

diviso, segmentis apice pinnatis, pinnis conformibus, raro pinnulatis, interdum margine spiniferis. — Ad oras chilenses.

Gelidium multicornu. (Kg. nov. sp.) G. mediocre, complanatum, stipite elongato basi diviso, superne irregulariter et dense pinnato-multifido, summitatibus hinc latioribus lobulatis, illinc angustissime furcato-ramellosis, omnibus dense approximatis. — Nova Caledonia. L. R.

Index seminum in horto bot. Berolinensi anno 1867 collect. — In dem diesem index beigegebenen „Appendix specierum novarum etc.“ finden wir folgende, in den Kreis der Hedwigia gehörende Arten:

Selaginella Mettenii A. Br. Surculi elongati, prostrati et radicante-repentes, versus apicem adscendentes, pinnatim ramosi. Rami inferiores remoti, superiores approximati, breves, horizontaliter expansi, 3-6-ramulosi, ramulis simplicibus vel infimis bifidis. Rami accessorii ex axillis foliorum axillarum paginae inferioris (nec non superioris) demum prodeuntes, in surculi primarii formam excrecentes. Radices tenues, geminatae, postica major et antica minor. Caulis dorso et ventre subcarinato-convexus, utrinque sulco lato exaratus, vasorum fasciculis 3 superpositis, medio majori, supremo tenuissimo. Folia herbaceo-viridia, ubique dimorpha, in caule primario remotiuscula, in ramis conferta, sed vix contigua; lateralia antica, subpatentia, recta vel paullulum sursum incurva, subaequilatera, ovalia vel ovali-lanceolata, inferiora vix, superiora brevissime acuminata, acuta, basi inferiore libera et leniter subcordato-excisa, superiore attenuata, ad $\frac{2}{3}$ integerrima anguste albomarginata, prope apicem denticulata. Folia intermedia in caule primario lateralibus vix minora, in ramis duplo-triplo-minora, adpressa, oblonga, breviter acuminata, basi oblique adnata et utrinque brevissime et anguste subauriculata, integerrima, dorso carinata et stomatibus per totam superficiem sparsis albo-punctata. Epidermis paginae superioris foliorum e cellulis orbicularibus margine subflexuosis chlorophyllo repletis, paginae inferioris elongatis flexuosis chlorophylli granula minora vel omnino nulla continentibus. Spicae in apicibus ramulorum, a dorso compressiusculae, bracteis conformibus.

Selaginella brevipes A. Br. S. Griffithii hort.; M'Nab in Transact. of the bot. soc. of Edinb. IX. (1867) p. 8; Baker in Gardn. Chron. 1867, p. 1190 (non Spring). Surculi caulescentes frondiformes. Stipes brevis, basi stolones breves mox assurgentes emittens. Lamina ovato-triangularis, e tripinnato decrescens, ramulis versus apicem angustatis. Caulis goniotrope tetragonus, facie leviter bisulcatus, dorso rotun-

datum vel deplanatum, albido-stramineum. Folia herbaceo-viridia, subtus pallidiora, in stipite inferne subhomoeomorpha, laminae lateralia subpostica, distantia (in ramulis subcontigua), ovato-oblonga (in ramulis angustiora), leviter falcata, obtusiuscula vel subacuta, latere anteriore inferne valde dilatata rotundata albomarginata dense serrato-denticulata (in ramulis laxius paucidentata), versus apicem et toto margine posteriore integerrima, basi posteriore attenuata, nervo supra prominulo, subtus sulcato; axillaria lateralibus non majora, subaequilatera, utrinque ad apicem usque serrato-denticulata; intermedia duplo-triplo minora, convergentia, oblique ovata (in ramulis oblonga), cuspidata, basi oblique inserta subcordata, margine serrato-denticulata (in ramulis paucidentata vel subintegerrima), dorso sulcarinata. Spicae graciles, ramulis multo angustiores, exacte quadrangulares. Bractee subhomoeomorphae, ovatae, breviter acuminatae, marginatae, serrato-denticulatae. Microsporangia oblonga. Microspora parvae, albae, acute cristatae, reticulatae.

Isoetes Tuckermanni A. Br. Vegetatio aquatica submersa. Rhizoma parvum bilobum. Folia minus numerosa, plerumque recurva, tenera, media longitudine 1 mm. lata, versus apicem vix conspicue attenuata, teretiuscula, fasciculis fibrosis periphericis carentia, sed stomatibus parce instructa. Vaginae margines accurrentes angusti, hyalini. Sporangium minutum, velo ad medium fere tectum, pallidum, cellulis epidermidis sclerenchymaticis aureo-fuscescentibus raris et sparsis ornatum. Microsporae sublaeves vel vix conspicue tuberculatae. Macrospora 0,56 ad 0,66 mm. crassae, inter angulos acute prominentes grosse et laxe rugatae, rugis elevatis varie erosis, a vertice radiatim excurrentibus, in faciebus verticis subparallelis et parce anastomosantibus, in facie basali irregulariter subreticulatis.

Isoetes Engelmanni A. Br. in Flora 1846 p. 178; Sillim. Journ 1847 p. 53; Asa Gray Man. ed. IV. p. 606. Amphibia, emergens, valida, plerumque polyphylla et longifolia. Rhizoma crassum, bisulcum. Foliorum vagina squamiformis plerumque elongata et pallida, marginibus accurrentibus hyalinis; lamina utrinque plus minus evidenter marginata, antice planiuscula, dorso valde convexa, fasciculis fibrosis periphericis 4 (accessoriis nullis) percursa, stomatibus instructa. Velum angustum, decurrens. Labium non productum, subexcisum. Lingula basi cordata, oblonga. Sporangium plerumque pallidum et cellulis sclerenchymaticis destitutum. Microspora laeves vel tuberculis parum conspicuis subdenticulatae. Macrospora albae, 0,48—0,58 crassae, inter angulos rugis elevatis irregulariter dentatis favoso-reticulatae.

Isoëtes Melanopoda Gay in litt. Apr. 1863; Du Rieu de Maisonn. in Bull. de la soc. bot. d. France XI. (1864) p. 102. Vegetatio amphibia vel subterrestris. Rhizoma subglobosum deorsum intumescens, sulco angusto in lobos duos rotundatos radicibus ubique obsitos divisum, sursum foliorum fasciculum gerens basi bulbi instar consertum, erectum vel modice divergentem. Foliorum vagina squamiformis dorso praeter marginem hyalinum fusco-nigricans, nitida, rarius (in speciminibus aquaticis?) fusco-variegata vel pallida; lamina subulata, angusta, rigidiuscula, utrinque acute marginata, antice plana vel medio paullulum elevata, dorso valde convexa et carinata, fasciculis fibrosis periphericis primariis 4 et in latere postico accessoriis minoribus utrinque 4—8 percursa, stomatibus crebris instructa. Velum angustum vel angustissimum, utrinque longe decurrens. Labium productum, obtusum vel truncatum, saepius bifidum, rarius acuminatum. Lingula magna, cordata, labio triplo longior, fugacissima. Epidermis sporangiorum cellulis sclerenchymaticis crebris varie junctis fuscescentibus signata. Microsporae tuberculis minutis acutiusculis praesertim in statu sicco conspicuis quasi denticulatae. Macrosporae omnium minimae, 0,30—0,40 mm. crassae, albae, depressoglobosae, angulis verticis nec non angulo circulari angustis parum prominentibus, faciebus omnibus tuberculis minutissimis dense congestis parum elevatis et passim subconfluentibus exasperatis.

Marsilia Drummondii A. Br. in Linnaea XXV. (1852) p. 721; Monatsb. d. Ak. d. W. Oct. 1863, p. 426. *M. macrospora* Hook. Ic. pl. X. (1854) t. 909 (non Engelm.). Speciosa, robusta, rhizomate plantae fructiferae dense constipato. Foliola late spathulata, integerrima vel fronte obiter crenulata, dense villosa, superficie demum glabrescentia, decrepita flavescencia vel luteo-fuscescentia. Sporocarpia ex infima basi petiolorum solitarie vel rarius geminatim orta, pedunculo triplo vel quadruplo longiore stricto suffulta, adscendentia, modice compressa, oblique ovata, secus lineam dorsalem recta, linea ventrali valde convexa, apice valde obliqua, ad maturitatem usque pilis argenteo-canescens vestita, depilata fuscolutea, vix conspicue costata. Dentes ad basin superiorem sporocarpium approximati, breves, obtusi, superior latior demum (in fructu bene maturo) decorticatus atronitens. Sori utrinque 6—10.

M. (Drummondii var.) macra A. Br. Omni parte minor et tenuior, rhizomate minus constipato. Pedunculus sporocarpium duplo triplove tantum longior, minus strictus. Sporocarpium fere horizontale, brevius et magis tumidum, nonnunquam linea dorsali concava sursum curvatum, pilis arctius

adpressis fuscescentibus vestitum, depilatum sordide olivaceum
Dentes sporocarpium paullo longiores. Sori utrinque 6—7.

M. (Drummondii var.) salvatrix Hanstein in Monatsb.
d. Ak. Febr. 1863 p. 103; A. Br. in Monatsb. Oct. 1863 p.
427. Speciosa, rhizomate etiam in planta fructifera elongato.
Foliola fronte crenata vel crenato-incisa, crenis 6—8 rarius
pluribus, decrepita brunneo- vel coffeaceo-fuscescentia. Pe-
dunculus sporocarpio triplo- ad quadruplo longior, leniter
curvatus. Sporocarpium adscendens, compressum, ovale, linea
ventrali convexiore subobliquum, apice rotundatum, ad ma-
turitatem usque pilis fuscescentibus dense vestitum, depilatum
intensius fuscum et conspicue costatum. Dentes quam in *M.*
Drummondii genuina fortiores, inferior longior obtusus, su-
perior acutus, maturitate non decorticatus. Sori utrinque 8—12.

M. (Drummondii var.) elata A. Br. Statura fere praece-
dentium, rhizomate plantae fructiferae valde constipato. Fo-
liola integerrima vel fronte leniter repando-crenata, villosa,
decrepita flavescens. Pedunculus longissimus sporocarpium
quingies ad vigesies longitudine exsuperans, erectus. Sporo-
carpium erectum, valde compressum, ovale vel oblongum,
subaequilaterum, altero latere basi brevissime bidentatum,
pilis argenteo-canescens ad maturitatem usque dense
vestitum, depilatum laete aut griseo-fuscum, conspicue costa-
tum. Sori utrinque 7—9.

Fr. Arnold, Zuraflechten. Nr. 296—318. Enthält:

Leptogium lacerum var. *filiforme* Arn., *Imbricaria phy-*
sodes var. *labrosa* Ach., *Calloporisma vitellinellum* Mudd.,
Pyrenodesmia fulva Anzi, *Lecanora Sambuci* P., *Acarospora*
rufescens (Borr.) Hepp, *Scoliciosporum holomelaenum* (Flk.)
var. *corticolum* Anzi, *Arthonia petrosa* Arn. n. sp., *Thelidium*
Nylanderi Rabh. exs., *Th. acrotellum* (Ach.) Arn., *Lithoidea*
chlorotica (Ach.) var., *Verrucaria papillosa* Körb. (Forma!),
V. submersa Hepp (Forma), *V. calciseda* f. *lactea* Hepp, *V.*
calciseda f. *alocyza* Hepp, *V. calciseda* f. *caesia* Anzi, *V.*
calciseda f. *calcivora* Mass., *Opegrapha varia* var. *pulicaris*
H. saxicola Stiz., *Arthonia globulosaeformis* (Hepp), *A. mar-*
morata (Ach.) Nyl., *Cyphelium albidum* Körb., *Coniocybe*
hyalinella Nyl., *Coniocybe furfuracea* var. *sulphurella* Whbg.,
Abrothallus Smithii Tul.

Nachträge zu 100b. *Catopyrenium Tremniacense* Mass.,
165b. *Diploicia epigaea* (P.) Mass., 280b. *Biatorina erysiboides*
(Nyl.), 288b. *Cyphelium parietinum* Nyl., 292b. *Lecanactis*
plocina (Ach.) Mass.

L. R.

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