

**CATALOGUE
OF POLISH
PROKARYOTIC
AND
EUKARYOTIC
ALGAE**

Jadwiga SIEMIŃSKA
Konrad WOŁOWSKI

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AND EUKARYOTIC ALGAE**

**KATALOG GLONÓW PROKARIOTYCZNYCH
I EUKARIOTYCZNYCH POLSKI**

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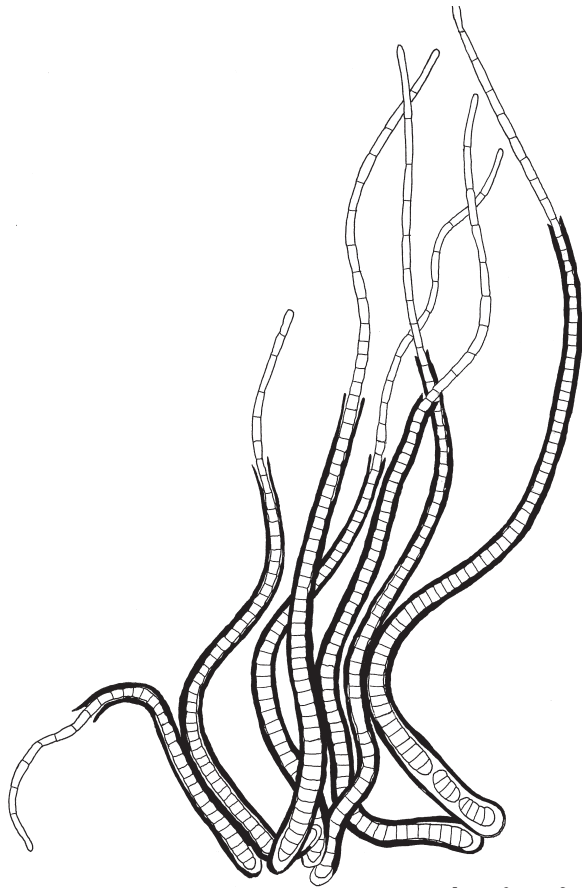
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Homeothrix fusca fo. *elongata*

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INTRODUCTION

To Professor Karol Starmach we owe the initiative of gathering various documentary materials to enable elaboration of different systematic groups defined by the popular name of algae. He proposed this in 1954 when starting to organize the first Polish phycological department at the recently established Institute of Botany in the then newly created Polish Academy of Sciences. Thus began the elaboration of bibliography to the Polish flora of algae and its supplementation by the original publications or their copies. On their basis the Latin names of species noted in Poland were excerpted on files. These data were and still are diligently and consistently gathered, although Professor Starmach left the department in 1958 for the, also organized by him, Chair of Hydrobiology at the Jagiellonian University.

In this elaboration the Latin names of all taxonomic groups of freshwater and marine, recent and fossil algae are set down, taken from publications assembled in the already published bibliographies (Siemińska 1990, Siemińska, Pająk 1992). The Starmach's taxonomical system (suggested in 1954) is used in this elaboration. Blue-green algae are treated as prokaryotic algae Cyanophyta because during their investigation the rules of the botanical (and not bacteriological) nomenclature are used.

During the first years the files with the data were elaborated subsequently by the employed workers: Oedogoniales by Teresa Mrozińska (then M.Sc.), Desmidiinales by Kazimierz Wasylik (then M.Sc.), Bacillariophyceae by one of the authors (JS), Cyanophyta (in green ink) by Dr. Bolesława Kawecka-Starmachowa. From

January 1969 Anna Hrebendowa M.Sc. had for the longest time taken part in the enterprise, and later, after her death, Jadwiga Grzbielowa M.Sc. She worked in different periods together with Anna Derlaga M.Sc., Dr. Krystyna Hojda, Zofia Dyrka M.Sc., Jolanta Pająk M.Sc., Mrs. Lucyna Żak-El Shahed, and Agata Wojtal (then M.Sc.). Using a program proposed by Marek Verey M.Sc. most data were entered to the computer by Mrs. Żak-El Shahed, who also included corrections of the text to the computer, and prepared the publication for the print.

The Latin names of the genera and species in the Catalogue are given in alphabetical order. Latin names of the lower systematic units are placed below, also alphabetically, irrespective of their rank. The literal and grammatic errors were, as far as possible, corrected.

The author's (or authors') name by the Latin name of a taxon is here omitted. The users must search for information on the particular taxon under its present name and its synonyms.

The taxon name is followed by the numbers of the bibliographic items in which it is mentioned. By the number the symbol of the eventual information is given (in parenthesis) concerning drawings and photos, i.e. illustrations (i), complementary remarks concerning size or morphology (u), and the new taxon description (n). The species not strictly identified, or reported in literature with the question-mark, are designated in the presented text as "cf."

The genera *Ebria* and *Distephanus* which have recently been included to the class Ebriophyceae are classified to Chrysophyceae.

Under the same name *Cosmarium hornavanense* fo. *ornata* Wołoszyńska described – in papers 2881 and 2885 – two different forms; in the Catalogue they are distinguished by “[1]” and “[2]”.

The Catalogue, elaborated for fifty years, is available to serve members of the staff of our department as well as specialists from other scientific centres. Without the mentioned bibliographies the usefulness of the index is limited. However, even than, it provides information on

taxa that are common, frequent, or rarely noted in Poland.

ACKNOWLEDGEMENTS. The authors are grateful to Dr. P. C. Silva for his help in elucidation of taxonomic position of some of the species.

The work on this paper was carried out at the Phycological Department of the W. Szafer Institute of Botany of the Polish Academy of Sciences. It was, in the last years, partially financed by the Komitet Badań Naukowych (State Committee for Scientific Research nb. 6PO4C 036 21).

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WSTĘP

Inicjatywę gromadzenia rozmaitych materiałów dokumentacyjnych mających umożliwić opracowanie różnych grup systematycznych określanych popularną nazwą glonów zawdzięczamy Profesorowi Karolowi Starmachowi. Podjął ją w 1954 roku, gdy w nowo powstałym w Polskiej Akademii Nauk Instytucie Botaniki powołano pracownię mającą badać glony, obecny Zakład Fykologii. Rozpocząto w nim sporządzanie bibliografii dotyczącej flory Polski i gromadzenie do niej oryginałów publikacji lub ich kopii. Na ich podstawie rozpisywano na kartotekach łacińskie nazwy gatunków podawanych z Polski. Materiały te były i są nadal zbierane konsekwentnie i cierpliwie, mimo że Profesor Starmach przeszedł w 1958 roku do zorganizowanej przez siebie Katedry Hydrobiologii na Uniwersytecie Jagiellońskim.

W tej publikacji zestawiono nazwy łacińskie glonów ze wszystkich grup systematycznych, słodkowodnych i morskich, współcześnie żyjących i kopalnych, podane w publikacjach uwzględnionych w wydrukowanych już polskich bibliografiach fykologicznych (Siemińska 1990, Siemińska, Pajak 1992).

Podział na grupy systematyczne zachowano taki jak profesor Starmach przyjął w 1954 roku. Sinice są potraktowane jako glony a nie bakterie, ponieważ w badaniach stosowano do nich botaniczne przepisy nomenklatury taksonomicznej a nie bakteriologiczne. Indeks ich nazw łacińskich odnotowanych w Polsce do 1980 roku był już opublikowany (Siemińska 1995).

Przez pierwsze lata kartoteki sporządzali rozmaici pracownicy: uwikła (Oedogoniales) wówczas Mgr T. Mrozińska, desmidie wówczas Mgr K. Wasyluk, okrzemki jedna z autorów (JS), sinice (zielonym atramentem) Dr B. Kawecka-Starmachowa. Potem od stycznia 1969 aż do śmierci głównie Mgr Anna Hrebendowa, następnie Dr Krystyna Hojda, od której obowiązki przejęła Mgr Jadwiga Grzbielowa, a przy niej w różnych okresach Mgr Anna Derlaga, Mgr Zofia Dyrka, Mgr Jolanta Pajak i Lucyna Żak-El Shahed. Zapis komputerowy, do którego program opracował Mgr Marek Verey, sporządzały Mgr J. Grzbielowa, Mgr J. Pajak i L. Żak-El Shahed oraz wówczas Mgr A. Wojtał. Najwięcej materiału wprowadziła Pani Żak-El Shahed; ona też wprowadzała

uzupełnienia i korekty zapisów, oraz przygotowała dzieło do druku.

Bez posiadania wspomnianych bibliografii możliwość korzystania z katalogu jest ograniczona; nawet wówczas daje on jednak informację o gatunkach pospolitych, często spotykanych, lub tych rzadko odnotowywanych.

Nazwy łacińskie rodzajów i gatunków podano w porządku alfabetycznym. Pod nimi umieszczono, również alfabetycznie, nazwy niższych jednostek systematycznych niezależnie od ich rangi. Błędy literowe lub gramatyczne zostały tutaj o ile możliwości poprawione.

Nazwy łacińskie podano bez nazwisk autorów. Korzystający ze spisu muszą szukać danych pod obecnie obowiązującą nazwą taksonu i pod jego synonimami.

Po nazwie taksonu podano numery pozycji bibliograficznych, w których jest o nim mowa. Przy numerze podano w nawiasie ewentualne informacje o rysunkach lub fotografiach, czyli ilustracjach (i), o uwagach uzupełniających dotyczących na przykład wymiarów lub morfologii (u), oraz o taksonach nowo opisanych (n). Gatunki niedokładnie zidentyfikowane, lub podawane w literaturze ze znakiem zapytania zostały opatrzone literami „cf.”

Wołoszyńska opisała – w pracach 2881 i 2885 – pod nazwą *Cosmarium hornavanense* var. *rostratum*

fo. *ornata* dwie różne formy; w katalogu figurują z rozróżnieniem „[1]” i „[2]”.

Do Chrysophyceae zaliczyliśmy rodzaje *Ebria* i *Distephanus*, które obecnie należą do Ebriophyceae w obrębie Chrysophyta.

Obecny spis utrwała w druku zawartość istniejących kartotek i zapisów komputerowych, gromadzonych przez pięćdziesiąt lat, udostępnianych dotychczas korespondencyjnie lub na miejscu w Zakładzie. Ma na celu ułatwienie prowadzenia krytycznych prac florystycznych i fizjograficznych oraz opracowania monografii występujących w Polsce gatunków różnych grup systematycznych. Ma więc służyć zarówno pracownikom Zakładu Fykologii IB PAN jak i specjalistom zatrudnionym w innych naszych ośrodkach naukowych. Indeks ten może służyć też specjalistom z innych krajów dając im informacje o składzie naszej flory, a szczególnie taksonach rzadko podawanych.

PODZIĘKOWANIE. Autorzy są wdzięczni Dr P. C. Silvie za pomoc w wyjaśnieniu pozycji systematycznej niektórych taksonów.

Niniejsze opracowanie zostało wykonane w Zakładzie Fykologii Instytutu Botaniki im. W. Szafera w Krakowie. W ostatnich latach było też częściowo finansowane przez Komitet Badań Naukowych (Nr projektu 6 PO4C 036 21).

CYANOPHYTA

(Cyanoprokaryota, Cyanobacteria)

- Ammatoidea normanni* 1049, 1051, 1059 (i), 1061, 2470 (u).
Amphithrix janthina 1275, 1918, 2379 (i).
Amphithrix violacea 1325.
Anabaena aequalis 1687 (u), 2267, 3591, 3659.
– *affinis* 135, 188, 202, 204, 269, 325, 480, 746, 854, 920, 957, 960 (u), 1300, 1384, 1568, 1570, 1817, 1930, 1967, 2031, 2081, 2166, 2315, 2534, 2584, 2789, 2803, 2905, 3136, 3137, 3158, 3223, 3328, 3373, 3378, 3379, 3445, 3485, 3591, 3653, 3675, 3683, 3746, 3755, 3759, 3761, 3784, 3839.
– fo. *viguieri* 2802.
– cf. *affinis* 3136.
– *augstumalis* 430, 557 (u), 2102, 2504 (i), 2714 (u).
– fo. *incrassata* 323, 324.
– *baltica* 1325, 1467, 1649, 1807, 1815, 2031, 2034, 3209.
– *bullosa* 1746.
– *catenula* 116, 185, 191, 325, 2043, 2166, 2583 (u).
– *circinalis* 63, 185, 191, 202, 257, 325, 800, 996, 1232, 1236, 1237, 1241, 1243, 1300, 1306, 1315, 1329, 1380, 1382, 2098, 2100, 2151 (i), 2166, 2321, 2339, 2340, 2350, 2504 (i), 2583, 2584, 2597, 2727, 2728, 2730, 2802, 2803, 2835, 3157, 3158, 3430, 3746, 3759, 3761, 4013.
– var. *macrospora* 1232.
– cf. *circinalis* 920.
– *constricta* 656, 657, 658, 966, 968 (u), 1306, 2043, 2379 (i), 2641 (i), 2691, 2692.
– *contorta* 1329, 2031, 2905.
– *cylindrica* 1181 (i), 1325, 1643, 1644, 2031, 2504 (i), 3209.
– fo. *woronichiniana* 3675.
– *delicatula* 110, 114, 323, 324, 1355, 2692.
– *ellipsoides* 1241.
– *elliptica* 325, 2692.
– *flos-aquae* 63, 114, 137, 179, 185, 191, 202, 204, 321, 322, 323, 324, 325, 438, 479, 480, 493, 573, 729, 751, 758, 854, 901, 902, 905, 957, 960 (u), 1170, 1181 (i), 1205, 1206, 1212, 1213, 1217, 1231, 1232, 1236, 1237, 1241, 1264, 1300, 1303, 1314, 1325, 1329, 1364, 1382, 1412, 1570, 1571, 1651, 1662, 1663, 1743, 1758, 1789, 1798 (u), 1801 (u), 1807, 1815, 1817, 1893, 1959, 1961, 1963, 1965, 1966, 1967, 1968, 1972, 1973, 1974, 2031, 2034, 2081, 2088, 2097, 2101, 2147, 2149, 2151 (i), 2166, 2264, 2267, 2278, 2297, 2311, 2339, 2350, 2379 (i), 2504 (i), 2534, 2583, 2597, 2727, 2728, 2729, 2730, 2803, 2822, 2835, 2857, 2935, 3115, 3136, 3157, 3158, 3223, 3378, 3422, 3430, 3445, 3468, 3490, 3497, 3591, 3643, 3653, 3659, 3683, 3688, 3712, 3740, 3746, 3747, 3755, 3758, 3759, 3761, 3812, 3839, 4009, 4013, 4078.
– b. *circinalis* 2065.
– var. *circinalis* 717, 1084, 2147.
– fo. *flos-aquae* 325, 760, 2603, 2802 (i), 3712, 3713.
– a. *genuina* 2065.
– var. *genuina* 1084.
– var. *gracilis* 1217, 2098, 2100, 2779.
– fo. *lemmermannii* 325, 1807, 2322, 2534, 3157, 3158, 3607, 3659.
– var. *spirillum* 713, 717, 729.
– fo. *treleasii* 2603.
– var. *tumida* 325, 2802 (i).
– cf. *flos-aquae* 2822.
– *hassali* 854, 1570.

- Anabaena hassali* var. *cyrtospora* 2779.
 -- var. *macrospora* 1384, 2779.
 -- *inaequalis* 118, 1232, 2714 (u).
 -- *intricata* 800, 1084, 2072.
 -- *laponica* 2381 (i), 3812.
 -- *laxa* 1790.
 -- *lemmermannii* 1329, 1807, 2043, 2307, 2315, 2321, 2331, 2727, 2730, 2779, 2835, 3945.
 -- *levanderi* 1300, 2166.
 -- *licheniformis* 751.
 -- *limnetica* 2783.
 -- *macrosperma* 713, 717, 729, 734 (u), 1893, 2073.
 -- *macrosperum* var. *major* 713, 729, 734 (u), 746, 1918, 2649, 2651.
 -- *macrospora* 63, 1213, 1322, 1344, 1364, 2088, 2149, 2151 (i), 2315, 2822, 2831, 3755.
 -- fo. *crassa* 2315.
 -- var. *crassa* 2779 (u).
 -- fo. *gracilis* 2597.
 -- var. *gracilis* 2098, 2100.
 -- var. *robusta* 2727.
 -- *minutissima* 2338.
 -- *oscillarioides* 185, 188, 191, 736, 853, 1799 (u), 2031, 2072, 2077, 2088, 2149, 2151 (i), 2166, 2381, 2384 (i), 2649, 2691, 2692.
 -- fo. *tenuis* 1821.
 -- var. *tenuis* 2535 (i), 2536.
 -- fo. *torulosa* 2492 (i).
 -- *planctonica* 185, 254, 256, 265, 266, 268, 854, 1236, 1384 (i, u), 2166, 2315, 2321, 2350, 2383, 2905.
 -- *polysperma* 729, 1893.
 -- *raffsüi* 751, 2031.
 -- *rufescens* 1084 (u).
 -- *salina* 439, 1355 (i, n).
 -- *scheremetievii* 82, 116, 118, 183, 960 (u), 1306, 1807, 2181, 2182 (i), 2198, 3131, 3132, 3209.
 -- fo. *ovospora* 202.
 -- var. *recta* fo. *rotundospora* 2181, 2182 (i), 2198, 2315.
 -- *smithii* 1206.
 -- *solitaria* 188, 191, 202, 204, 323, 324, 325, 479, 480, 996, 1181 (i), 1241, 1243, 1300, 1306, 1336, 1807, 1972, 2166, 2311, 2504 (i), 2603, 2803, 3115, 3137, 3157, 3158, 3379, 3430, 3497, 3591, 3605, 3755 (i), 3759, 3761, 3859.
 -- fo. *planctonica* 202 (i), 325, 480, 901, 905, 2802 (i), 3157, 3158, 3250 (i, u), 3761.
 -- var. *planctonica* 902.
 -- fo. *smithii* 2603, 3158.
 -- fo. *solitaria* 3136.
 -- fo. *zinserlingii* 3784.
 -- *sphaerica* 1799 (u), 2315, 3497, 3591.
 -- *spiroides* 61, 63, 86, 114, 116, 126, 137, 179, 183, 185, 191, 202, 204, 257, 268, 321, 323, 325, 387, 389, 390, 476, 479, 573, 603, 657, 658, 813, 854, 895, 960 (u), 996, 1181 (i), 1194, 1212, 1213, 1232, 1236, 1237, 1241, 1243, 1300, 1306, 1325, 1329, 1382, 1384, 1570, 1687, 1798 (u), 1807, 1815, 1930, 1931, 1959, 1961, 1965, 1966, 1967, 1968, 1972, 1973, 1974, 2031, 2034, 2081, 2088, 2098, 2100, 2115, 2149, 2166, 2198, 2305, 2315, 2321, 2339, 2350, 2383, 2416, 2504 (i), 2534, 2580, 2584, 2597, 2603, 2625, 2701, 2835, 2857, 3115, 3131, 3132, 3136, 3137, 3157, 3158, 3161, 3243, 3250, 3497, 3498, 3591, 3653, 3659, 3683, 3688, 3755 (i), 3759, 3761, 3809, 3839, 4009, 4078.
 -- var. *contracta* 2100, 2597.
 -- fo. *crassa* 321, 325, 1329, 3157.
 -- var. *crassa* 185, 323, 324, 1384 (i, u), 1709, 2031, 2166, 2727, 2728, 2779 (u), 2914, 3158.
 -- fo. *minima* 202 (i), 2504 (i).
 -- var. *minima* 323, 324, 325, 2315, 3158.
 -- fo. *spiroides* 325, 3157.
 -- var. *spiroides* 1709.
 -- fo. *tumida* 325.
 -- var. *tumida* 323, 324.
 -- *stagnalis* 734 (u), 751, 2077.
 -- *subcylindrica* 2166, 2583.
 -- *torulosa* 1325, 1428, 2031, 2381.
 -- *variabilis* 54, 175, 581, 751, 1355, 1382, 1792, 1793 (u), 1799 (u), 2255 (i), 2264, 2379 (i), 2692, 3250, 3485, 3653, 3688, 3712, 3713, 3905, 4047.
 -- fo. *tenuis* 1792, 1793 (u), 1799 (u).
 -- *viguieri* 2311, 2383.
 -- *wernerii* 1003.
 -- sp. 54, 61, 88, 112, 114, 116, 146, 164, 183, 188, 200, 258, 266, 268, 313, 320, 475, 603,

657, 758, 786, 813, 853, 897, 996, 1229, 1232, 1236, 1243, 1244, 1248, 1273, 1275, 1300, 1304, 1364, 1569, 1570, 1791, 1792, 1796, 1807, 1815, 1821, 1932, 1961, 1963, 1966, 1968, 1974, 2075, 2078, 2166, 2184, 2267, 2305, 2307, 2311, 2315, 2321, 2322, 2411, 2412, 2413, 2431, 2447, 2581, 2882, 2890, 2950, 3094, 3137, 3160, 3161, 3243, 3445, 3468, 3485, 3491, 3595, 3641, 3741, 3843, 3905.

Anabaenopsis raciborskii 202.

Anacystis marginata 797, 1205.

– *nidulans* 4047.

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- – var. *limosa* 2080.
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– *amphibolum* 1888.

– *angustissimum* 1721.

– *apyrinum* 800.

– *arcuatum* 325, 1303.

– *autumnale* 320, 751, 753, 760, 1325, 2372, 2381, 2470 (i, u), 2492 (i), 2620, 2692, 3137, 3223, 3286, 3455, 3708, 3712, 3713, 3784, 3905.

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– *dimorphum* 1719 (i).

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– *fonticola* 1571, 1719 (i), 1888.

– *foveolarum* 83, 495 (i), 574, 751, 760, 1426, 1651, 2031, 2255 (i), 2426, 2427, 2429, 2443, 2447, 2470 (u), 2492, 2692, 2890, 2905, 3223, 3285, 3286, 3456, 3569, 3712, 3713, 3780, 3905.

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– *henningsii* 3905.

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– fo. *conspersum* 480.

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– *jenkelianum* 3712.

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– cf. *laminosum* 1566.

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- *laetevirens* 2649.
- *lineata* 3869.
- *macrogonya* 797, 2509.
- *magdalenae* 1426, 3683.
- *oligoclona* 729, 1084, 1893.
- *rivularis* 2467 (i, u).
- *rupestris* 83 (i), 84, 88, 90 (i), 215, 1159, 1308, 1324, 1326, 1426, 1428, 1467, 1852, 1941, 2031, 2467 (i, u), 3223, 3462, 3869.
- *sericea* 215, 1157, 1324, 1326, 1941, 3683.
- *striata* 1355.
- *sudetica* 1084.
- *trichocoma* 1426, 3683.
- *viadrina* 1939, 2655.
- cf. *viadrina* 359
- *violacea* 251.
- sp. 64, 82, 98, 183, 188, 202, 268, 286, 302, 348, 474, 476, 655, 656, 736, 996, 1001, 1004, 1105, 1114, 1157, 1181 (i), 1232, 1236, 1243, 1276, 1305, 1306, 1339, 1384 (i, u), 1566, 1568, 1764, 1765, 1766, 1773, 1777, 1789, 1791, 1801 (u), 1807, 1811, 1815, 1821, 1851, 1852, 1876, 2163, 2166, 2181, 2184, 2189, 2264, 2267, 2445, 2465, 2676, 3205, 3302, 3352, 3379, 3448, 3643, 3799, 3869, 3953, 3987, 4064 (i).

***Hormiscia aequalis* 1893.**

- *flaccida* 520, 713, 735 (u), 751, 1205, 1893.
- var. *minor* 751.
- *salina* 1355, 1646, 1646, 1919.
- *subtilis* 751.
- var. *genuina* 1205, 1402, 1893.
- var. *tenerrima* 520, 735 (u), 1206.
- var. *variabilis* 735 (u), 1205, 1206.
- *tenuis* 1893.
- *zonata* 374, 713, 735 (u), 751, 1402, 1644, 1893.
- var. *valida* 751.

***Phycoseris linza* 1324.**

***Pithophora* sp. 2482 (i, u).**

***Rhizoclonium hieroglyphicum* 373, 1651, 1799 (u), 3765.**

- var. *crispum* 3136.
- var. *hieroglyphicum* 3755.
- *implexum* 1428.
- *kochianum* 1324.

– *riparium* 90 (i), 3683.

– *salinum* 1852.

***Urospora penicilliformis* 215, 549, 1324, 1941, 2467 (i, u), 3683.**

Oedogoniales

***Bulbochaete augustowiensis* 3563 (i, u), 3565, 3810 (i, n), 3812.**

– *basispora* 1622 (i), 1625 (i, u), 1629 (i, u), 2186 (u), 3563 (i, u), 3565 (i, u).

– var. *basispora* 3565 (i, u).

– *crassa* 1084, 1629 (i, u), 3563 (i, u), 3565 (i, u).

– *crassiuscula* 655, 1629 (i, u), 3563 (i, u), 3565 (i, u).

– *crenulata* 735 (u), 1629 (i, u), 3563 (i, u), 3565 (i, u).

– *de-baryana* 1625 (i, u), 1629 (i, u), 2598, 3563 (i, u), 3565 (i, u), 3812.

– fo. *de-baryana* 3563 (i, u).

– var. *de-brayana* fo. *de-brayana* 3565 (i, u).

– fo. *gracilis* 1632 (i, n), 3563 (i, u).

– *denticulata* 118, 3563 (i, u), 3565 (i, u).

– *echinospora* 2598 (i).

– *elatiior* 655, 735 (u), 1217, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).

– var. *elatiior* fo. *elatiior* 3565 (i, u).

– *gutwinskii* 1618 (i, n), 1619, 1620, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).

– var. *gutwinskii* 3563 (i, u), 3565 (i, u).

– var. *reticulata* 1634 (i, n), 2166, 3563 (i, u), 3565 (i, u).

– *insignis* 1084, 1616, 1625 (u), 2075, 2077, 2166, 2598 (i), 3563 (i, u), 3565 (i, u), 3812.

– var. *insignis* fo. *insignis* 3565 (i, u).

– *intermedia* 118, 735 (u), 1629 (i, u), 2069, 3563 (i, u), 3565.

– var. *depressa* 3563 (i, u), 3565 (i, u).

– var. *intermedia* 3563 (i, u).

– fo. *intermedia* 3565 (i, u).

– *megastoma* 118, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u), 3811 (i, u).

– var. *megastoma* 3565 (i, u).

– *minor* 729, 800, 1084, 1629 (i, u), 1893, 2075, 2077, 3563 (i, u), 3565 (i, u).

– var. *minor* 3565 (i, u).

- Bulbochaete mirabilis* 118, 549, 753, 1625 (i, u), 1629 (i, u), 2166, 2824, 2857 (i), 2859, 3359, 3560, 3563 (i, u), 3565 (i, u), 3569, 3572, 3591.
 -- var. *gracilis* 3563 (i, u), 3565 (i, u).
 -- fo. *immersa* 1625 (i), 1629 (i, u), 2166, 3563 (i, u).
 -- var. *mirabilis* 3563 (i, u).
 --- fo. *immersa* 3565 (i, u).
 --- fo. *mirabilis* 3565 (i, u).
 -- *monile* var. *robusta* 1629 (i, u), 2649 (u), 2651, 3563 (i, u), 3565 (i, u), 3811 (i, u), 3812.
 -- *nana* 2598, 3563 (i, u), 3565 (i, u), 3812.
 -- var. *nana* 3565 (i, u).
 -- *nordstedtii* 735 (u), 751 (u), 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- *obliqua* 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- *polyandria* 729, 735 (u), 1084, 1629 (i, u), 1893, 2075, 2077, 2166, 3563 (i, u), 3565 (i, u), 3591 (i).
 -- fo. *notabilis* 3563 (i, u), 3565 (i, u).
 -- fo. *polyandria* 3563 (i, u).
 -- var. *polyandria* fo. *polyandria* 3565 (i, u).
 -- *pseudoareolata* 3359, 3560 (i), 3563 (i, u), 3565 (i, u), 3569, 3572.
 -- *pygmaea* 118, 520 (u), 549, 550, 1084, 1382, 1623, 1624, 1629 (i, u), 2598, 3563 (i, u), 3565 (i, u), 3812.
 -- var. *pygmaea* 3565 (i, u).
 -- *quadrata* 1613 (u, i), 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u), 3811.
 -- *rectangularis* 1326, 1382, 1613 (u, i), 1614, 1625 (i), 1629 (i, u), 2166, 3445, 3563 (i, u), 3565 (i, u), 3812.
 -- var. *norvegica* 522 (u).
 -- var. *rectangularis* 3565 (i, u).
 -- var. *tenuis* 735 (u).
 -- *repanda* 118, 1625 (i, u), 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- var. *repanda* 3565 (i, u).
 -- *robusta* 118.
 -- *setigera* 374, 520, 549, 729, 797, 799, 1084, 1326, 1329, 1402, 1629 (i, u), 1893, 2074, 2077, 2123, 3563 (i, u), 3565 (i, u), 4009.
 -- cf. *setigera* 2074.
 -- *subintermedia* 2598 (i), 3563 (i, u), 3565 (i, u), 3812.
 -- *subquadrata* 1634 (i, n), 2166, 3563 (i, u).
 -- *subsimplex* 549, 1084, 2077.
 -- *tenuis* 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- var. *norvegica* 522 (u), 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- var. *tenuis* 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- *varians* 1629 (i, u), 2166.
 -- var. *subsimplex* 1084, 1613, 1625, 1629 (i, u), 2077, 2166, 3563 (i, u), 3565 (i, u).
 -- *verrucoso-reticulata* 1618 (i, n), 1619, 1620, 1629 (i, u), 2166, 3563 (i, u), 3565.
 -- sp. 112, 164, 185, 188, 313, 320, 753, 960 (u), 1190, 1236, 1390, 1613, 1614, 1686 (i), 1818, 2163, 2166, 2184, 2534, 2603, 2714, 2727, 2728, 3112, 3568, 3595, 3607, 3755, 3812, 3922.
Oedogonium acrosporium 521 (u), 735 (u), 1206, 1613, 1616, 1629 (i, u), 2069, 2166, 3563 (i, u), 3565 (i, u).
 -- var. *acrosporium* 3563 (i, u).
 --- fo. *acrosporium* 3565 (i, u).
 -- var. *bathmidosporum* 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- *alternans* 1084 (u).
 -- *apophysatum* 1206.
 -- *areschougii* 2069, 3563 (i, u).
 -- var. *americanum* 3563 (i, u).
 -- var. *areschougii* 3563 (i, u).
 -- *autumnale* 1632 (i, u), 3563 (i, u), 3565 (i, u).
 -- var. *autumnale* 3565 (i, u).
 -- *baginiense* 1634 (i, n), 3563 (i, u), 3565 (i, u).
 -- *bohemicum* 1632 (i, u), 3563 (i, u), 3565 (i, u).
 -- *borisianum* 522 (u), 735 (u), 1613, 1616, 2069, 2072, 2166, 2326, 2718 (i), 3445, 3563 (i, u), 3565 (i, u), 3568.
 -- var. *borisianum* fo. *borisianum* 3565 (u).
 -- *boscii* 735 (u), 751 (u), 1616, 2069, 2166, 3563 (i, u), 3565 (i, u).
 -- fo. *boscii* 3563 (i, u).
 -- var. *boscii* fo. *boscii* 3565 (i, u).
 --- fo. *dispar* 3565 (i, u).
 --- fo. *dispar* 3563 (i, u).
 -- *braunii* 729, 800, 1084, 1613, 1616, 1893, 2077, 2077, 2166, 2646 (u), 3445, 3563 (i, u), 3565 (i, u).
 -- var. *braunii* 3563 (i, u), 3565 (i, u).

- var. *depressum* 3563 (i, u), 3565 (i, u).
 -- *capillaceum* 797, 2509.
 -- *capillare* 795, 799, 800, 1084, 1206, 1206, 1329, 1629 (i, u), 2163 (i), 3563 (i, u), 3565 (i, u).
 -- fo. *capillare* 3563 (i, u).
 -- var. *capillare* fo. *capillare* 3565 (i, u).
 -- var. *fluctuans* 2509.
 -- var. *fructibus* 2509.
 -- fo. *stagnale* 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- *capilliforme* 549, 1206, 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- var. *australe* 1632 (i, u), 3563 (i, u).
 --- fo. *australe* 3565 (i, u).
 --- fo. *diversum* 3565 (i, u).
 -- var. *capilliforme* fo. *capilliforme* 3565 (i, u).
 -- fo. *diversum* 3563 (i, u).
 -- *cardiacum* 1629 (i, u), 1632 (i, u), 2166, 3497, 3563 (i, u), 3565 (i, u).
 -- fo. *cardiacum* 3563 (i, u).
 -- var. *cardiacum* fo. *cardiacum* 3565 (i, u).
 --- fo. *interjectum* 3565 (i, u).
 --- fo. *pulchellum* 3565 (i, u).
 -- fo. *interjectum* 3563 (i, u).
 -- fo. *pulchellum* 1632 (i, u), 3563 (i, u).
 -- *chungkingense* 3563 (i, u), 3565 (i, u).
 -- *ciliatum* 729, 1084, 1206, 1613, 1893, 2166, 2651, 3563 (i, u), 3565 (i, u).
 -- var. *ciliatum* 3565 (i, u).
 -- *cleveanum* 729, 1629 (i, u), 1893, 3563 (i, u), 3565 (i, u).
 -- var. *cleveanum* fo. *cleveanum* 3565 (i, u).
 -- *concatenatum* 549, 1629 (i, u), 2077, 2166, 3563 (i, u), 3565 (i, u).
 -- var. *baginiense* 3562 (i, n), 3563 (i, u).
 --- fo. *baginiense* 3565 (i, u).
 -- var. *concatenatum* 3563 (i, u).
 --- fo. *concatenatum* 3565 (i, u).
 -- var. *lagenarioides* 549.
 -- *crassum* 655, 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- var. *crassum* 3565 (i, u).
 -- *crenulato-costatum* 1613 (i, u), 2166.
 -- var. *longiarticulatum* 3563 (i, u), 3565 (i, u).
 -- *crispum* 729, 1613, 1614 (i), 1616, 1629 (i, u), 1893, 2069, 2077, 2166, 2730 (u), 3563 (i, u), 3565 (i, u), 3569, 3812.
 -- var. *crispum* 3563 (i, u).
 --- fo. *crispum* 3565 (i, u).
 --- fo. *inflatum* 3565 (i, u).
 --- fo. *obesum* 3565 (i, u).
 -- var. *gracilescens* 3563 (i, u), 3565 (i, u).
 -- var. *havaiense* 1629 (i, u), 2166.
 -- fo. *inflatum* 1629 (i, u), 3563 (i, u).
 -- fo. *proprium* 3563 (i, u).
 -- *croasdaleae* 1621, 1629 (i, u), 1632 (i, u), 2166, 3445, 3563 (i, u), 3565 (i, u), 3568.
 -- fo. *croasdaleae* 3563 (i, u).
 -- var. *croasdaleae* fo. *croasdaleae* 3565 (i, u).
 -- fo. *goczalkowicensis* 1621, 1622 (i, n), 1629 (i, u), 2166, 3445, 3563 (i, u), 3565 (i, u), 3568.
 -- var. *minor* 3565 (i, u).
 -- *cryptoporum* 549, 1613, 1614, 1629 (i, u), 2166, 3497, 3563 (i, u), 3565 (i, u).
 -- var. *cryptoporum* 3565 (i, u).
 -- cf. *cryptoporum* 3591 (i, u).
 -- *curvum* 1613 (i, u), 1616, 1629 (i, u), 1632 (i, u), 2166, 3445, 3563 (i, u), 3565 (i, u), 3568.
 -- var. *curvum* fo. *curvum* 3565.
 -- *cymatosporum* 1613 (i, u), 1616, 2166, 3565 (i, u).
 -- var. *areoliferum* 1616 (u), 2166, 3563 (i, u).
 -- *decipiens* 520 (u), 3563 (i, u), 3565 (i, u), 3569.
 -- var. *africanum* 1633 (i, u), 3560, 3563 (i, u), 3565 (i, u), 3569.
 -- var. *decipiens* 3563 (i, u), 3565 (i, u).
 -- var. *dissimile* 3563 (i, u), 3565 (i, u).
 -- *dentireticulatum* fo. *minor* 3562 (i, n), 3563 (i, u).
 -- *dubium* 797, 1084.
 -- *echinospermum* 800, 1084, 1616, 1629 (i, u), 2166, 2730, 3563 (i, u), 3565 (i, u).
 -- var. *echinospermum* 3565 (i, u).
 -- *eriense* 1614 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- *exocostatum* 3565 (i, u).
 -- *flavescens* 735 (u), 3563 (i, u), 3565 (i, u).
 -- fo. *flavescens* 3563 (i, u).
 -- var. *flavescens* fo. *flavescens* 3565 (i, u).
 -- fo. *minus* 1634 (i, n), 3563 (i, u), 3565 (i, u).
 -- var. *minus* 2166.
 -- *fragile* 735 (u), 1613, 1614, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- var. *fragile* 3565 (i, u).
 -- *franklinianum* 735 (u), 1629 (i, u), 3563 (i, u), 3565 (i, u).

- Oedogonium geniculatum* var. *minor* 1632 (i, n), 3563 (i, u), 3565 (i, u).
 – *gracillimum* 1614 (u), 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 – var. *gracillimum* fo. *gracillimum* 3565 (i, u).
 – *grande* 1632 (i, u), 3563 (i, u), 3565 (i, u).
 – fo. *gemelliparum* 3563 (i, u).
 – fo. *grande* 3563 (i, u).
 – var. *grande* fo. *gemelliparum* 3565 (i, u).
 – fo. *grande* 3565 (i, u).
 – *haraldii* 1619, 2166.
 – *hirsii* 730 (i, u), 731 (i, n), 735, 1613, 1614, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 – *hoersholmiense* fo. *majus* 1634 (i, n), 3563 (i, u), 3565 (i, u).
 – *idioandrosporum* 2166, 3445, 3563 (i, u), 3565 (i, u), 3568.
 – var. *idioandrosporum* 3565 (i, u).
 – *inconspicuum* 1629 (i, u).
 – fo. *maius* 1634 (i, n), 2166, 3563 (i, u), 3565 (i, u).
 – *intermedium* 112, 118, 735 (i, u), 1629 (i, u), 3563 (i, u), 3565 (i, u).
 – var. *intermedium* fo. *intermedium* 3565 (i, u).
 – *inversum* 2166, 3563 (i, u), 3565 (i, u), 3569.
 – fo. *inversum* 3563 (i, u).
 – var. *inversum* fo. *inversum* 3565 (i, u).
 – fo. *subclusum* 1632 (i, u), 3560, 3563 (i, u).
 – *ituriense* 3563 (i, u).
 – *itzigsohnii* 430, 729, 1893 (u), 2714 (u), 3563 (i, u), 3565, 3607.
 – fo. *heteromorphum* 3563 (i, u).
 – fo. *itzigsohnii* 3563 (i, u).
 – var. *itzigsohnii* fo. *heteromorphum* 3565.
 – fo. *itzigsohnii* 3565 (i, u).
 – *jaouii* 1618 (i, n), 1619, 1620, 1621, 1622 (i, u), 1629 (i, u), 2166, 3445, 3563 (i, u), 3565 (i, u), 3568.
 – *kirchneri* 1629 (i, u), 3563 (i, u), 3565 (i, u).
 – var. *kirchneri* 3565 (i, u).
 – *kurzii* 3563 (i, u), 3565 (i, u).
 – *landsboroughi* 2069, 1629 (i, u), 3563 (i, u), 3565 (i, u).
 – var. *landsboroughi* 3565 (i, u).
 – *lautumniarum* 1632 (i, u), 3565 (i, u).
 – var. *lautumniarum* 3565 (i, u).
 – *longatum* 549, 655, 735 (u), 1629 (i, u), 3563 (i, u), 3565 (i, u).
 – *macrandrium* 735 (u), 960 (u), 1799 (i, u), 2069, 2649 (u), 3563 (i, u), 3565 (i, u).
 – var. *aemulans* 2166, 3563 (i, u), 3565 (i, u).
 – var. *macrandrium* 3563 (i, u).
 – fo. *macrandrium* 3565 (i, u).
 – var. *propinquum* 3563 (i, u), 3565 (i, u).
 – *magnusii* 2730, 3563 (i, u), 3565 (i, u).
 – var. *magnusii* 3565 (i, u).
 – *mammiferum* 3565 (i, u).
 – *megaporum* 1629 (i, u), 2069, 2166, 3565 (i, u), 3563 (i, u).
 – var. *megaporum* fo. *megaporum* 3565 (i, u).
 – *meneghinianum* 1205, 1889.
 – *michiganense* 118, 3563 (i, u).
 – *moniliforme* 3563 (i, u), 3565 (i, u).
 – *nobile* 2166.
 – fo. *reticulatum* 3562 (i, n), 3563 (i, u), 3665 (i, u).
 – *nodulosum* 1613 (i, u), 1614 (u), 1616, 2166, 3563 (i, u), 3565 (i, u).
 – var. *nodulosum* 3565 (i, u).
 – *obesum* 751 (u), 1629 (i, u), 1632 (i, u), 3563 (i, u).
 – *oblongum* 735 (u), 1613, 1629 (i, u), 1632 (i, u), 2166, 3445, 3563 (i, u), 3565 (i, u), 3568.
 – fo. *majus* 1629 (i, u), 2166, 3563 (i, u), 3812.
 – fo. *oblongum* 3563 (i, u).
 – var. *oblongum* fo. *majus* 3565 (i, u).
 – fo. *oblongum* 3565 (i, u).
 – *obtruncatum* 1629 (i, u), 3563 (i, u), 3565 (i, u).
 – var. *ellipsoideum* fo. *minus* 1634 (i, n), 2166, 3565 (i, u).
 – var. *obtruncatum* 3563 (i, u), 3565 (i, u).
 – *ochroleucum* 522 (u), 797, 799, 1084, 2509.
 – *oelandicum* 655, 1616 (i, u), 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 – var. *oelandicum* fo. *oelandicum* 3565 (i, u).
 – *oryzae* var. *seriosporum* 1629 (i, u), 2166, 3445, 3563 (i, u), 3565 (i, u), 3568.
 – *pachydermum* 118.
 – *paludosum* var. *parvisporum* 2166, 3563 (i, u), 3565.
 – *petrii* 735 (u), 1629 (i, u), 3563 (i, u), 3565 (i, u).
 – var. *petrii* 3565 (i, u).
 – *pisanum* 1632 (i, u), 3563 (i, u), 3565 (i, u).

- fo. *baginiense* 1634 (i, u). 3563 (i, u), 3565 (i, u).
 -- fo. *pisanum* 3563 (i, u).
 -- var. *pisanum* fo. *pisanum* 3565 (i, u).
 -- *plagiostomum* 3563 (i, u), 3565 (i, u).
 -- *platygynum* 520, 735 (u), 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- var. *novae-zelandiae* 3563 (i, u).
 -- var. *platygynum* 3563 (i, u).
 --- fo. *platygynum* 3565 (i, u).
 -- *pluviale* 3563 (i, u) 3565.
 -- *polonicum* 2240 (i, n), 3713.
 -- *polymorphum* 735 (u).
 -- *pratense* fo. *minus* 1634 (i, n), 3563 (i, u), 3565 (i, u).
 -- *praticolum* 3563 (i, u), 3565 (i, u).
 -- fo. *minus* 1634 (i, n), 2166, 3563 (i, u), 3565 (i, u).
 -- fo. *praticolum* 3563 (i, u).
 -- var. *praticolum* fo. *praticolum* 3565 (i, u).
 -- *pringsheimii* 118, 735 (u), 736, 1217, 1632 (i, u), 3563 (i, u), 3565 (i, u).
 -- var. *goczalkowicense* 3563 (i, n), 3565 (i, u), 3568.
 -- var. *nordstedtii* 1632 (i, u), 2163 (i), 2166, 3445, 3563 (i, u), 3565 (i, u).
 -- var. *pringsheimii* 3563 (i, u), 3565 (i, u).
 --- fo. *pachydermatosporum* 3713.
 -- var. *varians* 735 (u).
 -- *propinquum* 735 (u).
 -- *punctato-striatum* 118, 520, 3563 (i, u), 3591, 3812, 3565 (i, u).
 -- *pungens* var. *minor* 2166.
 -- var. *minus* 1634 (i, n), 3563 (i, u), 3565 (i, u).
 -- *pusillum* 655, 1084, 2163, 2166, 3563 (i, u), 3565 (i, u), 3568, 3713.
 -- var. *pusillum* 3565 (i, u).
 -- *reinschii* 1613 (u), 1616, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u), 3812.
 -- *reticulatum* 2166.
 -- *reticulosporum* 1618 (n), 1619, 3563 (i, u), 3565 (i, u).
 -- var. *reticulosporum* fo. *reticulosporum* 3565 (i, u).
 -- *reticulocostatum* 1620.
 -- *richterianum* 118, 324, 1629 (i, u), 2166, 2649 (u), 3563 (i, u), 3565 (i, u).
 -- var. *richterianum* 3565 (i, u).
 -- *rimiferum* 2166.
 -- *rivulare* 1205, 3565 (i, u).
 -- var. *rivulare* 3565.
 -- *rothii* 348, 520 (u), 729, 800, 1084, 1205, 1663, 1893, 2074, 2077, 2080, 2081, 2123, 2166, 2651, 2730, 3563 (i, u), 3565 (i, u).
 -- *rufescens* 1629 (i, u), 3497, 3563 (i, u), 3565 (i, u).
 -- subspec. *lundellii* 2069.
 -- var. *lundellii* 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- var. *rufescens* 3563 (i, u).
 --- fo. *rufescens* 3565 (i, u).
 -- *rugulosum* 1629 (i, u), 3563 (i, u), 3565 (i, u).
 -- fo. *minutum* 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- fo. *rotundatum* 3563 (i, u), 3565 (i, u).
 -- fo. *rugulosum* 3563 (i, u).
 -- var. *rugulosum* fo. *rugulosum* 3565 (i, u).
 -- *rupestre* 3563 (i, u), 3565 (i, u).
 -- var. *rupestre* fo. *rupestre* 3565 (i, u).
 -- *santurcense* 2166, 3563 (i, u), 3565 (i, u).
 -- *schmidlei* 730, 731 (i, n), 735, 1629 (i, u), 3563 (i, u), 3565.
 -- *scrobiculatum* 735 (u), 3563 (i, u), 3565 (i, u).
 -- *sexangulare* 522, 735 (u), 1613, 3445, 3563 (i, u), 3565 (i, u), 3568.
 -- var. *majus* 735 (u), 2166, 3563 (i, u), 3565 (i, u).
 -- var. *sexangulare* 3563 (i, u), 3565 (i, u).
 -- *silesiacum* 1619, 1634 (i, n), 3563 (i, u), 3565 (i, u).
 -- *sociale* 735 (u), 1613, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- var. *sociale* fo. *sociale* 3565 (i, u).
 -- *sodiroanum* 1618 (i, u), 1620, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- var. *sodiroanum* fo. *sodiroanum* 3565 (i, u).
 -- *sphaerandrium* 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- *spiripennatum* fo. *augustowiense* 3562 (i, n), 3563 (i, u).
 -- var. *spiralicostatum* 1616, 1619, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 -- var. *spiripennatum* fo. *spiripennatum* 3565 (i, u).
 -- var. *superior* 1616 (i, n), 1619, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).

- Oedogonium stagnale* 800, 1084.
 – *starmachii* 1616 (i, n), 1619, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 – *stellatum* 735 (u), 1629 (i, u), 3563 (i, u), 3565 (i, u).
 – *subcalvum* 2166.
 – *subdissimile* 2166.
 – *subflavescens* 1619, 2166.
 – *subhoersholmiense* 2166.
 – *submoniliforme* 1634 (i, n), 3563 (i, u), 3565 (i, u).
 – *subplenum* 2166.
 – *subspirale* 1616 (i, n), 1619, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 – – var. *subspirale* fo. *subspirale* 3565 (i, u).
 – *subvirceburgense* 1619, 2166.
 – *suecicum* 729, 1613, 1614, 1616, 1893, 3563 (i, u), 3565 (i, u).
 – – var. *suecicum* fo. *suecicum* 3565 (i, u).
 – *tapeinosporum* fo. *fowlingense* 1618 (u), 1620, 1629 (i, u), 2166, 3563 (i, u).
 – *tumidulum* 797, 1084, 1662, 1663, 2166, 2509, 3563 (i, u), 3565 (i, u).
 – *tyrolicum* 202, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 – *undulatum* 118, 188, 520 (u), 655, 729, 735, 800, 1084, 1217, 1217, 1326, 1616, 1629 (i, u), 1893, 2077, 2166, 2649, 2651, 3563 (i, u), 3565, 3812.
 – – var. *undulatum* fo. *undulatum* 3565 (i, u).
 – *upsaliense* 1613, 1629 (i, u), 2649 (u), 3563 (i, u), 3565 (i, u).
 – cf. *upsaliense* 2166.
 – *urbicum* 1629 (i, u), 2077, 3563 (i, u), 3565 (i, u).
 – *variabile* 22, 797, 798, 798, 1084, 1889, 2509.
 – *varians* 1613, 1614, 1616, 1629 (i, u), 2166, 3563 (i, u), 3565 (i, u).
 – – var. *varians* 3565 (i, u).
 – *vaucheri* 735, 1084, 1206, 1380, 1382, 1613, 1614, 1632 (i, u), 1633, 2166, 2649 (u), 3563 (i, u), 3565 (i, u), 4013.
 – – fo. *isulare* 3563 (i, u).
 – – fo. *vaucheri* 3563 (i, u).
 – – var. *vaucheri* fo. *insulare* 3565 (i, u).
 – – – fo. *vaucheri* 3565 (i, u).
 – *vesicatum* 800, 1084, 3563 (i, u), 3565 (i, u).
 – *virceburgense* 1634 (i, n), 3445, 3563 (i, u), 3565 (i, u), 3568.
 – *welwitschii* fo. *depressum* 3563 (i, n).
 – – var. *welwitschii* fo. *depressum* 3565.
 – *wolleanum* 1613, 1629 (i, u), 2069, 2166, 3563 (i, u), 3565.
 – – var. *concinnum* 1616 (u), 1629 (i, u), 2166.
 – – var. *insigne* 3563 (i, u), 3565 (i, u).
 – – var. *wolleanum* 3563 (i, u).
 – – – fo. *wolleanum* 3565 (i, u).
 – sp. 51, 54, 112, 121, 126, 185, 188, 202, 204, 311, 320, 321, 323, 324, 475, 476, 655, 736, 753, 758, 777, 960 (u), 987, 996, 1056, 1059 (i), 1181 (i), 1232, 1236, 1243, 1300, 1305, 1306, 1314, 1355 (u), 1359, 1384 (i, u), 1390, 1439, 1568, 1613, 1614, 1685, 1686 (i), 1789, 1791, 1801 (u), 1807, 1821, 1932, 2074, 2080, 2102, 2166, 2181, 2184, 2254, 2267, 2383, 2471, 2504 (i), 2534, 2535, 2536, 2581, 2599, 2603, 2641, 2691, 2701, 2714, 2718, 2722, 2864, 3056, 3112, 3131, 3136, 3137, 3140, 3158, 3250, 3286, 3328, 3352, 3379, 3412, 3468, 3485, 3498, 3568, 3591, 3595, 3675, 3755 (i), 3769, 3809, 3812, 3848, 3922, 4013.

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- Ancyλονema nordenskjoeldii* 1126, 2175 (i), 2491 (i).
Craterospermum laetevirens 1663.
 – sp. 1205.
Entransia fimbriata 3567 (i, u).
Mesocarpus braunii 751.
 – *degreyi* fo. *breve* 2632 (i, u).
 – *flavus* 1084.
 – *genefluxa* 1651.
 – *gracilis* 1084.
 – *intricatus* 1206.
 – *parvulus* 520 (u), 800, 1084, 1206, 1743, 1893, 2074, 2102, 2123.
 – – a. *genuinus* 520.
 – *pleurocarpus* 374, 1084, 1893.
 – *scalaris* 1084, 1893.
 – *subtilissimus* 1084.
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- var. *grande* 751.
 -- *micrococcum* 1918.
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 -- *corniculata* 1355, 3020 (i, u), 3320.
 -- *flava* 22, 797, 1889, 2509.
 -- *genuflexa* 374, 520 (u), 549, 655, 729, 1217, 1329, 1382, 1402, 1893, 2296, 2646 (u), 2687, 2727, 2728, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320, 4009, 4013.
 -- *gracilis* 797, 2509.
 -- fo. *elongata* 797.
 -- *gracillima* 549, 2098, 2100, 2597, 3317 (i, u), 3318 (i, u), 3320.
 -- *laetevirens* 1818.
 -- *laevis* 321, 549, 735, 3320.
 -- *nummuloides* 549, 735 (u), 2074, 2080, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
 -- *ovalis* 521 (u), 3020 (i, u), 3317 (i, u), 3318 (i, u).
 -- *paludosa* 3020 (i, u), 3317 (i, u), 3318, 3320.
 -- *parvula* 549, 729, 960 (i, u), 1613, 2166, 2728, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320, 3607, 3812.
 -- *quadrangulata* 438, 3317 (i, u), 3318 (i, u), 3320.
 -- *quadrata* 520 (u), 729, 1893, 2080.
 -- *recurva* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
 -- *reinschii* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
 -- *robusta* 430, 438, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
 -- *scalaris* 521, 549, 729, 735 (u), 1613, 1614, 1893, 2166, 3317 (i, u), 3318 (i, u), 3497, 3607.
 -- *subtilissima* 22, 797 (n), 1889, 2509.
 -- *tenuis* 797, 2509.
 -- *virescens* 1818.
 -- *viridis* 521, 729, 960 (i, u), 1205, 1893, 2074, 2077, 2644, 2714 (u), 2824, 3020 (i, u), 3320, 3812.
 -- sp. 53, 54, 112, 114, 116, 121, 126, 146, 164, 188, 202, 204, 313, 320, 322, 323, 324, 475, 476, 479, 480, 698, 753, 854 (i, u), 920, 968, 1043, 1044, 1046, 1048, 1059 (i), 1181 (i), 1305, 1306, 1384 (i), 1566, 1568, 1570, 1643, 1644, 1649, 1685, 1697, 1758, 1789, 1791, 1799, 1821, 1930, 2102, 2151 (i), 2163, 2166, 2181, 2184, 2203, 2254, 2307, 2311, 2315, 2321, 2322, 2339, 2378, 2397, 2424, 2431, 2471, 2476, 2504 (i), 2534, 2580, 2581, 2586, 2603, 2642, 2714 (u), 2718, 2722, 2727, 2802 (i), 2804, 2882, 2937, 3117, 3136, 3137, 3158, 3250, 3328, 3379, 3430, 3445, 3468, 3569, 3659, 3675, 3712, 3755, 3784, 3812, 3829, 3848, 3987.
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Rhynchonema angulare 800, 1889.
 -- *diductum* 797, 1889.
 -- fo. *tenuis* 1889.
 -- *jenneri* 797, 1889.
 -- *quadratum* 797, 2509.
 -- *reversum* 1889, 2509.
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 -- fo. *elongata* 549.
 -- *affinis* 1380, 1382, 4013.
 -- cf. *affinis* 572.
 -- *alternata* 797, 2509.
 -- *arcta* 549, 797, 2378, 2509, 2644.
 -- c. *catenaeformis* 1084.
 -- var. *catenaeformis* 735 (u), 736.
 -- a. *genuina* 1084.
 -- *incrassata* 549.
 -- var. *nodosa* 2644.
 -- *bellis* 549, 3317 (i, u), 3318 (i, u), 3320.
 -- *borgeana* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
 -- *brunnea* 2166.
 -- *calcareo* 956 (i, u), 957, 960 (i, u), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
 -- *calospora* 956 (i, u), 960 (i, u), 2166, 2416.
 -- *catenaeformis* 797, 2509, 3317 (i, u), 3318 (i, u), 3320.
 -- *circumcissa* 3317 (i, u), 3318 (i, u), 3320.
 -- *circumlineata* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.

- Spirogyra colligata* 957, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *columbiana* 3317 (i, u), 3020 (i, u), 3318 (i, u), 3320.
- *communis* 521, 522 (u), 549, 654, 729, 735 (u), 979 (i, u), 1382, 1889, 1893, 2166, 2644, 3020 (i, u), 2728, 3317 (i, u), 3318 (i, u), 3320, 4013.
- a. *genuina* 521.
- c. *mirabilis* 1084.
- b. *subtilis* 521, 1084, 1889.
- fo. *subtilis* 549.
- *condensata* 715, 2166, 2583, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320, 4009.
- *crassa* 174, 389, 520, 575, 956 (u), 957, 960 (u), 987, 1205, 1206, 1329, 1382, 1402, 1662, 1663, 1919, 2644, 2650, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320, 3607, 4009.
- a. *genuina* 1084.
- var. *heeriana* 2077.
- cf. *crassa* 777.
- *czubinskii* 3020 (i, n), 3317 (i, u), 3318 (i, u), 3320.
- *decimina* 549, 797 (u), 956 (i, u), 960 (i, u), 973 (i), 988, 1662, 1663, 2509, 2730, 3320.
- a. *genuina* 1084.
- cf. *decimina* 1264.
- *densa* 797, 1084, 1402, 1889.
- *dubia* 174.
- var. *longiarticulata* 549.
- *elliptica* 963 (i, u), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *elongata* 797, 1084, 1889, 2509.
- *fennica* 979 (i, u), 1686, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *flavescens* 800, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- var. *parva* 4009.
- *fluviatilis* 22, 174, 438, 549, 797, 956 (i, u), 957, 960 (u), 1084, 1889, 2509, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *fuellebornii* 964 (i, u), 971 (i, u), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *fusco-atra* 1084.
- *gemmaflexa* 2687.
- *gracilis* 797, 2509, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- a. *genuina* 1084 (u).
- b. *flavescens* 1889.
- c. *flavescens* 1084.
- var. *flavescens* 549, 2166.
- c. *longearticulata* 1889.
- b. *longearticulata* 1084.
- var. *longearticulata* 797 (u), 2509.
- *granulata* 3320.
- *grevilleana* 735 (u), 963 (i, u), 979 (u), 1044, 1205, 1889 (i), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *hassalii* 956 (u), 960 (u), 1084, 2166, 2583 (u), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *hungarica* var. *cracoviensis* 1719 (i, n).
- *hyalina* 549.
- *inaequalis* 715, 800, 1084, 2644.
- *inflata* 963 (i), 973, 979 (i, u), 1686, 2069, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320, 3497.
- *insignis* 1205, 1206, 1663, 1904, 3020 (i, u), 3320.
- b. *braunii* 1084.
- *intermedia* 2644 (u), 2646 (u).
- *irregularis* 549.
- *jugalis* 713, 729, 735, 1206.
- *jurgensii* 797, 956 (i, u), 960 (i, u), 988, 989, 2509, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *lacustris* 979 (i, u), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *lagerheimii* 3323 (i, n).
- *laxa* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *lodziensis* 987, 989 (i, n), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *longata* 215, 438, 520, 549, 735, 751, 797, 800, 956 (i, u), 960 (i, u), 979 (i, u), 996, 1205, 1206, 1402, 1613, 1614, 1662, 1663, 1686, 2031, 2077, 2166, 3020 (i, u), 3223, 3317 (i, u), 3318 (i, u), 3320, 4009.
- a. *longata* 1084 (u).
- var. *longata* 549.
- *lutetiana* 735 (u), 751, 1614, 2166.
- *majuscula* 549, 797, 955 (i, u), 956 (i, u), 957, 960 (i, u), 973 (i), 1205, 1206, 1402, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- a. *genuina* 1084 (u).
- var. *brachymeris* 1205, 1206.
- *maxima* 655, 956 (i, u), 960 (i, u), 968, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.

- *mirabilis* 735 (u), 797, 963 (u), 979 (u), 2509, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *naegellii* 797, 2509, 2730.
- *neglecta* 174, 549, 956 (i, u), 960 (u), 1611 (i), 2687, 2728, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320, 4009.
- *nitida* 729, 971 (i), 973 (i), 979 (i, u), 988, 989, 1084, 1205, 1329, 1402, 1663, 1893, 2067 (i), 2509, 2646 (u), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *nodifera* 988, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *orbicularis* 797, 800, 1084, 1666, 1889, 2509, 2644 (u).
- *orthospira* 1380, 1382, 4013.
- *paludosa* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *papulata* 1627 (i).
- *polymorpha* 438, 549, 1273, 1276, 3317 (i, u), 3318 (i, u), 3320.
- *porticalis* 729, 735 (u), 979 (i, u), 988, 989, 1382, 1893, 2074, 2166, 2583, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *princeps* 1662, 1663, 1666.
- *protecta* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *punctata* 571, 751, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *quadrata* a. *genuina* 1084.
- *quinina* 568 (i), 1329, 1663, 1893, 2123, 2509, 2644 (u), 2646 (u), 2650, 4009.
- a. *genuina* 1084.
- b. *inaequalis* 800.
- b. *juergensii* 1084.
- *reticulata* 2646 (u).
- *rivularis* 438, 1084, 1205, 1889, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *semiornata* 979 (i, u), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *setiformis* 520, 735, 797, 971 (i, u), 1084, 1889, 2509, 3317 (i, u), 3318 (i, u), 3320.
- *silesiaca* 973 (i), 976, 980 (i, n), 987, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *silvestris* 22, 797, 1889.
- *spreiana* 1206, 2166, 2730.
- *stagnalis* 22, 549, 797 (u), 1084, 1889.
- *stictica* 729, 956 (u), 960 (u), 1329.
- *subaqua* 797, 1084, 1402, 2644.
- *subpratensis* 1615 (u), 2166, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *subsalsa* 797, 962 (i), 2031, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *subtilis* 797, 1889, 2509.
- *tenuissima* 202, 520, 549, 979 (u), 1206, 1380, 1382, 1402, 1613, 2166, 2728, 2730, 3317 (i, u), 3318 (i, u), 3320, 4013.
- a. *genuina* 1084, 3020 (i, u).
- *teodorescii* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *ternata* 946 (i), 971 (i), 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- *theobaldii* 797, 2509.
- *torulosa* 797, 1084, 2509.
- *varians* 549, 735 (u), 956 (i, u), 960 (u), 988, 989, 996, 1084, 1613, 1614, 1919, 2166, 2184, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320, 4009.
- *ventricosa* fo. *elongata* 1889.
- *volvox* 63, 729, 1893, 2852.
- *weberi* 438, 549, 735, 956 (u), 960 (u), 979 (i, u), 989, 1206, 1329, 1382, 1666, 1685, 1889, 2031, 2509, 2644 (u), 2783, 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320, 4009.
- var. *elongata* 1889.
- a. *genuina* 1084 (u).
- var. *genuina* 713, 729, 735 (u), 1206.
- var. *grevilleana* 1084.
- var. *hilseana* 797, 1084, 2509.
- e. *intermedia* 713.
- fo. *tenuis* 1084.
- *woodsii* 3020 (i, u), 3317 (i, u), 3318 (i, u), 3320.
- sp. 26, 53, 63, 82, 126, 137, 146, 179, 185, 188, 191, 202, 204, 257, 258, 266, 268, 302, 311, 313, 320, 325, 348, 475, 480, 482, 571, 574, 656, 657, 658, 751, 753, 854 (i), 895, 968, 973 (i), 1001, 1004, 1043, 1044, 1046, 1048, 1051, 1056, 1059 (i), 1097, 1098, 1099, 1114, 1181 (i), 1232, 1237, 1241, 1243, 1244, 1248, 1261, 1264, 1273, 1275, 1276, 1277, 1300, 1304, 1306, 1308, 1314, 1355, 1364, 1384 (i), 1428, 1566, 1568, 1570, 1639, 1649, 1651, 1685, 1697, 1773, 1789, 1791, 1799, 1801 (u), 1815, 1821, 1930,

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- Spirotaenia acuta* 2509.
- *condensata* 2123, 2714 (i).
- *obscura* 1382, 2321, 2714 (i, u).
- var. *alpina* 2069.
- Staurospermum quadratum* 1889.
- b. fo. 1889.
- *viride* 1662, 1663.
- Zygnema aequale* 549.
- *affine* 549.
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- var. *linea* 691, 960 (u), 1687 (i, u), 2100, 2102 (i), 2321, 2597, 2633 (i, u), 2634 (i, u), 3250 (i, u), 3474, 3476, 3477, 3812, 3829 (i, u).
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- var. *alpinum* 691, 2634 (i, u), 2714 (i, u), 3829 (i, u).
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 - *lanceolatum* 161, 202, 374, 438, 691, 715, 729, 735, 957, 960, 968 (u), 1004, 1236, 1402, 1789, 2166, 2264, 2267, 2580, 2631 (i, u), 2902 (u), 2905, 3137, 3476, 3747.
 -- var. *bernardii* 202, 1685.
 - *leibleinii* 118, 137, 268, 311, 313, 320, 321, 325, 475, 519 (u), 617, 654, 655, 656, 713, 729, 735, 736, 746, 751, 753, 799, 800, 952 (u), 957, 960 (u), 1043, 1044, 1051, 1056, 1084 (u), 1105, 1194, 1231, 1232, 1236, 1237, 1266, 1273, 1275, 1382, 1570, 1662, 1663, 1799 (u), 1893, 1929, 2072, 2077, 2166, 2181, 2184, 2264, 2267, 2321, 2383, 2631 (i, u), 2634 (i, u), 2712, 2718, 2722, 3158, 3359, 3445, 3474, 3476, 3477, 3485, 3569, 3572, 3848.
 -- var. *leibleinii* 3829 (i, u).
 -- fo. *willei* 717.
 - *libellula* 346, 430, 655, 691, 1217, 1687 (i, u), 2504 (i), 2714 (u), 3497.
 -- fo. *intermedium* 1687.
 -- var. *intermedium* 691, 2714 (i, u).
 -- var. *interruptum* 952 (u), 960 (u), 2581.
 - *limneticum* 202, 2822, 3755.
 -- var. *fallax* 1685, 3379.
 -- var. *limneticum* 3379.
 -- var. *tenue* 3476, 3829 (i, u).
 - *linea* 735, 952 (u), 2644.
 - *lineatum* 118, 188 (i), 325, 430, 438, 519 (u), 617, 655, 691, 713, 729, 735 (i), 746, 800, 861 (i), 952 (u), 1046, 1084, 1217, 1236, 1264, 1275, 1300, 1359, 1390, 1402, 1662, 1663, 1687 (i, u), 2043, 2166, 2203 (i), 2267, 2383, 2714 (u), 3158, 3474, 3476, 3485, 3591, 3747, 3755.
 -- var. *angustatum* 2075, 2078, 2081, 2084.
 -- var. *lineatum* 3829 (i, u).
 - *littorale* 1303, 1384 (i, u), 2184, 2920, 3359, 3485, 3569, 3572.
 -- var. *crassum* 2184.
 - *luchterianum* 1719 (i, n).
 - *lunula* 320, 519 (u), 691, 713, 731, 735, 751, 799, 800, 861 (i), 952 (u), 960 (u), 968 (u), 981, 1004, 1056, 1084, 1096, 1097, 1206, 1217, 1340, 1380, 1382, 1402, 1743, 1799, 1893, 2043 (u), 2072, 2077, 2166, 2203 (i), 2297, 2321, 2383, 2509, 2633 (i, u), 2634 (i, u), 2650, 2651, 2714 (u), 2854, 2902 (u), 2903, 3476, 3485, 3569, 3591 (i), 3712, 4013.
 -- fo. *biconvexum* 118.
 -- var. *coloratum* 861 (i), 1088 (i), 2644 (u), 2646.
 -- var. *cuneatum* 736.
 -- var. *intermedium* 730, 731 (i, n), 735 (i), 2321.
 -- var. *lunula* 3829 (i, u).
 -- var. *sublanceolatum* 1088 (i).
 -- var. *typicum* 746, 880 (i), 2646 (u).
 -- fo. 2644 (u).
 - *macilentum* 430, 519 (u), 691 (u), 729, 800, 861 (i), 1084 (u), 1687 (i, u), 2504 (i), 2632 (i), 2712, 2783, 3476.
 -- var. *macilentum* 3829 (i, u).
 - *malinvernianiforme* 185, 691, 2166, 2583.
 - *malinvernianum* 691, 861 (i), 952, 1264, 1275, 1570, 2321.
 - *moniliferum* 32, 54, 62, 63, 82, 98, 118, 179, 183, 188, 191, 204, 258, 266, 268, 311, 313, 320, 321, 323, 324, 325, 374 (i), 430, 433, 434, 438, 519 (u), 572, 574, 575, 576, 578, 617, 654, 655, 656, 657, 691, 706, 715, 735 (i, u), 736, 751, 758 (u), 799, 800, 854 (i), 861 (i), 898, 905, 952 (u), 957, 960 (u), 968 (u), 996, 1004, 1005, 1043, 1044, 1084 (u), 1096, 1097, 1098, 1099, 1105, 1194, 1205, 1206, 1217, 1232, 1236, 1237, 1243, 1244, 1261, 1272, 1275, 1276, 1300, 1303, 1306, 1344, 1359, 1384 (i, u), 1402, 1566, 1568, 1569, 1570, 1685, 1758, 1789, 1791, 1799 (u), 1807, 1821, 1876, 1931, 1932, 2072, 2074, 2077, 2123, 2166, 2181, 2184, 2264, 2267, 2297, 2311, 2315, 2321, 2322, 2416, 2504 (i), 2507, 2509, 2583, 2631 (i, u), 2646, 2676, 2701, 2712, 2714, 2722, 2728, 2783, 2824, 2903, 2904 (u), 2905, 2906, 3112, 3157, 3158, 3209, 3250 (i, u), 3328, 3359, 3373, 3445, 3474, 3476, 3569, 3572, 3591 (i), 3659, 3675, 3712, 3746, 3747, 3755, 3784, 3812, 3839, 3922.
 -- var. *angulatum* 751.
 -- var. *minus* 1084.

- Closterium moniliferum* var. *concauum* 118, 746, 758 (i), 2184, 2722, 3379, 3829 (i, u).
 -- var. *ehrenbergianum* 1088 (i).
 -- a. *genuinum* 1084.
 -- var. *malinvernianiforme* 2631 (i, u).
 -- var. *moniliferum* 1685, 2802 (i), 3136, 3829 (i, u).
 -- var. *typicum* 729, 746.
 -- fo. 736, 2644 (u).
 -- *moniliforme* 1170, 1276, 1697, 2729 (u).
 -- *navicula* 325, 655, 691 (u), 952 (u), 960 (u), 1217, 1687 (i, u), 2184, 2632 (i, u), 2634 (i, u), 3158, 3474, 3476, 3591 (i), 3784, 3812.
 -- var. *navicula* 3829 (i, u).
 -- *nematodes* var. *proboscideum* 961.
 -- *obtusum* 430, 519 (u), 617, 713, 729, 735 (i, u), 800, 813, 1084, 1340, 1380, 1382, 2074, 2080, 2123, 2296, 2644 (u), 2646, 4013.
 -- var. *incisum* 2074.
 -- b. *maior* 1891 (n).
 -- var. *maior* 1891 (u), 1893.
 -- a. *minor* 1891 (n).
 -- var. *minor* 729.
 -- *parvulum* 118, 179, 191, 311, 313, 320, 325, 374, 438, 519 (u), 617, 654, 691, 713, 729, 735 (u), 751 (u), 758, 861 (i), 952 (u), 960 (u), 968 (u), 1004, 1084 (u), 1205, 1206, 1232, 1304, 1314, 1382, 1402, 1568, 1570, 1687 (i, u), 1893, 2043, 2074, 2077, 2113, 2166, 2181, 2581, 2583, 2631 (i, u), 2632 (i, u), 2634 (i, u), 2701, 2712, 2714 (u), 2727, 2902 (u), 2903, 2905 (u), 3117, 3137, 3158, 3250 (i, u), 3445, 3474, 3476, 3477, 3485, 3591, 3812.
 -- var. *angustatum* 691, 952 (u).
 -- var. *maius* 2634 (i, u).
 -- var. *parvulum* fo. *maius* 3829 (i, u).
 --- fo. *parvulum* 3829 (i, u).
 -- *peracerosum* 758 (i, u), 854 (i, u), 3286, 3474, 3747.
 -- var. *elegans* 2631 (i, u).
 -- *porrectum* 691 (u), 3474, 3476.
 -- *praegrande* 438, 691.
 -- *praelongum* 325, 735, 968 (u), 2714 (i, u), 3158, 3476, 3712.
 -- fo. *brevius* 522 (i, u).
 -- var. *brevius* 1685, 2714 (i, u), 3829 (i, u).
 -- var. *praelongum* 3829 (i, u).
 -- fo. 730, 731 (i, u), 735 (i).
 -- *pritchardianum* 185, 191, 617, 729, 861 (i), 1275, 1276, 1687 (i, u), 1799 (i, u), 2166, 2315, 2321, 2714 (u), 3359, 3445, 3569, 3572.
 -- fo. *crassum* 730, 731 (i, u), 735 (i).
 -- var. *pritchardianum* 3829 (i, u).
 -- *pronum* 204, 268, 323, 324, 325, 573, 654, 691, 735 (u), 861 (i), 960 (u), 2072, 2101, 2181, 2321, 2504 (i), 2632 (i, u), 2634 (i, u), 2701, 2802, 2905, 3136, 3137, 3158, 3250 (u), 3379, 3476, 3477, 3607, 3747, 3755, 3812, 3839.
 -- var. *acutum* 2644.
 -- fo. *brevius* 2631 (i, u), 2632 (i, u), 2634 (i, u), 3136.
 -- var. *brevius* 3137, 3688.
 -- var. *linea* 1088 (i), 2644 (u).
 -- var. *longissimum* 2075, 2078, 2084.
 -- var. *pronum* fo. *brevius* 3829 (i, u).
 --- fo. *pronum* 3829 (i, u).
 -- *pseudanastomosum* 691.
 -- *pseudodiana* 586 (i), 691, 854 (i, u), 861 (i), 1687 (i, u), 3477, 3497.
 -- *pseudopusillum* 698 (i), 2038 (i, u).
 -- *pseudopleurotaenium* 2935.
 -- *pseudospirotaenium* 1340, 2080.
 -- *pseudoturgidum* 730, 731 (i, n), 735 (i).
 -- *punctatum* 1687 (i, u).
 -- *pusillum* 521 (u), 735, 952 (u), 960 (u), 1181 (i).
 -- var. *maius* 729, 735 (u), 751, 1891.
 -- var. *minus* 729, 1893 (u).
 -- a. *monolithum* 746.
 -- var. *monolithum* 735, 751.
 -- *ralfsii* 268, 519 (u), 861 (i), 717, 729, 2102, 3474, 3476, 3477.
 -- var. *delpontii* 2644 (u).
 -- var. *hybridum* 2072, 2509, 2714 (i, u), 3474, 3476, 3477, 3829 (i, u).
 -- *rectum* 730, 731 (i, n), 735 (i).
 -- *rostratum* 311, 373, 426, 519 (u), 576, 617, 655, 656, 691, 729, 731 (i), 735 (i), 746, 799, 800, 861 (i), 957, 960 (u), 1084 (u), 1098, 1099, 1194, 1359, 1570, 1662, 1663, 1685, 1891, 1893, 2072, 2074, 2077, 2084, 2110, 2184, 2264, 2581, 2644, 2657 (u), 2701,

- 2714 (u), 2718, 2722, 2859, 2903, 2904 (u), 2929, 2937, 3373, 3474, 3476, 3477, 3485.
- fo. *angustior* 730, 731 (i, u), 735 (i).
- var. *angustatum* 3474.
- var. *kuetzingii* 1088.
- var. *rostratum* fo. *brevirostratum* 3829 (i, u).
- fo. *rostratum* 3829 (i, u).
- *setaceum* 188 (i), 519 (u), 655, 691, 729, 751 (u), 800, 897, 898, 901, 905, 952 (u), 960 (u), 1084 (u), 1382, 1685, 1687 (i, u), 1893, 2203 (i), 2581, 2632 (i, u), 2634 (i, u), 2714 (u), 2905, 3137, 3359, 3372, 3445, 3476, 3497, 3569, 3572, 3591, 3784, 3922.
- var. *setaceum* 3829 (i, u).
- *silesiacum* 691 (i, n).
- *siliqua* 1390.
- *spetsbergense* 691 (i, u).
- *spiraliforme* 2086 (n), 2088.
- *strigosum* 179 (i), 320, 521 (u), 603, 654, 715, 729, 730 (u), 731 (i, u), 735 (i), 751, 1004, 1084 (u), 1099, 1304, 1343, 2077, 2184, 2265, 2267, 2321, 2597, 2701, 3250 (i, u), 3373, 3485, 3746, 3747, 3839.
- var. *elegans* 1719 (i), 3476.
- *striolatum* 146, 188 (i), 438, 519 (u), 574, 617, 655, 656, 713, 735 (i), 751, 799, 800, 861 (i), 952 (u), 960 (i, u), 1084, 1170, 1206, 1273, 1275, 1340, 1359, 1364, 1685, 1687 (i), 891, 1893, 2043, 2074, 2080, 2102, 2123, 2310, 2504 (i), 2632 (i, u), 2634 (i, u), 2712, 2714 (i, u), 2719, 2729 (u), 2824, 2903, 2904 (u), 3286, 3445, 3497, 3591 (i), 3755.
- var. *costatum* 1088 (i).
- var. *elongatum* 617, 1084 (u).
- var. *erectum* 729, 735 (i, u), 1088 (i), 1687 (i, u), 2644 (u), 2646, 3829 (i, u).
- var. *genuinum* 1084.
- var. *striolatum* 3829 (i, u).
- var. *tumidum* 735 (u), 952 (u).
- a. *typicum* 1088 (i).
- var. *typicum* 729, 1893.
- *subangulatum* 730, 731 (i, n), 735 (i).
- *subjudicum* 521 (u).
- *subpronum* 63, 2321, 4009.
- *subscoticiforme* 691 (i, u).
- *subscoticum* 3445.
- *subtile* 519 (u), 729, 1084 (u), 1893 (u).
- *subulatum* 3688.
- *tenerimum* 800.
- *toxon* 3476, 3829.
- var. *toxon* 3829 (i, u).
- *trachypleurum* 1364.
- *tumidulum* 118, 1687 (i, u), 3250 (i), 3474, 3476, 3591.
- *tumidum* 691 (u), 861 (i), 1687 (i, u), 2632 (i, u), 2634 (i, u), 3474, 3476, 3477, 3497, 3591.
- var. *nylandicum* 2718, 3591 (i).
- var. *tumidum* 3829 (i, u).
- *turgidum* 691, 729, 735 (i, u), 1084 (u), 1217, 1685, 1893, 2077, 2603, 2714 (u), 3158.
- fo. *attenuatum* 522 (i, n).
- fo. *glabrum* 730 (u), 731 (i, u), 735 (i).
- var. *typicum* 1088 (i).
- *ulna* 118, 861 (i), 952 (i, u), 960 (i, u), 1382, 1687 (i, u), 2321 (i), 2632 (i, u), 2634 (i, u), 2714 (i, u), 3117, 3445, 3497, 3591.
- *venus* 118, 179, 185, 191, 320, 323, 324, 325, 430, 478, 519 (u), 528, 617, 655, 691, 717, 729, 735 (i), 751, 800, 952 (u), 960 (u), 1084 (u), 1181 (i), 1232, 1236, 1237, 1300, 1390, 1614, 1687 (i, u), 1893, 2074, 2123, 2166, 2184, 2322, 2581, 2583, 2632 (i, u), 2644 (u), 2712, 2714 (u), 3158, 3445, 3474, 3476, 3477, 3497, 3591.
- var. *incurvum* 3445.
- fo. *minus* 3474, 3476.
- var. *venus* 3829 (i, u).
- var. *verrucosum* 3474.
- *wagae* 730, 731 (i, n), 735 (i).
- sp. 53, 54, 62, 98, 112, 114, 116, 121, 131, 135, 137, 152, 179, 183, 185, 188, 191, 261, 266, 268, 302, 322, 325, 391, 474, 475, 476, 603, 735, 895, 975, 996, 1004, 1105, 1114, 1181 (i), 1231, 1232, 1236, 1237, 1241, 1243, 1244, 1248, 1261, 1264, 1266, 1273, 1275, 1300, 1304, 1306, 1639, 1687 (i), 1721, 1758, 1800, 1801 (u), 1807, 1815, 1817, 1932, 2166, 2181, 2184, 2307, 2504 (i), 2581, 2802 (i), 2864, 2950, 3112, 3131, 3135, 3136, 3160, 3445, 3468, 3653, 3739, 3746, 3758, 3843.
- Cosmaridium silesiacum* 2065.

- Cosmarium abbreviatum* 729, 751, 861 (i), 1205, 1382, 1687 (i, u), 1891 (i, n), 2264, 2789, 3474, 3476, 3591, 3659.
 -- fo. *minor* 146, 691, 2885 (i, u).
 -- var. *planctonicum* 2835, 3659.
 -- *abruptum* 3476.
 -- fo. *gostyniense* 1891 (i, n).
 -- b. *gostyniense* 1891 (i, u).
 -- *aciculare* 325, 3158.
 -- *adelochondrum* 691.
 -- *adoxum* 3379.
 -- *alatum* 617, 1084 (u).
 -- var. *gostyniense* 1891 (i, n).
 -- *alpinum* 729, 751 (i).
 -- *amoenum* 430, 691 (i), 729, 735 (i), 751 (i), 800, 861 (i), 1084 (u), 1687 (i, u), 1889, 2043, 2203 (i), 2632 (i, u), 2634 (i, u), 2714 (u), 3474, 3476, 3497, 3591.
 -- var. *amoenum* 3829 (i, u).
 -- var. *annulatum* 528, 529 (i, n).
 -- *anceps* 691, 751, 2072, 2073, 2722 (i, u).
 -- fo. *crispula* 146, 2885 (i, u).
 -- var. *minimum* 717 (i), 751.
 -- b. *pusillum* 521 (u), 751, 1895.
 -- fo. *tatrensis* 751.
 -- *angulatum* 1889.
 -- *angulosum* 146, 691, 800, 1390, 1687 (i, u), 2631 (i, u), 2722 (i, u), 2885 (i), 3474, 3476, 3477, 3497, 3591, 3812.
 -- var. *angulosum* 3829 (i, u).
 -- var. *concinnum* 691, 758 (i, u), 3474, 3476, 3591 (i, u).
 -- var. *euastroides* 3476, 3477.
 -- var. *scrobiculatum* 3474, 3476.
 -- *angustatum* 729, 735, 751, 1895 (u).
 -- fo. *minor* 735 (u).
 -- *anisocondrum* 146, 2881, 2885.
 -- fo. *bipapillata* 146.
 -- var. *geminatum* 146, 2881, 2885.
 --- fo. *bipapillata* 146, 2881 (n), 2885.
 --- fo. *mediolaevis* 146, 2881 (i, n), 2885.
 -- *annulatum* 519 (u), 3476.
 -- *anomalum* 2074.
 -- *ansatum* 1084 (u).
 -- *aphanichondrum* 2264.
 -- *archeri* 731 (i).
 -- fo. *minor* 730, 731 (i, u), 735 (i), 751 (i, u).
 -- *arctoum* 519 (u), 1891.
 -- var. *tatricum* 729, 751, 1891 (i, n).
 -- *arnellii* var. *irregulare* 529 (i, n).
 -- var. *rostocense* 146, 2885 (i, n), 729.
 -- *asphaerosporum* 2651.
 -- var. *strigosum* 691, 2632 (i, u), 3829 (i, u).
 -- *atlantoideum* 735 (i).
 -- *bicardia* 521 (u), 731 (i), 735.
 -- var. *latius* 731 (i, u), 3379.
 --- fo. *intermedia* 731 (i, u).
 -- fo. *maior* 730, 731 (u), 735 (i).
 -- var. *trapezicum* 529 (i, n), 731 (i, u).
 -- *bigranulatum* var. *polonica* 530, 531 (i, n).
 -- *binodulum* 691.
 -- *binum* 691, 729, 751 (i), 1895 (i, u), 2714 (i, u), 3445.
 -- *bioculatum* 112, 146, 321, 365, 521 (u), 617, 691, 729, 735 (i), 751 (i, u), 753, 800, 952 (u), 960 (u), 1044, 1084 (u), 1181 (i), 1217, 1300, 1382, 1685, 1890, 1892, 1893, 1929, 2074, 2077, 2166, 2267, 2297, 2321 (i), 2632 (i, u), 2634 (i), 2644 (u), 2712, 2727, 3158, 3379, 3474, 3476, 3477 (i), 3591 (i), 3659, 3892.
 -- var. *bioculatum* fo. *bioculatum* 3829 (i, u).
 --- fo. *depressum* 3829 (i, u).
 -- var. *comphalum* fo. *minor* 2102 (i, n).
 -- b. *cremulatum* 1402.
 -- fo. *depressa* 2634 (i, u).
 -- var. *depressum* 735, 1304.
 --- fo. *depressulum* 2802 (i).
 -- var. *emarginatum* 146, 2885 (i, n).
 -- var. *excavatum* 2714 (i, u).
 -- fo. *gutwinskii* 729.
 -- var. *hians* 691 (i, u).
 -- var. *minutissima* 202, 204, 3137.
 -- var. *parvum* 146, 2885 (i, u).
 -- *bipunctatum* 691, 3476.
 -- fo. *subrectangulare* 3476.
 -- var. *podlachicum* 522 (i, n).
 -- *bireme* 2077, 2727, 3137, 3379, 3591 (i, u).
 -- fo. *minima* 146, 2885 (i, n).
 -- *biretum* 146, 713, 729, 735, 861 (i), 1084 (u).
 -- fo. *supernumeraria* 730, 731 (i, u), 734, 735 (i).
 -- var. *trigibberum* 2321.
 -- *blyttii* 146, 519 (u), 691, 758, 952 (u), 960 (u), 1687 (i, u), 1895 (i, u), 2714 (i, u) 2727,

- 2728, 2881, 2885, 3474, 3476, 3497, 3591 (i), 3755, 3829.
- var. *novae-sylvae* 146, 2634 (i, u), 2881 (i), 2885, 3474, 3476, 3829 (i, u).
- var. *tristriatum* 146, 2881 (i), 2885.
- *boeckii* 146, 691, 729, 735, 952 (u), 960 (u), 1382, 2859, 2881 (i), 2885, 3379, 3474, 3476, 3497, 3591 (i), 3812.
- fo. *minor* 522 (u).
- b. *papillatum* 729.
- *boldtianum* 751.
- *botrytis* 82, 97, 118, 127, 130, 131, 135, 137, 146, 179, 185, 188, 191, 204, 258, 268, 269, 323, 324, 325, 374, 391, 438, 519 (u), 522 (i, u), 549, 573, 576, 578, 586 (i), 654, 656, 657, 658, 691, 713, 715, 731, 735 (i), 736, 746, 758, 800, 854 (i, u), 861 (i), 952 (u), 957, 960 (i), 968 (u), 1004, 1084 (u), 1088 (i), 1205, 1206, 1212, 1217, 1231, 1232, 1236, 1237, 1241, 1243, 1244, 1300, 1304, 1306, 1314, 1384, 1402, 1565, 1566, 1568, 1639, 1662, 1663, 1685, 1687 (i, u), 1789, 1791, 1799, 1892, 1929, 1930, 1931, 1932, 2074, 2077, 2123, 2166, 2184, 2264, 2267, 2297, 2321, 2359, 2509, 2564, 2631 (i, u), 2650, 2712, 2714 (u), 2718, 2722, 2727, 2783, 2881 (i), 2885, 2903 (u), 2905, 2906, 3129, 3158, 3250, 3328, 3445, 3474, 3476, 3485, 3497, 3659, 3675, 3688, 3746, 3747, 3809, 3812, 3839.
- cf. fo. *boldtii* 2069.
- var. *depressum* 691.
- var. *emarginatum* 735 (u), 751, 3476.
- var. *gemmiferum* 146, 691, 2881, 2885.
- var. *mediolaeve* 146, 2881, 2885.
- var. *mesoleium* 549, 735, 1891, 2074.
- var. *paxillosporum* 146, 2881 (i), 2885.
- fo. *lata* 146, 2885 (i, n).
- fo. *messikommeri* 146, 2885.
- fo. *ornata* 146, 2885 (i, n).
- fo. *porosa* 146, 2885 (i, n).
- fo. *trapezica* 146, 2885 (i, n).
- var. *pseudospeciosum* 735.
- var. *squamosum* 735, 736, 751 (i).
- var. *submesoleium* 730, 731 (i, n), 735 (i).
- c. *subovale* 521 (u), 715, 1893.
- var. *subovale* 729, 735 (u), 736, 746.
- var. *subpulchrum* 522 (i, n).
- d. *subtumidum* 715.
- var. *subtumidum* 323, 324, 325, 715, 729, 735 (i, u), 960 (i, u), 2321 (i), 2631 (i, u), 3379, 3474, 3476, 3591 (i, u).
- var. *tuberculatum* 729, 2644 (u).
- var. *tumidum* 118, 146, 2077, 2881, 2885, 3476.
- a. *verruculosum* 729, 1893, 2644 (u).
- var. *verruculosum* 735, 736.
- b. *tuberculatum* 1893.
- fo. *typica* 751.
- *brebissonii* 112, 325, 519 (u), 655, 735 (i), 1364, 1893, 3158, 3328.
- *broomei* 118, 185, 655, 735 (i), 800, 960 (i, u), 1084 (u), 1236, 1889, 1893, 2166, 2727, 3476.
- *caelatum* 519 (u), 617, 691, 729, 735 (i), 746, 751 (i), 800, 1044, 1084 (u), 1818, 1893, 2074, 2123, 2714 (i, u), 2722, 2902 (u), 2903.
- var. *caelatum* 2038 (i).
- var. *spectabile* 735 (u), 746, 751.
- fo. *minor* 717 (i, u).
- fo. *minus* 729.
- var. *triverrucosum* 717 (i, u), 729.
- *calcareum* 549.
- *calodermum* 751 (u), 2074.
- *cambricum* 746, 2074.
- var. *dubium* 729, 751, 1891 (i, n).
- fo. 746.
- *canaliculatum* 861 (i).
- *candianum* fo. *minus* 735 (i, u).
- *cannatum* 1390.
- *capitulum* 521 (u).
- *cataractum* 521.
- *cinnatum* 118.
- *circularare* 325, 1217, 1891 (i, u), 2166, 2416, 3158.
- fo. *minor* 146, 2885.
- var. *minus* 2074, 2504 (i).
- *clepsydra* 731 (i), 735 (i).
- var. *truncatum* 730, 731 (i, n).
- *cohnii* 519 (u), 522 (i, u), 1891 (i, u), 1893 (u).
- *commissurale* var. *crassum* 691.
- *commune* 1891 (i, n), 1895.
- *concinnum* 1364, 2074, 2080, 2264.
- var. *laeve* 146, 2885 (i, u).

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- var. *brevius* 751 (i, n).
- *connatum* 430, 519 (u), 691, 800, 861 (i), 952 (u), 960 (u), 1084, 1217, 1893, 2166, 2631 (i), 2651, 2657 (u), 2712, 2714 (i, u), 3474, 3476, 3477, 3591 (i), 3812.
- var. *pseudoconnatum* 1088.
- var. *rostocense* 146, 2881 (i, n), 2885.
- var. *typicum* 1088 (i).
- *conspersum* 325, 519 (u), 713, 729, 735 (i), 746, 1217, 2657 (u), 3158.
- var. *elongatum* 1891 (i, u).
- var. *latum* 691, 2657.
- a. *ralfsii* 715, 1893.
- var. *rotundatum* 729, 735 (i), 746.
- fo. *intermedia* 1890 (u), 1893.
- fo. *minor* 1890.
- *constrictum* 730, 731 (i), 735 (i), 1355.
- fo. *glabra* 730, 731, 735.
- fo. *punctata* 730, 731 (i, u), 735 (i).
- fo. 731 (i, u).
- *contractum* 118, 257, 519 (u), 691, 729, 861 (i), 952 (u), 960 (u), 1084 (u), 2074, 2077, 2632 (i, u), 2902 (u), 2903, 3137, 3158, 3468, 3474, 3476, 3712, 3713, 3809, 3812.
- var. *contractum* 3829 (i, u).
- var. *cracoviense* 519 (u), 729, 1891 (i, n).
- var. *ellipsoideum* 146, 691, 1336, 2885 (i, u), 3591 (i).
- var. *minutum* 3829 (i, u).
- var. *retusum* 3831 (i, u).
- *controversum* 146, 2885 (i).
- *corbula* 735.
- var. *pyretii* 717 (i), 729.
- fo. *podolica* 729, 735.
- *costatum* 146, 691, 729, 751, 1893 (u), 2902 (u), 2903.
- var. *tatrense* 751 (i, n).
- fo. 746.
- *crassangulatum* 3474, 3476.
- *crenatum* 146, 480, 617, 729, 735 (i), 799, 800, 1084 (u), 1206, 1217, 1685, 2038, 2073, 2074, 2123, 2297, 2718, 2722 (i, u), 2881, 3137, 3359, 3476, 3569, 3572.
- c. *alpinum* 751, 1891 (i, u).
- fo. *crenaelaterales* 2074.
- fo. *minor* 146, 2881 (i, u), 2885.
- fo. *minutum* 1890 (i).
- a. *ralfsianum* 729, 1890 (u), 1893.
- b. *subcrenatum* 1891.
- var. *subcrenatum* 746.
- fo. 729.
- *crenulatum* 146, 164, 438, 655, 1206, 2077, 2264, 2714 (u), 2881 (i), 2885, 3747.
- var. *reinschii* 2077.
- *cruciatum* 729, 1084 (u), 2074.
- *cucumis* 430, 519 (u), 617, 713, 1084 (u), 2074, 2712, 2718, 3476.
- var. *polonica* 519 (i, u), 1891 (i, n).
- var. *quadratum* 1088 (i).
- *cucurbita* 320, 325, 430, 519 (u), 655, 691, 694, 800, 1084, 1190, 1217, 1455, 1456, 1687 (i, u), 1818, 2043, 2203 (i), 2297, 2555, 2714 (u), 2718, 2719, 2902 (u), 2903, 3765.
- var. *attenuatum* 1687 (i, u).
- var. *palangula* 1088 (i).
- var. *typicum* 1088 (i).
- fo. *wollei* 522 (i, u).
- *curtum* 729, 751, 1084.
- *cyclicum* 735 (i, u), 746, 751 (i).
- var. *angulatum* 735 (i, u).
- var. *arcticum* 2631 (i, u).
- fo. *minor* 521 (u), 735 (u).
- fo. *minutissima* 522 (i, n).
- var. *maculatum* 751 (i).
- fo. *tatrica* 751 (i, u).
- fo. *tatrica* 753.
- *cylindricum* 800, 1084, 1889, 3476.
- *cymatopleurum* 691, 751 (i, u), 2722.
- var. *archeri* 861 (i), 2722 (i, u).
- fo. *polonica* 729, 751, 1895 (i, u).
- *danicum* 2077.
- *davidsonii* 691 (u), 751 (i).
- var. *basior natum* 691 (i, n).
- var. *simplicius* 751 (i, n), 753.
- *debaryi* 430, 519 (u), 691, 1084 (u), 1217, 1687 (i, u), 2043, 3812.
- var. *turgidum* 1088.
- var. *typicum* 1088 (i).
- *decachondrum* 691, 735 (i).
- var. *taxichondriforme* 730, 731 (i, n), 735.
- *decedens* 1044.
- c. *boreale* 751.
- b. *carpaticum* 521 (u), 751, 1895 (i, u).

- var. *carpaticum* 2074.
 – *dentiferum* 751 (i), 2321.
 – fo. *maior* 751 (i, u).
 – *depressum* 135, 188, 323, 324, 325, 430, 519 (u), 617, 655, 691, 729, 1084 (u), 1304, 1685, 2080 (i), 2166, 2184, 2311, 2321, 2416, 2631 (i, u), 2701, 2729, 2803, 3158, 3430, 3445, 3476, 3591 (i, u), 3747, 3812.
 – var. *achondrum* 146, 2311, 2321 (i), 2802 (i), 2881 (i), 2885 (i, u), 3158.
 – fo. *minor* 146, 2881 (i), 2885 (u).
 – var. *limneticum* 185, 191, 2166.
 – fo. *minor* 146.
 – fo. *minuta* 3379.
 – var. *planctonicum* 325, 2802 (i, u), 3158, 3430.
 – var. *reniforme* 2321 (i).
 – *didymochondrum* 146, 729, 751 (i), 1895 (u), 2074, 2644 (u), 2885 (u), 3359, 3569, 3572.
 – fo. *monochondra* 146, 2885 (i, n).
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 – fo. *tatrica* 146, 751 (i, n), 2885 (i, u).
 – *didymoprotusum* 2856, 2859.
 – *difficile* 146, 325, 522 (u), 691, 751 (i), 753, 960 (i, u), 2504 (i), 2631 (i, u), 2714 (i, u), 2722, 2881, 2885, 3158, 3476, 3812.
 – var. *bacillariforme* 146, 2885 (i, n).
 – var. *difficile* 2038 (i).
 – fo. *minutissima* 146, 2881 (i, n).
 – fo. *rotundata* 146.
 – var. *subimpressulum* 146, 2881 (i).
 – var. *sublaeve* 146, 751 (i), 2080, 2881 (i).
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 – *dovrense* 729, 751 (u, i), 1895 (u).
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 – fo. *mediolaensis* 146, 2881 (i, n).
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 – *eductum* var. *tatricum* 751, 1895 (i, n).
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 – fo. *minor* 3812.
 – var. *simplicius* 691, 3829 (i, u).
 – var. *subsimplax* 691 (i, n).
 – *ellipsoideum* 430, 861 (i), 2077.
 – var. *minor* 1891 (i, n), 2714 (u).
 – var. *minus* 519 (u), 729, 735 (i), 751, 2712, 2727.
 – *elongatum* 1891 (i, n).
 – *emarginulum* fo. *helvetica* 1891.
 – fo. *polonica* 1891 (u).
 – var. *polonicum* 729, 751.
 – *etchachanense* 751 (u, i).
 – *exiguum* 521 (u), 3474, 3476.
 – var. *exiguum* 3829 (i, u).
 – fo. *minor* 146, 2885 (u).
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 – *fontigenum* 691, 735 (u).
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 – var. *formosulum* 3829 (i, u).
 – var. *hyperevolutum* 146, 2881 (i, u), 2885.
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 – fo. *minor* 146, 2885 (n).
 – *garrolense* 751 (u), 1304.
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 – *genuosum* 731 (i).
 – var. *minus* 730, 731 (i, n), 735 (i), 746.
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 – fo. *brevior* 2080.
 – var. *globosum* fo. *minor* 3829 (i, u).
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 – fo. *borgii* 751 (i, u).
 – var. *crenulatum* 2080.
 – var. *delpontii* 735, 2077.
 – cf. fo. *elongatum* 1895.
 – var. *hexagonum* 1088 (i), 2644 (u), 2646 (u).
 – fo. *kriegeri* 2881.
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 – fo. *punctata* 146.
 – var. *rotundatum* 2881 (i), 2885, 3379.
 – var. *subgranatum* 146, 735 (i), 1194 (i), 1382, 2657 (u), 2881 (i), 3591 (i).
 – fo. *minor* 146, 2881 (n), 2885.
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 – a. *typicum* 1088 (i).
 – var. *typicum* 729, 2646 (u).
 – *granulatum* 204, 1194, 3569, 3572, 3747, 3755 (i).
 – *gretae* 146.
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 – var. *homalodermum* 146, 2881 (i), 2885.
 – var. *intermedium* 2714 (i, u).
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 – var. *rotundatum* 2074, 2080.
 – *hexagonum* var. *minutum* 735.
 – *hexalobum* var. *minus* 735 (i, u).
 – *hexangulare* 736, 2077.
 – fo. *simplex* 522 (i, u).
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 – fo. *constricta* 735 (i).
 – var. *integrum* 146, 437, 438, 521 (u), 731 (i), 746, 735, 2722 (i), 2881 (i), 2885, 3359, 3569, 3572.
 – fo. *constricta* 730, 731 (i, u), 751 (i, u).
 – fo. 730, 731 (i, u).
 – var. *intermedium* 730, 731 (i, u), 735 (i).
 – var. *nordstedtii* 751 (u).
 – var. *saxicolum* 729, 1891 (i, n).
 – fo. 730, 731 (i, u), 735 (i), 2722 (i, u).
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 – *hornavanense* 146, 691, 751 (i, n), 1051, 2718 (i), 2722 (i, u), 2881 (i, u), 2885, 3560.
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 – var. *glabrum* 146, 2885, 3474, 3476.
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 – var. *casandey* 1685, 3755, 3829 (i, u).
 – var. *gracile* 146, 2885 (i, n).

- fo. *pulchella* 146, 2885 (i, n).
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 -- fo. *galiciensis* 735 (i).
 -- var. *groenlandicum* 730, 731 (i, n).
 --- fo. *galiciensis* 731 (i, n).
 -- *incisum* 1891 (i, n).
 -- *indentatum* 691.
 -- cf. *induratum* 735 (i, u).
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 -- *integerrimum* 521 (u).
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 -- var. *bierenatum* 730, 731 (i, n), 735 (i).
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 -- *latifrons* 731 (i), 735 (i), 1893.
 -- var. *borgei* 730, 731 (i, n), 735 (i).
 -- *latum* 519.
 -- var. *minor* 617, 735 (i, u).
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 -- *limnophilum* 691.
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 -- *logiense* 730, 731 (i, u), 735, 746, 751 (i, u), 1044.
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 -- var. *corruptum* 1818.
 -- var. *ellipticum* 2902 (i, u), 2903, 3379.
 -- fo. *minor* 519 (u), 729, 1893.
 -- *magnificum* 691 (u).
 -- *malinvernianum* 146, 691 (i, n), 731 (i), 2881, 2885.
 -- fo. *ornata* 146, 2881 (i, n), 2885.
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 -- *margaritum* 325, 480, 1044, 1046, 1390, 1687 (i, u), 2043 (u), 2631 (i, u), 2712, (u), 2714 (i, u), 2802 (i), 3158, 3591, 3712, 3755, 3812.
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 -- fo. *minor* 2718, 2722 (i, u).
 -- var. *quadratum* 2603.
 -- var. *scrobiculatum* 146, 2881 (i, n), 2885.
 -- *margaritifera* 53, 54, 112, 118, 146, 204, 321, 325, 438, 519, 549, 617, 713, 729, 735, 736, 746, 751, 799, 800, 861 (i), 1194, 1217, 1304, 1390, 1402, 1614, 1653, 1662, 1685, 2043, 2074, 2077, 2100, 2166, 2203 (i), 2297, 2321, 2632 (i), 2644 (u), 2646, 2714 (i, u), 2902, 2906, 3158, 3468, 3474, 3476, 3477, 3497, 3812, 3755.
 -- fo. *basipapillata* 146, 2881 (u), 2885.
 -- a. *genuinum* 1084 (u), 1893.
 -- b. *incisum* 522 (u), 1084 (u), 1893, 2123.
 -- var. *incisum* 2074.
 -- fo. *kirchneri* 146, 691, 2881 (u), 2885, 3476, 3477.
 -- var. *kirchneri* 3476.
 -- var. *margaritifera* 3829 (i, u).
 -- b. *punctulatum* 800.
 -- var. *retusum* 1818.
 -- b. *tuberculatum* 1893.
 -- *mediolaeve* 529 (i, n).
 -- *melanosporum* 3497, 3591 (i, u).
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- Cosmariium meneghinii* var. *anderssonii* 2074, 2080.
- b. *angulosum* 713.
- var. *angulosum* 519 (u), 713, 735, 1084 (u), 1893.
- var. *braunii* 520 (i, u), 735 (i, u), 751 (i, u), 2824.
- var. *concinnum* 519 (u), 713, 729, 1084 (u).
- var. *difficile* 735, 746.
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- b. *crispulum* 751 (i, u).
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- *minutum* 735 (i, u).
- fo. *minor* 2070.
- *miedzyrzecense* 522 (i, u), 529 (i, n).
- *moniliferum* 112, 146, 655, 735.
- *moniliforme* 519 (u), 729, 735 (i), 800, 861 (i), 1084 (u), 2712, 2729, 2885 (u), 3474, 3476, 3591 (i).
- var. *limneticum* 3474, 3476.
- var. *moniliforme* 3829 (i, u).
- var. *panduriforme* 3812, 3829 (i, u).
- *monochondrum* 2038.
- *monomazum* 691 (i, u).
- var. *polymazum* 1687 (i, u).
- *multiundulatum* 691 (i, n).
- *naegelianum* 146, 713, 729, 1662, 1663, 1893, 2181, 2712.
- *nasutum* 1926.
- var. *euastriforme* 751 (i, u), 2080 (i).
- var. *simplex* 521 (i, u).
- fo. 2074.
- *nathorstii* 717, 729, 2852.
- fo. *tatrica* 751 (i, n).
- var. *trinotatum* 729.
- *nitidulum* 146, 573, 731 (i), 735 (i), 861 (i), 2080, 2881, 2885.
- fo. *minor* 146, 2881 (n), 2885.
- fo. *punctulatum* 717 (i), 746.
- var. *pseudorectangulare* 146, 2881 (i), 2885.
- fo. 146.
- fo. 730, 731 (i, u), 735 (i).
- *nodosum* var. *stellata* 521 (u), 530, 531 (i, u).
- *nordstedtii* 1891 (u).
- fo. *tatrica* 751 (i, n).
- *norimbergense* 520 (i, u).
- fo. *depressa* 146, 2881 (i, u), 2885.
- *notabile* 438, 617, 1084 (u), 1743, 2072, 2123, 2722.
- fo. *minor* 2722 (i, u).
- *novae-semiliae* 691, 735 (i).
- var. *polonicum* 529 (i, n).
- *nymannianum* 519, 691, 1687 (i, u), 2651 (u).
- fo. *brevior* 521 (u), 1895 (u), 2080.
- *obliquum* 437, 438, 691, 729, 751 (i, u), 1893, 2102, 2902 (u).
- var. *maior* fo. *concaulum* 1818.
- fo. *tatrica* 751 (i, u), 2555.
- var. *triquetrum* 691 (i, n).
- *oblongum* 2903.
- *obsoletum* 146, 691, 731, 2651 (u), 2881 (i, u), 2885.
- var. *angustatum* 731 (i).
- fo. *galiciensis* 730, 731 (i, u), 735 (i), 751 (i).
- var. *tinecense* 519 (u), 729, 735 (u), 1899 (i, u).
- *obtusatum* 137, 179, 185, 191, 320, 691, 1232, 1236, 1243, 2043, 2166, 2583 (u), 2631 (i, u), 2712 (u), 2714 (i, u), 2718, 2722, 2856 (i), 2859 (i, u), 3359, 3474, 3476, 3477, 3569, 3572, 3712, 3713.
- *ocellatum* 529 (i, n).

- var. *incrassatum* 691.
 -- var. *notatum* 480, 3137, 3755.
 -- *ochthodes* 54, 118, 146, 323, 324, 325, 480, 549, 617, 691, 729, 735 (i), 736, 746, 751 (i, u), 1194, 1685, 1807, 1893, 2184, 2631 (i, u), 2657 (u), 2712, 2714 (i, u), 2722, 2881, 2885, 3359, 3569, 3572, 3712.
 -- var. *aequale* 146, 2881 (i), 2885.
 --- fo. *subaequalis* 146, 2181 (i, n), 2885.
 -- fo. *amoebo-granulosa* 146, 2881, 2885.
 -- var. *amoebum* 146, 735, 751 (i, u), 2722, 2881 (i), 2885, 3569.
 -- var. *granulosum* 735.
 -- var. *mesoleium* 519 (u).
 -- var. *obtusatum* 735.
 -- fo. *subaequalis* 2881 (i, n).
 -- *orbiculatum* 519 (u), 735 (i), 800, 1084 (u), 2509, 2644 (u).
 -- *ordinatum* 751 (i), 3379.
 -- var. *montanum* 751 (i, n).
 -- *ornatissimum* 751 (i, u).
 -- *ornatum* 112, 118, 430, 438, 519 (u), 691, 729, 735 (i), 751 (i, u), 800, 861 (i), 1084 (u), 1217, 1666, 1687 (i, u), 1799 (u), 2043, 2203 (i), 2311, 2714 (i, u), 2727, 2729, 3474, 3476, 3497.
 -- var. *depressum* 522 (i, n).
 -- var. *polonicum* 521 (u), 735 (i), 1891 (i, n), 2726.
 -- a. *suecica* 1893.
 -- *orthistichum* 691, 735 (i), 3379, 3497.
 -- b. *pumillum* 519.
 -- var. *pumillum* 735 (i), 1687 (i, u).
 -- var. *rectangulum* 529 (i, n).
 --- fo. *minor* 146, 2885 (i, u).
 -- fo. *schulzii* 2714 (i), 2719.
 -- *orthogonum* 2077.
 -- fo. 521 (i, u).
 -- *orthopunctulatum* 1044.
 -- *ovale* 691, 1084 (u), 1687 (i, u), 1893, 2043, 3476.
 -- b. *excisum* 1895 (i, n).
 -- *pachydermum* 146, 161, 325, 430, 438, 519 (i, u), 617, 655, 691, 717, 729, 735 (u), 746, 751, 758, 861 (i), 1084 (u), 1217, 1390, 1893, 2077, 2166, 2651, 2712, 2714 (u), 2718, 2881 (u), 2885, 3591 (i), 3812.
 -- var. *aethiopicum* 691.
 -- var. *hexagonum* 691.
 -- var. *latum* 1088 (i), 2074, 2644 (u), 2646 (u).
 -- fo. *minor* 2080.
 -- var. *minus* 751 (i, u).
 -- *palangula* 519 (u), 800, 1084, 1893, 2509, 2712.
 -- *pardalis* 751 (i, u).
 -- *parvulum* 730, 731 (i, u), 1570.
 -- var. *attenuatum* 730, 731 (i, n), 735 (i).
 -- *perforatum* 519 (i, u), 691, 735 (i), 861 (i), 2651.
 -- var. *rauchii* 2918 (i, u).
 -- var. *skujae* 3812.
 -- *pericymatium* 1044.
 -- *perincisum* 691.
 -- *perpusillum* fo. *mediopapillata* 146, 2885 (i, n).
 -- *pertyanum* 729, 731, 751, 1893 (u).
 -- var. *brevius* 730, 731 (i, n), 735 (i).
 -- *phaseolus* 135, 137, 146, 188, 204, 325, 617, 691, 713, 735, 800, 861 (i), 1084 (u), 1217, 1236, 1303, 1305, 1721, 2074, 2077, 2088, 2097, 2100, 2101, 2115, 2149, 2166, 2297, 2311, 2580, 2597, 2643, 2651, 2728, 2824, 2859, 2905, 3137, 3158, 3250 (u), 3476, 3497, 3591 (i).
 -- var. *achondrum* 2077.
 -- var. *bioculatum* 1088 (i), 2646 (u).
 -- var. *elevatum* 146, 735 (i), 2077, 2881, 2885.
 --- fo. *ocellata* 146, 2881 (i, n), 2885.
 --- fo. *parva* 2885.
 -- fo. *minor* 146, 2881 (i, u), 2885, 3136, 3137.
 -- var. *minus* 519 (u), 521 (u), 1895 (i, u), 2634 (i, u).
 -- var. *typicum* 1088 (i).
 -- cf. *phaseolus* 321.
 -- *plicatum* var. *hibernicum* 2080.
 -- var. *plicatum* 3831 (i, u).
 -- *podlachiae* 529 (i, n).
 -- *pokornyanum* 146, 751 (i), 2722 (i, u), 2885 (i, u), 3569, 3765.
 -- *polonicum* 519 (u), 735 (i), 2631 (i, u).
 -- var. *alpinum* 2714 (i, u), 2719.
 --- fo. *rostocensis* 146, 2885 (i, n).
 -- var. *intermedium* 735 (i).
 -- fo. 729.
 -- *polygonum* 146, 1181 (i), 1206.
 -- fo. 2881 (i, u), 2885.

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 -- var. *nephroideum* 2657 (u).
 -- var. *orthostichum* 522 (u), 735 (u), 751 (i, u).
 -- *praegrande* 2651.
 -- *praemorsum* 438, 519, 691, 729, 2651, 3379.
 -- fo. *basipapillata* 146, 2881 (i, n), 2885.
 -- var. *praemorsum* 3829 (i, u).
 -- var. *stelliferum* 730, 734.
 -- fo. 691 (i, u).
 -- *prominulum* 729, 1891 (i, u).
 -- *pronum* 2069, 2077.
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 -- fo. *decorata* 146, 2885 (i, n).
 -- fo. *glabra* 146, 2881 (i, n), 2885.
 -- fo. *laevis* 146, 2885 (i, n).
 -- fo. *mediolaevis* 146, 2881 (i, n), 2885 (i).
 -- fo. *obtusilobata* 146, 2885 (i, n).
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 -- var. *schmidlei* 325.
 --- fo. 2802 (i).
 -- fo. *subglabra* 146, 2885 (i, n).
 -- fo. *usmensiformis* 146, 2885 (i, n).
 -- *protuberans* 519 (u).
 -- fo. *elevata* 531.
 -- fo. *glabrum* 729, 1891 (n).
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 -- *pseudoamoenum* 118, 655, 735 (i), 960 (i, u), 1217, 1390, 1687 (i, u), 2043, 2297, 3476, 3497.
 -- var. *basilare* 691 (i), 751 (i, u).
 -- *pseudobiremum* 3158.
 -- var. *pseudobiremum* fo. *minor* 2802 (i).
 -- *pseudoboeckii* 730, 731 (i, n), 735 (i).
 -- *pseudobotrytis* 751 (i, u), 753, 3747.
 -- *pseudobroomei* 430, 735 (i, u), 1390, 1687 (i, u), 2043, 2166, 2712, 3112, 3476, 3497.
 -- *pseudoconnatum* 691, 861 (i), 1687 (i, u), 2043, 3812.
 -- var. *ellipsoideum* 861 (i).
 -- var. *pseudoconnatum* fo. *latior* 3831 (i, u).
 -- *pseudocostatum* 751 (i, n).
 -- *pseudoexiguum* 691, 1891 (i, n), 2074, 2712, 2714 (i, u).
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 -- *pseudonitidulum* 146, 521 (i, u), 2881 (i, u), 2885, 3476.
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 -- var. *rotunda* 3476.
 -- var. *validum* 1799 (u).
 -- *pseudoornatum* 529 (i, n), 1194, 2267, 2631 (i, u), 2714 (i, u), 2727, 3474.
 -- var. *pseudoornatum* 3829 (i, u).
 -- *pseudoprotuberans* 521 (u), 735 (i), 1084 (u), 2077.
 -- var. *alpinum* 729, 751, 1891 (i, u).
 -- var. *angustius* fo. 522 (u), 735.
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 -- *pseudopyramidatum* 146, 325, 430, 438, 735 (i, u), 751 (i), 861 (i), 960 (i, u), 1390, 1687 (i, u), 2043, 2074, 2267, 2631 (i, u), 2715 (u), 2881, 2885, 3158, 3476, 3497, 3591 (i), 3712, 3713, 3812.
 -- var. *carniolicum* 2203 (i).
 -- var. *oculatum* 3591 (i, u).
 -- fo. *minor* 735 (i, u).
 -- var. *pseudopyramidatum* 3829 (i, u).
 -- fo. *raciborskii* 735 (i, n).
 -- subsp. *stenonotum* 519, 522 (u), 735 (i, u).
 -- var. *stenonotum* 691.
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 -- var. *subtumidum* 521 (u), 729, 1895 (i, n).
 -- *pseudospeciosum* fo. *latior* 751 (i, u).
 -- *pseudostenonotum* 529 (i, n).
 -- *pseudotaxichondrum* 2077.
 -- *pulcherrimum* 735 (i).
 -- var. *truncatum* 720 (i, u).
 -- *punctulatum* 146, 323, 324, 325, 438, 519 (u), 654, 655, 691, 734, 735 (i), 800, 854 (i, u), 861 (i), 898, 960 (u), 1084 (u), 1217, 1364, 1687 (i, u), 2073, 2074, 2123, 2166, 2184, 2267, 2321, 2631 (i, u), 2644 (u), 2646 (u), 2718, 2722, 2727, 2856, 2859, 2881 (i, u),

- 2885, 3136, 3158, 3474, 3476, 3477, 3497, 3591 (i), 3712, 3812.
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- fo. *granulata* 146, 2885 (i, n).
- var. *granulosculum* 2321.
- var. *mesoleium* 729, 751, 1895 (i, u).
- fo. *minor* 146, 2885 (i, n).
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- var. *perforatum* 522 (u), 529 (i, n).
- fo. *rectangularis* 146, 2885 (i, n).
- var. *rotundatum* 1088 (i), 2644 (u).
- var. *seriatum* 3379.
- var. *subpunctulatum* 146, 691, 2166, 2315, 2321, 2722, 2856, 2859, 2885, 3476, 3591 (i), 3474.
- fo. *irregularis* 146, 2885 (i, n).
- fo. *trapeziformis* 146, 2885 (i, n).
- fo. 146, 2881 (i, u).
- var. *typicum* 1088 (i).
- *pusillum* 146, 519 (u), 1084 (u), 1889, 2074, 2123, 2885 (i, u).
- var. *retusum* fo. *intermedia* 2102 (i).
- *pygmaeum* 146, 430, 519, 521 (u), 691, 861 (i), 1084 (i, u), 1455, 2197, 2712, 2714 (u), 2719 (u), 2885 (i, u), 2902 (u), 2903, 3474, 3476, 3497, 3591 (i), 3595.
- var. *heimerlii* 3474, 3476.
- var. *perornatum* 1457 (i, u).
- *pyramidatum* 430, 438, 519 (u), 655, 691 (i, u), 713, 735 (i), 736, 751 (i), 799, 800, 861 (i), 1084 (i, u), 1217, 1382, 1893, 2043, 2297, 2632 (i, u), 2634 (i, u), 2644 (u), 2646 (u), 2651, 2714 (u), 2902 (u), 2903, 3474, 3476, 3477 (i), 3497, 3591.
- var. *convexum* 3474, 3476.
- var. *pseudocucumis* 1088 (i).
- var. *pyramidatum* 3829 (i, u).
- var. *stenonotum* 521 (i), 1088 (i), 3755.
- var. *subgranatum* 1088 (i).
- var. *typicum* 729, 1088 (i).
- *quadrangulatum* 126, 2264.
- *quadratum* 691, 3476, 3829 (i, u).
- var. *boldtii* 3474, 3476.
- fo. *minor* 146, 2885 (i, n).
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- *quadratum* 519 (i, u), 691 (u), 800, 960 (u), 1206, 1390, 1687 (i, u), 2072, 2080, 2123, 2203 (i), 2631 (i, u), 2718, 2902 (u), 3474, 3476, 3477, 3497, 3591 (i), 3812.
- fo. *cylindrica* 522 (i, n).
- var. *genuinum* 1084.
- var. *maius* 1084 (u), 2714 (i, u).
- var. *minus* 3476.
- var. *quadratum* 3829 (i, u).
- var. *willei* 1818, 2651.
- *quadrum* 137, 179, 185, 191, 519, 521 (u), 655, 691, 736, 861 (i), 1232, 1236, 2166, 2651, 3712, 3812.
- var. *minus* 320, 736, 2631 (i, u), 2714 (i, u), 3474.
- *quasillus* 146, 519 (u), 1893, 2184, 2881 (i, u), 2885.
- fo. *tricrenatum* 729, 1893.
- *quinarium* 519, 549, 691, 1893, 2043, 2311.
- *raciborskianum* 729, 735.
- *raciborskii* 519 (u), 729, 735 (i, u), 1206 (i, u).
- *ralfsii* 691, 1818, 1889, 1893, 2074, 2080, 2123, 2714 (u), 2722.
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- d. *angulosum* 1891 (i, n).
- c. *montanum* 1891 (i, n), 2714 (u).
- var. *montanum* 691, 1390, 2080.
- var. *ralfsii* 3829 (i, u).
- var. *sudetica* 1818.
- a. *typicum* 1088 (i), 1890 (n).
- *rectangulare* 112, 146, 521 (i, u), 655, 656, 730, 735, 1206, 1243, 1687 (i, u), 2043, 2074, 2077, 2657 (u), 2881 (i), 2885, 3476, 3477, 3497, 3591 (i), 3713.
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- var. *saxonicum* 3812.
- *regnellii* 146, 691, 735 (i), 746, 751 (i, u), 753, 2631 (i, u), 2634 (i, u), 2881 (u), 2885, 3476, 3569, 3591 (i), 3712.
- fo. *maior* 522 (u).
- var. *minimum* 146, 529 (i, n), 1685, 1687 (i, u), 2881 (i, u), 2885, 3591, 3812.
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- var. *pseudoregnellii* 1687, 3328, 3812, 3829 (i, u).
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- *regnesii* 519, 861 (i), 2184, 2580.
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- var. *rostocense* 146, 2885 (i, n).
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- *retusum* 691, 729, 1889, 3755.
- *rostafinskii* 731, 735.
- fo. *minor* 730, 731 (i, u), 735 (i).
- *rostocense* 146, 2885 (i, n).
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- *scenedesmus* var. *dorsitruncatum* 735 (i, u).
- var. *intermedium* 2077.
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- *schroederi* 146, 691 (i, n), 2885 (i, u).
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- *sniatyniense* var. *sydneyensis* 521 (u).
- *speciosissimum* 691, 736, 751 (i, u).
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- var. *galiciense* 735 (i).
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- *subbroomei* 146, 2077.
- fo. 2881 (i, u), 2885.
- var. *retusum* 529 (i, n).
- *subcostatum* 572, 691, 729, 734 (u), 735 (i), 1893, 2183, 2857, 3379.
- fo. *minus* 3712, 3713.
- *subcrenatum* 131, 146, 179, 185, 188, 191, 204, 519 (u), 521 (u), 731, 751, 861 (i), 1044, 1046, 1048, 1051, 1056, 1205, 1232, 1236, 1237, 1241, 1243, 1300, 1304, 1305, 1390, 1614, 1818, 2043, 2074, 2166, 2383, 2712, 2722 (i, u), 2881 (i, u), 2885, 3137, 3250 (u), 3346 (u), 3379, 3445, 3474, 3476, 3477, 3497, 3569, 3591 (i), 3712, 3812, 3922.
- fo. *bifaria* 751 (i, n).
- var. *divaricatum* 2859.
- a. *genuinum* 1893.
- var. *galiciense* 730, 731 (i, n), 735 (i).
- fo. *minor* 2885 (i, n), 3379.
- var. *subdivaricatum* 717 (i, u).
- *subcucumis* 691, 735 (i, u), 861 (i), 1044, 1051, 1687 (i, u), 2714 (u), 2722.
- *subeductum* 730, 731 (i, u), 735 (i).
- *subglobosum* 746.

- *subgrantii* 691 (i, n).
 – *subgrantiiforme* 691 (i, n).
 – *subholmiense* 730, 731 (i, n), 735 (i).
 – *subimpressulum* 146, 2881 (i, u), 2885.
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 – *sublobatum* 729, 753, 1084 (u), 2074, 2100.
 – var. *minutum* 729, 2080.
 – fo. *elliptica* 521 (i, u).
 – *sublobulatum* 751 (i, n).
 – *subnasutum* 729, 1891 (i, n), 1897.
 – *subnotabile* 736.
 – *subochthodes* 691, 2080 (i).
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 – fo. *mediolaensis* 2881 (n), 2885.
 – *subpunctulatum* 735 (i), 751 (i), 753, 1382, 2077.
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 – *subpyramidatum* 691.
 – *subquadratum* 691 (u), 3477.
 – *subquasillus* 729.
 – *subrectangulare* 691, 731 (i), 2077, 3476.
 – var. *ornatissimum* 730, 731 (i, n), 735 (i).
 – *subreinschii* 146, 2644 (u), 2881 (u), 2885, 3474.
 – var. *latum* 146, 2881 (i, u), 2885.
 – fo. 146, 2881 (u), 2885.
 – *subreniforme* 519, 729, 2043.
 – *subscrobiculatum* 146, 2885 (i, n).
 – *subspeciosum* 691, 751, 2074, 2722 (i, u), 2727.
 – var. *asymmetricum* 146, 2881 (i, n), 2885.
 – var. *gracile* 146, 2885 (i, n).
 – var. *rostocense* 146, 2881 (n), 2885.
 – fo. *mediolaensis* 146, 2881 (i, n), 2885.
 – fo. *rotundata* 146, 2881 (i, n), 2885.
 – var. cf. *rostocense* 2881 (i), 2885.
 – var. *scharschmidtiana* 1122.
 – fo. *tatica* 751 (i, n).
 – var. *transiens* 2722 (i, u).
 – var. *validius* 1685.
 – *subtholiferum* 2651.
 – *subtholiforme* 1891 (i, n).
 – *subtranensis* 1685.
 – *subtriordinatum* 1685, 3379.
 – *subtumidum* 137, 146, 179, 185, 191, 325, 691, 1231, 1232, 1236, 1237, 1243, 1244, 1818, 2043, 2074, 2166, 2631 (i, u), 2632 (i, u), 2634 (i, u), 2714 (u), 2727, 2802 (i), 2859, 2881 (i, u), 2885, 3158.
 – var. *klebsii* 146, 2881 (i, u), 2885.
 – fo. *minor* 146, 2885 (i, n).
 – var. *rostocense* 146, 2881 (i, n), 2885.
 – var. *subtumidum* 3829 (i, u).
 – fo. *tumida* 146, 2885 (i, n).
 – *subundulatum* 146, 2881 (i, u), 3476.
 – var. *subcrenatum* 691 (i, u).
 – fo. 2885.
 – *succisum* var. *hians* 691.
 – *szaferi* 146, 2885 (i, n), 3551.
 – *tatricum* 729, 751, 1891 (i, n), 1897.
 – *taxichondriforme* 529 (i, n), 861 (i).
 – var. *depressum* 529 (i, n).
 – *taxichondrum* 691.
 – var. *decaclondrum* 519 (u).
 – var. *haynaldii* 735 (i), 2080.
 – b. *lithuanicum* 522 (u).
 – *teliferum* 3476.
 – *tenue* 110, 112, 114, 126, 691, 1048, 2184, 2264, 2634 (i, u), 3158.
 – fo. *minima* 146, 2885 (i, n).
 – fo. *punctulata* 730, 731 (i, u), 735 (i).
 – *tetrachondrum* 735 (i, u).
 – fo. *compressa* 521 (i, u).
 – var. *lundellii* 691.
 – fo. *verrucosa* 522 (i, n).
 – *tetragonum* 519 (u), 735 (i), 746.
 – fo. *bipapillata* 522 (i, n).
 – var. *davidsonii* 2722 (i, u).
 – var. *heterocrenatum* fo. 2722 (i, u).
 – b. *intermedium* fo. *polonica* 529 (i, n).
 – var. *lundellii* 746.
 – fo. *schmidlei* 735 (i, u), 746.
 – fo. *tatica* 751, 1895 (i, u).
 – var. *subintermedium* 735 (i, u).
 – fo. *tatica* 1895 (i, u).
 – *tetraophthalmum* 118, 137, 146, 179, 185, 188, 374, 438, 617, 655, 656, 691, 735, 736,

- 746, 751, 753, 861 (i), 1088, 1217, 1231, 1232, 1236, 1237, 1382, 1685, 2072, 2077, 2166, 2509, 2651, 2712, 2727, 2857, 2859, 2881 (i, u), 2885, 3359, 3474, 3476, 3569, 3572, 3591 (i), 3812.
- Cosmariium tetraophthalmum* var. *lundellii* 735.
- fo. *minor* 729, 735 (i).
 - var. *pyramidatum* 146, 2881 (i, u), 2885.
 - var. *rotundatum* 146, 2881 (i, n), 2885.
 - var. *scrobiculatum* 146, 2881 (i), 2885.
 - fo. *minor* 2885.
 - var. *tetraophthalmum* 3829 (i, u).
 - fo. *minor* 729, 735.
 - *thwaitesii* 519 (u), 751, 1895 (u).
 - var. *incrassatum* fo. *tatrica* 751.
 - var. *penioides* 521 (u), 751, 1088 (i).
 - var. *rotundatum* 1088 (i).
 - *tinctum* 519 (u), 617, 691, 729, 735, 751, 800, 952 (u), 957, 960, 1084 (u), 1893, 2074, 2080, 2634 (i, u), 2712, 3474, 3476, 3477.
 - fo. *intermedia* 1206.
 - var. *intermedium* 3476.
 - fo. *major* 735 (i).
 - cf. fo. *major* 731 (i, u).
 - var. *subretusum* 3476.
 - var. *tinctum* 3829 (i, u).
 - *tirolense* 751 (i, u).
 - *tithophorum* 2676.
 - var. *dissimile* 735.
 - fo. *intermedia* 529 (i, n).
 - var. *majus* 691 (i, u).
 - var. *minor* 1895 (i, u).
 - *trachypleurum* 735 (u), 1084 (i), 2651.
 - var. *distichiforme* 735 (u).
 - b. *ellipticum* 521 (u).
 - var. *ellipticum* 735 (i, u).
 - var. *minus* 519 (u), 1891 (i, u).
 - var. *stellatum* 1895 (i, u).
 - var. *verrucosum* 1084 (u).
 - *transiens* 751 (u).
 - fo. *major* 751 (i, n).
 - *transitorium* fo. *minor* 146, 2885 (i, n).
 - *tricrenatum* 735 (u), 736, 751 (i, u).
 - *trilobatum* 1304, 3476.
 - var. *bioculatum* 3477.
 - var. *depressum* 3477.
 - *trilobulatum* 521 (u), 735 (i), 2651 (u).
 - var. *basichondrum* fo. 691 (i).
 - fo. *elongatum* 717 (i, u), 729.
 - var. *excavatum* 529 (i, n), 751 (i, u).
 - fo. *major* 731.
 - fo. *retusa* 146, 2885 (i).
 - var. *scrobiculatum* 1685.
 - *trilobum* 2166.
 - *triotatum* 529 (i, n).
 - *triplicatum* 519 (u).
 - *tropicum* 1897.
 - *truncatellum* 146, 729, 751, 1382, 1891 (u), 2885 (u).
 - *tubiferum* 1382.
 - *tumidum* 188, 430, 519 (u), 1084, 1390, 2166.
 - fo. *minor* 521 (u), 530, 531 (i, u).
 - var. *minus* 3468.
 - var. *subtile* 1084 (u), 2074.
 - *turgidum* 519 (u), 691, 1217, 1891 (i, u), 2712.
 - *turneri* 146.
 - *turpinii* 112, 118, 131, 137, 146, 152, 179, 185, 191, 258, 321, 438, 519 (u), 691, 813, 960 (u), 1194 (i, u), 1232, 1236, 1237, 1243, 1300, 1344, 2077, 2166, 2264, 2267, 2311, 2320, 2383, 2509, 2584, 2597, 2631 (i, u), 2881 (u), 2885, 3137, 3286, 3445, 3474, 3476, 3497, 3591 (i).
 - var. *elongata* 729, 1891 (i, u).
 - var. *gostyniense* 1892 (i, u).
 - var. *intermedium* 146.
 - fo. 2581 (i), 2585.
 - var. *jelskii* fo. 146, 2881 (i, u), 2885 (i, u).
 - b. *lundellii* 521 (u), 713, 729, 735, 746, 1893.
 - var. *podolicum* 146, 960 (i, u), 968 (u), 2856 (i), 2859 (i), 2881 (i), 2885, 2906, 3445.
 - var. *trapezicum* 146, 2885 (i, n).
 - var. *turneri* 146, 735, 2881 (i), 2885.
 - fo. *rostocensis* 146, 2885 (i, n).
 - var. *typicum* 735.
 - *undulatum* 137, 325, 476, 549, 691, 799, 1084 (u), 1231, 1236, 1237, 1243, 1244, 1304, 1614, 2166, 2267, 3158, 3445, 3476.
 - var. *crenulatum* 146, 3476.
 - fo. *minor* 146, 2267, 2631 (i, u), 2881 (i, u), 2885.
 - var. *minutum* 112, 311, 2712, 2722, 3476, 3812.
 - *ungerianum* 2077.

- var. *subtriplicatum* 861 (i).
 -- *vanum* 730, 731 (i, n), 735 (i).
 -- *variolatum* 146, 519 (u), 735 (i), 2881 (i), 2885, 3476.
 -- var. *caharactarum* 146, 729, 2881 (i), 2885.
 -- var. *caharactum* 521, 751, 1895 (i, u).
 -- fo. *compressum* 2881.
 -- var. *rotundatum* 146, 2881 (i), 2885.
 -- *varsoviense* 1895 (i, u).
 -- *venustum* 146, 519 (u), 603, 691, 729, 1084 (u), 1217, 1685 (i, u), 2074, 2123, 2297, 2714 (u), 2718, 2722, 3476, 3477, 3497.
 -- var. *excavatum* 730, 731, 751.
 --- fo. *maior* 731 (i, n), 735 (i).
 -- var. *laticeps* 691.
 -- fo. *maior* 735.
 -- fo. *minor* 146, 2715 (i, u), 2881 (u), 2885.
 -- var. *minor* 758 (i, u).
 -- fo. *minuta* 146, 2881 (i, n), 2885.
 -- fo. *ocellata* 2885.
 -- var. *turneri* 204.
 -- fo. 2885.
 -- *vexatum* 146, 1044, 1045, 1084, 2184, 2631, 2718 (i), 2722, 2881 (i), 2885, 3476, 3591 (i, u).
 -- fo. *medio-ornata* 146, 2881 (i), 2885.
 -- fo. 146, 2885 (i, u).
 -- *willeanum* fo. *intermedia* 529 (i, n).
 -- *wittrockii* 519 (u), 1084 (u), 1205, 2077.
 -- *yexatum* 3569.
 -- *zonatum* 519, 522 (i, u).
 -- sp. 54, 112, 126, 131, 137, 179, 183, 185, 188, 191, 200, 204, 268, 311, 313, 320, 321, 322, 475, 476, 578, 655, 691 (i, u), 758, 996, 1043, 1044, 1048, 1056, 1105, 1114, 1231, 1232, 1236, 1237, 1241, 1243, 1244, 1248, 1300, 1390, 1305, 1306, 1364, 1412, 1614, 1685, 1687 (i, u), 1697, 1791, 1798 (u), 1799, 1821, 1931, 1932, 2166, 2181, 2184, 2254, 2307, 2322, 2426, 2504 (i), 2564, 2580, 2581, 2586, 2618, 2641, 2864, 2881 (i, u), 2885 (i, u), 3112, 3135, 3160, 3250, 3286, 3302, 3445, 3468, 3474 (u), 3595, 3476, 3653, 3746, 3747, 3812, 3829 (i, u), 3922.
- Cosmoastrum alternans* 3476.
 -- var. *alternans* 3829 (i, u).
 -- *brebissonii* var. *brebissonii* 3829 (i, u).
- *dispar* 3476.
 -- *gladiosum* 3476.
 -- var. *delicatum* 3476.
 -- var. *gladiosum* 3829 (i, u).
 -- *hirsutum* 3476.
 -- var. *hirsutum* 3829 (i, u).
 -- *hystrix* var. *pannonicum* 3829 (i, u).
 -- *lapponicum* var. *lapponicum* 3829 (i, u).
 -- *muricatiforme* var. *muricatiforme* 3829 (i, u).
 -- *muricatum* var. *muricatum* 3829 (i).
 -- *muticum* 3476.
 -- var. *muticum* 3829 (i, u).
 -- *orbiculare* 3476.
 -- var. *depressum* 3829 (i, u).
 -- var. *ralfsii* 3476.
 -- *polytrichum* 3476.
 -- *punctulatum* 3476.
 -- var. *kjellmanii* 3476, 3829 (i, u).
 -- var. *punctulatum* 3829 (i, u).
 -- var. *subpunctulatum* 3476.
 -- *scabrum* 3476.
 -- var. *scabrum* 3829 (i, u).
 -- var. *setigerum* 3829 (i, u).
 -- *suborbiculare* 3476.
 -- *teliferum* var. *pecten* 3829 (i, u).
 -- var. *teliferum* 3829 (i, u).
 -- *turgescens* 3476.
 -- var. *sparsigranulatum* 3829 (i, u).
 -- *wellicticum* var. *wellicticum* 3829 (i, u).
- Cosmocladium pulchellum* 1084, 1889.
 -- *pusillum* 22, 800, 1084, 1889.
 -- *saxonicum* 617, 2069, 2087 (i), 2644, 2824.
- Cylindrocystis americana* 720.
 -- *brebissonii* 430, 521 (i, u), 655, 656, 691, 698, 729, 735, 736, 751, 861 (i), 960 (u), 968 (u), 1048, 1217, 1340, 1456, 1687 (i, u), 1818, 1893, 2043, 2074, 2080, 2102, 2267, 2415, 2555, 2632 (i, u), 2634 (i, u), 2651, 2714 (u), 2719, 2722, 2903, 2904 (u), 2928, 2929, 3117, 3474, 3476, 3477, 3497, 3591, 3712, 3713, 3812, 3829 (i, u).
 -- fo. *curvata* 1687 (i, u).
 -- var. *curvata* 698.
 -- var. *jenneri* 729, 735, 751, 952 (u), 2074, 3477.
 --- fo. *minor* 751 (i).

- Cylindrocystis brebissonii* fo. *minor* 1687 (u).
 -- var. *minor* 698, 1124, 3713.
 -- var. *turgida* 2074, 2080, 2102 (i).
 --- fo. *maior* 42.
 -- *crassa* 655, 691, 2632 (i, u), 2634 (i, u), 2902 (u), 2904.
 -- var. *crassa* 3829 (i, u).
 -- *diplospora* 520 (u).
 -- *jenneri* 2080.
 -- *polonica* 528, 529 (i, n).
 -- *tatrica* 751, 1891 (i, n), 2074.
 -- *turgida* 1818.
- Desmidium aptogonum* 146, 325, 519 (i, u), 691, 729, 735, 1084 (u), 1217, 1613, 1890, 1893 (u), 2077, 2166, 2583, 2714 (i, u), 2881, 2885, 3158, 3445.
 -- var. *ehrenbergii* 519.
 -- *baileyi* 735, 2166.
 -- *caelatum* 1084 (u).
 -- *coarctatum* 691 (i, u).
 -- *cylindricum* 118, 188, 519, 729, 735, 1084 (u), 1893, 1918, 2203, 2632 (i, u), 2714 (i, u), 2935, 3474, 3476.
 -- var. *cylindricum* 3829 (i, u).
 -- var. *tridentulum* 729.
 -- *graciliceps* 519 (i, u).
 -- *grevillei* 691, 2644.
 -- *margaritaceum* 3445.
 -- *quadrangulare* var. *acutilobum* 729, 1891 (i, u).
 -- var. *obtusilobum* 1891.
 -- *quadrangulatum* 522 (u), 655, 2297.
 -- var. *acutilobum* 1891 (i, u).
 --- fo. *protractum* 2077 (i, n).
 -- var. *obtusilobum* 1891 (i).
 -- *quadrangulum* 1217.
 -- *quadratum* 519 (u), 729, 2043.
 -- *swartzii* 146, 325, 519 (u), 691, 729, 735, 746, 799, 800, 861 (i), 952 (u), 960 (u), 1084 (u), 1217, 1236, 1237, 1241, 1343, 1613, 1614, 1893, 2043, 2077, 2166, 2203, 2257 (i, u), 2581, 2584, 2646 (u), 2651, 2657 (u), 2712, 2714 (u), 2802 (i), 2881, 2885, 2902 (u), 2903, 2935, 3158, 3474, 3476, 3477 (i).
 -- fo. *punctata* 522 (i).
 -- var. *quadrangulare* 691, 2166.
 -- var. *swartzii* 3829 (i, u).
 -- *tetragonum* 735.
 -- sp. 183, 185, 188, 325, 1231, 1232, 1243, 2166, 2580, 3302, 3445.
- Didymidium pseudofurcigerum* 1891.
- Didymoprium borrieri* 1890.
 -- *grevillei* 861 (i), 1084, 1893, 1990, 2072.
 -- *quadratum* 1891 (u).
- Docidium baculum* 118, 519 (u), 691, 729, 735, 861 (i), 1084, 1217, 1687 (i, u), 1893, 2043, 2297, 2928, 2929, 2935, 2937.
 -- *breve* var. *arcticum* 730, 731 (i).
 --- fo. 731 (i), 735 (i).
 -- *cruciferum* fo. 735.
 -- *curtum* 735.
 -- *dilatatum* 1084 (u).
 -- *minutum* 800, 2509.
 -- *nobile* 519 (i, u).
 -- *nodulosum* 729.
 -- *tridentulum* 531.
 -- *undulatum* 1687 (i, u), 2043 (u), 3591 (i).
 -- sp. 188.
- Dysphinctium anceps* 730, 731, 735, 751 (u), 2077, 2644 (u), 2646 (u).
 -- fo. *angusta* 730, 731 (i, u), 735 (i).
 -- fo. *crispula* 730, 731 (i, u), 735 (i), 746.
 -- fo. *glabra* 730, 731 (i, u), 735 (i).
 -- var. *minimum* 729, 746, 751 (u), 2080.
 -- fo. *punctata* 730, 731 (i, u), 735 (i).
 -- fo. *pusillum* 729, 751.
 -- fo. *tatrensis* 751 (i, n), 753.
 -- *annulatum* 729, 735 (i, u), 2074, 2077, 2088.
 -- *connatum* 729, 735 (u), 2077.
 -- *cruciferum* 730, 731.
 -- var. *pluriradiante* 731 (i, u).
 -- var. *tatricum* 751 (i, n).
 -- fo. 731 (i, u).
 -- *cucurbita* 731, 735, 751, 2077, 2102.
 -- var. *attenuatum* 2080.
 -- var. *inflatum* 751 (n).
 -- *curtum* 751, 2074.
 -- g. *exiguum* 2073.
 -- fo. *minor* 2074.
 -- var. *regelianum* 751 (u).
 -- *cylindrus* 735 (i, u), 751.
 -- var. *attenuatum* 729.
 -- var. *silesiacus* 2074.

- var. *typicum* 729.
 – *globosum* 2074.
 – *notabile* 731, 735.
 -- fo. *medium* 729.
 -- fo. *minus* 729, 736.
 – *palangula* 729, 751, 2074, 2102 (i), 2928, 2929.
 -- var. *debaryi* 2073, 2080.
 – *parvulum* var. *undulatum* 2080.
 – *quadratum* 729, 735 (u), 736, 746, 751, 2074, 2077, 2644 (u), 2646 (u).
 -- fo. *borgei* 736.
 -- var. *punctulatum* 2074 (n).
 – *ralfsii* 729, 735, 2074.
 -- fo. *hexagonum* 729.
 -- fo. 751 (u).
 – *rehmanii* 751 (i, n).
 – *sinuosum* fo. *basiornata* 751 (i, n).
 -- var. *carpaticum* 729, 751 (u).
 -- var. *decedens* 751 (u).
 – *speciosum* 729, 735, 746, 751 (u), 753.
 -- var. *rectangulare* 751 (u), 753.
 – *thwaitesii* 729, 735, 746, 751, 2644 (u).
 -- var. *incrassatum* fo. *tatrica* 751 (i, n).
 -- var. *penoides* 751.
 – *zonatum* 735.
 – sp. 729.
- Euastrum affine* 691, 861 (i), 952, 960 (u), 1382, 1687 (i,u), 2043, 2581, 2632 (i,u), 2634 (i,u), 2714 (i,u).
 -- var. *affine* 3829 (i, u).
 -- fo. 2043 (i, u).
 – *amoenum* 751, 753, 1893 (u), 2077.
 – *ampullaceum* 430, 861 (i), 1084 (u), 2646 (u), 2714 (i, u), 2719, 2902, 2903.
 -- fo. *ampullaceum* 3408 (i).
 -- var. *ampullaceum* 3829 (i, u).
 -- fo. *triquetrum* 3408 (i, n).
 – *angustatum* 521.
 – *ansatum* 146, 188, 430, 519 (i, u), 617, 655, 691, 717, 729, 735 (i), 746, 751 (i), 800, 861 (i), 952 (u), 960 (i, u), 987, 1004, 1084 (u), 1190, 1217, 1340, 1687 (u), 1892, 1893 (u), 2072, 2080, 2632 (u), 2634 (i, u), 2644, 2651, 2712, 2714 (i, u), 3445, 3474, 3476, 3477, 3591, 3829 (i, u).
 -- var. *ansatum* 3829.
- var. *dideltiforme* 960 (i, u), 2714 (i, u), 3477.
 -- var. *emarginatum* 1382.
 -- var. *pyxidatum* 521 (u), 2043, 2902 (u), 2903.
 -- var. *rhomboidale* 1687 (i, u).
 -- var. *robustum* 2203.
 -- var. *sublobatum* 735 (i, u).
 -- var. *triocellatum* 529 (i, n).
 – *bidentatum* 118, 137, 146, 179, 258, 691, 861 (i), 952 (u), 960 (u), 1045, 1048, 1236, 1390, 1687 (i, u), 1818, 2043, 2166, 2203 (i), 2470 (u), 2646 (u), 2714 (u), 2824, 2881 (i), 2885, 2902 (u), 2903, 3474, 3476, 3477 (i), 3497.
 -- fo. *minus* 691, 1390.
 -- var. *speciosum* 2714 (i, u), 3829 (i, u).
 – *binale* 146, 325, 430, 519 (u), 617, 655, 691, 729, 735 (i), 746, 751 (i), 753, 800, 861 (i), 895, 952 (u), 960, 1084, 1190, 1382, 1456, 1687 (u), 1892, 1893 (u), 2043, 2074, 2077, 2080, 2123, 2321, 2632 (i, u), 2634 (i, u), 2644 (u), 2651, 2712, 2714, 2881, 2885, 2902 (u), 2903, 2928, 2929, 3474, 3476, 3477, 3497, 3591.
 -- var. *angustatum* 751, 753, 2903, 2928, 2929.
 -- var. *binale* fo. *binale* 3829 (i, u).
 --- fo. *gutwinskii* 3829 (i, u).
 -- var. *corniculatum* 1818.
 -- b. *denticulatum* 519, 1084 (u).
 -- var. *elobatum* 3477.
 -- var. *granulatum* 2074.
 -- var. *gronbladii* 141, 2881 (i, u), 2885.
 -- fo. *gutwinskii* 691, 2321, 3474.
 -- var. *gutwinskii* 118, 430, 1456, 2634 (i, u), 2714 (u), 2719, 3476, 3477.
 -- fo. *hians* 861, 2657 (u).
 -- var. *hians* 146, 2881 (i), 2885, 3476, 3477.
 -- var. *insulare* 731, 735 (i), 2102 (i).
 --- fo. *gutwinskii* 735 (i).
 --- fo. *minor* 730, 731 (i, u), 735 (i).
 -- fo. *irregularis* 146, 2881 (i), 2885.
 -- fo. *minus* 3474, 3591 (i, u).
 -- var. *minus* 3476, 3477.
 -- var. *obtusiusculum* 3476, 3477.
 -- var. *papilliferum* 751 (i, n).
 -- fo. *sectum* 691 (i, u), 861, 1390, 1687 (i, u), 2657 (u), 3474, 3477, 3497, 3591 (i).
 -- var. *sectum* 3476.

- Euastrum binale* var. *sublobatum* 1818.
 -- var. *typicum* 717 (u), 1084.
 -- fo. 691 (i, u), 731 (i, u).
 -- *bipapillatum* 430.
 -- fo. *biscrobiculata* 146, 2881 (i, n), 2885.
 -- fo. *uniscrobiculata* 146, 2881 (i, n), 2885.
 -- *borgei* 2080.
 -- *bryophitum* 2657 (i, u).
 -- *circulare* 374, 729, 751, 1084 (u).
 -- *crassangulatum* 3476, 3477.
 -- *crassicole* 751 (i, u).
 -- var. *dentiferum* 735 (u), 751 (u).
 -- var. *minus* 729, 751, 1891 (i, u).
 -- *crassum* 118, 325, 521 (u), 691, 729, 861 (i), 1084 (u), 1217, 1382, 1687 (i, u), 2043, 3158.
 -- fo. *scrobiculatum* 691, 3591 (i, u).
 -- var. *scrobiculatum* 1390, 1895.
 -- fo. 1894 (i, u).
 -- *crenatum* 731, 1895.
 -- *crispulum* 146, 3476, 3477.
 -- *cuneatum* 519 (i, u), 729, 960 (i, u), 1084 (u), 3476.
 -- *denticulatum* 691, 729, 735, 861 (i), 1236, 1340, 1687 (i, u), 2074, 2081, 2166, 2632 (i, u), 2651 (i), 2714 (u), 2824, 3445, 3474, 3476, 3477, 3497.
 -- var. *angusticeps* 2043, 2203 (i), 3474.
 -- var. *denticulatum* 3829 (i, u).
 -- *didelta* 430, 519 (u), 617, 691, 717, 729, 735 (i), 751 (i), 799, 800, 861 (i), 952 (u), 960 (u), 1084 (u), 1217, 1382, 1687 (i, u), 1818, 2043, 2123, 2297, 2581, 2692, 2714 (i, u), 2902, 2928, 2929, 3474, 3476, 3477, 3497.
 -- fo. *scrobiculata* 751.
 -- var. *cuneatiformae* 3477.
 -- var. *scrobiculata* 2080.
 -- var. *tatricum* 729, 751 (i), 1891 (i, u), 1893 (u), 2074.
 -- *dideltoides* 751 (u).
 -- *dissimile* 3476.
 -- *divaricatum* 522 (u), 861 (i), 1382.
 -- fo. *inermis* 529 (i, n).
 -- fo. *miedzyrzecensis* 529 (i, n).
 -- var. *montanum* 729, 751, 1891 (i, u).
 -- *dubium* 137, 179, 185, 691 (i, u), 861 (i), 1206, 1243, 1390, 1800 (u), 2166, 2184, 2644 (u), 2651 (u), 3474, 3476, 3477, 3485, 3591 (i).
 -- var. *dubium* 3755.
 -- var. *ornatum* 3755.
 -- var. *tritum* 3474.
 -- var. 2856, 2859.
 -- *elegans* 161, 179, 325, 519, 617, 691 (i, u), 713, 729, 730, 735 (i), 751 (i), 800, 861 (i), 960 (u), 1084, 1217, 1340, 1743, 1893, 2074, 2077, 2123, 2166, 2203 (i), 2297, 2581, 2632 (i, u), 2634 (i, u), 2644 (u), 2712, 2714 (u), 2902 (u), 2903 (i), 2924, 2928, 2929, 3158, 3445, 3474, 3476.
 -- var. *bidentatum* 2080.
 -- var. *elegans* 3829 (i, u).
 -- d. *inermis* 713, 1084.
 -- var. *inermis* 1084 (u), 2644, 2646 (i, u).
 -- b. *medianum* 1206.
 -- var. *novae-semiliae* 2651 (i, u).
 -- var. *pseudoelegans* 3474, 3476.
 -- b. *rostratum* 1084.
 -- var. *rostratum* 1084.
 -- var. *speciosum* 2080.
 -- c. *spinosum* 1084.
 -- var. *spinosum* 1084.
 -- var. *spinulosum* 2644 (u), 2646 (u).
 -- var. *subspeciosum* 529 (i, n).
 -- a. *typicum* 1084.
 -- var. *typicum* 1084.
 -- *elobatum* 521 (u), 3476.
 -- var. *rostocense* 146, 2885 (i, n).
 -- *erosum* 731 (i), 735 (i), 746, 2074, 3476.
 -- var. *notabile* 730, 731 (i), 735, 751 (i).
 --- fo. *intermedia* 751 (i, n).
 --- fo. *ornata* 730, 731 (i, n), 735 (i).
 --- fo. *simplicior* 730, 731 (i, u), 735 (i).
 -- *formosum* 519.
 -- *gayanum* 691 (u), 2203 (i), 2634 (i, u), 2714 (i, u).
 -- var. *fennicum* 3445.
 -- var. *gayanum* 3829 (i, u).
 -- *gemmatum* 430, 691, 729, 1084 (u), 1390, 1402 (u), 2100, 2714 (i, u), 2824.
 -- var. *groenbladii* 430.
 -- var. *monocylum* 729.
 -- var. *retusifforme* 729, 1891 (i), 1893.
 -- fo. 691.

- *germanicum* 137, 146, 179, 185, 1231, 1236, 1614, 2166, 2881, 2885.
 – var. *bulnheimii* 146, 960 (i, u), 2881 (i, u), 2885.
 – *gracile* 146.
 – *humerosum* 430, 519, 691, 729, 751 (i), 861 (i), 1217, 1687 (i, u), 2646 (u), 2902 (u), 2903.
 – var. *intermedium* 729, 1891 (i, u).
 – fo. *monstrosa* 522 (i, u).
 – var. *subintermedium* 2080 (i, n), 2102.
 – fo. *triquetra* 2080 (i, n).
 – *inermis* 713, 729, 1818, 3476, 3477.
 – var. *cracoviense* 729, 1891 (i, n).
 – fo. *hians* 529 (i, n).
 – *insigne* 519 (i, u), 691, 1084 (u), 1687 (i), 1818, 2043, 2102, 2123, 2714 (i, u), 2715 (i, u), 2902 (i, u), 2903.
 – var. *elegans* fo. 2080.
 – var. *insigne* 3829 (i, u).
 – fo. *montanum* 729, 1893 (u).
 – var. *montanum* 751, 1891 (i, u), 1893, 2074.
 – var. *simplex* 729, 751, 1891 (i, n), 2074.
 – *insulare* 137, 146, 179, 691, 1231, 1236, 1237, 1243, 2166, 2321, 2632 (i, u), 2651, 2657, 2712, 2714 (u), 2881 (i), 2885, 3476, 3477.
 – var. *basichondrum* 146, 2881 (i), 2885 (i).
 – var. *insulare* 3829 (i, u).
 – var. *lacustre* 146, 2881 (i), 2885.
 – var. *rostocense* 146, 2881 (i, n), 2885 (i, u).
 – fo. *silesiaca* 691 (i, u).
 – var. *silesiacum* 1685, 2203 (i), 3476, 3829 (i, u).
 – *intermedium* 521, 521 (u), 2043.
 – fo. *monstrosa* 522 (i, u).
 – *lobatum* 549 (i, u).
 – *luetkemuelleri* 3476.
 – *monocyclum* 617.
 – var. *germanicum* 691 (i, u).
 – b. *polonicum* 1891 (i, u).
 – var. *polonicum* 2077.
 – fo. 522 (i, n).
 – *montanum* 691, 751 (i, u), 1044, 2635 (i, u), 3476, 3477.
 – *obesum* 118.
 – *oblongum* 179, 325, 430, 519 (i, u), 617, 655, 691, 713, 729, 735, 746, 751 (i), 753, 799, 800, 861 (i), 952 (u), 960 (i, u), 1004, 1046, 1084 (u), 1217, 1237, 1340, 1893, 2043, 2072, 2080, 2166, 2203, 2297, 2581, 2583, 2644, 2650, 2651, 2712, 2714 (i, u), 2824, 2902 (i, u), 2903, 3474, 3476, 3477.
 – fo. *monstrosa* 521 (i, u).
 – var. *oblongiforme* 729, 735 (i), 751 (i).
 – var. *oblongum* 3829 (i, u).
 – var. *subcylindricum* 729, 1891 (i, u).
 – *papilio* 729, 1891 (i, n).
 – *pectinale* 2903.
 – *pectinatum* 146, 161, 430, 438, 617, 691, 729, 735 (i), 800, 861 (i), 960 (i, u), 1084 (u), 1217, 1382, 1687 (i, u), 1892, 2203, 2297, 2712 (i, u), 2714 (u), 2902 (u), 3474, 3476, 3477.
 – var. *brachylobum* 146, 2881 (i), 2885.
 – fo. *triquetra* 146, 2885.
 – var. *inevolutum* 2651, 3477.
 – var. *rostratum* 146, 2881 (i), 2885.
 – fo. *triquetra* 2881.
 – fo. 2881 (i, u), 2885.
 – *perpusillum* 529 (i, n).
 – var. *depauperatum* 529 (i, n).
 – *pinnatum* 118, 324, 430, 691, 729, 751, 861 (i), 1382, 1687 (u), 1891 (i, u), 2043, 2075, 2321 (i), 3476, 3477, 3591 (i).
 – fo. 1893 (u).
 – *platycerum* 691 (i, u).
 – *pokornyanum* 751.
 – *polare* 751.
 – *pseudoboldtii* 691 (i, u).
 – *pulchellum* 691, 1217, 2297, 2651, 3474, 3476, 3477.
 – var. *retusum* 691, 3474.
 – *pusillum* 800, 1889.
 – *quadriceps* fo. *dideltoides* 751.
 – *retusum* 1889.
 – *rostratum* 617, 729, 735, 751, 753, 861 (i), 960 (u), 1893 (u), 2043, 2728.
 – fo. 522 (u).
 – *rota* 355.
 – *schmidleanum* 529 (i, n).
 – *scitum* 751 (u), 753.
 – *sibiricum* fo. *exsecta* 691.
 – fo. *fennica* 691.
 – *sinuosum* 691, 735 (i), 751 (i), 861 (i), 1217.
 – var. *aboense* 2714 (i, u), 2719.
 – var. *germanicum* 2714 (i, u), 2719.

- Euastrum sinuosum* var. *jenneri* fo. *polonica* 735 (i).
 -- fo. *polonica* 521 (i, u).
 -- *spinulosum* 731 (i), 735 (i), 3445.
 -- subspec. *africanum* 731.
 -- fo. *polonica* 730, 731 (i, u), 735 (i).
 -- fo. 730.
 -- var. *monocyclum* 731, 735.
 -- *subalpinum* var. *crassum* 2038 (i, u).
 -- *sublobatum* 137, 691, 800, 2043, 2166, 2597, 2634 (i, u), 3476, 3477.
 -- var. *dissimile* 698.
 -- var. *kriegeri* 146, 2881 (i), 2885, 3477.
 --- fo. 2881 (i), 2885.
 -- var. *sublobatum* 3829 (i, u).
 -- *tricrenatum* 529 (i, n).
 -- *tuddalense* var. *novae-terrae* 146, 2885 (i, u).
 -- *turneri* 137, 521 (u), 861 (i), 1231, 1236, 1237, 2166, 2651 (u), 3468.
 -- fo. *fennica* 691.
 -- *validum* 118, 691, 1687 (i, u), 3474, 3476, 3497, 3591 (i).
 -- *venustum* 521 (i, u), 2077.
 -- *verrucosum* 161, 191, 323, 325, 519, 549, 617, 691, 713, 730, 734, 735, 744, 799, 800, 861 (i), 960 (n), 1084 (u), 1206, 1217, 1236, 1300, 1406, 2077, 2166, 2297, 2580, 2581, 2584, 2644 (u), 2712, 2714 (u), 2802 (i), 3158, 3474, 3476, 3477 (i), 3591.
 -- var. *alatum* 137, 179, 185, 188 (i), 191, 691, 735, 960 (i, u), 1231, 1236, 1237, 1243, 1303, 2166, 2581, 2584, 2651, 2714 (i, u), 3445.
 -- var. *apiculatum* 735.
 -- c. *coarctatum* 729, 1893 (u).
 --- fo. *polonica* 1891 (i, u).
 -- var. *coarctatum* 691.
 -- fo. *intermedium* 1891 (i, u).
 -- var. *rhomboideum* 3445.
 -- fo. *supernumeraria* 731 (i, u), 735 (i).
 -- var. *typicum* 729.
 -- *vigrense* 2043 (i, n).
 -- sp. 112, 118, 137, 188, 323, 325, 476, 758, 898, 905, 1048, 1114, 1237, 1243, 1304, 1697, 2166, 2181, 2307, 2581, 2885 (i), 3445, 3468.
- Genicularia spirotaenia* 2043.
- Gonatozygon aculeatum* 325, 2166, 2311, 2583.
 -- var. *groenbladii* 1335 (i, n), 3468.
 -- *asperum* 519 (u), 751 (u), 753 (u), 1893.
 -- var. *tatricum* 729, 751.
 -- var. *vulgare* 729, 751.
 -- *brebissonii* 691, 2072, 2203 (i), 2470 (u), 2581, 3476, 3477, 3591 (i), 3812, 3829.
 -- var. *anglicum* 2077 (n).
 -- var. *brebissonii* 3829 (i, u).
 -- a. *gallicum* 1893.
 -- var. *gallicum* 2080.
 -- var. *intermedium* 2100 (i, n), 2597.
 -- var. *kjellmannii* 2074, 3829 (i, u).
 -- var. *laeve* 691.
 -- var. *minutum* 691.
 -- c. *tatricum* 1891 (i, u).
 -- b. *vulgaris* 1891 (i, u).
 -- var. *vulgaris* 2077.
 -- fo. 1 3755
 -- *kinahanii* 118, 323, 324, 521 (u), 1206, 3755.
 -- *kjellmannii* 735 (i, u), 751 (i, u).
 -- *laeve* 22, 735.
 -- cf. *laeve* 735, 1084 (u).
 -- *laevis* 753.
 -- *monotaenium* 325, 691, 1084, 2097, 2100, 2101, 2311, 2584, 2597, 2728, 2802, 2835, 3591 (i).
 -- var. *pilosellum* 3497, 3591 (i).
 -- *pilosum* 2166, 2311, 2583.
 -- *ralfsii* 729, 735 (i, u), 751, 753, 1084 (u), 2080 (i).
 -- var. *laevis* 753.
 -- var. *pilosellum* 746, 751 (u).
 -- cf. *ralfsii* 1663.
 -- sp. 2370.
- Gymnozyga bambusina* 519, 1893.
 -- *brebissonii* 655, 861 (i), 952 (u), 1264, 2072, 2074, 2080, 2646 (u), 2651.
 -- var. *anulata* 2651 (i, n).
 -- var. *trigona* 2080 (i, n).
 -- *grevillei* 1893.
 -- *moniliformis* 117, 430, 729, 735, 751, 751, 960 (u), 1340, 1687 (i, u), 2043, 2102, 2321, 2632 (i, u), 2634 (i, u), 2714 (u), 2719, 2902 (u), 2903, 2928, 2929, 3497.
 -- sp. 121.

Holacanthum antilopaemum 2651.-- var. *laeve* 861 (i), 2651 (i, u).-- *cristatum* 861 (i), 2297, 2651.-- var. *uncinatum* 861 (i).-- *fasciculatum* 861 (i), 1273, 2297.

Hyalotheca dissiliens 320, 324, 430, 519 (u), 655, 691, 713, 729, 735 (i), 736, 746, 753, 800, 861 (i), 952 (u), 960 (i, u), 1084 (u), 1236, 1340, 1613, 1614, 1685, 1687 (i, u), 1743, 1890 (u), 1893, 2043, 2072, 2074, 2077, 2101, 2123, 2166, 2184, 2383, 2509, 2581, 2583, 2632 (i, u), 2634 (i, u), 2644 (u), 2646 (u), 2651, 2712, 2714 (u), 2719, 2824, 2902 (u), 2903, 2928, 2929, 2935, 3158, 3445, 3474, 3476, 3477, 3591.

-- b. *bidentula* 1891 (u).-- var. *bidentula* 519, 729, 735, 751, 1893.-- a. *circularis* 1891.-- var. *dissiliens* 3829 (i, u).-- fo. *distinctepunctata* 2080.-- a. *genuina* 1893.-- var. *hians* 691 (u), 3477.-- fo. *minor* 691 (u), 861 (i).-- var. *minor* 2632 (i, u), 2634 (i, u), 3829 (i, u).-- var. *punctata* 1340 (u).-- var. *tatrica* 691, 729, 751 (i), 753, 1390, 1687 (i, u), 1891 (i, n), 2080, 2102, 3829 (i, u).-- var. *tridentula* 735, 2080.-- *dubia* 800, 861 (i), 1084.-- *indica* cf. var. *indica* 3829 (i, u).

-- *mucosa* 83, 519 (u), 522, 729, 735 (i), 800, 861 (i), 952 (u), 960 (u), 1084 (u), 1190, 1217, 1237, 1300, 1340, 1390, 1687 (i, u), 1890, 1891, 1893, 2043, 2080, 2166, 2657 (u), 2902 (u), 3158, 3445, 3476, 3477, 3497.

-- b. *delpontei* 1891.-- var. *mucosa* 3829 (i, u).-- a. *ralfsii* 1891.

-- fo. 2802 (i).

-- *undulata* 519 (i, u), 3812.

-- sp. 118, 191, 2166, 2307.

Mesotaenium braunii 729, 735 (i), 751 (u), 861 (i), 1084 (u), 1893, 2073, 2074, 2080, 2123.

-- *caldariorum* 2073, 2470 (u).-- *chlamydosporum* 521, 777, 778, 2470.-- var. *violascens* 1217.-- *de-greyi* 2634 (i, u), 2902, 2903.-- var. *de-greyi* fo. *breve* 2634 (i, u), 3829 (i, u).--- fo. *de-greyi* 3829 (i, u).

-- *endlicherianum* 348, 519 (u), 691, 698, 735, 751 (i, u), 952 (u), 960 (u), 1084 (u), 2634 (i, u), 3474, 3476, 3477.

-- var. *endlicherianum* fo. *endlicherianum* 3829 (i, u).

--- fo. *exiguum* 3829 (i, u).--- fo. *grande* 3829 (i, u).-- var. *grande* 698, 751 (u).-- fo. *minor* 729.-- *kramstai* 1340 (i, u).-- *macrococcum* 691, 1390, 3497.-- var. *macrococcum* 3829 (i, u).-- var. *micrococcum* 691, 1124.

-- *micrococcum* 519 (u), 521, 1084 (u), 1918, 2074.

-- *violascens* 1340.

-- sp. 2426.

Micrasterias americana 179, 185, 519 (u), 617, 691, 861 (i), 1084 (u), 1231, 1273, 1390, 1687 (i, u), 1893, 2043, 2166, 2581, 2714 (i, u), 3476, 3497.

-- var. *americana* 3829 (i, u).-- var. *orbicularis* 521 (u).-- var. *typica* 729.

-- *angulosa* 655, 691, 729, 861 (i), 1217, 2043, 2651, 2714 (i).

-- *apiculata* 188 (i), 519 (u), 691, 713, 729, 861 (i), 1084 (u), 1190, 1217, 1382, 1889, 2043, 2581, 2651, 2714 (i, u).

-- var. *brachyptera* 861 (i).-- var. *fimbriata* 691, 861 (i), 2824.-- *brachyptera* 519 (u), 2651 (u).-- fo. *dispersa* 521 (u), 530, 531 (i, u).-- *conferta* 2714 (i, u), 2719.

-- *crenata* 521 (u), 729, 735, 952 (u), 1893 (u), 3477.

-- *crux-melitensis* 146, 519 (i, u), 617, 655, 691, 799, 800, 861 (i), 960 (i, u), 1084 (u), 1206, 1662, 1663, 1685, 1893, 2072, 2166, 2184, 2644 (u), 2646 (u), 2651, 2657 (u), 2712, 2714 (u), 2802 (i), 2824, 2881, 2885, 2902 (u), 2903, 3158, 3474, 3476, 3591 (i), 3812.

- Micrasterias crux-melitensis* var. *crux-melitensis*
2802 (i), 3829 (i, u).
-- fo. *punctata* 729.
-- var. *superflua* 960 (i, u).
-- fo. *typica* 729.
-- fo. 2077 (i).
-- *decendentata* 430, 519 (i, u), 691, 729, 735, 861 (i), 2166.
-- *denticulata* 430, 519 (u), 617, 655, 691, 729, 735, 751, 799, 861 (i), 952 (u), 960 (u), 1084, 1190, 1206, 1217, 1382, 1687 (u), 1893, 2043, 2581, 2644 (u), 2712, 2714 (u), 2902 (u), 3221, 3474, 3476, 3477 (i).
-- var. *angulosa* 952 (u), 960 (u), 2902 (u), 2903.
-- var. *intermedia* 3477.
-- var. *notata* 617, 2080, 2321.
-- *fimbriata* 519 (u), 729, 800, 1084 (u), 1889, 2714 (i, u).
-- var. *obtusilobum* 729, 1891 (i).
-- var. *ornata* 1889.
-- var. *ralfsii* 1891.
-- *furcata* 519 (i, u), 729, 1084 (i), 1893, 3476.
-- var. *dichotoma* 3476.
-- var. *globulifera* 529 (i, n).
-- *halis* 617 (i), 1891 (i, n).
-- *incisa* var. *typica* 735 (i).
-- *janejra* 713, 729, 1891 (i, n).
-- *jenneri* 519, 729, 861 (i), 1217, 1340, 1889, 2074, 2123, 3474, 3476, 3477.
-- b. *angulosa* 1889.
-- var. *jenneri* 2635 (i), 3829 (i, u).
-- var. *lundellii* 2080 (n).
-- var. *simplex* 691, 3477.
-- *kitschiellii* fo. *polonica* 529 (i, n).
-- *mahabuleshwarensis* 2802, 3476.
-- var. *dichotoma* 3477 (i).
-- var. *walichii* 179, 189 (i), 1231, 2166.
-- *mucronata* 1084 (u).
-- *oscitans* var. *mucronata* 861 (i), 1217.
-- var. *pinnatifida* 729.
-- *papillifera* 161, 519 (u), 617, 691, 729, 735, 800, 861 (i), 952 (u), 960 (u), 1084 (u), 1217, 1818, 1893 (u), 2043, 2072, 2080, 2297, 2581, 2651, 2714 (i, u), 3476.
-- var. *glabra* 23, 2581, 3829 (i, u).
-- var. *papillifera* 3829 (i, u).
-- *pinnatifida* 430, 519 (i, u), 691, 1390, 1893, 2043, 2657.
-- fo. *granulata* 522 (i, u).
-- fo. *mixta* 522 (i, u).
-- var. *pseudoscitans* 430.
-- *rabenhorstii* 520 (i, u), 617, 1084 (u).
-- var. *tatricum* 729, 751.
-- *radiata* 617, 691, 861 (i), 1217, 3474.
-- *radiosa* 691, 735 (i), 2928.
-- *rotata* 118, 519 (u), 617, 655, 691, 717, 729, 735 (i), 753, 799, 800, 861 (i), 952 (u), 960 (i, u), 1004, 1084 (u), 1190, 1217, 1340, 1893, 2043, 2072, 2080, 2297, 2321, 2509, 2581, 2632 (i, u), 2634 (i, u), 2646 (u), 2651, 2714 (i, u), 2902 (u), 2903, 2929, 2937, 3474, 3476, 3477.
-- fo. *evoluta* 2321, 2634 (i, u), 3474, 3477.
-- var. *evoluta* 960 (i, u), 1382.
-- fo. *monstrosa* 1891 (i).
-- var. *rotata* fo. *evoluta* 3829 (i, u).
--- fo. *granulata* 3829 (i, u).
--- fo. *rotata* 3829 (i, u).
-- *stauromorpha* var. *inermis* 529 (i, n).
-- *thomasiana* 118, 519 (u), 691, 729, 731 (i), 735, 861 (i), 1687 (i, u), 1891, 1893, 2634 (i, u), 3476.
-- var. *notata* 1046 (i, u), 1687 (i, u), 2203 (i), 2634 (i, u), 2714 (i, u), 3474, 3476, 3829 (i, u).
-- var. *polonica* 730, 731 (i, n), 735 (i).
-- fo. *reducta* 691.
-- var. *thomasiana* 3829 (i, u).
-- *tropica* 530.
-- var. *polonica* 531 (i, u).
-- var. *tropica* 3290 (i, u).
-- *truncata* 118, 121, 185, 430, 519 (i, u), 617, 655, 691, 713, 729, 735 (i), 800, 861 (i), 952 (u), 960 (u), 1084 (u), 1190, 1217, 1390, 1687 (i, u), 1893, 2043, 2074, 2077, 2102 (i), 2166, 2296, 2297, 2321 (i), 2632 (i, u), 2633, 2634 (i, u), 2646 (u), 2650, 2651, 2657 (u), 2712, 2714 (u), 2719, 2824, 2902 (u), 2903, 3112, 3474, 3476, 3477 (i), 3497, 3591.
-- var. *bahusiensis* 691, 2632 (i, u), 3829 (i, u).
-- var. *crenata* 430, 655, 960 (u), 1217, 1687 (u), 2632 (i, u), 2714 (u), 2719, 3474, 3476, 3477.
-- fo. *elevata* 522 (i, n).
-- fo. *granulata* 3474.

- var. *granulata* 519 (u), 1895 (i, u).
 -- fo. *lata* 521 (i, u).
 -- fo. *magistruncata* 522 (i, n).
 -- var. *neodamiensis* 2632 (i, u), 3474, 3476, 3477.
 -- var. *quadrata* 3476, 3477.
 -- var. *quadrigies-cuspidata* 1382.
 -- b. *scutum* 2072.
 -- var. *scutum* 2509.
 -- fo. *semiradiata* 3474.
 -- var. *semiradiata* 3476.
 -- var. *tridentata* 3477 (i).
 -- var. *truncata* 2633, 3829 (i, u).
 -- *verrucosum* 691, 2789.
 -- *wallichii* 617, 1084 (i, u).
 -- sp. 1114, 2166, 2580, 2581, 3158.
- Netrium digitus* 118, 430, 691, 952, 960 (u), 1190, 1217, 1390, 1456, 1687 (u), 1889, 2043, 2166, 2581, 2632 (i, u), 2634 (i, u), 2657 (u), 2712, 2714 (u), 2718, 2719, 2824, 2902 (u), 2903, 3112, 3474, 3476, 3477, 3497, 3591 (i), 3829.
 -- fo. *curtum* 1457 (i, u).
 -- var. *digitus* cf. fo. *curtum* 3829 (i, u).
 --- fo. *digitus* 3829 (i, u).
 --- fo. *parvum* 3829 (i, u).
 -- var. *lamellosum* 691, 2714 (u), 3474, 3476, 3591 (i), 3829 (i, u).
 -- var. *naegeli* 952, 960 (u), 3476.
 -- fo. *parvulum* 2634.
 -- var. *rectum* 3474, 3476.
 -- *interruptum* 698, 1217, 1934 (u), 2714 (i, u).
 -- *lamellosum* 1818.
 -- *naegeli* 1687 (i, u), 2043.
 -- *oblongum* 430, 698, 952 (u), 960 (u), 1217, 1687 (i, u), 1818, 2043, 2555, 2714 (u), 2719, 3112, 3476, 3477, 3497, 3595, 3829.
 -- var. *cylindricum* 430, 3476, 3477, 3829 (i, u).
 -- var. *oblongum* 3829 (i, u).
 -- sp. 121.
- Nothocosmarium obliquum* 751.
- Onychonema filiforme* 118, 161, 430, 691, 861 (i), 960 (i, u), 2043, 2077, 2166, 2657 (u), 3430, 3755 (i).
 -- *laeve* 519 (i, u).
 -- *nordstedtiana* 519.
- fo. *ornata* 522 (i, u).
Oocardium stratum 2476 (i, u), 3359, 3560, 3569, 3572.
Palmogloea macrococca 1893.
Penium annulatum 861 (i), 1084, 1823, 1889.
 -- *armatum* 529 (i, u), 530.
 -- *blandum* 729, 1891 (i, n).
 -- *brebissonii* 713, 777, 778, 800, 1084, 1890 (u), 2074, 2123, 2509, 2644.
 -- var. *genuinum* 1084 (u).
 -- var. b. *jenneri* 1084 (u).
 -- var. *typicum* 1088.
 -- *clevei* 522 (u).
 -- *closterioides* 519 (u), 735 (i), 746, 751, 799, 800, 1084 (u), 1743, 1890, 1893 (u), 2924, 2924.
 -- var. *subcylindricum* 735 (i, u), 751.
 -- var. *typicum* 1080 (i).
 -- *crassuisculum* 374 (i), 2102.
 -- *cruciferum* 2651.
 -- *cucurbitinum* fo. *minor* 751 (u).
 -- *curtum* 799.
 -- fo. *intermedia* 2102 (i).
 -- fo. *maior* 2102.
 -- *cylindrus* 519 (u), 691, 751, 861 (i), 1687 (i, u), 1818, 1893, 2714 (i, u), 3445, 3476, 3477, 3497.
 -- b. *attenuatum* 2715 (i, u).
 -- var. *silesiacum* 522 (u), 1084, 2077.
 -- *didymocarpum* 118, 717, 729.
 -- *digitus* 519 (u), 713, 729, 735 (i), 736, 746, 751, 800, 861 (i), 1084 (u), 1743, 1890, 1893 (u), 2074, 2123, 2296, 2297, 2644 (u), 2651, 2924, 2928, 2929.
 -- var. *interruptum* 1088.
 -- var. *latum* 2102.
 -- var. *montanum* 2080, 2102.
 -- var. *ventricosum* 751 (u).
 -- *ehrenbergii* 1382.
 -- *exiguum* 2634 (i, u), 3477.
 -- var. *attenuatum* 751 (n).
 -- var. *capitatum* 1687 (i, u), 2634 (i, u), 3829 (i, u).
 -- var. *exiguum* fo. *exiguum* 3829 (i, u).
 --- fo. *maior* 3829 (i, u).
 -- var. *glaberrimum* 691 (i, u).
 -- var. *lewisii* 2080.

- Penium heimerlianum* 861 (i), 1382.
- *interruptum* 519 (u), 521 (u), 729, 735, 751, 799, 861 (i), 1084, 1382, 1890, 1893, 2074, 2123, 2297, 2644 (i, u).
 - *jenneri* 751, 799, 800, 1895 (u), 2102.
 - *lamellosum* 519 (u), 713, 735 (i, u), 746, 751, 753, 800, 1084 (u), 1206, 1890, 1893 (u), 2074, 2644 (u), 2646 (u).
 - *libellula* 2321, 2902.
 - var. *interruptum* 2902 (i, u).
 - var. *minor* 2080.
 - *margaritaceum* 188 (i), 430, 713, 729, 735 (i) 736, 751, 753, 800, 1084, 1890, 1890, 1893, 2166, 2644 (u), 2714, 3445.
 - var. *cylindrus* 1088 (i).
 - var. *elongatum* 430, 735.
 - var. *punctatum* 735, 2080.
 - fo. *longior* 1891 (i, u).
 - *minutissimum* 751.
 - *minutum* 519 (i, u), 2043, 2902, 2902 (u).
 - var. *alpinum* 751, 1891 (u).
 - var. *constrictum* 735.
 - var. *genuinum* 1891 (i, u), 1893.
 - var. *minor* 1890 (u), 2043, 2102 (i).
 - fo. *minus* 1390.
 - *mooreanum* 549, 751 (i, u).
 - var. *constrictum* 735 (i).
 - *naegeli* 729, 1889.
 - *navicula* 519, 729, 735, 800, 1084 (u), 1382, 1890, 1893, 2074, 2077, 2123, 2297, 2644 (u), 2651.
 - var. *apicibus rotundato-truncatis* 2080.
 - *oblongum* 713, 751 (u), 800, 1084, 1890, 1893, 2074.
 - *phymatosporum* 751, 2074, 2651 (u).
 - *polonicum* 729, 751, 1891 (i, n).
 - *polymorphum* 430, 691 (i), 698, 751, 1455, 1456, 2043, 2074, 2080, 2102, 2504 (i), 2555, 2631 (i, u), 2714 (u), 2719.
 - var. *polymorphum* 3829 (i, u).
 - *ralfsii* 751.
 - *rufescens* 430, 751 (u), 1382, 2651 (u).
 - *silvae-nigrae* 118, 3474, 3476.
 - var. *parallellum* 3829 (i, u).
 - var. *silvae-nigrae* 3829 (i, u).
 - *spinosperrum* 1687 (i, u), 2634 (i, u), 3497.
 - *spirostriolatum* 430, 519 (u), 520 (u), 691, 735, 751 (u), 861 (i), 960 (u), 1818, 2043, 2080, 2632 (i, u), 2634 (i, u), 2714 (i, u).
 - var. *amplificatum* 430, 2102 (i), 3829 (i, u).
 - fo. *scabra* 522 (i, n).
 - var. *spirostriolatum* 3829 (i, u).
 - *thwaitesii* 549.
 - *tridentulum* 521 (u), 530, 531 (u).
 - *truncatum* 549, 717, 729, 735 (i), 751, 2074, 2123.
 - sp. 1044, 1051, 1114, 1181 (i), 1190, 2555, 2571.
- Phycastrum spinulosum* 2727, 2728.
- Pleurotaeniopsis cohnii* 2651.
- *cucumis* 519, 729, 735, 736, 2077, 2644 (u).
 - *debaryi* 2297, 2651, 2657.
 - var. *inflatum* 2077.
 - *elegantissima* 751 (u), 2651.
 - *elongata* 729.
 - *incisa* 729.
 - *ovalis* 729, 861.
 - *pseudoexigua* 729, 751.
 - *ralfsii* 729, 861.
 - var. *alpina* 729, 751.
 - var. *angulosa* 729, 751 (u).
 - var. *montana* 729, 751.
 - *striolata* var. *cohnii* 729, 735.
 - *tessellata* 735.
 - *turgida* 729, 735 (i), 746, 2657 (u).
- Pleurotaenium archeri* 617, 735 (i).
- *baculiformiceps* 691.
 - *baculum* 800, 1206.
 - *coronatum* 161, 430, 438, 519 (u), 655, 691, 713, 729, 735, 746, 861, 1084 (u), 1217, 1382, 1687 (i, u), 1893, 2446, 2644 (u).
 - var. *nodulosum* 691, 2657.
 - *cosmarioides* 519, 800.
 - *crenulatum* 1084, 1893.
 - *dilatatum* 1084.
 - *ehrenbergii* 118, 146, 161, 430, 691, 735 (i), 861 (i), 1190, 1236, 1390, 1687 (u), 1818, 2069, 2077, 2080, 2166, 2311, 2657 (u), 2714 (u), 2881 (i), 2885, 2902 (u), 2903, 3158, 3379, 3445, 3468, 3474, 3476, 3497.
 - var. *ehrenbergii* 3829 (i, u).
 - var. *elongatum* 691, 2881 (i, u), 2885, 3474, 3476.

- var. *undulatum* 3474, 3476.
 -- fo. 522 (i, u).
 -- *eugeneum* 146, 2881, 2885.
 -- fo. *silesiaca* 691 (i, n).
 -- *flotowii* 1084 (u), 1889.
 -- fo. *interrupta* 1382.
 -- *maximum* 691.
 -- *metula* 522 (u).
 -- *minutum* 691, 729, 800, 960 (u), 1390, 1687 (i, u), 2632 (i, u), 2712, 2714 (u), 3474, 3476, 3497, 3591.
 -- var. *alpinum* 729, 751.
 -- var. *elongatum* 1687 (i, u), 3476.
 -- var. *latum* 952 (u), 3829 (i, u).
 -- var. *maius* 691.
 -- var. *minutum* fo. *minutum* 3829 (i, u).
 -- *nodosum* 691, 729, 735 (i), 751 (u), 861, 1382, 2043 (u), 3468, 3476.
 -- fo. *borgei* 118.
 -- *nodulosum* 519 (u), 617, 713, 729, 735 (i), 746, 800, 1084 (u), 2072, 3379, 3755 (i).
 -- *rectum* 519 (u), 691, 735, 1382, 1818, 1895.
 -- fo. *punctata* 1895 (i, u).
 -- var. *rectum* 3829 (i, u).
 -- *trabecula* 118, 131, 146, 179, 185, 188 (i), 191, 430, 519 (u), 617, 691, 713, 729, 800, 861 (i), 960 (u), 987, 996, 1004, 1084, 1217, 1231, 1236, 1380, 1382, 1402 (u), 1662, 1663, 1685, 1687 (u), 1893, 2043, 2166, 2184, 2315, 2321, 2581, 2583, 2584, 2632 (i, u), 2644, 2646 (u), 2651, 2712, 2714 (u), 2722, 2859, 2881, 2885, 2902 (i, u), 2903, 3158, 3445, 3474, 3476, 3477, 3497, 3591, 3607, 3812, 4013.
 -- fo. *clavatum* 2581.
 -- var. *crassum* 2077, 3829 (i, u).
 -- var. *elongatum* 2881 (u), 2885.
 -- var. *granulatum* 746.
 -- var. *maximum* 146, 1687, 2631 (i, u), 2881, 2885.
 -- var. *rectum* 118, 1687 (u), 2321, 2581, 2714 (i, u), 3476, 3477, 3591 (i).
 -- var. *semi-undulatum* 188 (i, u).
 -- var. *trabecula* 3829 (i, u).
 -- *tridentulum* 2632 (i, u).
 -- var. *tridentulum* 3829 (i, u).
 -- *truncatum* 146, 519 (i, u), 617, 691, 729, 735 (i), 746, 861, 960 (u), 1217, 1800 (i, u), 2043, 2651 (u), 2657 (u), 2714 (i, u).
 -- fo. *crassum* 691.
 -- fo. *curtum* 522 (i, u).
 -- var. *granulatum* 2902 (u), 2903.
 -- *turgidum* 519, 800, 1084.
 -- fo. 753 (i, u).
 -- sp. 2383, 3158.
***Raphidiastrum avicula* 3476.**
 -- var. *avicula* 3829 (i, u).
 -- var. *subarcuatum* 3476.
 -- *aviculoides* 3476.
 -- *denticulatum* 3476.
 -- var. *denticulatum* 3829 (i, u).
 -- *granulosum* 3476.
 -- var. *granulosum* 3829 (i, u).
 -- var. *lunatum* 3829 (i, u).
 -- *simonyi* 3476.
 -- var. *simonyi* 3829 (i, u).
***Rhynchonema angulare* 800.**
***Roya obtusa* 746, 751, 1217, 2714 (u).**
 -- var. *minor* 746.
 -- var. *minus* 751.
 -- var. *montana* 746, 751, 1236, 2166.
***Schizacanthum armatum* 861 (i), 1382.**
 -- sp. 2297.
***Sphaerosma archeri* 521 (u).**
 -- *bambusinoides* 519 (i, u), 751, 952 (u), 3477.
 -- *depressum* 729.
 -- *excavatum* 519 (u), 655, 691, 729, 735 (i), 751 (i), 753, 800, 861 (i), 1084 (u), 1217, 1890, 2203, 2297, 2712, 2902 (u), 2903.
 -- var. *granulatum* 2080.
 -- var. *spinulosum* 735 (i).
 -- *exiguum* 2315.
 -- *filiforme* 519 (u), 1084 (u).
 -- *granulatum* 188 (i), 691, 735, 1237, 1300, 1687 (i, u), 2166, 2184, 3445, 3474.
 -- var. *trigranulatum* 691 (i, u).
 -- *pulchellum* 735, 1340, 2080.
 -- var. *bambusinoides* 735 (i, u).
 -- *secedens* 691.
 -- *stomatomorphum* 729, 1889.

- Sphaerosoma vertebratum* 519 (u), 691, 735 (i), 751 (i), 753, 800, 960 (u), 1084 (u), 1893, 2077, 2644 (u), 2651 (u), 2783, 3476.
 -- var. *latius* 3476.
 -- sp. 188, 191, 920, 1305, 1306, 2166, 3922.
- Spirotaenia acuta* 22, 521 (u), 691 (i), 800, 1084 (u), 1889, 2102 (i), 2509.
 -- *closteridia* var. *elongata* 2080.
 -- *condensata* 430, 519 (u), 617, 729, 735 (i), 751 (u), 799, 800, 861 (i), 1084 (u), 1340, 1818, 1891, 1893 (u), 2043, 2074, 2080, 2644 (u), 2902 (u).
 -- var. *condensata* 3829 (i, u).
 -- *minuta* 519 (u), 729, 1893 (u), 2077.
 -- var. *minutissima* 617, 1084 (u), 2080.
 -- *obscura* 691, 729, 735, 800, 1084 (u), 1889, 1893 (u).
 -- var. *obscura* 3829 (i, u).
 -- *trabeculata* 519 (u), 729, 800, 1084, 1893 (u).
- Spondylosium depressum* 519 (u), 1084 (u), 1890, 1893, 2074, 2077, 2123, 2644, 2646 (u).
 -- *ornatum* 3476.
 -- *papillosum* 3476.
 -- *planum* 325, 691 (i), 2166, 2321, 2534, 2580 (i), 2583, 2634 (i, u), 3129, 3474, 3476, 3477, 3659.
 -- var. *planum* 3829 (i, u).
 -- var. *triquetrum* 691 (i, n).
 -- *pulchellum* 118, 430, 519 (u), 655, 691, 895, 1084 (u), 1687 (i, u), 2043, 2074, 2077, 2102, 2123, 2321, 2632 (i, u), 2634 (i, u), 2714 (i, u), 2902 (u), 2903, 3136, 3476, 3477, 3497, 3591, 3755 (i).
 -- var. *bambusinoides* 519, 691, 751 (i, u), 3477.
 -- var. *pulchellum* 3829 (i, u).
 -- *pygmaeum* 1687 (i, u), 3476.
 -- var. *compressum* 3476.
 -- *secedens* 519 (u), 751, 1687 (i, u), 2166.
 -- *stomatomorphum* 1889, 1890.
 -- *tetragonum* 3474, 3476.
 -- sp. 3112.
- Staurastrum aciculiferum* var. *pulchrum* 3829 (i, u).
 -- *aculeatum* 3476, 3477, 3812.
 -- *alpinum* 729, 751 (i, u), 1893 (u), 1895.
 -- *alternans* 118, 131, 137, 185, 188, 191, 691, 729, 735 (i), 751 (i), 753, 1044, 1231, 1232, 1236, 1237, 1241, 1243, 1248, 1300, 1305, 1687 (i, u), 2074, 2102, 2166, 2311, 2321, 2714 (u), 3379, 3445, 3474, 3812.
 -- var. *coronatum* 2080.
 -- *amoenum* 22, 519 (u), 717, 729, 735, 751, 800, 1084, 1889, 2074.
 -- subspec. *acanthophorum* 751 (i, u).
 -- var. *brasiliense* 751.
 -- var. *intermedium* 751 (i, n).
 -- fo. 729, 1891.
 -- *anatinum* 1687 (i), 2166, 2416, 3474, 3476, 3591 (i, u), 3829 (i, u).
 -- var. *longibrachiatum* 3476.
 -- *angulare* fo. *polonica* 522 (i, n).
 -- *angulatum* 3477.
 -- *apiculatum* 118, 131, 137, 655, 691, 800, 1231, 1232, 1235, 1236, 1390, 2043, 2166, 2644, 2714 (u), 3445.
 -- *arachne* 118, 519 (u), 691, 735, 800, 1084, 1390, 1687 (i, u), 2043, 2203, 2714, 3476, 3497, 3591.
 -- var. *curvatum* 2311.
 -- *arctiscon* 118, 325, 1390, 1687 (i, u), 2043 (u), 2081, 2802 (i), 3158, 3497.
 -- *aristiferum* 202, 1084, 2043 (i, u).
 -- var. *indentatum* 2321.
 -- *asperatum* 691.
 -- *avicula* 519, 2166, 2580, 2583, 2584, 2631 (i, u), 3158, 3445, 3474, 3477, 3712, 3713.
 -- var. *aciculiferum* 2102 (i).
 -- var. *subarcuatum* 118, 323, 324, 325, 3477.
 -- fo. 146, 2881, 2885.
 -- *bacillare* 691.
 -- b. *obesum* 519 (i, u).
 -- fo. 522 (i, u).
 -- *basichondroides* 751 (i, n).
 -- *basidentatum* fo. *pentagona* 2080.
 -- var. *simplex* 2074, 2080.
 -- *bicorne* 146, 2077, 2881, 2885, 3474, 3476.
 -- fo. *brevis* 146, 2881 (i, n), 2885.
 -- *bieneanum* 480, 691 (i, u), 2077, 2657 (u), 2714 (i, u).
 -- var. *ellipticum* 1359, 2074, 2634 (i, u), 2714 (i, u).
 -- *bifidum* 519 (i, u), 861 (i), 1084 (u), 2203 (i).

- *bioculatum* 3136.
 – var. *minutissima* 202.
 – *blandum* 729, 1891 (i, u).
 – *boreale* 146.
 – fo. 2881, 2885.
 – *borgeanum* 751.
 – var. *compactum* 691 (i, n).
 – var. *tatricum* 751 (i, n), 753.
 – *botanense* var. *variabilis* 202 (i).
 – *botrophilum* 691 (u).
 – fo. 691 (u).
 – *brachiatum* 430, 519 (u), 520 (i, u), 691, 729, 1733, 1893, 2080, 2203 (i), 2321 (i), 2634 (i, u), 2714 (i, u), 2902 (u), 2903, 3158, 3591 (i, u).
 – var. *brachiatum* 3829 (i, u).
 – *brasiliense* 691.
 – fo. *lundellii* 1390.
 – var. *lundellii* 2043 (i, u), 3468.
 – fo. *maior* 2043 (i, u).
 – *brebissonii* 146, 691, 729, 735, 2184, 2881 (u), 2885, 3812.
 – var. *brebissonii* 2802 (i).
 – var. *truncatum* 691 (i, n).
 – *breviaculeatum* 2321 (i).
 – *brevispinum* 519 (u), 691, 729, 735 (i), 746, 1084 (u), 1893, 2043, 3474, 3477.
 – var. *boldtii* 3474
 – fo. *hexagona* 529 (i, n).
 – fo. *minor* 2080.
 – var. *inermis* 2080.
 – b. *retusum* 522 (u).
 – var. *retusum* 731 (i), 735 (i).
 – fo. *galiciensis* 730, 731 (i, n), 735 (i).
 – *capitulum* 691, 1084 (u), 1889, 2714 (i, u).
 – b. *amoenum* 1889.
 – *cedercreutzii* 691.
 – *cennatum* 519.
 – *cerastes* 1687 (i, u), 3468.
 – cf. *punctulatum* 146.
 – *chaetoceros* 202 (i), 204, 325, 480, 691 (i), 1685, 2315, 2321 (i, u), 2603 (i), 2802 (i), 2803, 3136, 3137, 3157, 3158, 3379, 3430.
 – var. *convexum* 3379.
 – *cingulum* 325, 2803, 3158, 3430, 3713.
 – var. *obesum* 325, 2321, 2802 (i), 3430, 3712.
 – *clepsydra* 521 (u).
 – b. *acuminatum* fo. *biradiata* 522 (i, n).
 – *clevei* 521.
 – var. *octocornis* 2043.
 – *connatum* 521, 1206, 2714 (u), 2902 (u).
 – *contortum* 735, 2311, 2321.
 – *controversum* 691, 729, 735, 800, 861 (i), 1217, 2297, 2632 (i, u), 2714 (i, u).
 – var. *controversum* 3829 (i, u).
 – fo. *tetragona* 519 (u).
 – *cordatum* 735 (i), 746.
 – *cornutum* 430.
 – *cosmospinosum* 691.
 – *cracoviense* 729, 1891 (i, u).
 – *crenulatum* 952 (u), 2031, 2646 (u), 2651, 3476.
 – var. *continentale* 146, 2881, 2885.
 – fo. *quinqeradiata* 519 (u).
 – fo. *trigona* 2644 (u).
 – *cristatum* 519 (u), 729, 735, 861 (i), 1084 (u), 2077, 2644, 3137, 3379, 3468.
 – *curvatum* 2043 (i, u), 2315.
 – *cuspidatum* 325, 480, 519 (u), 735 (i), 800, 1084 (u), 1194 (i), 1217, 1300, 1687 (i, u), 1929, 2070, 2077, 2098, 2100, 2115, 2166, 2297, 2315, 2321, 2581, 2597, 2835, 2857, 3158, 3430, 3468, 3476, 3477, 3659.
 – var. *acuminatum* 325, 2802 (i), 3158.
 – var. *cuspidatum* 2802 (i).
 – var. *divergens* 202, 691, 2203 (i), 3755 (i).
 – fo. *incura* 521 (u).
 – var. *inflexum* 519 (u), 691.
 – var. *longispinum* 2098.
 – fo. *minor* 146, 2881 (i, n), 2885.
 – var. *typicum* 729.
 – *cymatopleurum* 586 (i).
 – *cyrtoceros* 691, 1687 (i, u), 2184, 2714 (i, u), 3474, 3476, 3477.
 – var. *compactum* 3474, 3476.
 – *de-tonii* 529 (i, n).
 – *decipiens* 729, 751, 1891 (i, n).
 – *dejectum* 188 (i), 202, 430, 480, 691, 729, 731 (i), 735 (i), 751, 800, 861, 1084, 1205, 1205, 1236, 1390, 1456, 1687, 1733, 2043, 2077, 2166, 2184, 2321 (i), 2534, 2580, 2644 (u), 2646 (u), 2651, 2657, 2712 (u), 2714 (u), 2722, 2727, 3137, 3379, 3445, 3477, 3497, 3591 (i), 3755 (i).
 – d. *apiculatum* 1084.
 – var. *apiculatum* 735 (u), 3476.

Staurastrum dejectum var. *connatum* 691.

- b. *convergens* 521 (u).
- var. *convergens* 2074.
- e. *depressum* 1084 (u).
- var. *depressum* 729, 1084, 1206.
- fo. *angustatum* 2203 (i).
- var. *inflatum* 2311.
- b. *mucronatum* 1084.
- var. *mucronatum* 519 (u), 617, 730, 731 (i, u), 735 (i), 1084.
- var. *patens* 146, 519 (u), 691, 731 (i), 751 (i), 753, 2166, 2881, 2885, 3445, 3477.
- fo. *minor* 731 (i, u), 735 (i).
- c. *sudeticum* 1084.
- var. *sudeticum* 691 (u), 729, 1084, 2074, 2080, 2123.
- a. *typicum* 1084.
- var. *typicum* 519 (i), 893, 1084.
- *denticulatum* 519 (u), 735 (i), 751 (i, u), 753, 960 (u), 968 (u), 1084 (u), 1236, 2077, 2166, 2267, 2631 (i, u), 2632 (i), 2644 (u), 2712, 2714 (i, u), 3474.
- *dickiei* 655, 691, 2657 (u), 3755.
- var. *circulare* 2203 (i).
- fo. *punctata* 146, 691, 2881, 2885.
- *dilatatum* 179, 617, 691, 729, 735 (i), 746, 751 (i), 753, 800, 1044, 1084, 1206, 1402, 2102, 2166, 2184, 2644 (i, u), 2646 (u), 2714 (i, u), 2902 (u), 2903.
- b. *alternans* 1893 (u).
- var. *hibernicum* 691.
- var. *obtusilobum* 735 (i).
- fo. *tetragona* 519 (u), 2074, 2646 (u).
- c. *tricornis* 1206.
- fo. *trigona* 2646 (u).
- *dimazum* 691.
- *dispar* 691, 800, 3712.
- *dubium* 529 (i, n).
- fo. 529 (i, u).
- *dziewulskii* 521 (u), 530, 531 (i, n).
- *echinatum* 118, 519 (u), 729, 800, 861 (i), 1084, 2074, 2123, 2509, 2632 (i, u), 2634 (i, u).
- *ecorne* var. *podlachicum* 529 (i, n).
- *eichleri* 530, 531 (i, u).
- fo. 522 (i, u).
- *erasum* 691, 2077.
- *eurycerum* 325, 2802 (i), 3158, 3712.

-- *excavatum* var. *minimum* 204.

- var. *planctonicum* 202, 204, 2603, 3137, 3379.
- *floriferum* 325, 2321, 2802 (i), 2803, 3137, 3468.
- *furcatum* 430, 655, 729, 735, 1084 (u), 1456, 1687 (u), 1893, 2043, 2074, 2123, 2632 (i, u), 2634 (i, u), 2646 (u), 2651, 2714 (u), 2719, 2902 (u), 2903, 2905, 3474, 3476, 3477 (i).
- var. *furcatum* fo. *furcatum* 3829 (i, u).
- fo. *spinosum* 3829 (i, u).
- fo. *montana* 729, 751, 1891 (u).
- var. *subsenarium* 2203 (i).
- *furcigerum* 146, 188 (i), 325, 430, 519 (u), 617, 691, 729, 735, 746, 799, 800, 960 (i, u), 1084 (u), 1217, 1236, 1300, 1818, 1893, 2077, 2166, 2184, 2509, 2580, 2631 (i, u), 2634 (i, u), 2644 (u), 2657 (u), 2712, 2714 (i, u), 2802, 2881, 2885, 3373, 3430, 3445, 3468, 3474, 3476.
- fo. *armigera* 691.
- var. *crassum* 2077 (i, n).
- fo. *eustephana* 691.
- var. *montanum* 691.
- fo. *pseudofurcigera* 522 (i, n).
- var. *reductum* 960 (i, u).
- *gemilliparum* 731 (i), 735 (i), 3831.
- fo. *simplex* 731 (i, u), 735 (i).
- fo. *simplicior* 730.
- *geminatum* 861 (i).
- *glabrum* 1687 (i, u), 2203 (i), 2632 (i, u), 3445.
- *gladiusum* 118, 2631 (i, u), 2634 (i, u), 3474, 3477.
- var. *delicatulum* 3474.
- var. *submuricatum* 1818.
- *gracile* 53, 60, 116, 118, 131, 137, 179, 191, 200, 202, 204, 257, 258, 268, 321, 322, 323, 324, 325, 373, 430, 438, 474, 476, 480, 519 (u), 573, 617, 655, 691, 729, 735, 800, 960 (u), 996, 1084, 1105, 1181 (i), 1205, 1206, 1212, 1213, 1217, 1231, 1232, 1236, 1237, 1314, 1364, 1382, 1390, 1462, 1570, 1687 (i, u), 1697, 1721, 1789, 1799 (u), 1817, 1893, 1929, 2078, 2084, 2088, 2098, 2101, 2108, 2149, 2151 (i), 2166, 2181, 2267, 2321, 2322, 2631 (i, u), 2634 (i, u), 2727, 2728, 2729, 2783, 2822, 2831, 2835, 2857, 2881, 2885, 2902 (u), 2903, 2935,

- 3131, 3136, 3137, 3157, 3158, 3209, 3328, 3379, 3445, 3474, 3476, 3477 (i), 3485, 3497, 3591, 3659, 3688, 3712, 3713, 3746, 3747, 3755, 3812, 3839, 4009.
- var. *coronulatum* 146, 573, 2881 (i), 2885, 3474, 3476.
- var. *nanum* 110, 114, 729, 751, 1687 (i, u), 1891 (i, u), 2712, 3158, 3474, 3476, 3477, 3497, 3591.
- fo. *tetragona* 2074.
- var. *planctonicum* 325.
- cf. *gracile* 1758.
- *grallatorum* 519, 520.
- var. *miedzyrzeczense* 522 (i, u).
- *grande* 519 (u), 3477.
- *granulosum* 691, 1799 (u).
- *hantzschii* 691.
- *heimerlianum* var. *spinulosum* 735 (i).
- *hexacanthum* fo. *intermedia* 529 (i, n).
- *hexacerum* 146, 691, 735 (i), 1237, 2166, 2631 (i, u), 2634 (i, u), 2714 (i, u), 2722, 2881 (i, u), 2885, 3474, 3476, 3591 (i).
- var. *hexacerum* 3829 (i, u).
- *hexagonum* 729, 735 (i), 1891 (i, n), 1893.
- *hirsutum* 519 (u), 691, 717, 729, 735 (i, u), 746, 800, 1084 (u), 1687 (i, u), 1893, 2074, 2080, 2102, 2632 (i, u), 2634 (i, u), 2644 (u), 2714 (i, u), 3474, 3477, 3497.
- fo. 691, 2077.
- *horametrum* 731 (i), 735 (i).
- var. *minus* 730, 731 (i, n), 735 (i).
- *hystrix* 691, 1687 (i, u), 2714 (i, u), 2928, 2929, 3497, 3591 (i).
- var. *lithuanicum* 519 (u), 1895 (i, u).
- var. *polonicum* 729, 1891 (i, u).
- *inconspicuum* 519 (u), 691, 729, 1687 (i, u), 2080, 2102 (i), 2714 (u), 2902 (u), 2903, 3497, 3591.
- a. *typicum* 1893.
- var. *abbreviatum* 729, 751 (i), 1891 (i, n).
- var. *crassum* 2203 (i).
- *inflatum* 655.
- *inflexum* 691, 800, 1614, 2166, 2712, 3445, 3474, 3476, 3477, 3497, 3591 (i), 3712, 3755.
- var. *inflexum* 3829 (i, u).
- *insigne* 520 (i, u), 691.
- fo. *tetragona* 519 (u).
- *iotanum* 521 (u), 2043, 2714 (u).
- var. *perpendicularum* 2043.
- *jaculiferum* 430, 2102.
- var. *excavatum* 430.
- *kobelianum* 2102 (i, n).
- *laevispinum* 3747.
- *laeve* 146, 691, 2881 (i), 2885, 3812.
- b. *clevei* 521 (u).
- *lanceolatum* 2714 (i, u).
- *laniatum* 751 (i).
- *lapponicum* 691 (i, u), 3569, 3812.
- fo. 146, 2881 (i), 2885.
- *leptodermum* fo. *minor* 522 (i, n).
- var. *cornutum* 691 (i, u), 2802.
- *libeltii* 522 (u).
- *longipes* 3430.
- *longiradiatum* 202, 204, 2315, 2321, 3137.
- *luetkemuelleri* 325, 2802 (i), 2803, 3430.
- *lunatum* 131, 146, 323, 324, 325, 519 (u), 691, 1232, 1236, 2166, 2881 (i, u), 2885, 3158, 3430, 3591 (i), 3812.
- var. *planctonicum* 146, 2881 (i, u), 2885.
- fo. 2881 (i, u), 2885.
- *lundtum* 3445.
- *mamillatum* 3812.
- *manfeldtii* 191, 204, 325, 518, 691, 1232, 1236, 1300, 2166, 2534, 2712, 3379, 3812.
- var. *parvum* 118, 1685, 2603.
- *margaritaceum* 325, 325, 450, 519 (u), 655, 691, 729, 735 (i), 751 (i), 800, 1084, 1217, 1390, 1456, 1687 (i, u), 1818, 1893, 2043, 2077, 2102, 2123, 2203 (i), 2632 (i, u), 2634 (i, u), 2714 (u), 2719, 2902 (u), 3158, 3474, 3476, 3477 (i), 3497, 3591.
- var. *alpinum* 691 (i, u), 751 (u), 2080.
- var. *hirtum* 691.
- var. *margaritaceum* 3829 (i, u).
- var. *minor* 2047.
- var. *robustum* 3474, 3476.
- fo. *pentagona* 1206, 2074.
- *megacanthum* 2311, 2802, 3158.
- *megalonotum* 691 (i).
- var. 2074.
- *meriani* 729, 735 (i, u), 751.
- fo. *hexagona* 1893.
- *micron* 146, 204, 691, 2070, 2634 (i, u), 2881 (i), 2885.

- Staurastrum minutissimum* 519, 729, 1889.
 – *montanum* 729, 1891 (i, n).
 – *monticulosum* 691, 2903, 430, 519 (u), 2902 (u).
 – var. *bifarium* 2102 (i).
 – var. *pulchrum* 2903, 430, 2902 (i, u).
 – var. *simplex* 2102 (i, n).
 – var. *variabile* 2102 (i, n).
 – *multinodulosum* 691 (i, n).
 – *muricatiforme* 1687 (i, u), 2632 (i, u), 2634 (i, u), 3591 (i).
 – var. *subturgescens* 691 (i, n).
 – *muricatum* 146, 430, 519 (u), 655, 691, 729, 735 (i), 746, 751 (i), 799, 861 (i), 952 (u), 960 (u), 1084, 2043, 2074, 2080, 2102, 2123, 2321, 2634 (i, u), 2644, 2714 (u), 2928, 2929, 3591 (i).
 – fo. *tatica* 751 (i, n).
 – *muticum* 118, 146, 191, 617, 655, 691, 713, 735 (i), 861, 1382, 1662, 1663, 1818, 2074, 2123, 2166, 2509, 2631 (i, u), 2631 (i, u), 2646 (u), 2727, 2881, 2885, 3117, 3477, 3755.
 – var. *depressum* 2077.
 – *nannoplanctonicus* 3137.
 – *navigiolum* 691.
 – *nitidum* 800.
 – *omearii* 430, 655, 691 (u), 2632 (i, u), 2902 (u), 2903, 3379, 3591 (i).
 – *oblongum* 735 (i).
 – *oligacanthum* 729.
 – *ophiura* 861, 1390, 3468.
 – var. *cambricum* 655.
 – *orbiculare* 146, 519 (u), 522 (i, u), 549, 617, 691, 729, 735 (i), 746, 751, 800, 861, 1084 (u), 1893, 2074, 2077, 2102, 2166, 2651, 2714 (i, u), 2718, 2881, 2885, 3474, 3607.
 – var. *depressum* 2714 (u), 2902 (i, u), 2903.
 – var. *extensum* 746.
 – fo. 746.
 – var. *hibernicum* 1044, 1051, 2722.
 – var. *ralfsii* 2714 (i, u), 3474.
 – *oxyacanthum* 691, 952 (u), 960 (u), 2203 (i), 2634 (i, u), 2902 (u), 3474, 3476.
 – var. *oxyacanthum* 3829 (i, u).
 – var. *polyacantha* 691.
 – var. *sibiricum* 521 (u).
 – *pachyrhynchum* 2712.
 – var. *convergens* 519, 1895 (i, u).
 – *papillosum* 519 (u), 735 (i), 1084 (u), 2077.
 – var. *paucispinosum* 2077 (n).
 – *paradoxum* 116, 118, 126, 161, 258, 268, 321, 323, 324, 325, 387, 389, 430, 519 (u), 603, 657, 658, 691, 729, 735, 751, 895, 952 (u), 960 (u), 996, 1004, 1084 (u), 1105, 1194, 1232, 1236, 1237, 1300, 1343, 1390, 1687 (i, u), 1721, 1789, 1791, 1798 (u), 1799 (u), 1807, 1893, 2077, 2097, 2100, 2101, 2108, 2115, 2166, 2311, 2315, 2321, 2580, 2597, 2632 (i, u), 2634 (i, u), 2644, 2651, 2657 (u), 2701, 2835, 3137, 3158, 3250, 3474, 3476, 3477 (i), 3497, 3591 (i), 3688, 3809, 3839.
 – var. *chaetoceras* 2935.
 – var. *longicorne* 2857.
 – var. *longipes* 735 (i), 960 (u), 1217, 2088, 2100, 2115, 2149, 2181, 2534, 2597, 2857, 3591 (i).
 – fo. *maior* 2043.
 – var. *nannoplanctonica* 202.
 – var. *paradoxum* 3829 (i, u).
 – var. *parvum* 2311, 2315, 3474, 3476.
 – *parvum* 3158.
 – *pelagicum* 2098, 2321, 3430, 3591 (i).
 – *pileatum* 2080.
 – *pileolatum* 691, 751 (i), 2123.
 – var. *cristatum* 751 (i, u), 2074.
 – *pilosum* 137, 179, 189 (i, u), 430, 519 (u), 729, 735 (i, u), 1231, 1232, 1236, 1889, 2166, 2203 (i).
 – b. *brebissonii* 1889.
 – *pingue* 325, 2802 (i), 2803, 3430, 3712.
 – *planctonicum* 2097, 2311, 2795, 3430.
 – *ploriferum* 202.
 – *podlachicum* 529 (i, n).
 – *polonicum* 729, 1891 (i, u).
 – *polymorphum* 137, 179, 389, 390, 391, 430, 519 (u), 655, 691, 713, 729, 735 (i), 751 (i), 753, 800, 895, 952 (u), 960 (u), 1084 (u), 1170, 1231, 1232, 1236, 1237, 1384 (i, u), 1817, 1893, 2043, 2074, 2077, 2102, 2123, 2166, 2184, 2321, 2504 (i), 2632 (i, u), 2634 (i, u), 2644, 2651, 2714 (u), 2727, 2728, 2729, 3445, 3474, 3476, 3812.
 – var. *chaetoceras* 2935 (i, n).
 – fo. *intermedia* 2080.

- var. *minutum* 655.
 -- var. *obesa* fo. 2080.
 -- var. *polymorphum* 3829 (i, u).
 -- var. *pusillum* 3476, 3477 (i).
 -- var. *simplex* 430.
 -- var. *subgracile* 1614, 2166.
 -- *polytrichum* 519, 691, 729, 735 (i, u), 861, 1044, 1046, 1051, 2714 (u).
 -- *pringsheimii* var. *franconicum* 735 (u).
 -- *proboscideum* 146, 691, 2634 (i, u), 2881 (i, u), 2885, 3474, 3476.
 -- var. *proboscideum* 3829 (i, u).
 -- *pseudincus* 729.
 -- *pseudofurcigerum* 729, 1891 (i, u), 2072.
 -- fo. *minor* 522 (i, u).
 -- *pseudoiotanum* var. *latidivergens* 691 (i, n).
 -- *pseudonanum* 691.
 -- *pseudopachyrhynchum* var. *polonicum* 529 (i, n).
 -- *pseudopelagicum* 2043, 2311, 2802 (i), 2803, 3430.
 -- *pseudopisciforme* 529 (i, n).
 -- *pseudosebaldi* b. *gostyniense* 1891 (i, n).
 -- *pseudotetracerum* 390, 391, 691, 854 (i, u), 1817.
 -- var. *pseudotetracerum* 3829 (i, u).
 -- *punctatum* 1384 (i, u).
 -- *punctulatum* 202, 311, 320, 519 (u), 617, 656, 691, 713, 735 (i), 736, 746, 751 (i), 753, 799, 1044, 1048, 1051, 1057, 1084, 1205, 1206, 1390, 1687 (i, u), 1818, 1892, 1893, 2070, 2072, 2074, 2077, 2080, 2102, 2123, 2166, 2181, 2184, 2632 (i, u), 2634 (i, u), 2714 (u), 2718 (u), 2722, 2928, 2929, 3136, 3137, 3158, 3346 (u), 3474, 3477, 3485, 3497, 3591 (i), 3607.
 -- var. *ellipticum* 1685.
 -- var. *kjellmanii* 751 (i), 753, 1043, 2080, 3474.
 -- var. *punctulatum* 2038 (i, u).
 -- var. *pygmaeum* 691, 2038 (i, u), 2712, 3477.
 -- var. *striatum* 2038 (i, u), 2722 (i, u).
 -- var. *subproductum* 1818.
 -- var. *subrugulosum* 729, 751, 1891 (i, u), 2074.
 -- var. *typicum* 729.
 -- cf. *punctulatum* 146.
 -- *pungens* 655.
 -- *pusillum* 2651 (u).
 -- *pygmaeum* 519 (u), 735 (i, u), 751 (i), 2074, 2077.
 -- fo. *maius* 751.
 -- fo. *maior* 2074.
 -- var. *sublobosum* fo. *depauperata* 522 (i, n).
 -- fo. 1891 (i, u).
 -- *quadrangulare* 519, 521 (u), 522 (i, u), 691, 735 (u), 800, 1084 (u), 1889, 2077, 2166, 3812.
 -- var. *alatum* 735 (i, u).
 -- var. *sexcuspidatum* 522 (n).
 -- *quadriscopinatum* 2902 (i, u).
 -- *reinschii* 2102 (i).
 -- *renardii* 691.
 -- var. *congruum* 519, 1885 (i, n).
 -- *retusum* 735 (i), 2184, 2712.
 -- fo. *hians* 529 (i, n).
 -- var. *punctulatum* 529 (i, n), 735 (i).
 -- *riesengebirgense* 691 (i, n).
 -- *rostratum* 519 (u), 729, 1891 (i, n).
 -- *rugulosum* 713, 729, 735, 736, 751, 800, 1084.
 -- var. *denticulatum* 2102 (i, n).
 -- *saxonicum* 691 (i, u), 735, 751, 753.
 -- var. *ellipticum* 735.
 -- *scabrum* 2634 (i, u), 3474.
 -- *schroederi* 691 (i, n).
 -- *scorpioideum* 735 (i).
 -- var. *brevius* 735.
 -- *sebaldii* 146, 325, 521 (u), 691, 735 (i), 861 (i), 1217, 2297, 2657 (i, u), 2881 (i, u), 2885, 3158.
 -- var. *depauperatum* 2885.
 -- var. *jarynae* 735 (i).
 -- var. *ornatum* 146, 325, 2803, 2881 (i, u), 2885, 3430.
 --- fo. *planctonicum* 2802.
 --- fo. 2802 (i).
 -- *senarium* 735.
 -- var. *alpinum* 2080 (i).
 -- fo. *tatricum* 729, 751, 1891 (i, u).
 -- *setigerum* 188, 521 (u), 2043 (i).
 -- fo. *brevissimum* 1105.
 -- *sexcostatum* 617, 691, 729, 731 (i), 735 (i), 746, 952 (u), 960 (u), 1084 (u), 3474, 3476.
 -- var. *depauperatum* 730, 731 (i, n), 735 (i).
 -- subsp. *productum* 746.
 -- var. *productum* 691, 2634 (i, u), 2714 (i, u), 2902 (i, u), 2903, 3474, 3476, 3829 (i, u).
 -- var. *truncatum* 729, 751, 1891 (i, n).
 -- a. *typicum* 1893.
 -- *silesiacum* 22, 800 (u), 1084.

- Staurastrum simonyi* 655, 691, 1687 (i, u), 3474, 3477, 3591.
 -- var. *gracile* 691, 2074.
 -- *smithii* 325, 3158.
 -- var. *smithii* 2802.
 -- var. *verrucosum* 2802 (i).
 -- *sparsiaculeatum* 735 (i, u).
 -- fo. 2080 (i).
 -- *spinosum* 519 (u), 691, 735 (i), 800, 2074.
 -- *spongiosum* 519 (u), 522 (i, u), 691, 729, 735, 800, 960 (i, u), 1084 (u), 1893, 2714 (u), 2902 (u), 2903.
 -- fo. *depauperata* 729, 1895 (i, u).
 -- var. *griffithsianum* 691, 735.
 -- var. *perbifidum* 2714 (i, u).
 -- *striolatum* 519 (u), 735, 1084 (u), 1614, 1666, 2644 (u), 3477.
 -- fo. *quadriradiata* 735.
 -- *subavicula* 691.
 -- *subbrebissonii* 751 (i).
 -- var. *hexagonum* 751 (i, n).
 -- *subcruciatum* 118, 2184.
 -- *subdilatatatum* 751 (i, u).
 -- *subexcavatatum* 691.
 -- *sublongipes* var. *stelliferum* 1685.
 -- *suborbiculare* 655, 691, 3477.
 -- *subteliferum* 735 (i, u).
 -- *teliferum* 188, 617, 655, 691, 729, 735 (i, u), 751 (i), 800, 1084, 1687 (i, u), 2634 (i, u), 2712, 2714 (u), 2720, 2902 (u), 2903, 3474, 3591, 3812.
 -- var. *tatricum* 751 (i, n).
 -- *tenuissimum* var. *anomalum* 2098.
 -- *tetracerum* 131, 137, 146, 179, 183, 185, 191, 204, 268, 323, 324, 325, 390, 480, 691, 729, 735 (i), 751 (i), 800, 905, 952 (u), 960 (u), 1084, 1098, 1191, 1231, 1232, 1236, 1243, 1248, 1303, 1305, 1306, 1663, 1685, 1881, 2070, 2166, 2181 (i), 2203 (i), 2311, 2504 (i), 2631 (i, u), 2714 (i), 2881, 2885, 2905, 3131, 3157, 3158, 3373, 3468, 3474, 3476, 3477, 3688, 3712, 3747, 3812.
 -- var. *biverruciferum* 691.
 -- var. *evolutum* 2311.
 -- var. *tetracerum* 3829 (i, u).
 -- fo. *trigona* 146, 204, 2504 (i), 2881, 2885.
 -- var. *trigonum* 2311.
 -- var. *validum* 323, 324, 325, 854 (i, u), 1236, 2166, 2315, 2321, 3158.
 -- fo. 2881 (i, u), 2885.
 -- var. 573.
 -- *tortum* 691.
 -- *tohopekaligense* cf. var. *trifurcatum* 3831 (i, u).
 -- *tortum* 691.
 -- *trachynotum* var. *annulatum* 751 (i).
 -- *trapezicum* 736, 751 (i).
 -- var. *campylospinum* 751 (i, u).
 -- *tricornis* 519, 751, 800, 1084.
 -- *trifidum* fo. 522 (i, u).
 -- *triolatum* 2166.
 -- *tumidum* 519 (i, u), 691, 729, 735 (i, u), 2714 (i, u).
 -- *tunguscanum* 2077.
 -- *turgescens* 430, 1044, 1045, 1687 (i, u), 1800 (u), 2077, 2634 (i, u), 2722 (i, u), 2902 (u), 2903, 3474, 3497.
 -- var. *sudeticum* 2074 (n).
 -- *varians* 729, 751 (i, u), 1891 (i, n).
 -- var. *badense* 2077.
 -- var. *cosmarioides* 751, 1891 (i, u).
 -- var. *tetragonum* 751, 1891 (i, u).
 -- var. *trigonum* 751, 1891 (i, u).
 -- fo. *truncata* 751 (i, n).
 -- *vestitum* 118, 430, 519 (u), 573, 691 (i, u), 729, 735, 861 (i), 952 (u), 960 (u), 966 (u), 1084 (u), 1236, 1343, 2043, 2043 (i), 2166, 2321, 2632 (i, u), 2634 (i, u), 2651, 2714, 2902 (u), 3158, 3474, 3476, 3477 (i), 3591 (i).
 -- var. *semivestitum* 3474, 3476, 3477.
 -- var. *splendidum* 3829 (i, u).
 -- var. *subanatinum* 1687 (i, u), 3474, 3476.
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– *denesum* 4012 (i), 3959.

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– *duplex* 3791 (i, u).

– *incaensum* 1420 (i, u), 1937.

– *intumescens* 3791 (i, u).

– *kampteneri* 3791.

– cf. *lateporatum* 3791 (i, u).

– *lithothamnioides* 3791 (i, u).

– *maemongense* 3791 (i, u).

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– *microsporium* 3791 (i, u).

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– *prelichenoides* 3791 (i, u).

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– *simplex* 3791 (i, u).

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– *aschersonii* 703, 1937.

– cf. *aucklandicum* 3791 (i, u).

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– *nummuliticum* 703, 1937.

– *operculatum* 3791 (i, u).

– cf. *parvulum* 3791 (i, u).

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– *ramosissimum* 3791 (i, u).

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– *suganum* 703, 1937.

– *subtile* 3791 (i, u).

– cf. *suhumii* 4046.

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– sp. 703, 1782, 1937, 3133, 3791 (i, u), 3957, 4012 (i), 4087.

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– *suganum* 1420 (i, u), 1937.

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