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DELIVERABLE SUMMARY SHEET

Short Description
Checklist of unicellular and invertebrate organisms within and closely associated with sea ice in the Arctic regions. The report presents the list of all found unicellular and invertebrate organisms within and closely associated with sea ice in the Arctic regions. Keywords: Arctic ice biota, checklist, diatoms, flagellates, invertebrates, metazoa.

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Abstract

This work is a literature survey of unicellular and invertebrate organisms that have been encountered in Arctic sea ice since the turn of the last century (Gran, 1904) until today. A total of 91 sources of data - earlier published literature, submitted manuscripts and the author's own unpublished data - is used for the purpose. The author's own unpublished data originates from an expedition to the North Pole on the Swedish icebreaker Oden in summer 2001. Only literature that was relevant to the preparation of the checklist, i.e. articles and reports with taxonomic names of adequate resolution (genera, species, subspecies, forma) were included. Thus, this checklist is a list of unicellular and invertebrate organisms associated with Arctic sea ice, not a thorough literature survey of all data published on this topic.

Introduction

Sea ice in the Arctic is inhabited by a highly diverse community of unicellular and invertebrate organisms. Their size varies from a few nanometres to macroscopic. As an effort to overview the diversity, i.e. the number and kind of these organisms, the author made a survey of taxonomic work done on the arctic sea ice biota. Earlier published literature, submitted manuscripts and the author's own recent unpublished data was used. The oldest article is by Gran (1904), while earlier reports were excluded due to questionable reliability of the species determination.

Material and methods

The author's own data on microscopic organisms within sea ice in the high Arctic were collected during an expedition to the North Pole in summer 2001 onboard the Swedish icebreaker Oden. Most data originates from the ice drift when the icebreaker was moored to a large ice floe (1x2 km in size, thickness 2-3 m) for three weeks in August 2001 (Knulst et al. 2003). Ice cores were drilled and processed according to the methods described in detail in Ikävalko & Thomsen 1997. The species determination and cell counts were made by inverted light microscope (Leitz DMIL, 500x final magnification). For scale-bearing organisms, e.g. coccolithophorids, a JEOL-JEM 100CX transmission electron microscope at the Division of Electron Microscopy, University of Helsinki, Finland was used.

Results

In the list of references, serial numbers in front of the first author refer to the chronological order of the publications. These numbers are used in Tables 1 and 2 to show the references for each taxa encountered in the sea ice in the Arctic. Reference number 91 in Tables 1 and 2 is the author's own data from the Arctic Ocean 2001 Expedition.

The Arctic sea ice biota consists of the following nano- and microplanktonic groups (Tables 1 and 2): diatoms (Bacillariophyceae, 657 taxa), photo- and heterotrophic dinoflagellates (Dinophyceae, 113 taxa), ciliates (53 taxa), green algae (Chlorophyceae, 46 taxa), chrysophytes and dictyochophytes (Chrysophyceae and Dictyochophyceae, 29 taxa), photo- and heterotrophic euglenid flagellates (25 taxa), choanoflagellates (23 taxa), prasinophytes (Prasinophyceae, 18 taxa), photo- and heterotrophic cryptophytes (16 taxa), haptophytes (Haptophyceae, 12 taxa), rotifers (7

taxa), kinetoplastids and heliozoans (6 taxa in both groups), blue-green algae (4 taxa), Straminopiles and Foraminifera (3 taxa in both groups), phototrophic xanthophytes (Xanthophyceae, 2 taxa), one species of *Diffugia* sp. (Amoeba), one raphidophyte (Raphidophyceae), pedinellid and pedinophyte (Pedinophyceae) species and, finally, one unidentified radiolarian (Table 2.).

Of the metazoans (Table 2.), copepods (48 copepod taxa: 23 Calanoida, 14 Harpacticoida, 10 Cyclopoida, 1 Mormonilloida, and 1 Monstrilloida) and amphipods (23 gammaridean amphipod taxa) were dominant. Less diverse groups in Arctic sea ice were Hyperidea (5 taxa), Nematoda, Mysidacea, Chaetognatha, Tunicata (4 taxa in each group), Gastropoda, Polychaeta (3 taxa in both groups), Ostracoda, Isopoda and Decapoda (2 taxa in each group), and one taxon of Hydrozoa and Euphausiacea. Larvae and juvenile stages of the following groups are also present: Hydrozoa, Bivalvia, Cirripedia (*Balanus* larvae), Echinodermata, Tunicata, Chordata, and Mollusca. Unidentified representatives of Ctenophora and Turbellaria are also observed. Last but not least, Table 2 contains also 26 heterotrophic organisms (mainly microscopic flagellates) for which the systematic position is obscure (Protista Incertae Sedis).

Table 3 is a list of basionyms and synonyms with their recent scientific names. Only names that were found in the source literature are included.

TABLE 1

TABLE 2

TABLE 3

Table 1. Checklist of diatoms in the Arctic sea ice. The abbreviations refer to: r = resting stages, e = empty frustules, *italics*= uncertain identification

BACILLARIOPHYCEAE	
<i>Achnanthes brevipes</i> Agardh	89-90
<i>A. calcar</i> Cleve	88
<i>A. exigua</i> Grunow	54
<i>A. groenlandica</i> var. <i>phinneyi</i> f. <i>jaydei</i> McIntire	88
<i>A. haynaldii</i> Schaarschmidt	40
<i>A. lanceolata</i> (Brébisson) Grunow	54
<i>A. minutissima</i> Kützing	17, 25, 89
<i>A. oestrupii</i> (Cleve-Euler) Hustedt	88
<i>A. stolidia</i> (Krasske) Krasske	5
<i>Achnanthes</i> sp./spp. Bory	27, 29, 88
<i>Actinocyclus actinochilus</i> (Ehrenberg) Simonsen	61
<i>A. curvatulus</i> Janisch	53, 88-90
<i>A. kützingii</i> (Schmidt) Simonsen	19
<i>A. octonarius</i> Ehrenberg	89
<i>Actinoptychus senarius</i> (Ehrenberg) Ehrenberg	40, 88
<i>Amphiprora alata</i> (Ehrenberg) Kützing	21, 32
<i>A. angustata</i> Hendey	21
<i>A. gigantea</i> Grunow	21
<i>A. hyperborea</i> (Grunow) Gran	6,11, 15, 19, 45
<i>A. kariana</i> Grunow	6
<i>A. paludosa</i> Smith	6, 21
<i>Amphiprora</i> sp./spp. Ehrenberg	15-16, 77, 91
<i>Amphora angusta</i> var. <i>ventricosa</i> (Gregory) Cleve	17, 25, 69
<i>A. coffeaeformis</i> (Agardh) Kützing	39, 56, 58
<i>A. coffeaeformis</i> var. <i>borealis</i> Kützing	88
<i>A. crassa</i> Gregory	69
<i>A. eunotia</i> Cleve	17, 25
<i>A. exigua</i> Gregory	69
<i>A. exsecta</i> Grunow	17, 25, 27
<i>A. holsatica</i> Hustedt	40, 55-56
<i>A. laevis</i> Gregory	21, 27
<i>A. laevis</i> var. <i>laevis</i> (Gregory) Cleve ¹	1, 6, 17, 25, 27-29, 32, 39, 43, 55-56, 58, 67, 69, 82, 87-88
<i>A. lineolata</i> Ehrenberg	69
<i>A. macilenta</i> Gregory	32
<i>A. obtusa</i> Gregory	69
<i>A. ocellata</i> Donkin	22
<i>A. ostrearia</i> Brébisson	40
<i>A. ovalis</i> (Kützing) Kützing	54, 69
<i>A. ovalis</i> var. <i>pediculus</i> (Kützing) Van Heurck	69
<i>A. perpusilla</i> (Grunow) Grunow	40
<i>A. proteus</i> Gregory	17, 25, 40
<i>A. proteus</i> var. <i>oculata</i> H. & M. Peragallo	40
<i>A. staurophora</i> Juhlin-Dannfelt	40
<i>A. terroris</i> Ehrenberg	32
<i>Amphora</i> sp./spp. Ehrenberg	21, 27, 29, 45, 67, 88-89
<i>Ardissonea crystallina</i> (Agardh) Grunow	5
<i>Asterionella formosa</i> Hassall	27, 32, 55-56, 82e, 88
<i>A. gracillima</i> (Hantzsch) Heiberg	32
<i>A. gracillima</i> var. <i>zigzagostellata</i>	4
<i>Asterionellopsis glacialis</i> (Castracane) Round	88

<i>Asteromphalus brookei</i> Bailey	25
<i>A. hookeri</i> Ehrenberg	25, 30
<i>Attheya septentrionalis</i> (Østrup) Crawford	6, 17, 21, 25, 27, 29-30, 32, 45, 53, 56, 58-59, 64, 67, 82, 86-91
<i>Aulacoseira distans</i> (Ehrenberg) Simonsen	54
<i>A. distans</i> var. <i>alpigena</i> (Grunow) Simonsen	69
<i>A. granulata</i> (Ehrenberg) Simonsen	6, 59
<i>A. islandica</i> (Müller) Simonsen	54
<i>A. italica</i> (Ehrenberg) Simonsen	6
<i>Aulacoseira</i> sp./spp. Thwaites	55-56, 82e, 87
<i>Auricula compacta</i> (Hustedt) Medlin	61
<i>Azpeitia neocrenulata</i> (Van Landingham) Fryxell & Watkins	69
<i>Bacillaria paxillifer</i> (Müller) Hendey	17, 25, 29, 32, 45, 69
<i>B. paxillifer</i> var. <i>tumidula</i> (Grunow) Witkowski, Lange-Bertalot & Metzeltin	87
<i>Bacterosira bathyomphala</i> (Cleve) Syvertsen & Hasle	45, 53, 64, 88-90
<i>Banquisia belgicae</i> (Van Heurck) Paddock	61
<i>Berkeleya rutilans</i> (Trentepohl ex Roth) Grunow	13, 17, 25, 67, 88
<i>B. scopulorum</i> (Brébisson) Cox	27
<i>Biddulphia alternans</i> (Bailey) Van Heurck	40
<i>B. biddulphiana</i> (Smith) Boyer	19
<i>B. subequa</i>	69
<i>Biremis ambigua</i> (Cleve) Mann	40, 67, 88
<i>Brachysira seriens</i> (Brébisson ex Kützing) Round & Mann	5, 67
<i>Brebissonia</i> sp./spp. Grunow	69
<i>Caloneis crassa</i> (Gregory) Ross	13, 17, 25, 40
<i>C. hebes</i> (Ralfs) Patrick	17, 25
<i>C. leptosoma</i> (Grunow) Krammer	69
<i>C. liber</i> (Smith) Cleve	17, 25
<i>C. ventricosa</i> (Ehrenberg) Meister	69
<i>Caloneis</i> sp./spp. Cleve	89
<i>Catacombas camtschatica</i> (Grunow) Williams & Round	88
<i>Campylodiscus</i> sp./spp. Ehrenberg	45
<i>Chaetoceros affinis</i> Lauder	45, 89
<i>C. atlanticus</i> Cleve	6, 25, 30
<i>C. borealis</i> Bailey	5-6, 17, 25, 27, 30, 32, 59
<i>C. brevis</i> Schütt	5
<i>C. ceratosporus</i> Ostefeld	27, 45, 89
<i>C. cinctus</i> Gran	43, 45, 56
<i>C. compressus</i> Lauder	21, 27, 43, 45, 55-56, 58, 88-90
<i>C. concavicornis</i> Mangin	4-6, 56, 58, 89-90
<i>C. constrictus</i> Gran	5, 90
<i>C. danicus</i> Cleve	45, 89
<i>C. debilis</i> Cleve	16, 45, 59, 89
<i>C. decipiens</i> Cleve	4-5, 17, 21, 25, 27, 30, 32, 45, 56, 58-59, 90
<i>C. delicatissima</i>	77
<i>C. diadema</i> (Ehrenberg) Gran	5, 45, 59, 89-90
<i>C. dictyota</i> Ehrenberg	1, 6
<i>C. fragilis</i> Meunier	5, 17, 25, 27, 32, 45
<i>C. furcellatus</i> Bailey	4-6, 12-13, 17, 25, 32, 43, 56, 59, 64, 82r, 88-90
<i>C. holsaticus</i> Schütt	29, 32, 39, 43, 45, 56, 58, 89
<i>C. ingolfianus</i> Ostefeld	45
<i>C. invisibilis</i> Gogorev & Makarova	89-90
<i>C. karianus</i> Grunow	1, 5, 22, 27, 39, 43, 45, 55, 69
<i>C. mitra</i> (Bailey) Cleve	4
<i>C. neogracilis</i> (Schütt) Van Landingham	5, 12, 15, 22, 45, 89-90

<i>C. pelagicus</i> Cleve	45
<i>C. perpusillus</i> Cleve	90
<i>C. radicans</i> Schütt	5, 45
<i>C. similis</i> Cleve	45, 89
<i>C. simplex</i> Ostenfeldt	45, 64, 89, 91
<i>C. socialis</i> Lauder	5-6, 45, 64, 67, 88-90
<i>C. subtilis</i> Cleve	45
<i>C. teres</i> Cleve	32, 59
<i>C. wighamii</i> Brightwell	21-22, 32, 45, 55-56, 82
<i>Chaetoceros</i> sp./spp. Ehrenberg	12, 15-16, 19, 27, 29, 45, 54-55, 77, 86-88, 91
<i>Cocconeis costata</i> Gregory	17, 25, 27, 32, 89
<i>C. disculus</i> (Schumann) Cleve	40
<i>C. finmarchica</i> Grunow	88
<i>C. pediculus</i> Ehrenberg	54
<i>C. placentula</i> Ehrenberg	19, 40
<i>C. placentula</i> var. <i>euglypta</i> (Ehrenberg) Grunow	17, 25
<i>C. scutellum</i> Ehrenberg	5, 17, 25, 40, 88-89
<i>C. scutellum</i> var. <i>minutissima</i> Grunow	39, 56, 58
<i>C. scutellum</i> var. <i>parva</i> (Grunow) Cleve	17, 25
<i>C. scutellum</i> var. <i>stauroneiformis</i> Smith	17, 25, 59
<i>C. speciosa</i> Gregory	88
<i>C. stauroneiformis</i> (Smith) Okuno	88
<i>Cocconeis</i> sp./spp. Ehrenberg	21, 67, 88
<i>Corethron criophilum</i> Castracane	61
<i>Coscinodiscus asteromphalus</i> Ehrenberg	40, 90
<i>C. bouvet</i> Karsten	61
<i>C. concinnus</i> Smith	45, 89
<i>C. curvatulus</i> Grunow	5-6
<i>C. decrescens</i> var. <i>polaris</i> Grunow	40
<i>C. excentricus</i> Ehrenberg	32
<i>C. kützingii</i> var. <i>glacialis</i> Grunow	17, 25, 69
<i>C. lacustris</i> var. <i>septentrionalis</i> (Grunow) Rattray	17, 25, 32
<i>C. oculus-iridis</i> Ehrenberg	5, 69
<i>C. polyacanthus</i> Grunow	17, 25
<i>C. radiatus</i> Ehrenberg	19
<i>C. stellaris</i> (Roper) Hasle & Sims	22
<i>C. subtilis</i> Ehrenberg	39, 56, 58
<i>Coscinodiscus</i> sp./spp. Ehrenberg	27, 29-30, 86
<i>Craspedopleura kryophila</i> (Cleve) Poulin	17, 24, 25, 27, 29, 39, 43, 54-56, 58, 60, 64, 77, 88
<i>Ctenophora pulchella</i> (Ralfs ex Kützing) Williams & Round	17, 25, 32, 40, 88
<i>Cyclotella caspia</i> Grunow	89-90
<i>C. kuetzingiana</i> Thwaites	88
<i>C. litoralis</i> Lange & Syvertsen	89
<i>C. meneghiniana</i> Kützing	40, 59, 88
<i>C. radiosa</i> (Grunow) Lemmermann	8
<i>C. socialis</i> Schütt	40
<i>C. striata</i> (Kützing) Grunow	32, 88-89
<i>C. striata</i> var. <i>ambigua</i> (Grunow) Grunow	32
<i>Cyclotella</i> sp./spp. (Kützing) Brébisson	45, 69, 87-88
<i>Cylindrotheca closterium</i> (Ehrenberg) Reimann & Lewin	5, 11-13, 15, 17, 21-22, 25, 27, 29-30, 32, 36, 39, 43, 45, 54-56, 58-59, 61, 64, 67, 69, 77, 82-83, 86-91
<i>Cymbella ventricosa</i> var. <i>semicircularis</i> (Lagerstedt) Østrup	32
<i>Cymbella</i> sp./spp. Agardh	40, 69, 88
<i>Dactyliosolen fragilissimus</i> (Bergon) Hasle	89
<i>Detonula confervacea</i> (Cleve) Gran	25, 30, 56, 88, 90

<i>Diatoma tenuis</i> Agardh	40, 45, 89-91
<i>Diatoma</i> spp. Bory	88
<i>Diploneis chersonensis</i> (Grunow) Cleve	59, 69
<i>D. didyma</i> (Ehrenberg) Cleve	17, 25, 29, 88-89
<i>D. domblittensis</i> (Grunow) Cleve	39, 43
<i>D. hiemale</i> f. <i>turgidula</i> Kützing	55-56
<i>D. incurvata</i> (Gregory) Cleve	17, 25, 40
<i>D. lineata</i> (Donkin) Cleve	12, 17, 25
<i>D. litoralis</i> (Donkin) Cleve	5, 16, 21, 25, 27, 30, 32, 69, 88-91
<i>D. litoralis</i> var. <i>arctica</i> Cleve	17, 23, 25, 27, 29, 39, 43, 55-56, 58-59, 64, 67, 69, 87-88
<i>D. litoralis</i> var. <i>clathrata</i> (Østrup) Cleve	1, 6, 17, 23, 25, 27, 29, 39, 43, 54-56, 58-59, 64, 67, 69, 87-89
<i>D. oblongella</i> (Naegeli) Ross	69
<i>D. oestrupii</i> Hustedt	25, 56, 58, 64
<i>D. ovalis</i> (Hilse) Cleve	69
<i>D. smithii</i> (Brébisson) Cleve	5-6, 13, 17, 25, 40, 54, 88
<i>D. smithii</i> var. <i>recta</i> Peragallo	23, 29
<i>D. splendida</i> (Gregory) Cleve	40
<i>D. subcincta</i> (Schmidt) Cleve	13
<i>D. suborbicularis</i> (Gregory) Cleve	40
<i>D. vacillans</i> (Schmidt) Cleve	17, 25, 29
<i>Diploneis</i> sp./spp. Ehrenberg	15-16, 21, 45, 67, 82e, 86
<i>Ditylum brighwellii</i> (West) Grunow	90
<i>Entomoneis alata</i> (Ehrenberg) Ehrenberg	22, 67, 69, 88-90
<i>E. gigantea</i> var. <i>septentrionalis</i> (Grunow) Poulin & Cardinal	1, 5-6, 17, 25, 28-29, 39, 43, 55-56, 58, 64, 67, 69, 88
<i>E. kjellmanii</i> (Cleve) Poulin & Cardinal	1, 5-6, 17, 21-22, 25, 28-29, 32, 39, 43, 54, 56, 58-59, 64, 67, 69, 82, 87, 89
<i>E. kjellmanii</i> var. <i>kariana</i> (Grunow) Poulin & Cardinal	17, 25, 28-29, 32, 43, 45, 55-56, 67, 69, 88
<i>E. kjellmanii</i> var. <i>striolata</i> (Grunow) Witkowski, Lange-Bertalot & Metzeltin	17, 25, 69
<i>E. kjellmanii</i> var. <i>subtilis</i> (Grunow) Poulin & Cardinal	28-29, 43, 55-56, 64, 67, 69, 88-90
<i>E. kryophila</i> (Cleve) Okolodkov	8-9, 17, 25, 39, 43, 55-56, 58, 64, 82
<i>E. paludosa</i> (Smith) Reimer	1, 5-6, 69, 89-90
<i>E. paludosa</i> var. <i>hyperborea</i> (Grunow) Poulin & Cardinal	1, 5, 12-13, 22, 28-29, 36, 39, 43, 55-56, 58, 64, 67, 69, 87-89
<i>E. punctulata</i> (Grunow) Osada & Kobayasi	1, 6, 12, 69, 89-90
<i>Entomoneis</i> sp./spp. Ehrenberg	29, 43, 55, 67, 86-88
<i>Ephemera planamembranacea</i> (Hendey) Paddock	87
<i>Epithemia adnata</i> (Kützing) Rabenhorst	40
<i>Eucampia antarctica</i> Castracane	61
<i>Eucampia groenlandica</i> Cleve	25, 27, 30, 32, 89
<i>E. zodiacus</i> Ehrenberg	27
<i>E. zodiacus</i> var. <i>recta</i> (Kisselev) Kisselev	45
<i>Eucampia</i> sp./spp. Ehrenberg	17, 91
<i>Eunotia arcus</i> Ehrenberg	32
<i>E. curvata</i> (Kützing) Lagerstedt	32, 40
<i>E. divisa</i> Heribaud	32
<i>E. monodon</i> Ehrenberg	32, 54, 59
<i>E. pectinalis</i> (Müller) Rabenhorst	40
<i>E. pectinalis</i> var. <i>minor</i> (Kützing) Rabenhorst	55-56, 59
<i>E. praerupta</i> var. <i>musciicola</i> Petersen	59
<i>E. vanheurckii</i> Patrick	40
<i>E. veneris</i> (Kützing) De Toni	40
<i>Eunotia</i> sp./spp. Ehrenberg	22, 29, 69
<i>Eunotogramma productum</i> (Grunow) Van Hoeffen	40
<i>Fallacia clepsidroides</i> Witkowski	88
<i>F. forcipata</i> (Greville) Stickle & Mann	5, 17, 21, 25, 27, 32, 40, 59, 69, 77, 89
<i>F. forcipata</i> var. <i>densestriata</i> (Greville) Stickle & Mann	24, 29, 39, 43, 54-56, 58, 67, 69, 88

<i>F. pygmaea</i> (Kützing) Stickle & Mann	17, 25, 27, 69
<i>F. reichardtii</i> (Grunow) Witkowski, Lange-Bertalot & Metzeltin ²	5, 54, 69
<i>Fossula arctica</i> Hasle, Syvertsen & von Quillfeldt	88-91
<i>Fragilaria alpestris</i> Krasske	54
<i>F. bicapitata</i> Mayer	32
<i>F. capucina</i> Desmazières	88
<i>F. constricta</i> Ehrenberg	6
<i>F. crotonensis</i> Kitton	4, 45, 89-91
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<i>F. hennediana</i>	90
<i>F. hyalina</i> (Kützing) Grunow	6
<i>F. islandica</i> Grunow	6, 32, 45, 69
<i>F. schulzii</i> Brockmann	88
<i>F. striatula</i> Lyngbye	19, 32, 67, 87, 89- 90
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<i>Fragilariforma oceanica</i>	25
<i>Fragilariforma virescens</i> (Ralfs) Williams & Round	4, 40
<i>Fragilariopsis curta</i> (Van Heurck) Hustedt	17, 25, 61
<i>F. cylindroformis</i> (Hasle) Hasle	77
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<i>F. oceanica</i> (Cleve) Hasle	1, 5-6, 11-13, 15-17, 21, 25, 27, 29-30, 32, 36, 43, 45, 53-56, 59, 64, 67, 69, 83, 87-91
<i>F. pseudonana</i> (Hasle) Hasle	32
<i>F. rhombica</i> (O'Meara) Hustedt	17, 25
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<i>Fragilariopsis</i> sp./spp. Hustedt emend. Hasle	15, 83, 91
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<i>Gomphonema acuminatum</i> Ehrenberg	59
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<i>G. augur</i> Ehrenberg	32
<i>G. gracile</i> Ehrenberg	32
<i>G. parvulum</i> (Kützing) Kützing	88
<i>G. rectum</i> (Donkin) Cleve	40
<i>G. septentrionale</i> Østrup	5, 28-29, 43, 69, 89-90
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<i>Gomphonema</i> sp./spp. Ehrenberg	29, 40, 59, 69
<i>Gomphonemopsis exigua</i> (Kützing) Medlin ⁴	1, 5-6, 8-9, 11-12, 15, 17, 21-22, 25, 27, 32, 36, 39, 43, 69, 88, 89, 90
<i>G. litoralis</i> (Hendey) Medlin	88
<i>Grammatophora angulosa</i> Ehrenberg	17, 25, 27
<i>G. arctica</i> Cleve	17, 25, 32, 89
<i>G. arcuata</i> Ehrenberg	88
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<i>G. marina</i> (Lyngbye) Kützing	45
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<i>Grammatophora</i> sp. Stephens	88
<i>Guinardia delicatula</i> (Cleve) Hasle	89
<i>Gyrosigma acuminatum</i> (Kützing) Rabenhorst	39, 43, 55-56, 58
<i>G. arcticum</i> (Cleve) Cleve	53, 69
<i>G. balticum</i> (Ehrenberg) Rabenhorst	13
<i>G. compactum</i> (Greville) Cleve	89-90
<i>G. concilians</i> (Cleve) Poulin & Cardinal	12, 15, 17, 25, 28-29, 32, 43, 44, 52, 55-56, 59, 64, 67, 87-88
<i>G. concilians</i> var. <i>constricta</i> Okolodkov	39, 58
<i>G. distortum</i> (Smith) Griffith & Henfrey	23, 29, 55-56, 69, 87
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<i>G. hudsonii</i> Poulin & Cardinal	23, 25, 29, 39, 43, 55-56, 58, 64, 67, 87-88
<i>G. prolongatum</i> (Smith) Griffith & Henfrey	55-56
<i>G. tenuissimum</i> (Smith) Griffith & Henfrey	13, 21, 39, 43, 55-56, 69
<i>G. tenuissimum</i> var. <i>hyperborea</i> (Grunow) Cleve	23, 25, 29, 55-56, 58, 64, 67, 87-90
<i>Gyrosigma</i> sp./spp. Hassall	45, 66, 87
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<i>H. weyprechtii</i> Grunow	1, 6, 17, 25, 42, 67, 87
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<i>Haslea crucigera</i> (Smith) Cleve	13, 43, 69
<i>H. crucigeroides</i> (Hustedt) Simonsen	5, 8-9, 17, 24, 25, 27, 29-30, 32, 43, 55-56, 58, 64, 67, 87, 88
<i>H. crucigeroides</i> var. <i>densestriata</i> Cardinal et al.	43, 55-56, 58
<i>H. crystallina</i> (Hustedt) Simonsen	88
<i>H. kjellmanii</i> (Cleve) Simonsen	25, 55-56, 58-59, 64, 67, 87-88
<i>H. vitrea</i> (Cleve) Simonsen	55-56, 58, 67, 87-88
<i>Haslea</i> sp./spp. Simonsen	89
<i>Hemiaulus kittonii</i> Grunow	59
<i>Hippodonta linearis</i> (Østrup) Lange -Bertalot, Metzeltin & Witkowski	59
<i>Lauderia annulata</i> Cleve	90
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<i>L. communis</i> (Heiberg) Grunow	89
<i>L. dalmatica</i> (Kützing) Grunow	17, 25
<i>L. ehrenbergii</i> (Kützing) Grunow	13
<i>L. gracilis</i> (Ehrenberg) Grunow	17, 25, 89
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<i>L. tenuis</i> (Kützing) Grunow	12
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<i>Manguinea fusiformis</i> (Manguin) Paddock	61
<i>M. rigida</i> (M. Peragallo) Paddock	61
<i>Mastogloia angulata</i> Lewis	40
<i>M. apiculata</i> Smith	40
<i>M. gallica</i> (Smith) Cleve	39
<i>Mastogloia</i> sp./spp. Thwaites ex Smith	86, 89-90
<i>Melosira arctica</i> Dickie	1, 6, 17, 21, 25, 27, 29-30, 32, 36, 39, 43, 45, 53-56, 58, 64, 67, 69, 77, 82, 88-90
<i>M. distans</i> (Ehrenberg) Kützing	32
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<i>M. granulata</i> (Ehrenberg) Ralfs	4, 6
<i>M. islandica</i> Muller	32
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<i>N. apiculata</i> Brébisson	32
<i>N. bipennata</i>	69
<i>N. bolleana</i> (Grunow) Cleve	22
<i>N. calida</i> Hendey	17, 21, 25, 32, 40, 69
<i>N. cluthensis</i> Gregory	17, 25, 30
<i>N. cluthensis</i> var. <i>pagophila</i> Grunow	17, 25
<i>N. crassirostris</i> Grunow	17, 25, 27, 32
<i>N. cryptocephala</i> Kützing	32, 59, 69
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<i>N. derasa</i> Grunow	1, 6, 8-9, 13, 15, 17, 22, 24-25, 27, 29, 54-56, 58, 64, 69, 87, 88, 89
<i>N. derasa</i> var. <i>transitans</i> Ross ⁵	1, 8-9, 12, 17, 24-25, 27, 29-30, 32, 36, 39, 43, 55-56, 58-59, 64, 67, 69, 87, 88
<i>N. detersa</i> (Grunow) Gran	6
<i>N. digito-radiata</i> (Gregory) Ralfs	17, 21, 25
<i>N. directa</i> (Smith) Ralfs	1, 5-6, 8-9, 13, 17, 21-22, 24-25, 27, 29-30, 32, 36, 39-40, 43, 54-56, 58-59, 64, 67, 69, 82, 87-89
<i>N. directa</i> var. <i>cuneata</i>	69
<i>N. directa</i> var. <i>javanica</i> Cleve	17, 24-25, 29, 56, 58, 67, 88
<i>N. directa</i> var. <i>remota</i> Grunow	5
<i>N. directa</i> var. <i>subtilis</i> (Gregory) Cleve	17, 25, 32
<i>N. eidrigeana</i> Carter	5
<i>N. flantica</i> var. <i>ammophila</i> (Grunow) Ross	5
<i>N. frauenfeldtii</i>	69
<i>N. galikii</i> (Pantocsek) Cleve	40
<i>N. gelida</i> var. <i>radissonii</i> Poulin & Cardinal	24, 29, 55-56, 58
<i>N. glacialis</i> (Cleve) Grunow	17, 24-25, 29, 39-40, 43, 55-56, 58, 64, 69, 89
<i>N. glacialis</i> var. <i>hudsonii</i> Poulin & Cardinal	24, 29, 59, 64
<i>N. glaciei</i> Van Heurck	24, 29, 39, 43, 55-56, 58, 88
<i>N. graciloides</i> Mayer	40
<i>N. granii</i> (Jørgensen) Gran	5-6, 17, 25, 32, 45, 67, 87-90
<i>N. gregaria</i> Donkin	88
<i>N. grevillei</i> (Agardh) Heiberg	5, 40
<i>N. hyalosira</i> Cleve	29
<i>N. imperfecta</i> Cleve	5, 17, 24-25, 29, 39, 43, 55-56, 58, 64, 67, 88
<i>N. impexa</i> Hustedt	24, 29, 39, 43, 54-55, 56, 58, 64, 67, 87, 88
<i>N. insocialis</i> var. <i>lapponica</i>	69
<i>N. kariana</i> Grunow	5, 17, 21, 25, 29, 39-40, 43, 59, 64, 67, 69
<i>N. kariana</i> var. <i>curta</i> (Cleve) Ross	6, 17, 21-22, 24-25, 27, 29, 32, 54, 67, 69, 87-89
<i>N. kariana</i> var. <i>detersa</i> Grunow	1, 17, 25, 27, 29, 39, 43, 55-56, 58, 64, 67, 69, 88
<i>N. kariana</i> var. <i>frigida</i> (Grunow) Cleve	5, 24, 29, 32, 43, 55-56, 58, 69, 88
<i>N. kariana</i> var. <i>genuina</i>	69
<i>N. kepesii</i> Grunow	1, 6, 69
<i>N. kjellmanii</i> (Cleve) Cleve	6, 8-9, 16-17, 22, 24-25, 29-30, 39, 43
<i>N. kryokonites</i> Cleve	24, 29, 43, 55-56, 64, 67
<i>N. kryokonites</i> var. <i>subprotracta</i> Cleve	24, 29, 55-56, 58, 64, 67, 88
<i>N. kuparinensis</i> var. <i>borealis</i> Poulin & Cardinal	24, 29
<i>N. laevis</i> Cleve	40
<i>N. latissima</i> Gregory	32
<i>N. lineola</i> var. <i>perlepida</i> (Grunow) Cleve	24, 29, 67, 69, 88
<i>N. litoides</i>	13

<i>N. ludloviana</i> var. <i>unilateralis</i> Poulin & Cardinal	24, 29
<i>N. maculosa</i> Donkin	22, 69
<i>N. marina</i> Ralfs	12, 15, 17, 22, 25, 36, 69
<i>N. meniscus</i> Schumann	69, 89
<i>N. microcephala</i> Grunow	89
<i>N. minima</i> Grunow	32
<i>N. minuscula</i> var. <i>muralis</i> (Grunow) Lange-Bertalot	40
<i>N. moniliformis</i>	89
<i>N. northumbrica</i> Dank	6
<i>N. novadeciapiens</i> Hustedt	5, 17, 24-25, 27, 29, 55-56, 67, 88
<i>N. obsidialis</i> Hustedt	5, 8-9, 17, 25, 43, 55-56, 58, 64, 67
<i>N. oestrupi</i> Cleve	17, 24-25, 29, 39, 43, 55-56, 58
<i>N. oestrupioides</i> Hustedt	67
<i>N. pagophila</i> Grunow	6
<i>N. pagophila</i> var. <i>manitounukensis</i> Poulin & Cardinal	24, 29
<i>N. palpebralis</i> Brébisson	88
<i>N. pelagica</i> Cleve	5-6, 21-22, 24, 27, 29, 39, 43, 45, 53, 55-56, 58, 64, 67, 82, 87-90
<i>N. pellucida</i> Karsten	17, 25, 89
<i>N. pellucidula</i> Hustedt	56, 58, 67, 77, 87-88
<i>N. pellucidula</i> f. <i>contracta</i> (Østrup) Hustedt	24, 29, 67
<i>N. peregrina</i> (Ehrenberg) Kützing	5, 16, 25, 32, 64, 69
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<i>N. perlepida</i> Grunow	6
<i>N. perlucens</i> Østrup	17, 25, 32
<i>N. pinnata</i>	69
<i>N. placentula</i> (Ehrenberg) Kützing	59
<i>N. placentula</i> var. <i>latiuscula</i> (Grunow) Meister	69
<i>N. punctulata</i> var. <i>pagophila</i>	69
<i>N. pusilla</i> Smith	69
<i>N. recurvata</i> Gran	1, 6, 17, 25, 27, 67, 87
<i>N. rhynchocephala</i> Kützing	5, 21, 27, 40, 88
<i>N. salinarum</i> Grunow	17, 19, 21, 25, 27, 32, 54, 88
<i>N. septentrionalis</i> (Grunow) Gran	6, 17, 21, 29, 39, 43, 45, 55-56, 58, 64, 67, 82, 87-89
<i>N. sibirica</i> (Grunow) Cleve	1, 6, 12, 15, 17, 24-25, 29-30, 39, 43, 55-56, 58, 64, 67, 88
<i>N. siofokensis</i> Pantocsek	69
<i>N. socialis</i> Gregory	5, 69
<i>N. solitaria</i> Cleve	12, 17, 24-25, 29, 39, 55-56, 58-59, 67, 88
<i>N. subdelicata</i> var. <i>subarctica</i> Poulin & Cardinal	24, 29
<i>N. subinflata</i> (Grunow) Grunow	17, 24-25, 29-30, 59, 64
<i>N. superba</i> Cleve	1, 5-6, 17, 24-25, 39, 43, 54-56, 58, 67, 88-89
<i>N. superba</i> var. <i>crassa</i> (Østrup) Gran	17, 25, 64, 67
<i>N. superba</i> var. <i>elliptica</i> Cleve	5, 17, 24-25, 29, 55-56, 58, 64
<i>N. superba</i> var. <i>subacuta</i> Gran	17, 24-25, 29, 39, 43, 55-56, 58, 67, 87
<i>N. transfuga</i> Grunow	17, 25, 29
<i>N. transfuga</i> var. <i>plagiostoma</i> (Grunow) Cleve	17, 25
<i>N. transfuga</i> var. <i>septentrionalis</i> Østrup	17, 25
<i>N. trigonocephala</i> Cleve	1, 6, 8-9, 12, 15, 17, 22, 25, 27, 39, 59, 64, 67, 77, 87-88
<i>N. trigonocephala</i> var. <i>contracta</i> Østrup	17, 25
<i>N. trigonocephala</i> var. <i>depressa</i> Østrup	17, 24-25, 27, 29, 32, 43, 54-56, 58, 64, 67, 87-88
<i>N. trigonocephala</i> var. <i>depressa</i> f. <i>minor</i> Østrup	56, 58
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<i>N. ungavae</i> Poulin & Cardinal	24, 29, 43, 55
<i>N. valida</i> Cleve & Grunow	1, 6, 8-9, 12, 15, 17, 21, 24-25, 27, 29, 39, 43, 54-56, 58, 64, 67, 69, 88
<i>N. valida</i> var. <i>minuta</i> Cleve	1, 6, 17, 22, 24-25, 27, 29, 39, 43, 55-56, 58, 67, 69

<i>N. valida</i> var. <i>vanhoeffenii</i>	69
<i>N. vanheurckii</i> Patrick	69
<i>N. vanhoeffenii</i> Gran	21, 29, 32, 39, 43, 45, 53, 55-56, 58, 67, 69, 83, 86-91
<i>N. veneta</i> Kützing	40
<i>N. vitrea</i> (Cleve) Cleve	24, 29, 39, 43, 69
<i>Navicula</i> sp./spp. Bory	4, 11, 15, 19, 21, 27, 29-30, 40, 45, 59, 61, 67, 77, 82e, 86-88, 91
<i>Navicula</i> Bory / <i>Plagiotropis</i> sp. Pfitzer emend. Paddock	83
<i>Neidium affine</i> (Ehrenberg) Pfitzer	32
<i>Nitzschia acicularis</i> (Kützing) Smith	1, 6, 17, 25, 32, 45, 69
<i>N. acuminata</i> (Smith) Grunow	17, 25, 32, 40
<i>N. angularis</i> Smith ⁷	17, 21-22, 25, 27-29, 32, 39, 43, 55-56, 58, 64, 67, 69, 88
<i>N. arctica</i> Cleve	39-40, 42-43, 55-56, 58, 64, 69, 88
<i>N. asteroides</i> Müller	21
<i>N. barbieri</i> M. Peragallo	61
<i>N. bilobata</i> Smith	13
<i>N. brebissonii</i> Smith	5, 29
<i>N. brebissonii</i> var. <i>borealis</i> Cleve	17, 25, 27-28, 39, 42-43, 55-56, 58, 64, 67, 87-88
<i>N. diaphana</i> Cleve	17, 25
<i>N. dissipata</i> (Kützing) Grunow	21, 27, 89
<i>N. distans</i> Gregory	5, 21, 27, 32, 77, 88
<i>N. distans</i> var. <i>erratica</i> Cleve	17, 25, 28-29, 43, 55-56, 58, 64, 67, 88
<i>N. fluminensis</i> Grunow	32
<i>N. fragilis</i>	69
<i>N. frigida</i> Grunow	4-6, 11-13, 15-17, 21-22, 25, 27-30, 32, 36, 39, 42-43, 45, 53, 54-56, 58-59, 64, 67, 69, 77, 82-83, 87-91
<i>N. frustulum</i> (Kützing) Grunow	32, 88
<i>N. frustulum</i> var. <i>perpusilla</i> (Rabenhorst) Grunow	32
<i>N. gelida</i> Grunow	5, 17, 25, 39, 43, 55-56, 58, 64, 88
<i>N. gelida</i> var. <i>manitounukensis</i> Poulin & Cardinal	28-29, 67, 87
<i>N. gruendleri</i> Grunow	17, 25
<i>N. homburgiensis</i> Lange-Bertalot	40
<i>N. hudsonii</i> Poulin & Cardinal	28-29, 43, 67, 87-88
<i>N. hybrida</i> Grunow	17, 25, 27-29, 39, 43, 55-56, 58, 67, 88-89
<i>N. intermedia</i> Hantzsch	40
<i>N. kryophila</i> Cleve	28-29, 39, 56, 58
<i>N. laevis</i> Grunow	1, 5-6, 13, 17, 25, 27-29, 39, 42-43, 54-56, 58, 64, 67, 69, 82, 87-88
<i>N. lanceolata</i> Wm. Smith	39, 43, 67, 88
<i>N. lanceolata</i> var. <i>pygmaea</i> Cleve	17, 25, 28-29, 55-56, 58, 64, 87-88
<i>N. lanceolata</i> var. <i>pygmaea</i> f. <i>costata</i> Okolodkov	55-56, 58
<i>N. lecointei</i> Van Heurck	17, 25, 61
<i>N. linearis</i> (Agardh) Smith	17, 25, 27, 32, 55, 88
<i>N. lineata</i> (Castracane) Hasle	17, 25, 32, 61
<i>N. longissima</i> (Brébisson) Grunow	17, 21, 25, 27, 29-30, 43, 45, 55, 69, 87-91
<i>N. marginulata</i> Grunow	17, 25, 32
<i>N. neofrigida</i> Medlin	42, 53, 67, 77, 88-89
<i>N. obliquecostata</i> (Van Heurck) Hasle	17, 25, 61
<i>N. pellucida</i> Grunow	88
<i>N. polaris</i> Grunow	1, 6, 17, 25, 27-29, 39-40, 42-43, 45, 54-56, 58-59, 64, 67, 69, 88-89
<i>N. promare</i> Medlin	42, 53, 56, 58-59, 67, 87-90
<i>N. punctata</i> (Smith) Grunow	5
<i>N. recta</i> Hantzsch	32, 89
<i>N. reversa</i> Smith	13, 69
<i>N. scabra</i> Cleve	39, 42-43, 55-56, 58, 64, 67, 82, 87-89
<i>N. sigma</i> (Kützing) Smith	5, 21, 27, 32, 69, 88
<i>N. sigma</i> var. <i>rigida</i> (Kützing) Grunow	6

<i>N. sigmoidea</i> (Nitzsch) Smith	22, 43, 55, 69, 89-90
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<i>N. subtilis</i> var. <i>glacialis</i> Grunow	5, 22
<i>N. taeniformis</i> Simonsen	61
<i>N. tenuirostris</i> Mereschkowsky	45
<i>N. tergestina</i> (Kützing) Ralfs	17, 25, 32
<i>N. tryblionella</i> Hantzsch	54
<i>N. vanheurckii</i> (M. Peragallo) Hasle	61
<i>N. vidovichii</i> Grunow	55-56, 58
<i>N. wankaremae</i> Cleve	39, 43, 55-56, 58, 64
<i>Nitzschia</i> sp./spp. Hassall	11, 15-16, 21, 27, 29-30, 43, 45, 55, 59, 67, 86-88, 91
<i>Odontella aurita</i> (Lyngbye) Agardh	17, 25, 39-40, 45, 56, 58, 64, 69, 88-89, 91
<i>O. granulata</i> (Roper) Ross	40
<i>Opephora olsenii</i> Møller	88
<i>Paralia sulcata</i> (Ehrenberg) Cleve	39-40, 45, 56, 58, 88-91
<i>Parlibellus protractus</i> (Grunow) Witkowski, Lange-Bertalot & Metzeltin	40, 89-90
<i>Pauliella taeniata</i> (Grunow) Round & Basson	4, 6, 17, 21, 25, 29, 32, 39, 43, 53, 55-56, 58, 64, 88-90
<i>Petrodictyon gemma</i> (Ehrenberg) Mann	67
<i>Petronis humerosa</i> (Brébisson ex Smith) Stickle & Mann	40
<i>Pinnularia ambigua</i> Cleve	17, 23, 27, 29, 39, 43, 55-56, 58, 67, 69
<i>P. appendiculata</i> (Agardh) Cleve	32, 40, 59
<i>P. baltica</i> (Schulz) Cleve-Euler	40
<i>P. borealis</i> Ehrenberg	32
<i>P. globiceps</i> Gregory	59
<i>P. globiceps</i> var. <i>krockii</i> (Grunow) Cleve	40
<i>P. interrupta</i> var. <i>minutissima</i> Hustedt	59
<i>P. molaris</i> (Grunow) Cleve	54
<i>P. polaris</i> Heiden	23, 29, 43, 56, 64
<i>P. quadratarea</i> (Schmidt) Cleve	5, 8-9, 13, 17, 21-23, 25, 27, 29, 32, 36, 43, 54-56, 58-59, 69, 82e
<i>P. quadratarea</i> var. <i>balticum</i> Grunow	40, 69
<i>P. quadratarea</i> var. <i>bicontracta</i> (Østrup) Heiden	8-9, 17, 23, 25, 27, 29, 32, 39, 43, 55-56, 58, 64, 67, 87-88
<i>P. quadratarea</i> var. <i>bicuneata</i> Heiden & Kolbe	17, 23, 25, 32, 39, 43, 56, 58, 87
<i>P. quadratarea</i> var. <i>borealis</i>	69
<i>P. quadratarea</i> var. <i>capitata</i> Heiden	8-9, 23, 29, 32, 43, 55-56, 58, 64, 88
<i>P. quadratarea</i> var. <i>constricta</i> (Østrup) Heiden	1, 6, 9, 17, 23, 25, 27, 29, 39, 43, 55-56, 58, 64, 67, 69, 87-89
<i>P. quadratarea</i> var. <i>constricta</i> f. <i>interrupta</i> Heiden	23, 29, 43, 56, 58, 64
<i>P. quadratarea</i> var. <i>cuneata</i> (Østrup) Østrup	23, 25, 29, 56, 58, 67, 88
<i>P. quadratarea</i> var. <i>densestriata</i> Cleve	17, 25, 32, 67, 88
<i>P. quadratarea</i> var. <i>dubia</i> Heiden	23, 29, 43, 56, 64, 67, 88
<i>P. quadratarea</i> var. <i>fluminensis</i>	69
<i>P. quadratarea</i> var. <i>kerguelensis</i> (Cleve & Grunow) Cleve	22
<i>P. quadratarea</i> var. <i>leptostauron</i> (Cleve) Cleve	17, 23, 25, 29, 32, 43, 55-56
<i>P. quadratarea</i> var. <i>maxima</i> (Østrup) Boyer	17, 23, 25, 29, 39, 55-56, 58, 64, 67, 88
<i>P. quadratarea</i> var. <i>minima</i> (Østrup) Boyer	17, 25
<i>P. quadratarea</i> var. <i>minor</i> (Østrup) Heiden	23, 29, 54-56, 58, 64, 67, 69, 88
<i>P. quadratarea</i> var. <i>patrickae</i> Poulin & Cardinal	23, 29, 39, 56, 58
<i>P. quadratarea</i> var. <i>stuxbergii</i> (Cleve) Heiden	1, 6, 8-9, 17, 23, 25, 29, 32
<i>P. quadratarea</i> var. <i>subconstricta</i> (Østrup) Heiden	17, 25
<i>P. quadratarea</i> var. <i>subcontinua</i> (Cleve) Cleve	17, 25
<i>P. quadratarea</i> var. <i>subglabra</i> (Østrup) Poulin & Cardinal	17, 23, 25, 29, 39, 43, 56, 58, 88
<i>P. quadratarea</i> var. <i>theelii</i> (Cleve) Cleve	22
<i>P. rupestris</i> Hantzsch	88
<i>P. semiinflata</i> (Østrup) Gran	1, 6, 8-9, 17, 23, 25, 27, 29, 43, 54-56, 58, 64, 67, 87-88
<i>P. semiinflata</i> var. <i>decipiens</i> (Cleve) Gran	8-9, 17, 23, 25, 29, 43, 55-56, 58

<i>P. spitsbergensis</i> Cleve	6, 69
<i>P. streptoraphe</i> Cleve	40
<i>P. yarrensii</i> (Grunow) Jurilj	40
<i>Pinnularia</i> sp./spp. Ehrenberg	15, 19, 21, 27, 45, 67, 86- 88
<i>Placoneis clementis</i> (Grunow) Cox	13, 30, 88
<i>P. elginensis</i> (Gregory) Cox	69
<i>P. gastrum</i> (Ehrenberg) Kützing	6, 17, 21, 25, 27, 32, 69
<i>Plagiogramma staurophorum</i> (Gregory) Heiberg	17, 25, 40
<i>Plagiotropis elegans</i> (Smith) Grunow	69
<i>P. lepidoptera</i> (Gregory) Kuntze	28-29, 69, 89-90
<i>P. longa</i> (Cleve) Kuntze	67, 69, 88
<i>P. maxima</i> (Gregory) Poulin & Cardinal	17, 25, 28-29, 39, 43, 55-56, 58
<i>P. scaligera</i> Grunow in Cleve & Grunow	67, 88-90
<i>Plagiotropis</i> sp./spp. Pfitzer emend. Paddock	5, 13, 29, 69, 87, 89
<i>Planothidium delicatulum</i> (Kützing) Round & Bukhtiyarova	17, 25, 88-90
<i>Pleurosigma angulatum</i> (Quekett) Smith	17, 21, 25, 27, 30, 43, 45, 89-90
<i>P. antarcticum</i> Grunow	17, 25
<i>P. clevei</i> Grunow	6, 17, 23, 25, 29, 39, 43, 55-56, 58, 67, 88-90
<i>P. clevei</i> var. <i>manitounukensis</i> Poulin & Cardinal	23, 29
<i>P. delicatulum</i> Smith	55, 56, 69
<i>P. elongatum</i> Smith	21, 39, 43, 45, 69, 88
<i>P. elongatum</i> var. <i>fallax</i> (Grunow) Cleve	40
<i>P. elongatum</i> var. <i>kariana</i> (Grunow) Cleve	17, 25, 27
<i>P. finmarchicum</i> Cleve & Grunow	89-90
<i>P. formosum</i> Smith	89
<i>P. karianum</i> Grunow	6
<i>P. lanceolatum</i> var. <i>cuspidatum</i> (Rabenhorst) Ralfs	17, 21, 25
<i>P. longum</i> Cleve	13, 17, 25, 32
<i>P. marinum</i> Donkin	17, 21, 25, 32
<i>P. normanii</i> Ralfs	88-90
<i>P. siberica</i> (Grunow) Cardinal, Poulin & Bérard-Therriault	67, 87-88
<i>P. stuxbergii</i> Cleve & Grunow	1, 5-6, 8-9, 11-13, 15, 17, 23, 25, 29, 36, 43, 45, 55-56, 58, 64, 67, 69, 87-88
<i>P. stuxbergii</i> var. <i>minor</i> Grunow	17, 25, 43, 55-56
<i>P. stuxbergii</i> var. <i>rhomboides</i> (Cleve) Cleve	5-6, 8-9, 17, 23, 25, 39, 43, 55-56, 58, 64, 67, 87-88
<i>P. tenuiforme</i> von Quillfeldt	88
<i>Pleurosigma</i> sp./spp. Smith	27, 30, 61, 67, 88
<i>Porosira glacialis</i> (Grunow) Joergensen	6, 17, 25, 29, 39, 43, 53-56, 58, 61, 64, 88-90
<i>P. pseudodenticulata</i> (Hustedt) Jousé	61
<i>Proboscia alata</i> (Brightwell) Sundström	17, 25
<i>Pseudogomphonema arcticum</i> (Grunow) Medlin	53-56, 67, 82, 87-88
<i>P. groenlandicum</i> (Østrup) Medlin	1, 6, 17, 25, 28-29, 43, 54-56, 58-59, 64, 67, 69, 82, 87-88
<i>P. kamtschaticum</i> (Grunow) Medlin	5-6, 39, 55-56, 67, 69, 88-90
<i>P. septentrionale</i> (Østrup) Medlin	54-56, 58, 64, 87-88
<i>P. septentrionale</i> var. <i>angustum</i> (Østrup) Medlin	64, 67, 88
<i>Pseudonitzschia australis</i> Frenguelli	89-90
<i>P. delicatissima</i> (Cleve) Heiden	5-6, 12, 15, 17, 21, 25, 27, 29-30, 32, 39, 43, 55-56, 58, 67, 69, 77, 83, 87, 88-90
<i>P. fraudulenta</i> (Cleve) Hasle	69
<i>P. granii</i> (Hasle) Hasle	88-89
<i>P. pseudodelicatissima</i> (Hasle) Hasle	45, 67, 88-90
<i>P. pungens</i> (Grunow) Hasle	88, 89-90
<i>P. seriata</i> (Cleve) H. & M. Peragallo	3-6, 17, 21-22, 25, 30, 32, 43, 45, 56, 58, 64, 67, 66, 88
<i>P. seriata</i> f. <i>obtusa</i> (Hasle) Hasle	55, 67, 77, 88-90
<i>P. subcurvata</i> (Hasle) Fryxell	91

<i>P. turgiduloides</i> (Hasle) Hasle	61
<i>Pseudonitzschia</i> spp. H. Peragallo	88
<i>Rhabdonema arcuatum</i> (Lyngbye) Kützing	17, 25, 45, 89
<i>R. minutum</i> Kützing	25, 45, 56
<i>Rhaphoneis rhombica</i> (Grunow) Andrews	88
<i>Rhizosolenia hebetata</i> Bailey	17, 25, 30, 59, 77
<i>R. hebetata</i> f. <i>semispina</i> (Hensen) Gran	90
<i>R. setigera</i> Brightwell	29, 45
<i>Rhizosolenia</i> sp./spp. Brightwell	21, 27
<i>Rhoicosphaenia curvata</i> (Kützing) Grunow	21, 89
<i>Rhoicosphaenia</i> sp./spp. Grunow	69
<i>Rhopalodia gibba</i> (Ehrenberg) Müller	59
<i>Sellaphora bacillum</i> (Ehrenberg) Mann	40
<i>S. pupula</i> (Kützing) Mereschkowsky	69
<i>Skeletonema costatum</i> (Greville) Cleve	29, 32, 45, 88-90
<i>Stauroneis anceps</i> Ehrenberg	55, 59, 69
<i>S. anceps</i> var. <i>hyalina</i> M. Peragallo & Brun	39, 56, 58
<i>S. anceps</i> var. <i>subcapitata</i> Østrup	39, 56, 58
<i>S. pellucida</i> Cleve	39, 55, 58
<i>S. pellucida</i> var. <i>cuneata</i> Østrup	55-56, 58, 64
<i>S. pellucida</i> var. <i>pleurosigmaidea</i> Østrup	39, 55-56, 58
<i>S. phoenicenteron</i> (Nitzsch) Ehrenberg	69
<i>S. quadripedis</i> (Cleve-Euler) Hendey	22, 25, 27, 32
<i>S. radissonii</i> Poulin & Cardinal	23, 29, 56, 58-59, 64, 67, 77, 88
<i>S. septentrionalis</i> Grunow	32
<i>S. spicula</i> Hickie	17, 21-22, 24, 25, 27, 29, 36, 39-40, 69
<i>Stauroneis</i> sp./spp. Ehrenberg	69, 89
<i>Staurosira construens</i> (Ehrenberg) Williams & Round	40, 54
<i>Staurosirella lapponica</i> (Grunow) Williams & Round	40
<i>S. pinnata</i> (Ehrenberg) Williams & Round	17, 25, 32, 69, 88
<i>Stellarina microstrias</i> (Ehrenberg) Hasle & Sims	61
<i>S. stellaris</i> (Roper) Hasle & Sims	6
<i>Stenoneis inconspicua</i> (Gregory) Cleve	8-9, 56, 64
<i>S. inconspicua</i> var. <i>baculus</i> (Cleve) Cleve	17, 23, 25, 27, 29, 39, 43, 45, 55, 58, 67, 87-88
<i>S. obtuserostrata</i> (Hustedt) Poulin	45, 56, 58, 64, 67, 88
<i>Stenoneis</i> sp./spp. Cleve	69
<i>Surirella islandica</i> Østrup	40
<i>S. japonica</i> A. Schmidt	17, 25
<i>S. oestrupi</i> Gran	17, 25
<i>S. ovalis</i> Brébisson	59
<i>S. ovata</i> Kützing	32, 39, 54, 56, 58
<i>S. septentrionalis</i> Østrup	39, 56, 58
<i>S. striatula</i> Turpin	32
<i>Surirella</i> spp. Turpin	67
<i>Synedra acus</i> Kützing	56, 83
<i>S. fulgens</i> (Greville) Smith	89
<i>S. kamtschatica</i> Grunow	45
<i>S. kamtschatica</i> var. <i>finnmarchica</i> Cleve & Grunow	17, 25
<i>S. parasitica</i> (Smith) Hustedt	32
<i>S. ulna</i> (Nitzsch) Ehrenberg	59
<i>Synedra</i> sp./spp. Ehrenberg	13, 22, 45
<i>Synedropsis hyperborea</i> (Grunow) Hasle, Medlin & Syvertsen ⁸	6, 17, 25, 53, 55-56, 58, 64, 67, 82, 87-90
<i>S. hyperboreoides</i> Hasle, Syvertsen & Medlin	89-90
<i>Synedropsis</i> spp. Hasle, Medlin & Syvertsen	67

<i>Tabellaria binalis</i> (Ehrenberg) Grunow	89
<i>T. fenestrata</i> (Lyngbye) Kützing	4, 17, 25, 32, 54, 89-90
<i>T. flocculosa</i> (Roth) Kützing	17, 25, 32, 88, 90
<i>Tabularia fasciculata</i> (Agardh) Williams & Round	88
<i>T. investiens</i> (Smith) Williams & Round	40, 88
<i>T. tabulata</i> (Agardh) Snoeijis ⁹	5-6, 17, 25, 29, 45, 69
<i>Tabularia</i> spp. (Kützing) Williams & Round	88
<i>Thalassionema nitzschioides</i> (Grunow) Mereschkowsky	32, 45, 64, 83, 88-89
<i>Thalassiosira aestivalis</i> Gran	45
<i>T. angulata</i> (Gregory) Hasle	5-6, 17, 25, 32, 40, 43, 45, 56, 69, 83, 88-90
<i>T. anguste-lineata</i> (Schmidt) Fryxell & Hasle	6, 19, 45, 89
<i>T. antarctica</i> Comber ¹⁰	43, 45, 56, 59, 61, 64, 83, 89-90
<i>T. antarctica</i> var. <i>borealis</i> Fryxell, Douchette & Hubbard	88
<i>T. bioculata</i> (Grunow) Ostenfeld	1, 5-6, 17, 25, 53, 88-89
<i>T. bioculata</i> var. <i>exigua</i> (Grunow) Hustedt	17, 25
<i>T. bulbosa</i> Syvertsen	83, 89-90
<i>T. conferta</i> Hasle	88
<i>T. constricta</i> Gaarder	88, 90
<i>T. eccentrica</i> (Ehrenberg) Cleve	69
<i>T. gracilis</i> (Karsten) Hustedt	61
<i>T. gravida</i> Cleve	1, 4-6, 13, 17, 21-22, 25, 29-30, 43, 45, 56, 61, 89
<i>T. hispida</i> Syvertsen	53, 88
<i>T. hyalina</i> (Grunow) Gran	4-5, 22, 53-54, 67, 83, 88-90
<i>T. hyperborea</i> (Grunow) Hasle & Lange	53-56, 58, 64, 88-90
<i>T. hyperborea</i> var. <i>pelagica</i> (Cleve-Euler) Hasle	1, 27, 39, 43, 89
<i>T. hyperborea</i> var. <i>septentrionalis</i> (Grunow) Hasle	55-56, 58
<i>T. kryophila</i> (Grunow) Jörgensen	43, 56, 59
<i>T. kushirensis</i> Takano	53
<i>T. leptopus</i> (Grunow) Hasle & Fryxell	12
<i>T. nordenskiöldii</i> Cleve	1, 4-6, 12, 16-17, 21, 25, 27, 30, 32, 39-40, 43, 45, 54, 56, 58-59, 64, 69, 88-90
<i>T. oestrupii</i> (Ostenfeld) Hasle emend. Fryxell & Hasle	6, 17, 25, 32, 64
<i>T. oliverana</i> (O'Meara) Makarova	61
<i>T. ritscheri</i> (Hustedt) Hasle	61
<i>T. rotula</i> Meunier	32
<i>T. tumida</i> (Janisch) Hasle	61
<i>Thalassiosira</i> sp./spp. Cleve emend. Hasle	15-16, 19, 21, 29, 55, 69, 82e, 83, 87-88
<i>Thalassiothrix longissima</i> Cleve & Grunow	25, 30
<i>Thalassiothrix</i> sp./spp. Cleve & Grunow	12, 22, 69, 86
<i>Trachyneis aspera</i> (Ehrenberg) Cleve	5, 13, 17, 25, 40, 59, 89
<i>Triceratium arcticum</i> Brightwell	17, 25
<i>T. nobile</i> Witt	17, 25
<i>Tryblionella apiculata</i> Gregory	5
<i>T. litoralis</i> (Grunow) Mann	40, 89-90
<i>Tryblionella</i> sp./spp. Smith	89
<i>Undatella quadrata</i> (Brébisson ex Kützing) Paddock & Sims	89-90
unidentified pennate diatoms	12, 15, 21, 27, 43, 55-56, 59, 82e, 83, 87-89, 91
unidentified centric diatoms	21, 30, 59, 87-89, 91

Footnotes

1. recorded also as *Amphora laevissima* var. *minuta* Cleve
2. recorded also as *Navicula reichardtii* var. *tschuktschorum*
3. an aggregate of taxa including also *Gyrosigma spenceri* var. *exilis* (Grunow) Cleve and *Gyrosigma spenceri* var. *nodifera* (Smith) Griffith & Henfrey
4. recorded also as *Gomphonema exiguum* var. *arcticum* (Grunow) Cleve and *Gomphonema exiguum* var. *pachycladum* (Brébisson) Cleve
5. recorded also as *Navicula transitans* var. *asymmetrica* (Cleve) Cleve, *Navicula transitans* var. *erosa* (Cleve) Cleve, *Navicula transitans* var. *incudiformis* (Grunow) Cleve and *Navicula* cf. *transitans* var. *derasa* f. *delicatula*

6. recorded also as *Navicula gracilis* var. *inaequalis* Østrup
7. recorded also as *Nitzschia angularis* var. *kariana* Grunow
8. recorded also as *Synedra hyperborea* var. *rostellata* Grunow
9. recorded also as *Synedra tabulata* var. *fasciculata* (Lyngbye) Hustedt, *Synedra tabulata* var. *obtusa* (Pantocsek) Hustedt and *Synedra tabulata* var. *affinis*
10. recorded also as *Thalassiosira antarctica* var. *borealis* Fryxell, Doucette & Hubbard

Table 2. Checklist of unicellular and invertebrate organisms in Arctic sea ice (excl. diatoms). The abbreviations refer to: j = juvenile stages, r = resting stages, sn = snow alga, *italics*= uncertain identification

CYANOPHYTA	
<i>Anabaena</i> sp./spp. Bory	82, 88
<i>Aphanizomenon</i> sp./spp. Morren	4
<i>Nostoc</i> sp. Vaucher	58-59
<i>Spirulina</i> sp./spp. Turpin	32
unidentified Cyanophyta sp./spp.	29, 82, 88
CRYPTOPHYCEAE	
<i>Chroomonas marina</i> (Büttner) Butcher	89-90
<i>C. placoidea</i> Butcher	32
<i>Chroomonas</i> sp./spp. Hansgirg	15
<i>Cryptomonas</i> sp./spp. Ehrenberg	13, 19, 22
<i>Goniomonas amphinema</i> Larsen & Patterson	62
<i>Goniomonas</i> sp. Stein	68
<i>Hemiselmis</i> sp./spp. Parke	87, 90-91
<i>Hillea fusiformis</i> Schiller	89-90
<i>Hillea</i> spp. Schiller	87
<i>Katablepharis ovalis</i> Skuja	91
<i>Plagioselmis prolonga</i> Butcher	87
<i>Plagioselmis</i> sp. Butcher	89-90
<i>Rhodomonas baltica</i> Karsten	87
<i>Rhodomonas</i> sp./spp. Karsten	87
<i>Teleaulax acuta</i> (Butcher) Hill	89-90
<i>T. amphioxeia</i> (Conrad) Hill	87
unidentified Cryptophyceae	11-12, 87
unidentified phototrophic Cryptophyceae	62, 68, 91
DINOPHYCEAE	
<i>Alexandrium insuetum</i> Balech	89-90
<i>A. monilatum</i> (Howell) Taylor	32
<i>A. ostefeldii</i> (Paulsen) Balech & Tangen	89
<i>A. tamarense</i> (Lebour) Balech	32, 87, 89-91
<i>Alexandrium</i> sp./spp. Halim	87
<i>Amphidinium carterae</i> Hulbert	83
<i>A. crassum</i> Lohmann	45, 89-90
<i>A. extensum</i> Wulff	45
<i>A. fusiformis</i> Martin	89-90
<i>A. kesslitzii</i> Schiller	87
<i>A. larvale</i> Lindemann	89-90
<i>A. longum</i> Lohmann	89-90
<i>A. sphenoides</i> Wulff	89-90
<i>Amphidinium</i> sp. Claparède & Lachmann	68, 91
<i>Ceratium arcticum</i> (Ehrenberg) Cleve	45, 83
<i>C. fusus</i> (Ehrenberg) Dujardin	45, 89
<i>C. longipes</i> (Bailey) Gran	89
<i>Ceratium</i> sp /spp. Schrank	4
<i>Cochlodinium archimedes</i> (Pouchet) Lemmermann	89-90
<i>C. brandtii</i> Wulff	55-56, 90
<i>C. geminatum</i> (Schütt) Schütt	45
<i>Coolia monotis</i> Meunier	32

<i>Dinophysis acuminata</i> Claparède & Lachmann	32, 89
<i>D. acuta</i> Ehrenberg	89-90
<i>D. arctica</i> Mereschkowsky	27, 32, 45, 89
<i>D. caudata</i> Saville-Kent	62
<i>D. contracta</i> (Kofoid & Skogsberg) Balech	89
<i>D. norvegica</i> Claparède & Lachmann	45, 89
<i>D. rotundata</i> Claparède & Lachmann	90
<i>Dinophysis</i> sp./spp. Ehrenberg	82
<i>Diplopelta parva</i> (Abé) Matsuoka	89-90
<i>Diplopsalis lenticula</i> Bergh	32, 45
<i>Discoasteromonas calciferus</i> Bursa	7, 10
<i>Ebria tripartita</i> (Schumann) Lemmermann	43, 56, 58, 89
<i>Entomosigma peridinioides</i> Schiller	89-90
<i>Glenodinium pilula</i> (Ostenfeld) Schiller	89
<i>Gonyaulax digitale</i> (Pouchet) Kofoid	45
<i>G. grindleyi</i> Reinecke	32, 45, 89-90
<i>G. polygramma</i> Stein	45
<i>G. scrippsae</i> Kofoid	32
<i>G. spinifera</i> (Claparède & Lachmann) Diesing	89
<i>G. turbynei</i> Murray & Whitting	32
<i>Gonyaulax</i> sp./spp. Diesing	21
<i>Gymnodinium albulum</i> Lindemann	90
<i>G. arcticum</i> Wulff	45, 89
<i>G. blax</i> Harris	89
<i>G. breve</i> Davis	89
<i>G. frigidum</i> Balech	89-90
<i>G. galeatum</i> Larsen	87
<i>G. heterostriatum</i> Kofoid & Swezy	89
<i>G. japonicum</i> (Schiller) Wood	89-90
<i>G. lohmannii</i> Paulsen	12, 32
<i>G. micrum</i> (Leadbeater & Dodge) Loeblich III	89-90
<i>G. punctatum</i> Pouchet	39, 56, 58
<i>G. rubrum</i> Kofoid & Swezy	32
<i>G. simplex</i> (Lohmann) Kofoid & Swezy	89
<i>G. veneficum</i> Ballantine	83, 89-90
<i>G. wulfii</i> Schiller	45, 89
<i>Gymnodinium</i> sp./spp. Stein	17, 19, 22, 29-30, 45, 59, 68, 82, 88
<i>Gymnodinium</i> / <i>Gyrodinium</i> sp./spp.	87
<i>Gyrodinium aureolum</i> Hulburt	89-90
<i>G. fusiformis</i> Kofoid & Swezy	90
<i>G. lachryma</i> (Meunier) Kofoid & Swezy	87, 90
<i>G. prunus</i> (Wulff) Lebour	45, 89-90
<i>G. spirale</i> (Bergh) Kofoid & Swezy	32, 90
<i>Gyrodinium</i> sp. Kofoid & Swezy	30, 68, 87
<i>Heterocapsa</i> sp./spp. Stein	87
<i>Katodinium fungiformis</i> (Anissimowa) Loeblich III	89-90
<i>K. glaucum</i> (Lebour) Loeblich III	89-90
<i>K. rotundatum</i> (Lohmann) Loeblich III	89
<i>Katodinium</i> sp./spp. Fott	68, 91
<i>Kolkwitzia acuta</i> (Apstein) Elbrächter	89
<i>Oblea baculifera</i> Balech ex Loeblich Jr. & Loeblich III	89-90
<i>Ornithocercus</i> sp./spp. Stein	32
<i>Oxyrrhis marina</i> Dujardin	89
<i>Oxytoxum</i> sp./spp. Stein	32

<i>Peridiniella catenata</i> (Levander) Balech	17, 25, 29, 32, 45, 89-90
<i>Peridinium</i> sp./spp. Ehrenberg	4, 17, 21, 29
<i>Phalacroma rotundatum</i> (Claparède & Lachmann) Kofoid & Michener	45
<i>Polykrikos schwartzii</i> Bütschli	32
<i>Preperidinium meunieri</i> (Pavillard) Elbrächter	89-90
<i>Pronoctiluca pelagica</i> Fabre-Domergue	87
<i>Pronoctiluca</i> sp./spp. Fabre-Domergue	30
<i>Prorocentrum balticum</i> (Lohmann) Loeblich III	89-90
<i>P. cordata</i> Ostefeld	89
<i>P. lima</i> (Ehrenberg) Dodge	90
<i>P. mexicanum</i> Schiller	32
<i>P. micans</i> Ehrenberg	32, 89
<i>P. minimum</i> (Pavillard) Schiller	89
<i>P. ovalis</i> Rampi	17
<i>P. rampii</i> Sourmia	32
<i>Prorocentrum</i> sp./spp. Ehrenberg	21, 30, 68, 91
<i>Protoperidinium achromaticum</i> (Levander) Balech	6
<i>P. bipes</i> (Paulsen) Balech	32, 45, 62, 89-90
<i>P. brevipes</i> (Paulsen) Balech	45, 64, 89, 91
<i>P. depressum</i> (Bailey) Balech	27, 45, 89
<i>P. granii</i> (Ostefeld) Balech	89-90
<i>P. groenlandicum</i> (Woloszynska) Balech	12, 22, 45
<i>P. leonis</i> (Pavillard) Balech	45
<i>P. nudum</i> (Meunier) Balech	89
<i>P. pallidum</i> (Ostefeld) Balech	45, 56, 58, 82, 90
<i>P. pellucidum</i> Bergh	6, 45, 90
<i>P. punctulatum</i> (Paulsen) Balech	32
<i>P. pyriforme</i> var. <i>breve</i> (Paulsen) Balech	45
<i>P. robustum</i> (Meunier) Hernández-Becerril	45
<i>P. subinermis</i> (Paulsen) Loeblich III	89
<i>P. thorianum</i> (Paulsen) Balech	45
<i>Protoperidinium</i> sp./spp. Bergh	45, 58-59, 77, 88
<i>Scrippsiella precaria</i> Montresor & Zingone	89
<i>S. trochoidea</i> (Stein) Loeblich III	45, 87, 89-90
<i>Torodinium robustum</i> Kofoid & Swezy	89-90
<i>Warnovia shuetti</i> (Kofoid & Swezy) Schiller	89-90
<i>Woloszynskia reticulata</i> Thompson	89-90
unidentified photo- and heterotrophic Gymnodiniales	83, 91
unidentified Dinophyceae	12, 15, 43, 56, 68, 77, 82, 87-88
unidentified Dinophyceae cysts	59, 68, 91

CHRYSOPHYCEAE & DICTYOCOPHYCEAE

<i>Actinomonas mirabilis</i> Kent/ <i>Pteridomonas danica</i> Patterson & Fenchel	68, 84
<i>Calycomonas</i> sp. Lohmann	89-90
<i>Chromulina</i> sp. Cienkowski	91
<i>Chrysolykos</i> sp./spp. Mack	91
<i>Corymbellus aureus</i> Green	89
<i>Dictyocha speculum</i> Ehrenberg	25, 30, 32, 39, 45, 56, 58-59, 68-69, 84, 88-91
<i>Dictyocha</i> sp./spp. Ehrenberg	19, 29
<i>Dinobryon balticum</i> (Schütt) Lemmermann	21, 27, 32, 89-90
<i>D. bavaricum</i> Imhof	91
<i>D. belgica</i> Meunier	32, 89, 91
<i>D. cylindricum</i> Imhof	32
<i>D. faculiferum</i> (Willén) Willén	58-59, 64, 84, 87, 89, 91
<i>Dinobryon</i> sp./spp. Ehrenberg	45

<i>Distephanus speculum</i> f. <i>septenarius</i> (Ehrenberg) Locker & Martini	39, 56
<i>Ochromonas cosmopoliticus</i> Ruinen	83, 91
<i>O. crenata</i> Klebs	89-91
<i>Ochromonas</i> sp./spp. Wyssotski	84, 91
<i>Ochromonas</i> sp. / <i>Spumella</i> sp.	62
<i>Spumella</i> sp. Cienkowski	91
<i>Paraphysomonas butcheri</i> Pennick & Clarke	21
<i>P. cribosa</i> Lucas	21
<i>P. imperforata</i> Lucas	21
<i>P. oligocycla</i> Takahashi	84
<i>P. sideriophora</i> Thomsen	21
<i>P. vestita</i> (Stokes) De Saedeleer	21
<i>Paraphysomonas</i> sp./spp. de Saedeleer	64, 84, 91
<i>Pseudokephyrion</i> sp./spp. Pascher	91
<i>Pseudopedinella</i> sp./spp. Carter	91
<i>Synura uvella</i> Ehrenberg	39
unidentified Chrysophyceae flagellates	68, 84, 87
unidentified Chrysophyceae cysts	59, 90r-91r

PEDINELLALES

<i>Pteridomonas danica</i> Patterson & Fenchel	62, 84
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XANTHOPHYCEAE

<i>Characiopsis</i> sp./spp. Borzi	43, 56
<i>Chloridella glacialis</i> Kol	17, 25

HAPTOPHYCEAE

<i>Chrysochromulina birgeri</i> Hällfors & Niemi	19, 62
<i>Chrysochromulina</i> sp./spp. Lackey	19, 68, 91
<i>Coccolithus pelagicus</i> (Wallich) Schiller	68, 91
<i>Corymbellus</i> sp./spp. Green	91
<i>Crystalolithus hyalinus</i> Gaarder & Markali	91
<i>Diacronema vlkianum</i> Prauser	62
<i>Emiliana huxleyi</i> (Lohmann) Hay & Mohler	32, 89-91
<i>Helladosphaera aurisinae</i> Kamptner	91
<i>Phaeocystis pouchetii</i> (Hariot) Lagerheim	17, 25, 30, 32, 61, 77, 89
<i>Phaeocystis</i> sp. Lagerheim	90
<i>Pleurochrysis carterae</i> (Baarud & Fagerland) Christensen	91
<i>Prymnesium</i> sp. Massart ex Conrad	68, 89, 91
unidentified Haptophyceae	68, 87
unidentified Coccolithophorida	89, 91

CHLOROPHYCEAE

<i>Ancylonema nordenskiöldii</i> Berggren	69
<i>Ankistrodesmus falcatus</i> (Corda) Ralfs	32
<i>Ankistrodesmus</i> sp./spp. Corda	29
<i>Carteria depressa</i> Butcher	32
<i>Carteria</i> sp./spp. Diesing	27, 62, 89
<i>Chlamydomonas atactogama</i> Korschikoff	69
<i>C. ballenyana</i> Kol & Flint	17, 25, 32, 58
<i>C. globosa</i> Snow	69
<i>C. nivalis</i> (Bauer) Wille	65sn, 69
<i>C. snowiae</i> Printz	69
<i>C. tetraolaris</i> Wohlenweber	32
<i>Chlamydomonas</i> sp./spp. Ehrenberg	19, 62sn, 68-69, 77, 82, 89, 91

<i>Chlorella mirabilis</i> Andreyeva	69
<i>Chlorella</i> sp./spp. Beijerinck	69
<i>Chloromonas brevispina</i> (Fritsch) Hoham, Roemer & Mullet	69
<i>C. cryophila</i> Hoham & Mullet	69
<i>Chlorosphaera</i> sp. Klebs	69
<i>Cosmarium</i> sp./spp. Corda	32
<i>Dunaliella parva</i> Lerche	32
<i>D. salina</i> (Dunal) Teodoresco	32
<i>Dunaliella</i> sp. Teodoresco	19, 91
<i>Golenkinia</i> spp. (Chodat) Wille	29
<i>Groenlandiella nivalis</i> Kol	69
<i>Klebsormidium subtile</i> (Kützing) Heering	69
<i>Klebsormidium</i> sp./spp.	62sn
<i>Koliella chodatii</i>	69
<i>K. transsylvanica</i>	69
<i>K. viretii</i>	69
<i>Micrasterias</i> sp./spp. Agardh	32
<i>Pediastrum boryanum</i> (Turpin) Meneghini	4
<i>Pediastrum</i> sp./spp. Meyen	32
<i>Platymonas</i> sp./spp. West	11, 15, 22, 69
<i>Pleurococcus vulgaris</i> Nägeli	69
<i>Polytoma papillata</i> Pascher	91
<i>Pterosperma vanhoeffenii</i> (Joergensen) Ostenfeld	89
<i>Quadrichloris</i> sp./spp. Fott	19
<i>Rhizoclonium</i> sp./spp. Kützing	58-59
<i>Scenedesmus quadricauda</i> (Turpin) Brébisson	4
<i>Sphaerellopsis</i> sp. Korshikov	91
<i>Staurastrum</i> sp./spp. Meyen	32
<i>Tetraselmis carteriformis</i> Butcher	89
<i>Tetraselmis</i> sp. von Stein	12
<i>Thalassomonas</i> sp./spp. Butcher	32
" <i>Trochiscia americana</i> Kol"	69
" <i>T. cryophila</i> "	69
unidentified coccal Chlorophyceae	68
unidentified Chlorophyceae	21, 56

EUGLENIDS

<i>Anisonema prosgeobium</i> Skuja	62
<i>Anisonema</i> sp./spp. Dujardin	19, 68, 91
<i>Anisonema</i> sp. / <i>Dinema</i> sp.	68
<i>Astasia</i> sp./spp. Dujardin	19
<i>Dinema litorale</i> Skuja	5, 11-12, 15, 87
<i>D. maculatum</i> Larsen & Patterson	91
<i>Dinema</i> sp./spp. Perty	91
<i>Euglena acus</i> Klebs	89-90
<i>Euglena caudata</i> Hübner	43
<i>E. geniculata</i> Dujardin	17, 25
<i>E. limnophyla</i> Lemmermann	43
<i>E. proxima</i> Dangeard	17, 25, 32, 43
<i>E. schmitzii</i> Gojdics	32
<i>E. viridis</i> Ehrenberg	32
<i>Euglena</i> sp./spp. Ehrenberg	19, 21, 56, 88, 91
<i>Eutreptiella braarudii</i> Throndsen	11, 15, 89-90
<i>E. euphringea</i> Moestrup & Norris	89-90
<i>E. globulifera</i> van Goor	83

<i>E. gymnastica</i> Thronsen	89-90
<i>E. hirundoidea</i> Butcher	89
<i>Eutreptiella</i> sp./spp. da Cunha	12, 22, 56, 87
<i>Lepocinclis ovum</i> var. <i>butschlii</i> (Lemmermann) Conrad	56
<i>Petalomonas</i> sp. Stein	68, 87
<i>Trachelomonas</i> sp. Ehrenberg	69
<i>Urceolus</i> sp. Mereschkowsky	12, 15
unidentified euglenid flagellates	29, 87
unidentified heterotrophic euglenid flagellates	68, 91

PEDINOPHYCEAE

<i>Resultor mikron</i> (Thronsen) Moestrup	90
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PRASINOPHYCEAE

<i>Dolichomastix</i> sp./spp. Manton	91
<i>Halosphaera viridis</i> Schmitz	83, 88
<i>Mamiella</i> sp. Moestrup	91
<i>Mantoniella squamata</i> (Manton & Parke) Desikachary	91
<i>Micromonas pusilla</i> Manton & Parke	77
<i>Nephroselmis</i> sp./spp. Stein	91
<i>Pachysphaera marshalliae</i> Parke	89
<i>Pachysphaera</i> sp. Ostenfeld	91
<i>Pyramimonas amyliifera</i> Conrad	87
<i>P. cyclotreta</i> Daugbjerg	91
<i>P. grossii</i> Parke	89-90
<i>P. iglolikensis</i> Daugbjerg	62
<i>P. nansenii</i> Braarud	87
<i>P. nephroidea</i> McFadden	89
<i>P. propulsa</i> Moestrup & Hill / <i>P. octopus</i> Moestrup & Aa. Kristiansen	91
<i>P. quadrifolia</i> Daugbjerg	91
<i>Pyramimonas</i> sp./spp. Schmarda	19, 30, 58, 64, 87, 91
<i>Tetraselmis contracta</i> (Carter) Butcher	15
unidentified Prasinophyceae	87

RAPHIDOPHYCEAE

<i>Heterosigma</i> sp./spp. Hada	89-90
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KINETOPLASTIDA

<i>Bodo designis</i> Skuja	62
<i>B. saliens</i> Larsen & Patterson	62
<i>B. saltans</i> Ehrenberg	87
<i>Bodo</i> sp./spp. Ehrenberg	91
<i>Rhynchobodo taeniata</i> (Skuja) Voers	87
<i>Rhynchomonas nasuta</i> (Stokes) Klebs	68
unidentified bodonid flagellates	68

STRAMINOPILES

<i>Cafeteria minuta</i> (Ruinen) Larsen & Patterson	91
<i>C. roenbergensis</i> Fenchel & Patterson	91
<i>Commation cryoporinum</i> Thomsen & Larsen	87

HELIOZOA

<i>Heterophrys myriapoda</i> Archer	62
<i>Lithocolla globosa</i> Schulze	62
<i>Meringosphaera mediterranea</i> Lohmann	68
<i>Pinaciophora fluviatilis</i> Greeff	62

<i>Rabdiophrys candelabrum</i> (Thomsen) Roijackers & Siemensma	19, 62
<i>R. denticulata</i> (Thomsen) Roijackers & Siemensma	19
unidentified Heliozoa	11, 68

AMOEBAE

<i>Diffugia</i> sp./spp. Le Clerc	6
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CHOANOFAGELLIDA

<i>Acanthocorbis apoda</i> (Leadbeater) Hara & Takahashi	19, 87
<i>A. nana</i> Thomsen, Garrison & Kosman	73
<i>A. unguiculata</i> (Thomsen) Hara & Takahashi	19, 62, 73
<i>Acanthocorbis</i> sp. Hara & Takahashi	68
<i>Bicosta</i> sp./spp. Leadbeater	68
<i>Calliacantha natans</i> (Groentved) Leadbeater	91
<i>Calliacantha</i> sp./spp. Leadbeater	87
<i>Cosmoeca</i> sp./spp. Thomsen in Thomsen & Boonruang	68
<i>Desmarella moniliformis</i> Kent	89-90
<i>Diaphanoeca grandis</i> Ellis	19, 62
<i>D. sphaerica</i> Thomsen	62
<i>Diaphanoeca</i> sp./spp. Ellis	19, 68
<i>Monosiga brevicollis</i> Ruinen	77
<i>M. marina</i> Groentved	77, 87, 91
<i>Monosiga</i> sp./spp. Kent	87, 89
<i>Parvicorbicula manubriata</i> Tong	62, 73
<i>P. pachycostata</i> Thomsen, Garrison & Kosman	73
<i>P. socialis</i> (Meunier) Deflandre	87, 89
<i>Parvicorbicula</i> sp./spp. (Meunier) Deflandre	91
<i>Pleurasiga reynoldsii</i> Thronsdon	89
<i>Salpingoeca</i> sp./spp. James-Clarke	19
<i>Savillea micropora</i> (Norris) Leadbeater	19
<i>Stephanoeca urnula</i> Thomsen	19
unidentified Choanoflagellata	56, 58, 68, 87

FORAMINIFERA

<i>Globigerina</i> sp. d'Orbigny	69
<i>Neogloboquadrina pachyderma</i> Ehrenberg	75, 80
<i>Turborotalita quingueloba</i> Natland	75, 80
unidentified Foraminifera	78

RADIOLARIA

unidentified Radiolaria	69
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CILIATA

<i>Acanthostomella norwegica</i> von Daday	89
<i>Askenasia stellaris</i> Leegaard	87
<i>Chilodon</i> sp./spp. Ehrenberg	2
<i>Chlamydonella</i> sp./spp. Deroux	57
<i>Codonellopsis ovata</i> Joergensen	89-90
<i>Coxiella</i> sp./spp. Brandt	89-90
<i>Dadayiella ganymedes</i> (Entz) Kofoid & Campbell	89
<i>Didinium</i> sp./spp. Stein	57, 66, 89
<i>Diophrys</i> sp./spp. Dujardin	57, 66
<i>Eometopus</i> sp./spp. Small & Lynn	89
<i>Euplotes candata</i> Meunier	6
<i>E. elegans</i> Kahl	90
<i>E. longicirratu</i> s Agatha, Pindler & Wilbert	57

<i>E. sigmolateralis</i> Agatha, Spindler & Wilbert	57, 66
<i>E. truncata</i> Meunier	6
<i>Euplotes</i> sp./spp. Ehrenberg	11, 57, 66, 87, 89
<i>Eutintinnus brandtii</i>	89
<i>Favella</i> sp./spp. Joergensen	89
<i>Helicostomella</i> sp./spp. Joergensen	89
<i>Heterochona</i> sp./spp. Jankowski	89-90
<i>Histiobalantium natans</i> Claparède & Lachmann	57
<i>Lacrymaria</i> sp./spp. Bory	2
<i>Loxophyllum</i> sp./spp. Dujardin	57
<i>Mesodinium</i> sp./spp. (Claparède & Lachmann) Kahl	89-90
<i>Myrionecta rubrum</i> (Lohmann) Jankowski	89-90
<i>Parafavella edentata</i> (Brandt) Kofoid & Campbell	89-90
<i>Peritromus</i> sp./spp. Stein	57, 66
<i>Placus</i> sp./spp. Cohn	57
<i>Pleuronema arctica</i> Agatha, Spindler & Wilbert	57
<i>Pleuronema</i> sp./spp. Dujardin	89-90
<i>Ptychocylis obtusa</i> Brandt	89
<i>Salpingacantha ampla</i> Kofoid & Campbell	89
<i>Salpingella</i> sp./spp. Joergensen	89
<i>Spiroprorodon intermedius</i> Agatha, Spindler & wilbert	57
<i>Stenosemella nivalis</i> (Meunier) Kofoid & Campbell	89
<i>Strombidinopsis</i> sp./spp. Kent	89-90
<i>Strombidium compressum</i> Kahl	89-90
<i>S. conicum</i> (Lohmann) Wulff	89-90
<i>S. ovale</i> (Leegaard) Kahl	89
<i>S. strobila</i> (Lohmann) Wulff	89
<i>Strobilidium acuminatum</i> Fauré-Freniet	90
<i>S. conicum</i> Kahl	90
<i>Strobilidium minimum</i> (Gruber) Kahl	57
<i>Strobilidium</i> sp./spp. Schewiakoff	89
<i>Stylonychia</i> sp./spp. Ehrenberg	2, 11, 77
<i>Tintinnopsis campanula</i> (Ehrenberg) von Daday	89
<i>T. fimbriata</i> Meunier	89
<i>T. parvula</i> Joergensen	89
<i>Tontonia</i> sp./spp. Faure-Fremiet	89-90
<i>Undella hyalina</i> von Daday	89
<i>Uronema marinum</i> Dujardin	87
<i>Urorychia transfuga</i> (Mueller) Stein	57
<i>Zosterodasys</i> sp./spp. Deroux	57
unidentified Ciliata	32, 34, 66, 77-78, 87

HYDROZOA

<i>Aeginopsis laurenti</i> Brandt	32
unidentified Hydroidea	75
unidentified Siphonophora	75
unidentified Hydrozoa larvae	32

CTENOPHORA

unidentified Ctenophora	75
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TURBELLARIA

unidentified Turbellaria	11, 26, 41, 66, 75, 77-78, 80
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ROTATORIA

<i>Encentrum graingeri</i> Chengalath	66
<i>Proales reinhardti</i> Ehrenberg	66
<i>Synchaeta bacillifera</i> Smirnov	66
<i>S. cecilia</i> Rousselet	66
<i>S. hyperborea</i> Smirnov	66
<i>S. tamara</i> Smirnov	66
<i>Synchaeta</i> sp./spp. Ehrenberg	38
unidentified Rotatoria	20, 32-34, 41, 69, 75, 78, 80

NEMATODA (Monhysteroidea)

<i>Cryonema crassum</i> Tchesunov & Riemann	63
<i>C. tenue</i> Tchesunov & Riemann	63, 71
<i>Cryonema</i> sp./spp. juveniles	63
<i>Theristus melnikovi</i> Tchesunov	35, 63, 66, 71
unidentified Nematoda	11, 20, 26, 32-34, 41, 69, 75, 77-78, 80

GASTROPODA

<i>Clione limacina</i> Phillips	69, 75, 80
<i>Limacina helicina</i> Phillips	32, 69, 75, 80
<i>Limacina</i> sp. Cuvier	49-51
unidentified Gastropod larvae	32, 34

BIVALVIA

unidentified Bivalvia larvae	75, 80
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POLYCHAETA

<i>Antinoella sarsi</i> Kinberg	69
<i>Nereis pelagica</i> Linnaeus	49, 51
<i>Harmothoinae</i> sp. Horst	37, 49-51
unidentified Polychaeta	26, 33, 41, 48
unidentified Polychaeta larvae	11, 32, 34, 49, 75, 80

OSTRACODA

<i>Conchoecia</i> sp./spp. Dana	69
<i>Philomedes globosa</i> Lilljeborg	32
unidentified Ostracoda	49, 51, 75

COPEPODA - CALANOIDA

<i>Acartia longiremis</i> Lilljeborg	31-32, 34, 46, 75, 80
<i>Acartia</i> sp./spp. Dana	69
<i>Calanus finmarchicus</i> Gunnerus	37, 46, 75, 80
<i>C. glacialis</i> Jaschnov	18, 37, 46, 69, 75, 80
<i>C. hyperboreus</i> Kroyer	18, 46, 69, 75, 79-80
<i>Calanus</i> sp./spp. Leach	31, 33j, 34, 49-51, 75, 80
<i>Chiridius obtusifformis</i> Sars	75, 80
<i>Drepanopus bungei</i> Sars	69
<i>Euchaeta glacialis</i> Hansen	46
<i>E. norvegica</i> Boeck	46
<i>Eurytemora richingsi</i> Damkaer	75, 80
<i>Gaetanus tenuispinus</i> Sars	75, 80
<i>Jaschnovia brevis</i> Farran	18, 80, 85
<i>J. tolli</i> Linko	18, 69, 75
<i>Lucicutia polaris</i> Brodskii	18, 69
<i>Metridia longa</i> Lubbock	18, 46, 69, 75, 80
<i>Microcalanus pygmaeus</i> Sars	32, 69, 75, 80
<i>Pseudocalanus acuspes</i> Giesbrecht	46, 75, 80

<i>P. elongatus</i> Boeck	69
<i>P. minutus</i> Kroeyer	46, 69, 75, 80
<i>Pseudocalanus</i> sp./spp. Boeck	18, 31-32, 34, 41, 69
<i>Spinocalanus magnus</i> Wolfenden	18, 69
unidentified Calanoida	20, 33, 78

COPEPODA - HARPACTICOIDA

<i>Dactylopodia signata</i> Willey	26, 31, 33
<i>D. vulgaris</i> Sars	31, 41
<i>Halectinosoma finmarchicum</i> Scott	31, 33-34, 41, 75, 80
<i>H. neglectum</i> Sars	20, 31, 33-34, 41
<i>H. proximum</i> Sars	75, 80
<i>Halectinosoma</i> sp./spp. Boeck	26, 33, 66
<i>Harpacticus superflexus</i> Willey	18, 31-34, 41, 66, 69, 75, 80
<i>H. uniremis</i> Kroyer	31, 33-34
<i>Harpacticus</i> sp./spp. Milne-Edwards	26, 33
<i>Microsetella norvegica</i> Boeck	69, 75, 80
<i>Microsetella</i> sp. Brady & Robertson	31
<i>Pseudobradya</i> sp. Sars	20, 31, 33, 75, 80
<i>Tisbe furcata</i> Baird	18, 31-34, 41, 47, 66, 69
<i>Tisbe</i> sp./spp. Lilljeborg	75, 80
unidentified Harpacticoida	20, 78
unidentified Harpacticoid nauplii	41, 78
unidentified Ectinosomidae	32

COPEPODA - MORMONILLOIDA

<i>Mormonilla polaris</i> Sars	18, 69
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COPEPODA - MONSTRILLOIDA

<i>Monstrilla</i> sp./spp. Dana	31, 34
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COPEPODA - CYCLOPOIDA

<i>Arctocyclopina pagonasta</i> Mohammed & Neuhoef	41
<i>Cyclopina gracilis</i> Claus	20, 26, 31, 33-34, 41
<i>C. schneideri</i> Scott	31, 33-34, 41, 47, 69, 75, 80
<i>Cyclopina</i> sp./spp. Claus	31, 34
<i>Oithona similis</i> Claus	18, 31-34, 46, 69, 75, 80
<i>Oithona</i> spp. Baird	66
<i>Oncaea borealis</i> Sars	31-34, 69, 75, 80
<i>O. minuta</i> Giesbrecht	31
<i>O. notopus</i> Giesbrecht	69
<i>Oncaea</i> sp./spp. Philippi	26, 33, 66
Cyclopoida spp.	20, 78
unidentified Copepoda	11, 26
unidentified Copepoda nauplii	34, 69
Copepod eggs	34

CIRRIPEDIA

<i>Balanus</i> sp. larvae Da Costa	34
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MYSIDACEA

<i>Dayus mysidis</i>	69
<i>Mysis oculata</i> Fabricius	32
<i>M. polaris</i> Holmquist	18, 21, 33, 69
<i>Mysis</i> sp./spp. Latreille	50-51

AMPHIPODA - GAMMARIDEA

<i>Apherusa glacialis</i> Hansen	18, 21, 33, 37, 48-51, 69-70, 75-76, 79, 81
<i>A. megalops</i> Buchholz	72
<i>Calliopius laeviusculus</i> Kroyer	72
<i>Eusirus holmi</i> Hansen	21, 33, 69
<i>Gammaracanthus lorincatus</i> Sabine	18, 33, 37, 48-51, 69, 72
<i>Gammaracanthus</i> sp./spp. juveniles Bate	21
<i>Gammarus oceanicus</i> Segerstråle	72
<i>G. setosus</i> Dementieva	33, 41, 72
<i>G. wilkitzkii</i> Birula	18, 21, 33, 37, 48-51, 69-70, 75-76, 79, 81
<i>Gammarus</i> sp./spp. juveniles Fabricius	21
<i>Gammarellus homari</i> Fabricius	72
<i>Halirages mixtus</i> Stephenson	33
<i>Ischyrocerus anguipes</i> Kroeyer	21, 33, 37, 49, 51, 72
<i>Metopella longimana</i> Boeck	69
<i>Metopa</i> sp./spp. Boeck	72
<i>Neopleustes</i> sp./spp. Kroyer	18, 69
<i>Onisimus affinis</i> Hansen	33
<i>O. glacialis</i> Sars	18, 21, 33-34, 69-70, 75-76, 79, 81
<i>O. litoralis</i> Kroyer	21, 33-34, 41, 48
<i>O. nansenii</i> Sars	18, 21, 33, 69-70, 75-76, 79, 81
<i>Onisimus</i> sp./spp. Boeck	21j, 33-34, 37, 48-51, 72
<i>Pontogeneia inermis</i> Kroyer	72
<i>Weyprechtia pinguis</i> Kroyer	18, 33, 48, 50-51, 69, 72

AMPHIPODA - HYPERIDEA

<i>Anonyx nugax</i> Phipps	18, 49, 51
<i>Cyclocaris guillelmi</i> Chevreux	18
<i>Themisto abyssorum</i> Boeck	69, 75
<i>T. libellulula</i> Mandt	18, 21, 33, 37, 41, 49-51, 69, 75, 79
<i>Themisto</i> sp./spp. Boeck	72
unidentified Amphipoda	21, 26, 49-51

ISOPODA

<i>Eualus gaimardi belcheri</i> Milne-Edwards	18, 69
<i>Hemiarthrus abdominalis</i> Kroeyer	18
unidentified Isopoda larvae	32

EUPHAUSIACEA

<i>Thysanoessa inermis</i> Kroeyer	49-51, 75
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DECAPODA

<i>Hymenodora glacialis</i> Buchholz	69
<i>Pandalus</i> sp./spp. Leach	49, 51

CHAETOGNATHA

<i>Eukrohnia hamata</i> Möbius	69, 75, 80
<i>Parasagitta arctica</i> Aurivillius	69
<i>Sagitta elegans</i> Verrill	32
<i>Sagitta</i> sp./spp. Quoy & Gaimard	49-51

ECHINODERMATA

unidentified Echinodermata larvae	32, 75, 80
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TUNICATA

<i>Fritillaria borealis</i> Lohmann	32, 69, 75, 80
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<i>Oikopleura labradoriensis</i> Lohmann	32, 75
<i>O. vanhoeffenii</i> Lohmann	75
<i>Oikopleura</i> sp./spp. Fol	69
unidentified Tunicata larvae	34
CHORDATA	
unidentified Chordata larvae	50
MOLLUSCA	
unidentified Mollusca larvae	34
PELECYPODA	
unidentified Pelecypoda larvae	34
INCERTAE SEDIS	
<i>Amastigomonas mutabilis</i> (Griessmann) Molina & Nerad	62
<i>Cryothecomonas armigera</i> Thomsen, Buck, Bolt & Garrison	62, 68, 91
<i>Diplophrys archeri</i> Barker	62
<i>Discocelis</i> sp./spp. Vørs	62, 91
<i>Enigma aculeata</i> Vørs & Daugbjerg	62, 87
<i>Kiitoksia ystava</i> Vørs	62
<i>Leucocryptos marina</i> (Braarud) Butcher	68, 87, 91
<i>Leucocryptos remigera</i> Vørs	62, 68, 91
<i>Massisteria marina</i> Larsen & Patterson	68
<i>Metromonas simplex</i> (Griessman) Larsen & Patterson	91
<i>Phyllomitus granulatus</i> Larsen & Patterson	62
<i>Phyllomitus</i> sp./spp. Stein	68
<i>Protaspis glans</i> Skuja	62
<i>P. simplex</i> Vørs	62
<i>Protaspis</i> sp./spp. Skuja	62, 68
<i>Quadricilia rotundata</i> (Skuja) Vørs	87
<i>Telonema subtile</i> Griessmann	62, 68, 87, 89-91
<i>Telonema</i> sp./spp. Griessmann	62, 68
<i>Thaumatomastix formosa</i> Thomsen, Hällfors, Hällfors & Ikävalko	68
<i>T. fragilis</i> Thomsen, Hällfors, Hällfors & Ikävalko	68
<i>T. fusiformis</i> Thomsen, Hällfors, Hällfors & Ikävalko	68
<i>T. groenlandica</i> Thomsen & Ikävalko	68
<i>T. igloolika</i> Thomsen & Ikävalko	68
<i>T. splendida</i> Thomsen, Hällfors, Hällfors & Ikävalko	68
<i>Thaumatomastix</i> sp./spp. Lauterborn	62, 68, 74, 87
<i>Thecamonas</i> sp./spp. Larsen & Patterson	68

Table 3. List of basionyms and synonyms.

TAXON	SYNONYM
CHRYSOPHYCEAE & DICTYOCHOPHYCEAE	
<i>Dictyocha speculum</i> Ehrenberg	<i>Distephanus speculum</i> Haeckel
<i>Dinobryon faculiferum</i> (Willén) Willén	<i>Dinobryon petiolatum</i> Willén
<i>Distephanus speculum</i> f. <i>septenarius</i> (Ehrenberg) Locker & Martini	<i>Dictyocha speculum</i> f. <i>septenarius</i> (Ehrenberg) Jørgensen

DINOPHYCEAE	
<i>Alexandrium monilatum</i> (Howell) Taylor	<i>Gonyaulax monilata</i> Howell
<i>Alexandrium tamarense</i> (Lebour) Balech	<i>Gonyaulax tamarensis</i> Lebour
<i>Diplopsalis lenticula</i> Bergh	<i>Glenodinium lenticula</i> (Bergh) Schiller
<i>Gonyaulax grindleyi</i> Reinecke	<i>Protoceratium reticulatum</i> (Claparède & Lachmann) Bütschli
<i>Gymnodinium micrum</i> (Leadbeater & Dodge) Loeblich III	<i>Gymnodinium vitiligo</i> Ballantine
<i>Peridiniella catenata</i> (Levander) Balech	<i>Gonyaulax catenata</i> (Levander) Kofoid
<i>Preperidinium meunieri</i> (Pavillard) Elbrächter	<i>Diplopeltopsis lenticula</i> , <i>Diplopeltopsis minor</i> (Paulsen) Pavillard, <i>Zygabikodinium lenticulatum</i> (Paulsen) Loeblich & Loeblich
<i>Prorocentrum lima</i> (Ehrenberg) Dodge	<i>Prorocentrum marinum</i>
<i>Prorocentrum mexicanum</i> Schiller	<i>Prorocentrum maximum</i> Schiller
<i>Prorocentrum</i> Ehrenberg	<i>Exuviaella</i> Cienkowski
<i>Protoperidinium achromaticum</i> (Levander) Balech	<i>Peridinium achromaticum</i> (Levander)
<i>Protoperidinium bipes</i> (Paulsen) Balech	<i>Peridinium minusculum</i> Pavillard
<i>Protoperidinium depressum</i> (Bailey) Balech	<i>Peridinium depressum</i> Bailey
<i>Protoperidinium groenlandicum</i> (Woloszynska) Balech	<i>Peridinium groenlandicum</i> Woloszynska
<i>Protoperidinium leonis</i> (Pavillard) Balech	<i>Peridinium leonis</i> Pavillard
<i>Protoperidinium pallidum</i> (Ostenfeld) Balech	<i>Peridinium pallidum</i> Ostenfeld
<i>Protoperidinium pellucidum</i> Bergh	<i>Peridinium pelucidum</i> (Bergh) Schütt
<i>Protoperidinium punctulatum</i> (Paulsen) Balech	<i>Peridinium punctulatum</i> Paulsen
<i>Protoperidinium pyriforme</i> var. <i>breve</i> (Paulsen) Balech	<i>Peridinium breve</i> Paulsen
<i>Protoperidinium robustum</i> (Meunier) Hernández-Becerril	<i>Peridinium robustum</i>
<i>Protoperidinium thorianum</i> (Paulsen) Balech	<i>Peridinium thorianum</i> Paulsen
<i>Scrippsiella trochoidea</i> (Stein) Loeblich III	<i>Peridinium trochoideum</i> (Stein) Lemmermann

CHLOROPHYCEAE	
<i>Chloromonas brevispina</i> Hoham, Roemer & Mullet	<i>Cryocystis brevispina</i> Fritsch
<i>Chloromonas cryophila</i> Hoham & Mullet	<i>Scotiella nivalis</i> (Schuttlew) Fritsch
<i>Klebsormidium subtile</i> (Kützing) Heering	<i>Chlorhormidium subtile</i>
<i>Tetraselmis</i> v. Stein	<i>Platymonas</i> West

HAPTOPHYCEAE	
<i>Emiliania huxleyi</i> (Lohmann) Hay & Mohler	<i>Coccolithus huxleyi</i> (Lohmann) Kamptner

PRASINOPHYCEAE	
<i>Tetraselmis contracta</i> (Carter) Butcher	<i>Platymonas contracta</i> Carter

EUGLENID FLAGELLATES	
<i>Dinema litorale</i> Skuja	<i>Dinematomonas litoralis</i> (Skuja) Silva
<i>Dinema maculatum</i> Larsen & Patterson	<i>Dimenatomonas maculata</i> Larsen & Patterson

CHOANOFLAGELLIDA	
<i>Acanthocorbis apoda</i> (Leadbeater) Hara & Takahashi	<i>Acanthoecopsis apoda</i> Leadbeater
<i>Acanthocorbis unguiculata</i> (Thomsen) Hara & Takahashi	<i>Acanthoecopsis unguiculata</i> Thomsen

MEIOFAUNA	
<i>Limacina helicina</i> Phillips	<i>Spiratella limacina</i> Phipps
<i>Jaschnovia brevis</i> Farran	<i>Jaschnovia johnsoni</i>
<i>Jaschnovia tolli</i> Linko	<i>Derjuginia tolli</i> Linko
<i>Halectinosoma finmarchicum</i> Scott	<i>Ectinosoma finmarchicum</i> Scott
<i>Halectinosoma neglectum</i> Sars	<i>Ectinosoma neglectum</i> Sars
<i>Gammarus setosus</i> Dementieva	<i>Lagunogammarus setosus</i> Dementieva
<i>Metopella longimana</i> Boeck	<i>Metopa longimana</i> Boeck
<i>Onisimus affinis</i> Hansen	<i>Boeckosimus affinis</i> Hansen
<i>Onisimus glacialis</i> Sars	<i>Pseudalibrotus glacialis</i>
<i>Onisimus nansenii</i> Sars	<i>Pseudalibrotus nansenii</i>
<i>Onisimus</i> sp.	<i>Pseudalibrotus</i> sp.
<i>Themisto abyssorum</i> Boeck	<i>Parathemisto abyssorum</i> Boeck
<i>Themisto libellulula</i> Mandt	<i>Parathemisto libellulula</i> Mandt
<i>Hemiarthrus abdominalis</i> Krøyer	<i>Phryxus abdominalis</i> Krøyer

TAXON	BASIONYM / SYNONYM
<i>DIATOMS</i>	
<i>Achnantes stolidus</i> (Krasske) Krasske	syn: <i>Navicula stolidus</i> Krasske
<i>Actinocyclus curvatulus</i> Janisch	syn: <i>Coscinodiscus curvatulus</i> Grunow (suggested by Hasle & Tomas 1977)
<i>Actinocyclus kützingii</i> (Schmidt) Simonsen	syn: <i>Coscinodiscus kützingii</i> Schmidt
<i>Actinoptychus senarius</i> (Ehrenberg) Ehrenberg	syn: <i>Actinoptychus undulatus</i> (Bailey) Ralfs
<i>Amphora laevis</i> var. <i>laevissima</i> (Gregory) Cleve	syn: <i>Amphora laevissima</i> Gregory
<i>Amphora ovalis</i> (Kützing) Kützing	syn: <i>Amphora ovalis</i> var. <i>gracilis</i> (Ehrenberg) Van Heurck
<i>Ardissonea crystallina</i> (Agardh) Grunow	syn: <i>Synedra crystallina</i> (Agardh) Kützing
<i>Attheya septentrionalis</i> (Østrup) Crawford	bas: <i>Chaetoceros septentrionalis</i> Østrup, syn: <i>Gonioceros septentrionalis</i> (Østrup) Round, Crawford & Mann
<i>Azpeitia neocrenulata</i> (Van Landingham) Fryxell & Watkins	syn: <i>Coscinodiscus crenulatus</i> Grunow
<i>Bacillaria paxillifera</i> (Müller) Hendey	syn: <i>Bacillaria paradoxa</i> Gmelin, <i>Nitzschia paradoxa</i> (Gmelin) Grunow
<i>Bacillaria paxillifera</i> var. <i>tumidula</i> (Grunow) Wittkowski, Lange-Bertalot & Metzeltin	syn: <i>Nitzschia paradoxa</i> var. <i>tumidula</i>
<i>Bacterosira bathyomphala</i> (Cleve) Syvertsen & Hasle	syn: <i>Bacterosira fragilis</i> (Gran) Gran
<i>Berkeleya rutilans</i> (Trentepohl) Grunow	syn: <i>Amphipleura rutilans</i> (Trentepohl) Cleve
<i>Berkeleya scopulorum</i> (Brébisson) Cox	syn: <i>Navicula scopulorum</i> Brébisson
<i>Biddulphia biddulphiana</i> (Smith) Boyer	syn: <i>Biddulphia pulchella</i> Gray
<i>Brachysira serians</i> (Brébisson) Round & Mann	syn: <i>Navicula lineolata</i> Ehrenberg
<i>Caloneis crassa</i> (Gregory) Ross	syn: <i>Caloneis brevis</i> (Gregory) Cleve
<i>Caloneis hebes</i> (Ralfs) Patrick	syn: <i>Caloneis obtusa</i> Cleve
<i>Caloneis leptosoma</i> (Grunow) Krammer	syn: <i>Pinnularia leptosoma</i> var. <i>robusta</i>
<i>Caloneis ventricosa</i> (Ehrenberg) Meister	syn: <i>Caloneis silicula</i> (Ehrenberg) Cleve, <i>Caloneis silicula</i> var. <i>ventricosa</i>
<i>Chaetoceros diadema</i> (Ehrenberg) Gran	syn: <i>Diadema subsecundus</i> (Grunow) Hustedt
<i>Chaetoceros neogracilis</i> (Schütt) Van Landingham	syn: <i>Chaetoceros gracilis</i> Schütt
<i>Cocconeis disculus</i> (Schumann) Cleve	syn: <i>Cocconeis thomasiana</i> Brun
<i>Coscinodiscus polyacanthus</i> Grunow	syn: <i>Coscinodiscus polyacanthus</i> var. <i>balticus</i> Grunow, <i>Thalassiosira baltica</i> (Grunow) Ostenfeld
<i>Craspedopleura kryophila</i> (Cleve) Poulin	syn: <i>Caloneis kryophila</i> Cleve, <i>Navicula kryophila</i> Cleve
<i>Ctenophora pulchella</i> (Ralfs) Williams & Round	syn: <i>Synedra pulchella</i> (Ralfs) Kützing
<i>Cylindrotheca closterium</i> (Ehrenberg) Reimann & Lewin	syn: <i>Nitzschia closterium</i> (Ehrenberg) Smith
<i>Detonula confervacea</i> (Cleve) Gran	syn: <i>Detonula cystifera</i> Gran
<i>Diatoma tenuis</i> Agardh	syn: <i>Diatoma elongatum</i> (Lyngbye) Agardh
<i>Diploneis oblongella</i> (Naegeli) Ross	syn: <i>Diploneis ovalis</i> var. <i>oblongella</i> (Naegeli) Cleve
<i>Entomoneis gigantea</i> var. <i>septentrionalis</i> (Grunow) Poulin & Cardinal	syn: <i>Amphiprora gigantea</i> var. <i>septentrionalis</i> Cleve
<i>Entomoneis kjellmanii</i> (Cleve) Poulin & Cardinal	syn: <i>Amphiprora kjellmanii</i> Cleve
<i>Entomoneis kjellmanii</i> var. <i>kariana</i> (Grunow) Poulin & Cardinal	syn: <i>Amphiprora kjellmanii</i> var. <i>kariana</i> (Grunow) Poulin & Cardinal
<i>Entomoneis kjellmanii</i> var. <i>subtilis</i> (Grunow) Poulin & Cardinal	syn: <i>Amphiprora kjellmanii</i> var. <i>subtilis</i> (Grunow) Cleve
<i>Entomoneis kryophila</i> (Cleve) Okolodkov	syn: <i>Amphiprora kryophila</i> Cleve
<i>Entomoneis paludosa</i> var. <i>hyperborea</i> (Grunow) Poulin & Cardinal	syn: <i>Amphiprora paludosa</i> var. <i>hyperborea</i> (Grunow) Cleve
<i>Entomoneis punctulata</i> (Grunow) Osada & Kobayasi	syn: <i>Entomoneis paludosa</i> var. <i>punctulata</i> Grunow, <i>Amphiprora paludosa</i> var. <i>punctulata</i> Grunow
<i>Eunotia curvata</i> (Kützing) Lagerstedt	syn: <i>Eunotia lunaris</i> (Ehrenberg) Brébisson, <i>Eunotia lunaris</i> var. <i>ventosa</i> (Berg) Cleve, <i>Eunotia lunaris</i> var. <i>bilunaris</i> (Ehrenberg) Mills
<i>Fallacia forcipata</i> (Greville) Stickle & Mann	syn: <i>Navicula forcipata</i> Greville
<i>Fallacia forcipata</i> var. <i>densestriata</i> (Greville) Stickle & Mann	syn: <i>Navicula forcipata</i> var. <i>densestriata</i> Schmidt
<i>Fallacia pygmaea</i> (Kützing) Stickle & Mann	syn: <i>Navicula pygmaea</i> Kützing
<i>Fallacia reichardtii</i> (Grunow) Wittkowski, Lange-Bertalot & Metzeltin	syn: <i>Navicula reichardtii</i> (Grunow) Grunow
<i>Fragilariforma virescens</i> (Ralfs) Williams & Round	syn: <i>Fragilaria virescens</i> Ralfs
<i>Fragilariopsis curta</i> (Van Heurck) Hustedt	bas: <i>Fragilaria curta</i> Van Heurck, syn: <i>Nitzschia curta</i> (Van Heurck) Hasle
<i>Fragilariopsis cylindriciformis</i> (Hasle) Hasle	bas: <i>Nitzschia cylindriciformis</i> Hasle
<i>Fragilariopsis cylindrus</i> (Grunow) Krieger	bas: <i>Fragilaria cylindrus</i> Grunow, syn: <i>Nitzschia cylindrus</i> (Grunow) Hasle
<i>Fragilariopsis oceanica</i> (Cleve) Hasle	syn: <i>Nitzschia grunowii</i> Hasle, <i>Fragilaria oceanica</i> Cleve
<i>Fragilariopsis pseudonana</i> (Hasle) Hasle	bas: <i>Nitzschia pseudonana</i> Hasle, syn: <i>Fragilaria nana</i> Steemann Nielsen, <i>Fragilariopsis nana</i> (Stemann Nielsen) Paasche
<i>Fragilariopsis rhombica</i> (O'Meara) Hustedt	syn: <i>Nitzschia angulata</i> Hasle
<i>Fragilariopsis ritscheri</i> Hustedt	syn: <i>Nitzschia ritscheri</i> (Hustedt) Hasle
<i>Gomphonema spenceri</i>	aggregate incl.: <i>Gomphonema spenceri</i> var. <i>exilis</i> (Grunow) Cleve, <i>Gomphonema spenceri</i> var. <i>nodifera</i> (Smith) Griffith & Henfrey
<i>Gomphonemopsis exigua</i> (Kützing) Medlin	syn: <i>Gomphonema exiguum</i>
<i>Gyrosigma concilians</i> (Cleve) Poulin & Cardinal	bas: <i>Amphiprora concilians</i> Cleve, syn: <i>Entomoneis concilians</i>

	(Cleve) Okolodkov
<i>Gyrosigma distortum</i> (Smith) Griffith & Henfrey	syn: <i>Gyrosigma diaphanum</i> Cleve
<i>Haslea crucigeroides</i> (Hustedt) Simonsen	syn: <i>Navicula crucigeroides</i> Hustedt
<i>Hippodonta linearis</i> (Østrup) Lange-Bertalot et al.	syn: <i>Navicula hungarica</i> var. <i>linearis</i> Østrup
<i>Lyrella atlantica</i> (Schmidt) Mann	syn: <i>Navicula lyra</i> var. <i>atlantica</i> Schmidt
<i>Lyrella lyra</i> Karayeva	syn: <i>Navicula lyra</i> Ehrenberg
<i>Melosira lineata</i> (Dillwyn) Agardh	syn: <i>Melosira juergensii</i> Agardh
<i>Meuniera membranacea</i> (Cleve) Silva	bas: <i>Navicula membranacea</i> Cleve, syn: <i>Stauroneis membranacea</i> (Cleve) Hustedt
<i>Navicula calida</i> Hendey	syn: <i>Navicula cancellata</i> Donkin
<i>Navicula cryptostriata</i> Salah	syn: <i>Navicula crystallina</i> Hustedt
<i>Navicula derasa</i> Grunow	syn: <i>Navicula transitans</i> Cleve
<i>Navicula derasa</i> var. <i>transitans</i> Ross	syn: <i>Navicula transitans</i> var. <i>derasa</i> (Grunow) Cleve
<i>Navicula directa</i> (Smith) Ralfs	syn: <i>Navicula directa</i> var. <i>genuina</i> Cleve
<i>Navicula eidrigiana</i> Carter	syn: <i>Navicula elegans</i> Smith
<i>Navicula flanatica</i> var. <i>ammophila</i> (Grunow) Ross	syn: <i>Navicula ammophila</i> Grunow
<i>Navicula granii</i> (Jørgensen) Gran	syn: <i>Navicula lineola</i> Grunow, <i>Stauroneis granii</i> Jørgensen
<i>Navicula kariana</i> var. <i>curta</i> (Cleve) Ross	syn: <i>Navicula gelida</i> Grunow
<i>Navicula kariana</i> var. <i>frigida</i> (Grunow) Cleve	syn: <i>Navicula frigida</i> Grunow
<i>Navicula kjellmanii</i> (Cleve) Cleve	syn: <i>Pleurosigma kjellmanii</i> Cleve
<i>Navicula kryokonites</i> var. <i>subprotracta</i> Cleve	syn: <i>Navicula kryokonites</i> var. <i>semiperfecta</i> Cleve
<i>Navicula maculosa</i> Donkin	syn: <i>Navicula albinensis</i> Grunow
<i>Navicula marina</i> Ralfs	syn: <i>Navicula punctulata</i> Smith
<i>Navicula meniscus</i> Schumann	syn: <i>Navicula peregrina</i> var. <i>meniscus</i> (Schumann) Grunow
<i>Navicula minuscula</i> var. <i>muralis</i> (Grunow) Lange-Bertalot	syn: <i>Navicula muralis</i> Grunow
<i>Navicula novadeciens</i> Hustedt	syn: <i>Navicula glacialis</i> var. <i>inaequalis</i> Østrup
<i>Navicula obsidialis</i> Hustedt	syn: <i>Navicula obtusa</i> Cleve
<i>Navicula placentula</i> var. <i>latiuscula</i> (Grunow) Meister	syn: <i>Navicula gastrum</i> var. <i>latiuscula</i> Grunow
<i>Navicula septentrionalis</i> (Grunow) Gran	bas: <i>Stauroneis septentrionalis</i> Grunow, syn: <i>Navicula quadripedis</i> Cleve-Euler
<i>Navicula socialis</i> Gregory	syn: <i>Bacillaria socialis</i> (Gregory) Ralfs
<i>Navicula tripunctata</i> (Müller) Bory	syn: <i>Navicula gracilis</i> Ehrenberg
<i>Navicula vanheurckii</i> Patrick	syn: <i>Navicula rotaeana</i> (Rabenhorst) Grunow
<i>Navicula veneta</i> Kützing	syn: <i>Navicula cryptocephala</i> var. <i>veneta</i> (Kützing) Rabenhorst
<i>Nitzschia arctica</i> Cleve	syn: <i>Nitzschia vitrea</i> Norman
<i>Nitzschia hamburgiensis</i> Lange-Bertalot	syn: <i>Nitzschia thermalis</i> (Ehrenberg) Auerswald
<i>Nitzschia intermedia</i> Hantzsch	syn: <i>Nitzschia capitellata</i> var. <i>lapponica</i> Hustedt
<i>Nitzschia longissima</i> (Brébisson) Grunow	syn: <i>Cylindrotheca longissima</i>
<i>Nitzschia reversa</i> Smith	syn: <i>Nitzschia longissima</i> var. <i>reversa</i> Smith
<i>Odontella aurita</i> (Lyngbye) Agardh	syn: <i>Biddulphia aurita</i> (Lyngbye) Brébisson
<i>Paralia sulcata</i> (Ehrenberg) Cleve	syn: <i>Melosira sulcata</i> (Ehrenberg) Kützing
<i>Parlibellus protractus</i> (Grunow) Wittkowski, Lange-Bertalot & Metzeltin	syn: <i>Navicula protracta</i> (Grunow) Cleve
<i>Pauliella taeniata</i> (Grunow) Round & Basson	syn: <i>Achnantes taeniata</i> Grunow
<i>Petrodictyon gemma</i> (Ehrenberg) Mann	syn: <i>Suirella gemma</i> Ehrenberg
<i>Petroneis humerosa</i> (Brébisson) Stickle & Mann	syn: <i>Navicula humerosa</i> Brébisson
<i>Pinnularia appendiculata</i> (Agardh) Cleve	syn: <i>Navicula lanceolata</i> (Agardh) Ehrenberg
<i>Pinnularia quadratarea</i> (Schmidt) Cleve	syn: <i>Pinnularia quadratarea</i> var. <i>genuina</i> Cleve-Euler
<i>Pinnularia quadratarea</i> var. <i>stuxbergii</i> (Cleve) Heiden	syn: <i>Navicula stuxbergii</i> var. <i>cuneata</i>
<i>Pinnularia quadratarea</i> var. <i>subglabra</i> (Østrup) Poulin & Cardinal	syn: <i>Navicula stuxbergii</i> var. <i>subglabra</i>
<i>Pinnularia semiinflata</i> (Østrup) Gran	syn: <i>Caloneis semiinflata</i> (Østrup) Boyer
<i>Pinnularia semiinflata</i> var. <i>deciens</i> (Cleve) Gran	syn: <i>Navicula deciens</i> Cleve
<i>Pinnularia yarrensii</i> (Grunow) Jurilj	syn: <i>Navicula yarrensii</i> var. <i>americana</i> Cleve
<i>Placoneis clementis</i> (Grunow) Cox	syn: <i>Navicula clementis</i> (Ehrenberg) Kützing
<i>Placoneis elginensis</i> (Gregory) Kützing	syn: <i>Navicula elginensis</i> Gregory
<i>Placoneis gastrum</i> (Ehrenberg) Kützing	syn: <i>Navicula gastrum</i> (Ehrenberg) Kützing
<i>Plagiotropis maxima</i> (Gregory) Poulin & Cardinal	syn: <i>Tropidoneis maxima</i> Cleve
<i>Planothidium delicatulum</i> (Kützing) Round & Bukhtiyarova	syn: <i>Achnantes delicatula</i> (Kützing) Grunow
<i>Pleurosigma clevei</i> Grunow	syn: <i>Gyrosigma clevei</i>
<i>Pleurosigma lanceolatum</i> var. <i>cuspidatum</i> (Rabenhorst) Ralfs	syn: <i>Pleurosigma cuspidatum</i> (Cleve) H. Peragallo
<i>Proboscia alata</i> (Brightwell) Sundström	bas: <i>Rhizosolenia alata</i> Brightwell
<i>Pseudogomphonema kamtschaticum</i> (Grunow) Medlin	syn: <i>Gomphonema kamtschaticum</i> Grunow
<i>Pseudogomphonema groenlandicum</i> (Østrup) Medlin	syn: <i>Gomphonema groenlandicum</i> Østrup, <i>Gomphonema kamtschaticum</i> var. <i>groenlandicum</i>
<i>Pseudonitzschia australis</i> Frenguelli	syn: <i>Nitzschia pseudoseriata</i> Hasle
<i>Pseudonitzschia delicatissima</i> (Cleve) Heiden	bas: <i>Nitzschia delicatissima</i> Cleve, syn: <i>Nitzschia delicatula</i> Hasle
<i>Pseudonitzschia fraudulenta</i> (Cleve) Hasle	bas: <i>Nitzschia fraudulenta</i> Cleve
<i>Pseudonitzschia pseudodelicatissima</i> (Hasle) Hasle	bas: <i>Nitzschia pseudodelicatissima</i> Hasle, syn: <i>Nitzschia delicatula</i> Hasle
<i>Pseudonitzschia seriata</i> (Cleve) H. & M. Peragallo	bas: <i>Nitzschia seriata</i> Cleve

<i>Pseudonitzschia seriata</i> f. <i>obtusa</i> (Hasle) Hasle	<i>bas: Nitzschia seriata</i> f. <i>obtusa</i> Hasle
<i>Pseudonitzschia turgiduloides</i> (Hasle) Hasle	<i>bas: Nitzschia turgiduloides</i> Hasle
<i>Pseudonitzschia subcurvata</i> (Hasle) Fryxell	<i>bas: Nitzschia subcurvata</i> Hasle
<i>Rhizosolenia hebetata</i> f. <i>hebetata</i> Bailey	<i>syn: Rhizosolenia hebetata</i> var. <i>subacuta</i> Grunow, <i>Rhizosolenia hebetata</i> f. <i>hiemalis</i> Gran
<i>Rhopalodia gibba</i> (Ehrenberg) Müller	<i>syn: Pinnularia gibba</i> (Ehrenberg) Ehrenberg
<i>Sellaphora bacillum</i> (Ehrenberg) Mann	<i>syn: Navicula bacillum</i> Ehrenberg
<i>Sellaphora pupula</i> (Kützing) Mereschkowsky	<i>syn: Navicula pupula</i> Kützing
<i>Stauroneis spicula</i> Hickie	<i>syn: Navicula spicula</i> (Hickie) Cleve
<i>Staurosirella pinnata</i> (Ehrenberg) Williams & Round	<i>syn: Fragilaria pinnata</i> Ehrenberg
<i>Stellarina stellaris</i> (Roper) Hasle & Sims	<i>syn: Coscinodiscus stellaris</i> Roper
<i>Synedropsis hyperborea</i> (Grunow) Hasle, Medlin & Syvertsen	<i>bas: Synedra hyperborea</i> Grunow, <i>syn: Synedra hyperborea</i> var. <i>rostellata</i> Grunow
<i>Tabularia tabulata</i> (Agardh) Snoeijjs	<i>syn: Synedra tabulata</i> (Agardh) Kützing
<i>Thalassiosira angulata</i> (Gregory) Hasle	<i>syn: Thalassiosira decipiens</i> (Grunow) Jørgensen
<i>Thalassiosira anguste-lineata</i> (Schmidt) Fryxell & Hasle	<i>bas: Coscinodiscus anguste-lineatus</i> Schmidt, <i>syn: Coscinosira polychorda</i> (Gran) Gran, <i>Thalassiosira polychorda</i> (Gran) Hasle
<i>Thalassiosira antarctica</i> Comber	<i>syn: Thalassiosira fallax</i> Meunier
<i>Thalassiosira bramaputrae</i> (Ehrenberg) Håkansson & Locker	<i>syn: Thalassiosira lacustris</i> (Grunow) Hasle, <i>Thalassiosira lacustris</i> var. <i>septentrionalis</i> (Grunow) Rattray
<i>Thalassiosira hyperborea</i> var. <i>pelagica</i> (Cleve-Euler) Hasle	<i>syn: Thalassiosira bramaputrae</i> (Ehrenberg) Håkansson & Locker, <i>Thalassiosira bramaputrae</i> var. <i>septentrionalis</i> (Grunow) Makarova
<i>Thalassiosira oestrupii</i> (Ostenfeld) Hasle, emend. Fryxell & Hasle	<i>bas: Coscinosira oestrupii</i> Ostenfeld
<i>Tryblionella apiculata</i> Gregory	<i>syn: Nitzschia apiculata</i> (Gregory) Grunow
<i>Tryblionella litoralis</i> (Grunow) Mann	<i>syn: Nitzschia litoralis</i> Grunow

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