

# Recent literature on the botany of Iceland V.

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This literature list is a direct continuation of the lists published in the previous volumes of this journal. It contains articles with original information on the botany of Iceland, which have appeared after the last list was prepared, or were otherwise missing in the previous lists.

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## PROCARYOTA

- BINDER, A. 1973. Isolierung und Charakterisierung des C-Phycocyanins aus der Thermophilen Blaualge *Mastigocladus laminosus*. (Isolation and characterization of C-Phycocyan from the thermophilic cyanophyte *Mastigocladus laminosus*). Dissertation, Zürich, 95 pp.
- BINDER, A., P. LOCHER & H. ZUBER. 1972. Über Lebensbedingungen und Freilandkultur des thermobionten Kosmopoliten *Mastigocladus laminosus* Cohn (Cyanophyta) in heissen Quellen Islands. (On the life conditions and field cultivation of the thermobiotic cosmopolite *Mastigocladus laminosus* Cohn in the hot springs of Iceland). Arch. Hydrobiol. 70: 541-555.
- BINDER, A., K. WILSON & H. ZUBER. 1972. C-Phycocyan from the thermophilic blue-green alga *Mastigocladus laminosus*; isolation, characterization and subunit composition. FEBS-Letters 20: 111-116.
- CASTENHOLZ, R.W. 1973. The possible photosynthetic use of sulfide by the filamentous phototrophic bacteria of hot springs. Limnology and Oceanography 18: 863-876. (Several species from Iceland included).
- CASTENHOLZ, R.W. 1976. The effect of sulfide on the bluegreen algae of hot springs. I. New Zealand and Iceland. J. Phycol. 12: 54-68.
- DOBLER, M., S.D. DOVER, K. LAVES, A. BINDER & H. ZUBER. 1972. Crystallization and preliminary crystal data of C-phycocyanin. J. Mol. Biol. 71: 785-787. (In thermophilic cyanophytes from Iceland).

- FRANK, G., W. SIDLER, H. WILMER & H. ZUBER. 1978. The complete amino acid sequence of both subunits of C-Phycocyan from the Cyanobacterium *Mastigocladus laminosus*. Hoppe Seyler's Z. Physiol. Chem. 359: 1491-1507. (Icelandic material included).
- GYSI, J. & H. ZUBER. 1974. Isolation and characterization of allophycocyanin II from the thermophilic blue-green alga *Mastigocladus laminosus* Cohn FEBS-Letters 48: 209-213. (Material from Suður-Reykir, Mosfellssveit, Iceland).
- GYSI, J. & H. ZUBER. 1976. Allophycocyanin I — a second cyanobacterial allophycocyanin? Isolation, characterization and comparison with allophycocyanin II from the same alga. FEBS-Letters 68: 49-54. (In *Mastigocladus laminosus* cells from Suður-Reykir, Mosfellssveit, Iceland).
- HALLGRÍMSSON, HELGI. 1979. Bakteríur (Bacteria) / Bláþörungur (Cyanophyta). In Veröldin í vatninu (The life of the fresh water), p.47-58. Bókagerðin Askur, Rvík. (A short general survey of Icelandic fresh water bacteria and cyanophytes).
- HONEGGER, R. 1980. Zytologie der Blaualgen-Hornmoos-Symbiose bei *Anthoceros laevis* aus Island. (The Cytology of the cyanophyte-hornwort-symbiosis by *Anthoceros laevis* from Iceland). Flora 170: 290-302.
- HUSS, H.H. 1980. Distribution of *Clostridium botulinum*. Appl. Environm. Microbiol. 39: 764-769. (Natural environments of Denmark, Faroe Islands, Iceland, Greenland and Bangladesh were tested and compared).
- TOSHIHARU, H., S. WAKABAGASHI, H. MATSUBARU, K. KRISHNA RAO, D.O. HALL, H. WILMER, J. GYSI & H. ZUBER. 1978. The amino acid sequence of ferredoxin from the alga *Mastigocladus laminosus*. Phytochemistry 17: 1863-1869. (Samples obtained from Suður-Reykir, Mosfellssveit, Iceland).
- WIDMER, H. 1980. Sequenzanalytische Studien an C-Phycocyanin sowie Isolierung und Charakterisierung von Phycoerythrocyanin aus dem Cyanobakterium *Mastigocladus laminosus*. (Sequence analytic studies on C-phycocyanin, and isolation and characterization of phycoerythrocyanin from the cyanobacterium *Mastigocladus laminosus*). Z. Physiol. Chem. 359: 1491-1507. (Material from Suður-Reykir, Mosfellssveit, Iceland).
- ZUBER, H. 1978. Studies on the structure of the light-harvesting pigment-protein-complexes from Cyanobacteria and red algae. Ber. Deutsch. Bot. Ges. 91: 459-475. (*Mastigocladus laminosus* collected in hot spring area in Iceland is included in the study).
- ZUBER, H. 1979. Thermophile Bakterien. (Thermophilic bacteria). Chemie in unserer Zeit 13: 165-175.

## ALGAE

- ADALSTEINSSON, HÁKON. 1978. Plöntur og dýralíf í vötnum á Auðkúluheiði. (Plants and animals in lakes in Auðkúluheiði). Orkustofnun, raforkudeild 7806, 113 pp.
- ADALSTEINSSON, HÁKON. 1979. Fljótsdalsheiði: Frumkönnun á lífvist straumvatna í veitukerfi Bessastaðavirkjunar. (Fljótsdalsheiði, preliminary investigations on the life in streams of the Bessastaðavirkjun reservoir system) Orkustofnun, raforkudeild 79004, 19 pp.

- ADALSTEINSSON, HÁKON. 1980. Lífvist í tjörnum og smávötnum á Vesturöræfum, Eyjabökkum og Múla. (Plankton in tarns and small lakes on the Highland Plateau of eastern Iceland). Orkustofnun, raforkudeild 80008, 50 pp.
- BROADY, P.A. 1979. The terrestrial algae of Glerárdalur, Akureyri, Iceland. Acta Bot. Isl. 5: 3-60. (Descriptions and drawings are given of 174 taxa of aerial algae, mostly from high altitudes (600-1300m), and two new varieties are described).
- CALKINS, J. & ÞÓRUNN ÞÓRÞARDÓTTIR 1980. The ecological significance of solar UV-radiation on aquatic organisms. Nature 283: 563-566.
- GUNNARSSON, KARL. 1979. Botnþörungur á innanverðum Eyjafirði. (A survey of benthic algae in the inner part of Eyjafjörður, N-Iceland). Náttúrugripasafnið á Akureyri, Fjölrit 8, 39 pp.
- GUNNARSSON, KARL. 1980. Rannsóknir á hrossapara (*Laminaria digitata*) á Breiðafirði. (Investigations on *Laminaria digitata* in Breiðafjörður, W.-Iceland). Hafrannsóknastofnunin Fjölrit 6, 17 pp.
- GUNNARSSON, KARL & KONRÁÐ ÞÓRISSON. 1979. Nýjung í sæflóru Íslands: *Harveyella mirabilis*. (The presence of *Harveyella mirabilis* in Iceland. Náttfr. 48: 157-161.
- GUNNARSSON, KARL & KONRÁÐ ÞÓRISSON. 1979. Stórþari í Breiðafirði. (Macrophytes in Breiðafjörður, W.-Iceland). Hafrannsóknastofnunin Fjölrit 5, 53 pp.
- HALLGRÍMSSON, HELGI. 1979. Veröldin í vatninu (The life in fresh water). Bóka-gerðin Askur, Rvík. 215 pp. (A general account of the fresh water life in Iceland, with chapters on Euglenophyta, Pyrrophyta, Chrysophyta, Bacillariophyta, Chlorophyta, Charophyta and Rhodophyta).
- JONASSON, PÉTUR M. & HÁKON ADALSTEINSSON. 1979. Phytoplankton production in shallow eutrophic Lake Mývatn, Iceland. Oikos 32: 113-138.
- JÓNASSON, PÉTUR M. 1979. The Lake Mývatn ecosystem, Iceland. Oikos 32: 289-305. (Includes information on phytoplankton and phytobenthos production).
- JÓNSSON, SIGURÐUR. 1980. Le cycle de développement de *Bryopsis plumosa* (Hudson) C.Agardh (Chlorophyta) d'Islande, en culture: un cycle monogénétique dans la population nord-atlantique. (The life cycle of *Bryopsis plumosa* (Hudson) C.Agardh (Chlorophyta) from Iceland in culture: a monogenetic cycle in North-Atlantic population). Cryptogamie: Algologie, I(1): 51-60.
- JÓNSSON, SIGURÐUR. 1980. Quelques effets d'éclairement sur la phase post-inductrice de la gamétogenèse chez l'*Enteromorpha prolifera* Chlorophycée marine. (Several effects of illumination on the postinductive phase of gametogenesis in *Enteromorpha prolifera*, a marine Chlorophyceae). Algologie, I(1): 249-256.
- MUNDA, I.M. 1976. Historical survey of main phycological activities in Iceland. Nova Hedwigia 28: 231-240.
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- SPERLING, J.A. & BLUM, J.L. 1970. Early winter diatom communities in Iceland. Nova Hedwigia 21: 567-578.
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- ÞÓRÐARDÓTTIR, ÞÓRUNN & UNNSTEINN STEFÁNSSON. 1977. Productivity in relation to environmental variables in the Faxaflói Region 1966-1967. ICES C.M. 1977/L: 34.

## FUNGI

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- HALLGRÍMSSON, HELGI. 1979. Sveppir (Fungi). In Veröldin í vatninu (the life in the water), p. 93-94. Bókagerðin Askur, Reykjavík. (A short survey of freshwater fungi).
- HALLGRÍMSSON, HELGI. 1979. Fáein orð um sveppi á Vestfjörðum. (A few words on mushrooms in the Vestfirðir Peninsula). Kaldbakur 6-7: 34-39.
- HARMAJA, H. 1979. Studies on cupulate species of *Helvella*. Karstenia 19: 33-45. (Information on *Helvella hyperborea* in Iceland).
- HOLM, L. 1979. Microfungi on *Dryas*. Bot. not. 132: 77-92. (*Allophylaria dryadis*, *Gnomontella vagans*, *Pseudomassaria islandica*, *Epipolaeum absconditum*, and *Mycosphaerella octopetalae* are mentioned from Iceland).
- HOLM, L. & K. HOLM. 1980. Microfungi on *Cassiope (Harrimanella) hypnoides*. Norw. J. Bot. 27: 179-184. (*Encoeliopsis rhododendri* (Ces. ex Rbh.) Nannf. var. *harrimaniellae* L. & K. Holm nov. var., recorded from Iceland).
- JEPPSON, M. 1979. Tveir belgsveppir fundnir á Íslandi. (Two species of Gasteromycetes new to Iceland). Náttfr. 49: 41-45. (*Bovista cretacea* and *Nidularia faretta* are recorded as new to Iceland).
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MILLER, O.K., H.H. BURDSALL, G.A. LAURSEN & I.B. SACHS. 1980. The status of *Calvatia cretacea* in arctic and alpine tundra. *Canad. J. Bot.* 58: 2533-2542. (Includes specimens from Iceland).

SMITH, J.D. 1980. *Didymella festucae* and *Phleospora idahoensis* on *Festuca rubra* in Southwest Iceland. *Res. Inst. Neðri Ás Bull.* 32: 1-12.

#### LICHENS

AHTI, T. 1980. Taxonomic revision of *Cladonia gracilis* and its allies. *Ann. Bot. Fenn.* 17: 195-243. (Records of *C. macroceras* (Delise) Ahti and *C. gracilis* ssp. *nigripes* (Nyl.) Ahti from Iceland).

ESSLINGER, T.L. 1977. A chemosystematic revision of the brown *Parmeliae*. *J. Hattori Bot. Lab.* 42: 1-211. (Includes records from Iceland).

KÄRNEFELT, I. 1979. The brown fruticose species of *Cetraria*. *Opera Botanica* 46: 150 pp. (The revision includes some Icelandic material of the taxa *Cetraria delisei* (Bory ex Schaer.) Nyl., *C. ericetorum* Opiz. and *C. islandica* (L.) Ach. ssp. *islandica* and ssp. *crispiformis* (Räs.) Kärnef.).

LAMB, I.M. 1977. A conspectus of the lichen genus *Stereocaulon* (Schreb.) Hoffm. *J. Hattori Bot. Lab.* 43: 191-355. (Of the 123 species treated, 11 are reported from Iceland, with a description of *Stereocaulon uliginosum* Lamb nov. spec.).

SEYD, E.L. 1979. Evolution and distribution of *Calyptozetes sarekensis* (Acari, Oribatei). *Biol. J. Linn. Soc.* 12: 1-18. (This species is found predominantly in lichens, and the article includes collection from Iceland).

#### BRYOPHYTES

BRASSARD, G.R. 1979. The moss genus *Timmia*. I. Introduction and revision of *T. norvegica* and allied taxa. *Lindbergia* 5: 39-53. (Icelandic specimens included).

BREMER, B. 1980. A taxonomic revision of *Schistidium* (Grimmiaceae, Bryophyta) I. *Lindbergia* 6: 1-16. (Includes specimens of *Schistidium rivulare* and *S. maritimum* from Iceland).

HALLGRÍMSSON, HELGI. 1979. Mosar. (Bryophyta). In *Veröldin í vatninu* (The world of the water), p. 96-99. Bókagerðin Askur, Reykjavík. (A general survey of mosses in ponds and streams in Iceland)

HONEGGER, R. 1980. Zytologie der Blaualgen-Hornmoos-Symbiose bei *Anthoceros laevis* aus Island. (The cytology of the cyanophyte-hornwort-symbiosis by *Anthoceros laevis* from Iceland). *Flora* 170: 290-302.

HORTON, D.G. 1981. *Encalypta brevipes* and *E. brevicolla*: New records from North America, Iceland, Great Britain and Europe. *J. Biol.* 11: 209-212.

#### TRACHEOPHYTES, ECOLOGY AND MISCELLANEOUS PAPERS

ÞDALSTEINSSON, HÁKON. 1978. Plöntur og dýralíf í vötnum á Auðkúluheiði. (Plants and animals in lakes in Auðkúluheiði). *Orkustofnun, raforkudeild* 7806, 113 pp.

- ARNALDS, ANDRÉS, INGVI ÞORSTEINSSON & JÓNATAN HERMANNSSON 1980. Tilraunir með áburð á úthaga 1967-1979. (Fertilization experiments on rangeland 1967-1979). RALA Fjölrit 58: 134 pp.
- BJARNASON, ÁGÚST H. 1979. Beit og gróður (Grazing and vegetation). Ársrit Skógrfél. Ísl. 1979: 40-47. (On successive stages in the Icelandic vegetation as result of grazing).
- BJARNASON, ÁGÚST H. 1980. The History of Woodland in Fnjóskadalur. Acta Phytogeogr. Suec. 68: 31-42.
- BJÖRNSSON, SIGURÐUR. 1979. Gróðurfur í Örfasveit (The vegetation in Örfasveit District, SE-Iceland). Árbók Ferðafél. Ísl. 52: 22-23. (A short general description of the vegetation and the characteristic species is given in a geographical treatment of the area).
- BOCK, C. 1980. Contribution à la connaissance taxonomique du *Silene acaulis* (L.) Jacq.: les graines et leur germination. (Contribution to the taxonomy of *Silene acaulis* (L.) Jacq.: the seeds and their germination). Candollea 35: 541-564.
- BÖTTCHER, H. 1979. Zur Entstehungsgeschichte Isländischer Grünlandgesellschaften. (Contribution to the origin of Icelandic grassland communities). In: Werden und Vergehen von Pflanzengesellschaften. Ber. Internat. Sympos. Internat. Verein. Vegetationskunde, Rinteln 1978: 469-482.
- BÖTTCHER, H. 1980. Der anthropogene Einfluss auf die nachhaltige Nutzungsfähigkeit isländischer Rasengesellschaften unter den klimatischen, edaphischen und historischen Gegebenheiten. (The impact of man on the durability of the utilization of Icelandic grassland communities by the present climatic, edaphic and historic conditions). Verhandlungen der Gesellschaft für Chorologie 7.
- CONCHMAN, J.R. 1977. A collection of aphid parasites and hyperparasites (Hym.) from Iceland. Norw. J. Entomol. 24: 121-124. (Twelve species of aphid parasites and hyperparasites are reported from various host plants in Iceland).
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- EINARSSON, EYDÓR. 1979. Grímstorfa. Ársrit Skógrfél. Ísl. 1979: 9-12. (Description of the vegetation in a small area with natural protection by cliffsides).
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- FAGERSTRÖM, L. & KVIST G. 1981. Sifjarsóley. (*Ranunculus auricomus* L. ssp. (ap.) *islandicus*, nova ssp.). Náttfr. 50: 139-143.

- FRÍÐRIKSDÓTTIR, SIGRÍÐUR 1979. Fundarstaðir surtarbrands og annarra plöntuleifa. (Localities of lignites and other plant remains in Iceland). Náttfr. 48: 142-156. (A list of all known localities for fossil plant remains in Iceland).
- GEIRSSON, ÓTTAR & MAGNÚS ÓSKARSSON. 1979. Áhrif dráttarvélaumferðar á jarðveg og gróður. (Effects of tractor traffic on soil and vegetations). J. Agr. Res. Icel. 11: 55-79.
- GUBFINNSSON, GESTUR. 1980. Gróðurathuganir og flóru-listi í Þórisdal. (Floristic observations in Þórisdalur). Árbók Ferðafél. Ísl. 53: 152-153. (Includes a list of 26 plant species in a remote valley in the Central Highlands, bordered by glaciers).
- GUBMUNDSSON, BJÖRN & ÞORSTEINN ÞORSTEINSSON. 1979. Kóbolt í íslensku grasi. (Cobalt content of grass in Iceland). J. Agr. Res. Icel. 11: 33-39.
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- HERMANNSSON, JÓNATAN, ANDRÉS ARNALDS & INGVI ÞORSTEINSSON. 1981. Áhrif áburðar á gróðurfar úthaga. (Effects of fertilization on rangeland vegetation in Iceland). Náttfr. 50: 99-107.
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- KRISTINSSON, HÖRÐUR. 1979. Recent literature on the botany of Iceland IV. Acta Bot. Isl. 5: 63-70.
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- KRISTINSSON, HÖRÐUR. 1981. Vorstór (*Carex caryophyllaea* Latourr) fundin á Íslandi. (Spring sedge, *C. caryophyllaea* Lat. found in Iceland. Náttfr. 50: 118-20).
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- MAGNÚSSON, GUBBRANDUR. 1979. Reitakerfið nýja og flórurannsóknir Íslands til ársins 1977. (The new grid system and botanical mapping of Iceland until 1977). Týli 8: 55-62.
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- uðum virkjunarstöðum á vatnasvæði Tungnaár. (The vegetation in the area of the proposed hydroelectric project of the Tungnaá water system). Orkustofnun, raforkudeild 81/01: 15 pp.
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- SCHWAAR, J. 1979. Torfbildende Pflanzengesellschaften in einem Quellmoor. (Peat forming plant communities in a spring-moor). Thelma 9: 53-61. (Comparison is made to Icelandic plant associations).
- SCHWAAR, J. 1979. Die Vegetation der feuerländischen Hochmoore. (The vegetation of the mires of Tierra del Fuego, Argentina). Amazoniana 6(4):129-152. (Comparison is made to Icelandic vegetation).
- SCHWAAR, J. 1979. Spät- und postglaziale Pflanzengesellschaften im Dümmer-Gebiet. Abh. Naturw. Verein Bremen 39: 129-152. (Comparison is made to Icelandic plant associations).
- SCHWAAR, J. 1980. Bipolare Pflanzensippen in den Mooren Feuerlands. (Bipolar plants in the moors of Tierra del Fuego). Thelma 10:25-31.
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- SNÆBJÖRNSSON, ÁRNI. 1980. Jarðvegur og grös (Soil and grasses). Ársrit Ræktfél. Norðurl. 77: 73-85. (General information on the connection between different soil conditions and the growth of plants).
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