

ciaque obtegente. Sporothecia subglobosa, marginalia, discreta, deinde confluentia. Indusium non vidimus. — Messina. (Tin.) Mart. — Mai.

Die Isoëtes sioula Tod. dürfte von I. hytrix kaum verschieden sein und Cheilanthes Timiae stimmt genau mit Ch. hispanica Mett. Mild e.

Diagnosen zu Russow's Arbeit über die Torfmoose.  
p. 46. *Sphagnum Girgensohnii* n. sp.

Plantae robustiores, strictae, semipedales et ultra humilioresve, plerumque caespites laxos unicolores vel parte inferiore pallidiores efficientes vel flavo-vel saturate virides vel stramineos. Caulis simplex vel innovatione bifidus, strictus, robustus, albidus, estrato corticali triplici et quadruplici, valde poroso, strato ligneo pallido. Ramuli 3—5, quorum 2—3 expansi flagelliformes, valde attenuati, arcuato-deflexi, longissimi; ceteri deflexi, filiformes, perlongi, cauli adpressi, corticis cellulæ lagenaeformes, elongatae, apice pertuso, leniter incurvae. Folia caulinæ majuscula erecta, cauli adpressa, ligulato-spathulata, apice truncata eroso-laciniata, marginata, minutissime auri-culata. Cellulæ hyalinae partis superioris rhombeæ, mediae baseos rhomboideæ, poris atque fibrillis omnino carentes; laterales partis inferioris perangustæ et cum cellulis chlorophyllosis marginem latissimum efficientes. Folia ramulina erecto-patentia, basilaria parva, ovata, media ex ovato lanceolata et lanceolato-subulata. Cellulæ hyalinae fibris annularibus et spiralibus confertæ, poris numerosissimis, inferiores extus magis quam intus convexæ; cellulæ chlorophyllosæ trigono compressæ. Flores dioeci? Amentula mascula crassiuscula, ochracca vel ferrugineo-fuscescentia; perigynia ignota.

Fructus in capitulo vel in superiore caulis parte sparsi; perichaetium pallide viride, folia perichaetialis inferiora ovato-acuminata, plerumque solum e cellulis chlorophyllosis efformata; superiora obovato-oblonga, apice emarginata, obtuse apiculata, convoluta, superiore parte e cellulis chlorophyllosis et hyalinis effibrosis et aprosis, inferiore e cellulis chlorophyllosis efformata. Capsula globosa, magna, atro-brunnea, pseudopodio exserta.

β) strictum; ramulis flagelliformibus brevibus, fusiformibus, erectopatentibus, foliis caulinis brevioribus et latioribus. Plantae brunneo-vel flavo-virides; caespites densiores laxioresve efformantes.

γ) squarrosulum; plantae minimae, foliis ramulinis apice recurvis.

P. 66. *Sphagnum Wulfianum* Girgensohn.

Plantae robustiores, strictae, semipedales et ultra vel humiliores, laxe caespitosae pallide brunneo-virides, virides vel saturate-virides. Caulis simplex vel 2—4 partitus, strictus, solidus, ligneus, rufo-fuscus, dense ramulosus, strato corticali dupli e cellulis minoribus formato. Ramuli 7—13, quorum 3—5 expansi, breves, subarcuati, clavati, subito in apicem tenuissimum producti; caeteri deflexi, cauli arcte adpressi eumque omnino obvelantes, longissimi, tenuissimi, filiformes, plerumque purpurascentes; corticis cellulæ porigerae a ceteris vix distinctæ. Folia caulinæ minima, ovato-triangularia, reflexa, cellulæ hyalinis pluripartitis, nec fibrosis, nec porosis, intermediis rhomboideis ad marginem sensim angustatis eaque causa vix marginata, auriculis vix distinctis ornata. Folia ramulina basilaria ovato-lanceolata minuta, arcte imbricata, media ex ovato elongato lanceolata, erecto-patentia vel patulo-reflexa, apice truncatulo dentata, terminalia anguste lanceolata et lanceolato-subulata, omnia margine hyalino e dupli cellularum serie efformato. Cellulæ hyalinæ fibris annularibus et semiannularibus, superioris partis poris minutissimis instructæ, inferioris partis laterales poris permagnis, mediae poris plerumque destitutæ. Cellulæ chlorophyllosæ compressæ, in superiore folii parte undique inclusæ, in inferiore ad folii latus externum et internum conspicuæ.

Fructus plerumque omnes in capitulo aggregati; perichaetium stramineo-rubellum, folia perichaetialis inferiora ovato-acuminata, concava, apice recurvo, cellulæ hyalinis perangustis, superiora elongato-oblonga, apice leviter emarginato, subrecurvo convoluta, cellulæ hyalinis aporosis et effibrosis, chlorophyllosis, latissimis. Capsula globosa, atro-brunnea; sporæ luteæ.

Flores monoeci; masculi in summo apice ramulorum horizontalium, purpurascentes vel purpureæ; perigynia numerosa, archegonia 3—4 in cludentia.

$\beta$ ) squarrulosum; folia ramulorum horizontalium, basilaribus apicalibusque exceptis, squarrosa, cellulæ hyalinis plus porosis.

$\beta$ .  $\gamma$ . congestum; colore pullide viridi, ramulorum fasciculis valde condensatis.

$\beta$ .  $\delta$ . remotum; plantæ saturate virides, ramulorum fasciculis remotis, ramulis longioribus arcuatis.

Syn. *S. pycnoclodon* Angstr. msc. Rabenh. Bryoth. europ. fasc. XV. 709.

J. Milde.

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