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Inhalt. A. Geheeb: Additamenta ad „Enumerationem Muscorum hactenus in provinciis Brasiliensibus Rio de Janeiro et Sao Paulo detectorum. (Fortsetzung). — H. Dingler: Beiträge zur orientalischen Flora. — Anzeige. — Einläufe zur Bibliothek und zum Herbar.

Additamenta ad „Enumerationem Muscorum hactenus in provinciis Brasiliensibus Rio de Janeiro et São Paulo detectorum".

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(Fortsetzung.)

Bartramiaceae.

36. *Cryptopodium piligerum* Hpe. — Prope Apiahy, plantam femininam legit Puiggari (655).

37. *Bartramia (Philonotis) Pabstiana* C. Müll. — Prope Apiahy, S. Paulo: Puiggari (Nro. 10).

38. *Bartramia (Philonotis) rufiflora* Hsch. — Prope Apiahy: Puiggari.

39. *Bartramia (Philonotis) filiformis* Hsch. — Prope Iporanga, S. Paulo, mense Julii 1879: Puiggari (265).

40. *Bartramia (Plicatella) grandis* Hpe. Syn.: *Prionodon robustus* Hpe.! (1872).

Gigantea, usque pedalis adscendens, simplex vel latere, vel apice ramosa. Caulis crassus, fusco-fibrillosus, masculus apice irregulariter patente stellato-ramosus, intense lutescens,

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splendens, dense foliatus. Folia caulina concava, erecto-patula, e basi margine arcte revoluto breviter profunde plicata, late ovato-lanceolata, marginibus a medio superne denticulatis, nervo rufescente percursa plus minusve excurrente acuminata, breve aristata; cellulis basilaribus linearibus laevioribus, lateralibus latioribus basi rectangulis, deinde elongatis, versus apicem folii abbreviatis parallelogrammicis nodulis asperis interruptis, superioribus exacte aristatis; folia perigonalia stellata breve et latissime ovata, recurva, plus minusve acuminata, margine e cellulis linearibus hyalina, plus minusve denticulata, nervo tenui percurso apiculata vel obsoleto; cellulis basilaribus elongato-rectangulis, caeteris densioribus parallelogrammicis, minime punctatis; antheridia elliptica elongate reticulata, paraphysibus numerosis luteis circumdata.

In vicinia Rio de Janeiro: Glaziou (11742). Inter omnes *Breutelias* maxima, *B. giganteam* altitudine et amplitudine longe superans. Fructus desideratur! — *Prionodon robustus* (vide „Enumeratio", p. 48) delendus, prius sub Nro. 4549 (vide „Symbolae ad flor. Brasiliae", X., 1872, p. 55) specimini-bus mancis descriptus.

Orthotrichaceae.

41. *Zygodon caldensis* Angstr. (Primae lineae, p. 15). — Prope Apiahy: Puiggari (901).

42. *Macromitrium filiforme* Schwgr. — Prope Rio de Janeiro Glaziou (11752).

43. *Macromitrium progressum* Hpe. — Prope Apiahy: Puiggari (899).

44. *Macromitrium apiculatum* Brid. — Prope Apiahy: Puiggari.

45. *Macromitrium nitidum* Hook. & Wils. — Prope Apiahy: Puiggari (76).

46. *Macromitrium argutum* Hpe. Syn.: *M. proliferum* Mitt.! — Prope Apiahy: Puiggari (428).

47. *Macromitrium Didymodon* Schwgr. — Prope Apiahy, copiose: Puiggari.

Schlotheimia.

a. theca immersa.

48. *Schlotheimia Puiggarii* Geheeb & Hpe. n. sp. — (Syn. *Orthotrichum Puiggarii* Duby!).

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Monoica, e basi tomentosa vage caespitosa, fusco-viridis. Caulis gracilis uncialis et fere biuncialis, plus minusve ramosus, adscendens, parce fastigiatus, ramis inaequalibus subacutis accumbente foliatus. Folia caulina humida squarruloso-patula, marginibus involutis varie flexa, canaliculata, lanceolata, versus apicem eroso-dentata vel plus minusve serrulata, nervo rufescente carinato percursa; cellulis basilaribus limpidis, parallelogrammicis, lineatis, sequentibus rectangulis, versus apicem folii ovoideis, parce incrassatis, diaphanis, chlorophyllo-cinctis, oblique seriatis; perichaetium laterale, folia latiora et longiora, thecam superantia, humida erecto-patula, ovato-lanceolata, apice in aristam undulato-alatam exciso-dentatam attenuata, nervo percursa, cellulis basilaribus dense aggregatis, vermicularibus, in suprema parte folii anguste ellipticis. Theca immersa, subsessilis, erecta, oblonga, 8-striata, fusco-nitida; operculo umbonato-conico longe acuminato-subulato; peristomium duplex: dentibus 16 papillosis rubris, lanceolatis, elongatis, sulcatis, demum fissilibus, siccis reflexis, internis ciliis setaceis brevioribus 16, subconcoloribus. Calyptra brevis, aurantiaca, vix operculum obtegens, campanulata, longe acuminata, laevis, basi 6-appendiculata, apice scabriuscula.

Prope Apiahy, Febr.—Majo 1876: Puiggari (25b).

A *Schlotheimia tecta* Hook. & Wils. differt: statu graciliore, foliis indistincte flexis, nec spiraliter tortis, perichaetialibus arista alata, exciso-dentata acuminatis, nec nervo excurrente aristatis, laevibus; calyptra 6-appendiculata, breviore, nec basi multifida; a *Schl. appressifolia* Mitt. proxima differt: foliis marginibus involutis apice eroso-dentatis, subserrulatis, strictioribus, nec apice semitortis. An eadem ? e descriptione pauperrima non elucet.

49. *Schlotheimia uncialis* Geheeb & Hpe. n. sp.

Minor, vix uncialis, densius caespitosa, e basi fusco-fibrillosa adscendens, fusco-viridis, superne fastigiato-ramosa. Folia caulina breviora, erecto-patula, e basi latiore lanceolato-acuminata, apice uno latere complicata, semitorta, eroso-dentata, nervo rufescente percursa apiculata; cellulis basilaribus parallelogrammicis, lineato-seriatis, sensim versus apicem folii abbreviatis, in chlorophyllosa parte folii cellulis ovalibus minimis, oblique seriatis, laevioribus; perichaetium ramulis brevioribus suffultis subaequans, folia erecto-patula latiora, oblongo-lanceolata, nervo carinato sulcato, superne parce undulata, arista recurvata alata,

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canaliculata, inciso-serrata, longe hyalina, superne cellulis anguste ellipticis reticulata. Theca junior aqua imbuta breviseta, immersa, oblonga, laevis, operculo cupulato-acuminato; peristomii dentibus exterioribus lanceolato-acuminatis, noduloso-trabeculatis, rufescentibus, medio sulcatis, fissilibus, interioribus cruribus angustis, subulatis, brevioribus, medio pertusis, concoloribus; calyptra campanulata, acuminata, apice aurantiaca, laevis, basi indistincte inciso-lobata, pallide membranacea.

Prope Apiahy, inter *Schl. Puiggarii* lectam misit Puiggari.

Ab omnibus congeneribus humilitate vix unciali diversa, magis fibrillosa connexa, caespitosa, apice fastigiato-ramosa, foliis brevioribus, erectioribus, apice semitortis, *Schl. immersae* consimilibus, vix varietas ejusdem videtur.

b. theca emersa, minores.

50. *Schlotheimia nitida* Schwgr. — Prope Apiahy: Puiggari (11, 597).

Var. *elatior*. — Prope Rio de Janeiro: Glaziou (11730, 11731).

c. elatiores.

51. *Schlotheimia Jamesoni* Brid., var. — Prope Apiahy, Majo 1879: Puiggari (576).

52. *Schlotheimia affinis* C. Müll. — Prope Iporanga: Puiggari (159).

53. *Schlotheimia julacea* Hsch. — Prope Apiahy: Puiggari (20).

54. *Schlotheimia juliformis* Geheeb & Hpe. n. sp.

Caulis repens, basi tomentosus, uncialis, ramis erectis parce ramosus, siccis julaceo-attenuatis, angustis. Folia sicca spiraliter torta, rufescentia, humida erecto-patula, apice recurvata, e basi impresso-concava latiore lingulata, obtusiuscula, apiculata, integerrima, apice plus minusve rugulosa, rubiginosa, basi pallida, diaphana; nervo flavescente carinato percursa; cellulis basilaribus anguste ellipticis, acutis, sequentibus ovalibus, supremis minimis subrotundis, omnibus dense aggregatis; perichaetium laterale; folia perichaetialia latiora, etiam apice corrugata, parum pallidiora, in caeteris caulinis simillima. Seta erecta, semiuncialis, glabra, rubens, sulcata, apice incrassata. Theca cylindrica, rubra, laevissima, basi parce cum seta torquescente plicato-contracta, erecta, operculo pallidiore, cupulato-conico, breve

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subulato, recto; peristomii dentibus exterioribus siccis revolutis, humidis conniventibus, lanceolatis, acuminatis, rufescentibus, annulato-trabeculatis, medio sulcatis, lente opacis, rimoso-pertusis, cruribus interioribus erectis, subulatis, brevioribus, pallidis medio rimoso-pertusis, pellucidis. Calyptra aurescens, apice scabriuscula, basi appendiculis latis 6 truncatis ornata.

Prope Apiahy: Puiggari (161); prope Iporanga: Puiggari (160).

Colore et habitu *Schl. julaceae* aemulans, differt: foliis perichaetialibus caulinis simillimis, apice rugulosis, nec acuminatis, erugulosis, theca cylindrica, longiore, laevissima, basi cum seta torquescente sicca parce plicata, evacuata leptoderma, diaphana.

55. *Schlotheimia subsinuata* Geheeb & Hpe. n. sp.

Late expansa, fusco-viridis, caulibus elongatis tomento fusco contextis, ramis vix uncialibus inaequalibus, erectis, ramulosis, apice saepe breve divisis. Folia humida dense imbricata, erecto-patentia, comalia pallidiora, sicca spiraliter torta, brevia, e basi pallidiore impressa ovato-lingulata, obtusa, supra medium folii marginibus convexis contracta, parce corrugata, plus minusve subsinuata; nervo parce carinato percursa, apiculata; cellulis basilaribus parallelogrammicis, sequentibus ovoideis superioribus dense aggregatis, minimis, rotundis, parce diaphanis; perichaetialia parce exserta, convoluta, majora, ovato-lanceolata, latiora, acuta, planiuscula vel parce basi plicata longitudinaliter impressa, nervo plus minusve carinato percursa, apiculata, cellulis caulinis similibus. Seta in ramulo inserta, brevis, 3—4-linearis, recta, flavescente rubens, apice incrassata. Theca concolor, leptoderma, deoperculata diaphana, elliptica, apice attenuata, operculo conico subulato; peristomii dentibus externis lanceolato-subulatis, sulcatis, dense trabeculatis, ruberrimis, opacis siccis reflexis, internis ciliis erectis lutescentibus, brevibus. Calyptra lutescens, apice scabriuscula, basi 6 appendulis ornata.

Prope Apiahy, Augusto 1879: Puiggari (79b).

Schlotheimiae sinuatae proxima, sed caules basi tomentoso-contexti, superne diviso-ramulosi, theca elliptica, leptoderma, pallide rubra, calyptra lutescens, apice scabra, basi appendiculis 6 ornata.

56. *Schlotheimia recurvifolia* Hsch. — Prope Apiahy: Puiggari (906).

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57. *Schlotheimia trichomitria* Schwgr. — Prope Apiahy: Puiggari (19, 19b, 182).

Bryaceae.

58. *Orthodontium denticulatum* Geheeb & Hpe. n. sp.

Monoicum. Caulis simplex fusco-fibrillosus, humilis. Folia inferiora breviora, superiora marginibus erectis carinata, linearielongata, recurvata, acuminata, apice denticulata, sicca flexuosa, nervo (e cellulis linearibus elongatis constructo) laxo rufescente percursa; cellulis basilaribus brevioribus, fulvis, hexagonis, mediis elongatis, rectangulis, utrinque acutis, superioribus angustioribus et brevioribus, ellipticis, utrinque acutis, omnibus chlorophylloso-cinctis; antheridia nuda, elongata, fuscata, paraphysibus pallidis circumdata. Seta gracillima erecta, lutescens, glabra. Theca pyriformis, oblonga, sicca striata, operculo breve conico suboblique acuminato; peristomii dentibus exterioribus brevibus, lanceolatis, remote trabeculatis, pellucidis, interioribus ciliis brevioribus, subulatis, hyalinis. Calyptra parvula, cucullata, flavescens, apice fuscata, stylifera.

Prope Apiahy, Julio 1879: Louis Puiggari (902).

O. lineari proximum videtur, sed foliis apice denticulatis et theca erecta oblongo-pyriformi striata diversum.

59. *Webera Puiggarii* Geheeb & Hpe.

Dioica, humilis, vix uncialis, pallida. Caulis subtrilinearis adscendens, simplex, laxifoliatus. Folia patula, inferiora breviora rotundato-ovata, media ovata, comalia oblonga, omnia immarginata, acuta, obtuse dentata, nervo supra medium in comalibus longiore producto; cellulis trapezoideo-elongatis diaphanis; perichaetialia minora subvaginantia. Seta semiuncialis et paulo altior, flavescens, apice incrassata, inclinata. Theca parva, pyriformis, pendula, operculo obtuse conico. Planta mascula gracilior, apice capitata e foliis minoribus hyalinis basi auratis formata, antheridia includentia, pallida.

Inter Apiahy et Iporanga, statu juniore leg. J. J. Puiggari, Julio 1879.

Weberae Tozeri affinis, foliis immarginatis diversa; ab *Epipterygio immarginato* Mitt. differt: caule multoties breviore, foliis perichaetialibus minoribus acutis, nec loriformi-lanceolatis, theca pyriformi, nec ovali.

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Bryum.

a. Rhodobryum.

60. *Bryum Beyrichianum* C. Müll. — Prope Apiahy, c. fruct. perfectis Junio—Augusto 1879 leg. Puiggari (81).

b. Comatulina.

61. *Bryum andicola* Hook. — Prope Apiahy: Puiggari.

62. *Bryum gracilescens* C. Müll. — Prope Apiahy copiose, c. fruct.: Puiggari.

63. *Bryum pseudo-marginatum* Geheeb & Hpe. n. sp.

Dioicum, dense caespitosum, erectum, subfastigiatum, triunciale, apice lutescens. Caulis diviso-ramosus, usque ad comam tomentosus, apice subprolifero-incrassatus, novellis brevibus angustioribus, minime tomentosis, lutescentibus, subcomosis auctus. Folia caulina longiora, concava, margine crasse et constanter revoluta, pseudo-marginata vel incrassata, late ovato-lanceolata, elongata, superne convoluta, marginibus planis remote spinuloso-dentata; nervo crasso fuscato percursa, cuspidata; cellulis basilaribus majoribus, plus minusve elongato-hexagonis, versus apicem folii sensim minoribus, elliptico-acutis vel anguste trapezoideis, summis minoribus, pellucidis; folia comalia breviora, concava, oblongo-lanceolata, margine inferiore minus late pseudo-marginata, superiore planiuscula, dentibus brevioribus armata; nervo percurrente cuspidata; cellulis basilaribus hexagonis, majoribus, pellucidis, caeteris multo minoribus, ovoideis, angulatis, superioribus trapezoideo-acutis, chlorophylloso-diaphanis; perichaetialia basi vaginante concava, apice patula, comalibus similia, magis nervo excurrente cuspidata, parcius dentata. Seta inter ramulos sesquiuncialis caulem superans e flavescente rubens, apice incurvata. Theca brevis, pyriformi-oblonga inclinata, vetusta plicata, operculo conico-acuto; peristomii dentibus externis lanceolatis, subulato-acuminatis, crasse trabeculatis, fusco-luteo-diaphanis, linea verticali nulla, membrana interna non visa. Calyptra anguste subulata, cuspidata.

Prope Apiahy, Augusto 1879: Puiggari. — *Bryo rigido* affine.

c. Julaceo-Argyrobryum.

64. *Bryum bulbillosum* Mtge. — Prope Apiahy, sterile: Puiggari (893).

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d. Erythrobryum.

65. *Bryum Puiggarii* Geheeb & Hpe. n. sp.

Monoicum. Caulis brevis, 2—3‴ altus, fasciculatus, dense caespitosus, fuscescens, erectus, basi tomentosus. Folia dense imbricata, rigida, erecto-patula, ovato-lanceolata, acuta, nervo crasso fusco percursa, superiora longiora, pungentia, acuta, subintegerrima vel denticulata; cellulis hexagonis interstitiis fuscis pellucidis. Seta uncialis et paulo altior, erecta, badia, apice inclinata. Theca oblongo-pyriformis, nutans, operculo umbonato, breve apiculato; peristomii dentibus externis apice incurvis, lanceolatis, lutescentibus, basi dense, apice remote rubente trabeculatis, subula subhyalina apiculatis, linea verticali nulla, interna membrana tenera, cruribus brevibus carinatis ciliis capillaribus binis interjectis.

Prope Apiahy, Febr. 1879: Puiggari (449).

Ex habitu *Bryi Sandii* Dzy & Mlk., cum peristomio *Br. apiculati* et *Br. subapiculati* Hpe. (1872), a priore caule multo breviore et rigidiore et seta longiore primo visu discernendum, a posteriore caule multo breviore et theca fuscata ore apertolaevi, nec sub ore contracta, sanguinea, reticulata, opaca.

66. *Bryum Pabstianum* C. Müll. — Prope Apiahy, Aprili—Septembr. 1879: Puiggari (4).

67. *Bryum dentiferum* Hpe., *β. brevicaule*. — Prope Apiahy: Puiggari (647).

Mniaceae.

68. *Mnium rostratum* Schrad., *β. americanum*. — Prope Apiahy: Puiggari.

69. *Hymenodon aeruginosus* C. Müll. — Prope Apiahy, ad truncos arborum, Majo—Septembr. 1879, c. fruct. junior.: Puiggari.

Polytrichaceae.

70. *Catharinea (Oligotrichum) Riedeliana* Hpe., var. *gracilis*. — In vicinia Rio de Janeiro: Glaziou (11748).

71. *Catharinea (Polytrichadelphus) semiangulata* Brid. — Prope Apiahy: Puiggari (289, 290, 413).

72. *Polytrichum (Eupolytrichum) Paulense* Geheeb & Hpe. n. sp.

Caulis biuncialis, strictus. Folia versus apicem accrescendo longiora, sicca accumbentia, humida erecto-patula e basi vagi-

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nante elongate parallelogrammica anguste lineari-reticulata, hyalina, cellulis superioribus abbreviatis in quadrato-polygonas latius marginatas pellucidas transeuntibus, summo latere cellulis vermicularibus dense aggregatis, transverse seriatis, chlorophyllocinctis, picta; lamina canaliculata lineari-lanceolata, nervo lamellato prorsus obducta, apice aristata sursum dentibus brevibus pellucidis asperata; perichaetialia longius vaginantia, erecta, longe subulato-aristata, dorso et latere spinuloso-scaberrima, interiora longiora, accumbentia, capillaceo-aristata, spinuloso-scabra, nervo lamellato-diaphano striato, latere cellulis parvis transversis hyalinis marginata. Seta aurantiaca, demum ruberrima, caulem parce superans, adscendens. Theca tetraëdra erecta oblonga, ferruginea, apophysi circulari, operculo umbonato ruberrimo, subula basi compressa pallida recta coronato, peristomii dentibus minimis lingulatis, obtusis, incurvis, pallidis, fere ad basin liberis, medio diaphano-striatis. Calyptra longissima (8‴ longa), pallide aurantiaca.

Prope A p i a h y, mense Junii 1879 legit P u i g g a r i (285, 908).

Variat caule breviore angustiore, foliis brevioribus et remotioribus, seta caulem duplo superante.

A *Polytricho aristifloro* Mitt. proximo differt: foliis apice aculeato-asperis, cellulis in vagina superne intra limbum marginalem angulatis, nec ovalibus, theca erecta, operculo subula basi compressa erecta prominente coronato, nec breviter curvirostro.

73. *Polytrichum (Eupolytrichum) subremotifolium* Geheeb & Hpe. n. sp.

Elatum, usque pedale. Caulis e basi radiciforme villosa, adscendens, filiforme angulato-sulcatus parce foliatus, sensim superne modice foliatus. Folia caulina sicca subappressa, humida remota, e basi latiore vaginante erecta, recurvato-patentia canaliculato-lanceolato-subulata, margine e dorso serrulata, vagina tenera cellulis linearibus versus apicem sensim brevioribus reticulata, latere limpidis, medio luteis, infra laminam summo latere cellulis parvis catenulatis purpurascentibus transverse seriatis; lamina dense lamellosa fere tota opaca, latere margine angusto parce diaphano, cellulis angulato-rotundatis reticulato, dentibus spiniformibus brevibus lutescentibus remote armata, apice folii densioribus, summitate folii subulato-attenuata dentibus brevioribus limpidis scabra; perichaetialia parce minora, linearia, fere tota hyalina, cellulis linearibus reticulata; nervo apice plus minusve incrassato excedente subulata, denticulata;

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folia intima tota hyalina, nervo angusto evanido, apice denticulata. Seta rubens, 2—3-pollicaris. Theca leptoderma cubica rubra, apophysi intense rubra, concava; operculo planiusculo aurescente radiato-plicato, apiculo brevi sulcato erecto coronato; peristomii dentibus parvis obtusis (64) flavidis, liberis, distantibus. Calyptra brevis, apice parce aurantiaca, basi albida, capillacea, lobata.

Prope Apiahy, Majo 1879: Puiggari; prope Faxina sterile: Louis Puiggari.

Polytricho remotifolio proximum, sed elatius, folia humida longiora patente recurva, lamina tota fere nervo obtecta, theca cubica leptoderma demum horizontalis, calyptra basi lobata, albescens, brevior.

74. *Polytrichum (Eupolytrichum) assimile* Hpe. n. sp.

Caulis pedalis, e basi angulato-filari foliis adpressis loricatus, sensim accrescendo anguste clavatus, dense foliatus, concolor, fuscatus. Folia caulina inferiora erecto-patentia, superiora apice recurva, e basi vaginante cuneato-oblonga, canaliculata, lanceolata, attenuato-apiculata, semipollicaria, nervo laminam totam occupante, opaca, laminae latere remote adpresso-denticulata, apice dorso creberrime subserrulata; cellulis vaginae inferioribus et nervi latere latioribus anguste rectangulis vel late parallelogrammicis, ad margines angustioribus, linearibus, laevioribus, limpide coloratis, vagina sub lamina luteo-coloratis; perichaetialia exteriora longe vaginantia erecta, fere uncialia, nitentia, hyalina, late lanceolata, elongata, integerrima, nervo deplanato percursa apice condensato aristata, intima angustiora, linearia elongata, nervo angusto striato pellucido percursa, capillacea, apice parcius serrulata. Seta rubra biuncialis, erecta nitens. Theca subleptoderma rectangula tetraëdra, obscure cuprea, apophysi orbiculari sanguinea; operculo prominente rubro intus concavo apiculato, apiculo pallido basi sulcato parce exserto, peristomii dentibus (64) brevibus obtusis niveis striatis incurvis, reticulo cellulari albido basi connexis. Calyptra thecam longe superans, pallide aurantiaca.

Prope Rio de Janeiro: Glaziou (11729).

Polytricho communi proximum, sed robustius vel crassius, foliis minus dentatis densioribus et longioribus, apophysi magis remota, operculo pallide apiculato, apiculo basi sulcato, dentibus peristomii basi reticulo cellulari connexis.

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Fontinalaceae.

75. *Hydropogon brevinerve* Hpe. n sp.

Monoicum. Caulis fluitans, ramosus, basi ramis gracilibus ramulosis distantibus brevibus foliis destitutis plus minusve obtectis, superne ramis clavatis dense foliatis fusco-viridibus apicibus saepe breve ramulosis. Folia dense imbricata, inferiora angustiora oblongo-lanceolata acuta, versus apicem denticulata, subenervia, cellulis chlorophyllo-cinctis parallelogrammicis, basilaribus paulo latioribus magis perspicuis; comalia latiora, oblongo-ovata, acuminata, denticulata, indistincte nervosa, nervo cellulis approximatis brevi constructo, vel obsolete enervia; folia perichaetialia thecam superantia arcte inclusa, lanceolata acuminata subintegerrima, enervia; cellulis parallelogrammicis minus chlorophylloso-cinctis perspicuis. Theca parva, obovata, peristomii simplicis dentibus obtusis, brevibus, trabeculatis, incurvis, operculo convexo. Androecium parvum, foliis parvis obtusis acuminatis concavis integerrimis enervibus, cellulis parvis ellipticis acutis pellucidis, antheridia lutea laxe includentibus.

In vicinia Rio de Janeiro, in aquis (Glaziou (10217).

Ab *Hydropog. fontinaloide* Brid. differt: ramis crassioribus, foliis comalibus latioribus acuminatis indistincte nervosis, foliis perichaetialibus lanceolatis acuminatis.

Neckeraceae.

76. *Phyllogonium viride* Brid. — Prope Apiahy, sterile: Puiggari; Rio de Janeiro, parce fructiferum: Glaziou.

Neckera.

a. Paraphysanthus.

77. *Neckera disticha* Hdw. — Prope Iporanga: Puiggari (925).

78. *Neckera Pabstiana* C. Müll. (Botan. Zeitung, 1855). — Prope Apiahy: Puiggari (535, 536); prope Iporanga: Puiggari (927), ubique c. fructib. perfectis.

b. Rhystophyllum.

79. *Neckera subacutifolia* Geheeb & Hpe. n. sp.

Dioica? Caulis secundarius complanatus usque triquetralis, distiche pinnatus, pinnis inaequalibus distichis aureo-splenden-

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tibus, dense foliatis, obtusiusculis. Folia omnia transverse impresso undulata, caulina dense imbricata, e basi excavata subauriculata uno latere plus minusve inflexo cymbiformi-caviuscula, late lingulata ovato-lanceolata breviter acuminata, acuta, integerrima, nervo unico flavido usque ultra medium folii producto; cellulis alaribus rhombiformibus fusco-cinctis diaphanis, sequentibus dense aggregatis breviter parallelogrammicis diaphanis, ultimis subconflatis; ramorum folia minora, saepe basi contracta, in caeteris caulinis simillima. Flos femineus parvus, foliis ovato-lanceolatis acuminatis apice recurvis integerrimis, enervibus, subhyalinis, archegonia fuscata inclusis, paraphysibus nullis. Caetera desunt.

Prope Apiahy, Julio 1879: Puiggari (441a, 973). — Fructus desideratur!

80. *Neckera caldensis* Lindb., var. *Paulensis* Geheeb & Hpe.

Monoica. Surculus radiculosus. Caulis secundarius 2—3″ elongatus, complanatus, distiche pinnatus, pinnis lutescentibus adscendentibus patulis 5—8‴ longis, novellis complanatis obtusis dense foliatis, flavescentibus. Folia caulina asymmetrica, dense imbricata, profunde transverse undulata, plus minusve obliqua, oblonge lingulata longiora subacuta subintegerrima, nervo furcato inaequali brevi lutescente, vel indistincto; cellulis e basi ad apicem folii parallelogrammicis, in acumine ellipticis, fere ovalibus, omnibus diaphanis laevibus; folia novella ramorum pallide flavescentia nitida breviora, uno latere inflexo caviuscula, e basi parce latiore late lingulata evidenter transverse impresso-plicata, acumine brevi acutato muriculato-denticulata; nervis binis parallelis brevibus pallidis, saepe inaequalibus, vel simplici vel obsoletis; cellulis minus diaphanis parallelogrammicis, in acumine anguste ellipticis acutis; perichaetialia vaginantia, externa breviora ovata, subito subulato-aristata, interiora oblonga apice emarginato subito loriforme elongata, integerrima. Theca deoperculata immersa, breviseta, parva, ovalis, flavo-viridis; peristomii dentibus externis lanceolatis erectis elongatis, leniter trabeculatis, linea media notatis pallidis, internis ciliis setaceis elongatis, dentibus subaequantibus. Operculum calyptraque desunt.

Prope Apiahy, Februar. 1879, specimina vetusta legit Puiggari.

81. *Neckera Puiggarii* Geheeb & Hpe.

Descriptioni in Enumeratione muscorum p. 40 adde:

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Operculum conico-rostratum, pallidum; peristomium duplex, dentibus exterioribus lanceolatis annulato-trabeculatis lutescentibus, apice nodulosis, interioribus ciliis subulato-setaceis articulatis.

(Fortsetzung folgt.)

Beiträge zur orientalischen Flora.

Von **Hermann Dingler.**

Astragalus ictericus n. sp. Sect. *Myobroma* Bunge.

Perennis, caulescens, longe et patule albo-hirsutus pilis simplicibus basifixis, rhizomate pluricipite, caule adscendente, foliis longis 9—13 jugis, petiolo crasso rhachide quinquies breviore, cacum dense hirsuto, stipulis membranaceis e basi ovata lanceolatis, ciliatis, liberis vel vix basi petiolo adnatis, foliolis majusculis late cordato-ovatis, obtusis vel subacuminatis, mucronulatis, superne glabris subtus nervo mediano hirsutis, margine dense et longe ciliatis, racemis axillaribus longiuscule pedunculatis laxe 6—13 floris, folio tertia parte brevioribus, pedunculo racemum plerumque duplo superante, bracteis lanceolato-linearibus, longe ciliatis, calycis tubum dimidium subaequantibus vel superantibus pedicellisque triplo longioribus, prophyllis nullis, floribus longiusculis, angustis, rectis, flavescentibus, calycis dentibus lineari-subulatis longe ciliatis tubum patule hirsutum subaequantibus, vexilli lamina recta, calyce subduplo longiore, oblonga, emarginata, basi in unguem coarctato-angustata, glabra, parte laterali tandem reflexa, alarum vexillo quarta parte breviorum carinam paulo superantium lamina basi auriculata, oblonga, ovario sub 12-ovulato breviter stipitato, densissime et longe hirsuto, stylo glabro, legumine —?

Hab. in declivitate meridionali Rhodopes prope pagum Kosluköi Thraciae inter virgulta alt. 1200′.

Wenige Exemplare, gesammelt am 3. Mai 1876. Blüthen weissgelb, öfter etwas schmutzig überlaufen, 0,028 m. lang, Platte der Fahne 0,018 m. l. und 0,0065—0,007 m. br., Flügel 0,021—0,022 m. l., Platte 0,011 m. l. und 0,003 m. br., Kiel 0,020—0,021 m. l., Platte 0,01 m. l. und 0,0035 m. br. (die Längen alle von der Basis des Kelches an gerechnet), Kelch-

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Digitale Literatur/Digital Literature

Zeitschrift/Journal: Flora oder Allgemeine Botanische Zeitung

Jahr/Year: 1881

Band/Volume: 64

Autor(en)/Author(s): Geheeb Adalbert

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