiak (1977).
- (67) A chain of two and a half dead cells has been observed (Niemi & Hällfors 1974), probably introduced with ballast water. *G. cylindrus* is an oceanic warm water species.
- (68) See Crawford (1975).
- (69) Records of *Thalassiosira decipiens* should be checked for *T. angulata* (Gregory) Hasle, see Hasle (1978, 1979), Hasle & Syvertsen (1996). The illustrations of *T. decipiens* in Hustedt (1928) and Cleve-Euler (1942, 1951) are actually *T. angulata*.
- (70) *Thalassiosira proschkiniae* was recorded as *T. levanderi* by Zernova & Shevchenko (2001).
- (71) See Hartley (1986:596)
- (72) ***Amphiprora pseudoduplex*** (Osada & Kobayasi) *comb. nov.*
 Basionym: *Entomoneis pseudoduplex* Osada & Kobayasi. Proceedings of the Tenth International Diatom Symposium, Joensuu, Finland, August 28–September 2, 1988. (ed. H. Simola). Koeltz Scientific Books, Koenigstein 1990, p. 165–166, figs. 4, 5, 32–42.
 Holotype: H.K. T-90 in coll. H. Kobayasi.
- (73) Orthography grammatically corrected by Christensen *et al.* (1985).
- (74) *Fragilaria istvanffy* Pantocsek 1902 is probably closely related.
- (75) I am not aware of whether the variety has been combined into the genus *Fragilariforma*.
- (76) See Krammer & Lange-Bertalot (1986).
- (77) May belong to the genus *Aneumastus* D.G. Mann in Round *et al.* (1990).
- (78) See Mölder & Tynni (1966), Tynni (1980), and also Krammer & Lange-Bertalot (1988).
- (79) In the Baltic Sea *Nitzschia paleacea* frequently forms stellate colonies in summer. They occur independently in the plankton, but are occasionally very abundant as epiphytes on *Nodularia*. In the past there has been confusion with other species forming similar stellate colonies.
- (80) Erroneous determination in Edler *et al.* (1984).
- (81) I am not aware of whether the variety has been combined into the genus *Pseudostaurosira*.
- (82) Halme & Mölder (1958).
- (83) I am not aware of whether the variety has been combined into the genus *Staurosira*.
- (84) Andrén (1999).
- (85) I am not aware of whether the variety has been combined into the genus *Staurosirella*.
- (86) In the Baltic Sea, most probably misidentified stellate colonies of *Nitzschia paleacea*.
- (87) See Niemi & Hällfors (1974), Tynni (1978), and Paddock (1988:98).
- (88) *Tetraëdron planctonicum* G.M. Smith 1916 probably belongs in the genus *Pseudostaurastrum*.
- (89) *Nannochloropsis* sp. in G. & S. Hällfors (1992) has proven to be a green alga, most probably *Nannochloris atomus* Butcher 1952.
- (90) The order Chattonellales includes expanding toxic species which are expected to reach the Baltic Sea in the near future.

- (91) According to Kukk (*pers. comm.*) *Trichodesmium lacustre* is a stage in the life cycle of *Gloeotrichia echinulata*.
- (92) The species *Rhodella maculata* Evans 1970 regularly occurs in the Oslo Fjord and has occasionally been found in the Skagerrak. It probably also occurs in the Kattegat but no published records have yet been found.
- (93) May belong to the genus *Pteroncola*.
- (94) These two species are so difficult to separate that the distribution data are unreliable. In addition *T. quadrisepata* should be taken into account as well.
- (95) *Pyramimonas* species have until recently often been referred to as *Carteria marina*, *Carteria* sp. or *Carteria* spp.
- (96) Most records of *Carteria* appear to be misidentified *Pyramimonas* and *Tetraselmis* species.
- (97) Sterile, accidentally planktonic filaments can generally not be determined to the species.
- (98) Mentioned by Üselytė (1961).
- (99) In all areas probably several species are present which need to be worked out.
- (100) For additional synonyms, see Hegewald (2000).
- (101) *Dictyosphaerium pulchellum* and *D. tetrachotomum* have frequently been confused in samples from the Baltic Sea. When dividing cells are present, they usually show the characteristic features of *D. tetrachotomum* (*cf.* Komárek & Fott 1983:348–349).
- (102) Found in the Skagerrak according to Kuylenstierna & Karlson (1998), I have found it in samples from almost the whole Baltic Sea since the 1970s.
- (103) Reported by Pankow (1990) from brackish water bays of the Baltic Sea.
- (104) Apparently belongs to the genus *Desmodesmus*.
- (105) Hegewald *et al.* (1988).
- (106) According to Elbrächter (2002).
- (107) Erroneously spelled “*biconstricta*” in Mölder & Tynni (1966).
- (108) *Scenedesmus apiculatus* (W. & G.S. West) R. Chodat 1926 apparently needs a new name.
- (109) *Chaetoceros danicus* and *C. similis* are frequently confused (*e.g.* Balode in Snoeijs 1993). In *C. danicus* the bristles have spines, and seen along the pervalvar axis the bristles of the two cell halves diverge by some 40-60 degrees. In *C. similis* the bristles are almost parallel, usually of slightly different length, located in the same focal plane, and appear to be spineless in light-microscopical water preparations. Both species usually occur as single or twin cells.

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Division CHRYSOPHYTA (HETEROKONTOPHYTA)

Class **Chrysophyceae** – Golden-brown algae

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Class Diatomophyceae (Bacillariophyceae) – Diatoms

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Class **Eustigmatophyceae**

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Order SPHENOMONADALES

Division CHLOROPHYTA

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Annex: Various non-photosynthetic protist groups

Phylum ZOOMASTIGOPHORA – Zooflagellates

Class Bicosoecidea

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Class Choanoflagellidea – Collar flagellates

Bourrelly, P. 1968: Les Algues d'eau douce. Initiation à la systématique. Tome II : Les Algues jaunes et brunes. Chrysophycées, Phéophycées, Xanthophycées et Diatomées. – N.

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Class **Ebriidea**

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Class **Kinetoplastidea**

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Incertae sedis **Thaumatomastigidae (ICBN: Thaumatomastigaceae)**

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