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Recent literature on the botany of Iceland VI.

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This literature list on the botany of Iceland 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 (1980), or were otherwise missing in the previous lists. Papers on agriculture, horticulture or forestry are generally not included, unless they contain some original information on wild plants.

There is one change, however, compared to the previous lists: Procaryota (Bacteria and bluegreen algae) are not covered in the list now. Especially the literature on thermophilic bacteria has increased rapidly in the past years.

Several authors, Einar I. Siggeirsson, Helgi Hallgrímsson, Sturla Friðriksson, Gunnar Steinn Jónsson, Karl Gunnarsson and Bergþór Jóhannsson, have sent me additions to the list and I thank them for their help. I would also like to ask the users of the list to send me a note, when they come across papers missing in this and the previous lists. Such additions will be included in the next list, and are also valuable for the database on the total botanical literature of Iceland.

Algae

AÐALSTEINSDÓTTIR, Kristín. 1987. Líf í ám og lækjum á Akureyri. (Life in rivers and brooks in Akureyri, Northern Iceland). Náttúrugripasafnið á Akureyri, fjölrit 14, 26 pp.

AÐALSTEINSSON, Hákon. 1981. Afdrif svifsins í Þórisvatni eftir miðlun og veitu úr Köldukvísl. (The effects of glacial water from Köldukvísl on the fate of plankton in Lake Þórisvatn). Orkustofnun, OS-81025/VOD-11, 55 pp.

AÐALSTEINSSON, Hákon. 1984. Framvinda svifs í Mývatni 1972-1982. (Plankton in Mývatn 1972-1982). Náttúruverndarráð, fjölrit 14: 93-139.

AÐALSTEINSSON, Hákon. 1985. Lífvist í tjörnum og vötnum á Hofsafrétti. (The ecology of tarns and lakes on the interior highlands of Skagafjörður). Orkustofnun, OS-85046/VOD-04, 48 pp.

AÐALSTEINSSON, Hákon. 1987. Veiðivötn. (The Veiðivötn Lakes). Náttúrufræðingurinn 57: 185-204. - [Includes information on different groups of algae in the lakes]

BROADY, P.A. 1982. Green and yellow-green terrestrial algae from Surtsey (Iceland) in 1978. Surtsey Res. Progr. Rep. 9: 13-32.

EINARSSON, Árni. 1982. The Paleolimnology of Lake Mývatn, northern Iceland; plant and animal microfossils in the sediment. Freshw. Biol. 12: 63-82.

EINARSSON, Árni. 1985. Botn Mývatns: Fortíð, nútíð, framtíð. (The bottom of Lake Mývatn: Past, present and future). Náttúrufræðingurinn 55: 153-173.

EINARSSON, Árni, Hafliði HAFLIÐASON & Hlynur ÓSKARSSON. 1988. Mývatn, saga lífríkis og gjóskutímatal í Syðriflóa. (Lake Mývatn: palaeolimnology and tephrochronology of the Syðriflói basin). Náttúruverndarráð, fjölrit 17, 96 pp.

GUÐLEIFSSON, Bjarni. 1984. *Tribonema viride* (Xanthophyta) on cultivated grassland during winter and spring. Acta Bot. Isl. 7: 27-30.

GUNNARSSON, Karl. 1980. Rannsóknir á hrossaþara (*Laminaria digitata*) á Breiðafirði. 1. Hrossaþari við Fagurey. (Investigations on *Laminaria digitata* in Breiðafjörður. 1. *Laminaria digitata* at Fagurey). Hafrannsóknarstofnun, fjölrit 6, 17 pp.

GUNNARSSON, Karl. 1985. The genus *Vaucheria* (Xanthophyceae) in Iceland I. Marine and brackish water species from West Iceland. Acta Bot. Isl. 8: 21-27.

HALLGRÍMSSON, Helgi. 1984. Landnám lífs í Skjálftavötnum. (Development of Life in Skjálftavötn, a New Lake in NE-Iceland). Náttúrufræðingurinn 53: 149-159.

JÓNASDÓTTIR, Sigrún Huld. 1984. Fæða svifdýra í Mývatni sumarið 1983. (Food of zooplankton in Lake Mývatn in 1983). Náttúruverndarráð, fjölrit 14: 87-92.

JÓNSSON, Einar. 1981. Úr ríki hafsins. Plöntusvifið. (Life of the Sea. Phytoplankton). Sjómannablaðið Víkingur 43(1): 25-33.

JÓNSSON, Einar. 1981. Úr ríki hafsins. Botnþörungar. (Life of the Sea. Benthic Algae). Sjómannablaðið Víkingur 43(4-5): 42-52.

JÓNSSON, Gunnar Steinn. 1980. Bentiske alger i den islandske sø Þingvallavatn. (Benthic algae in the Lake Þingvallavatn, Iceland). Thesis at the University of Copenhagen, 73 pp.

JÓNSSON, Gunnar Steinn 1986. Blóðsjór við Ísland. (Algal blooms in Iceland). Hafrannsóknir 35: 69-75.

JÓNSSON, Gunnar Steinn 1987. Depth distribution and biomass of epilithic periphyton in Lake Thingvallavatn. Archiv f. Hydrobiol. 108: 531-547.

JÓNSSON, Sigurður. 1983. Effets de la lumière colorée et de quelques autres facteurs sur la formation des gamétes chez l'*Enteromorpha prolifera*, Chlorophycée marine. (Effects of coloured light and some other factors on gamete formation by *Enteromorpha prolifera*, a marine Chlorophyceae). Rit Fiskideildar 7(2): 61-72.

JÓNSSON, Sigurður & L. CHESNOY. 1982. Etude du cycle chromosomique de *l'Halosaccion ramentaceum* (Rhodophyta, Palmariales) d'Islande. (A study of the chromosome cycle of *Halosaccion ramentaceum* (Rhodophyta, Palmariales) in Iceland). Cryptogamie: Algologie, 3(4): 273-278.

JÓNSSON, Sigurður & L. CHESNOY. 1988. *Halosacciocolax kjellmanii*, parasite arctique de *Develeraea ramentacea* (Palmeriales, Rhodophyta): Organisation et rapports hôte-parasite. (*Halosacciocolax kjellmanii*, an arctic parasite of *Develeraea ramentacea* (Palmariales, Rhodophyta): Organization and host-parasite interaction). Bull. Soc. Bot. Fr. 135: 211-227.

JÓNSSON, Sigurður & L. CHESNOY. 1989. *Halosacciocolax kjellmanii*, parasite arctique de *Develeraea ramentacea* (Palmariales, Rhodophyta): Tétrasporogenèse. (*Halosacciocolax kjellmanii*, an arctic parasite of *Develeraea ramentacea* (Palmeriales, Rhodophyta): Tetrasporogenesis). Bull. Soc. Bot. Fr. 136: 45-60.

JÓNSSON, Sigurður & Karl GUNNARSSON. 1982. Marine algal colonization at Surtsey. Surtsey Res. Progr. Rep. 9: 33-45.

JÓNSSON, Sigurður, Karl GUNNARSSON & Jean-Paul BRIANE. 1987. Évolution de la nouvelle flore marine de l'île volcanique de Surtsey, Islande. (Development of new marine flora around the volcanic island Surtsey, Iceland). Rit fiskideildar 10: 1-30.

KAIRESALO, T., Karl GUNNARSSON, Gunnar Steinn JÓNSSON & Pétur M. JÓNASSON. 1987. The occurrence and photosynthetic acti-

vity of epiphytes on the tips of *Nitella opaca* (Charophyceae). Aquatic Botany 28: 333-340.

KAIRESALO, T., Gunnar Steinn JÓNSSON, Karl GUNNARSSON, Pétur M. JÓNASSON. 1989. Macro- and microalgal production within a *Nitella opaca* bed in Lake Thingvallavatn, Iceland. J. Ecol. 77: 332-342.

LASTEIN, E. 1983. Decomposition and sedimentation processes in oligotrophic, subarctic Lake Thingvalla, Iceland. Oikos 40: 103-112.

LAURE, M.H. & Sigurður JÓNSSON. 1983. Detection de l'acid sialique - ou de substances apparentées - chez *Enteromorpha prolifera* (Müller) J.Agardh. Cryptogamie: Algologie 4(1-2): 105-110.

MUNDA, I.M. 1981. Tide pool associations of benthic algae in Icelandic waters. In 10. International Seaweed Symposium: 327-332. Berlin and New York

MUNDA, I.M. 1981. A find of *Cladostephus spongiosus* (Huds.) C.Ag. (Phaeophyceae, Sphacelariales) in Iceland. Nova Hedwigia 35: 55-61.

MUNDA, I.M. 1981. Some examples of polymorphism in benthic algae from Icelandic waters. Nova Hedwigia 35: 377-406.

MUNDA, I.M. 1981. A note on the main floristic and vegetation limits in Icelandic coastal waters. Proc. 8th Internat. Seaweed Symp. Bangor, North Wales 1974: 410-415.

MUNDA, I.M. 1981. Tide pool association of benthic algae in Icelandic waters. In Tore Levring, ed.: Proc. 10th Intern. Seaweed Symp.: 327-332.

MUNDA, I.M. 1983. Survey of the benthic algal vegetation of Reyðarfjörður as a typical example of the East Icelandic vegetation pattern. Nova Hedwigia 37: 545-640.

MUNDA, I.M. 1984. The benthic algal vegetation of the Snæfellsnes Peninsula, Southwest Iceland. Hydrobiologia 116-117: 371-373.

MUNDA, I.M. 1985. General survey of the benthic algal vegetation along the Barðaströnd coast (Breiðafjörður, West Iceland). Res. Inst. Neðri Ás, Hveragerði Bull. 44: 1-62.

THORS, Kjartan & Guðrún HELGADÓTTIR 1980. Kalkþörungar í Húnaflóa og hugsanleg nýting þeirra. (Occurrence of maërl in Húnaflói, N.-Iceland, and its possible utilization). J. Agric. Res. Icel. 12: 85-92.

TILLER, K. 1981. Einfluss chemischer und physikalischer Faktoren auf Mikro- und Makrophyten der isländischen Flüsse

Hvítá, Ölfusá und Varmá in Ölfus. (Effects of chemical and physical factors on the micro- and macrophyte vegetation in the icelandic rivers Hvítá, Ölfusá and Varmá in Ölfus). Res. Inst. Neðri-Ás Bull. 35: 1-66.

ÞÓRÐARDÓTTIR, Þórunn. 1986. Timing and duration of spring blooming south and southwest of Iceland. In S. Skreslet ed.: The Role of Freshwater Outflow in Coastal Marine Ecosystems. NATO ASI Series G7, Springer Verlag.

ÞÓRÐARDÓTTIR, Þórunn. 1980. Phytoplancton investigations during spring in Icelandic waters. Nordic Council for Ecology, Newsletter 12: 12-13.

ÞÓRÐARDÓTTIR, Þórunn & Ólafur S. ÁSTÞÓRSSON. 1986. Chlorophyll-a and zooplancton distribution in Icelandic waters in spring 1982, 1983 and 1984. Ann. Biol. 41: 63-66.

Fungi

EGILSSON, Kristbjörn & Hjörleifur GUTTORMSSON 1981. Gróður (Vegetation). In Hjörleifur GUTTORMSSON, ed.: Náttúrufarskönnun á virkjunarsvæði Jökulsár í Fljótsdal og Jökulsár á Dal. Orkustofnun, OS-81002/VOD-02: 47-208. - [Includes records of 38 fungi in the area with distribution maps].

EINARSSON, Sigurbjörn. 1985. Svepprót - vaxtaraukandi áhrif hennar á trjáplöntur. (Mycorrhiza - stimulating effects on the growth of trees). Ársrit Skógræktarfél. Ísl. 1985: 3-7.

EYJÓLFSDÓTTIR, Gyða, Sigurgeir ÓLAFSSON & D. BREWER 1988. A comparison of fungal floras of highland and lowland pasture in Iceland. Proc. Nova Scot. Inst. Sci. 38: 23-41.

GRAVESEN, Suzanne, Vigfús MAGNÚSSON, Bente SCHWARTZ & Davíð GÍSLASON 1983. Potential allergens of stored hay in Iceland. Demonstration by Cultivation and Immunochemical Methods. J. Agric. Res. Icel. 15: 55-63. - [Includes records of fungi in hay samples in Iceland].

GUÐLEIFSSON, Bjarni. 1981. Some foliicolous fungi on grasses in North Iceland. Acta Bot. Isl. 6: 3-10.

GUÐLEIFSSON, Bjarni. 1984. *Tribonema viride* (Xanthophyta) on cultivated grassland during winter and spring. Acta Bot. Isl. 7: 27-30. - [Four species of fungi are recorded from Iceland]

GØTZSCHE, H.F. 1984. Contributions to the myxomycete flora of Iceland. Acta Bot. Isl. 7: 13-26.

GØTZSCHE, H.F. 1987. Some operculate Discomycetes (Pezizales) from Iceland. Acta Bot. Isl. 9: 19-34.

HALLAS, Thorkil E. & Suzanne GRAVESEN 1987. Succession af mider og svampe i foderhø i Island. (Succession of mites and fungi in hay in Iceland). Ent. Tidskr. 108: 23-27.

HALLGRÍMSSON, Helgi. 1981. The Agaricales of Iceland V. Preliminary account of the Icelandic species of Tricholomataceae. Acta Bot. Isl. 6: 29-41.

HALLGRÍMSSON, Helgi. 1982. Sveppir. (Fungi). In HALLGRÍMSSON, Helgi et al.: Náttúrufarskönnun á virkjunarsvæði Héraðsvatna við Villinganes í Skagafirði. Orkustofnun, OS-82047/VOD-08: 76-77. - [36 species of mushrooms are reported from the area].

HALLGRÍMSSON, Helgi. 1987. The family Geoglossaceae (Ascomycetes) in Iceland. Acta Bot. Isl. 9: 61-67.

HALLGRÍMSSON, Helgi. 1987. Nýir fylgisveppir lerkis fundnir á Íslandi. Ársrit Skógræktarfél. Ísl.: 75-66.

HALLGRÍMSSON, Helgi. 1988. Íslenskir belgsveppir VI. Nýr kúlusveppur á Íslandi. (*Bovista limosa* Rostr. found in Iceland). Náttúrufræðingurinn 58: 27-30.

HALLGRÍMSSON, Helgi. 1988. Hjartarhornssveppur. Ársrit Skógræktarfél. Ísl.: 63-66.

HALLGRÍMSSON, Helgi. 1989. A century of mycological research in Iceland. Opera bot. 100: 105-11.

HAWKSWORTH, D.L. 1982. A new species of *Nectriella* with ornamented spores from Iceland, with a key to the lichenicolous species. Nowa Hedwigia 25: 755-762.

HENRIKSSON, E. & L.E. HENRIKSSON. 1988. Fungi in Surtsey Soils. Proc. R. Soc. Edinb. Sect. B, Biol. Sci. 94: 61-62.

HOLM, K. & L. HOLM. 1984. A contribution to the mycoflora of Iceland. Acta Bot. Isl. 7: 3-11.

JEPPSON, Mikael. 1983. Íslenskir belgsveppir V. *Disciseda candida* (moldkúla) fundin á Íslandi. (Icelandic Gasteromycetes V. *Disciseda candida* found in Iceland). Náttúrufræðingurinn 52: 117-120.

JEPPSON, Mikael. 1988. Íslenskir belgsveppir VII. Nýr físisveppur (*Lycoperdon lividum*) fundinn á Íslandi. (Icelandic Gasteromycetes VII. A new Puff Ball *Lycoperdon lividum* found in Iceland). Náttúrufræðingurinn 58: 57-100.

KNUDSEN, H. & T. BORGEN. 1987. Agaricaceae, Amanitaceae, Boletaceae, Gomphidiaceae, Paxillaceae and Pluteaceae in Greenland. In LAURSEN et al.: Arctic and alpine mycology II, 235-253. - [One record from Iceland].

KRISTINSSON, Hörður. 1984. Nokkrir íslenzkir sveppir. (Some Icelandic mushrooms). Útivist 10: 51-70.

LANGE, Morten & Bodil LANGE. 1982. Agarics growing in Sphagnum: Specialization and distribution in arctic and alpine zones. In LAURSEN, G.A. & J.E. AMMIRATI: Arctic and alpine mycology, the first international symposium on arcto-alpine mycology, 150-161. Seattle.

NANNFELDT, J.A. 1981. *Exobasidium*, a taxonomic reassessment applied to the European species. Acta Univ. Ups. 23(2): 1-72. - [Includes records from Iceland].

NANNFELDT, J.A. 1977. The species of *Anthracoidea* (Ustilaginales) on *Carex*, subgenus *Vignea*, with special regard to the Nordic species. Bot. Notiser 130: 351-375.

NANNFELDT, J.A. 1979. *Anthracoidea* (Ustilaginales) on nordic Cyperaceae-Caricideae, a concluding synopsis. Acta Univ. Upsal. 22(3): 1-41. - [Includes records from Iceland]

PYATT, F.B. 1984. Mycoflora deposition values from the atmosphere in selected sites in Iceland. Int. J. Environm. Stud. 22: 131-134.

SCHUMACHER, Trond K. 1987. A Monograph of the genus *Scutellinia* (Cooke) Lamb. (Pyronemataceae). Ph.D. Thesis, the University of Oslo, 382 pp. - [14 species of *Scutellinia* are recorded from Iceland].

SCHUMACHER, Trond & S. SIVERTSEN. 1987. *Sarcoleotia globosa* (Sommerf.: Fr.) Korf, taxonomy, ecology and distribution. In LAURSEN et al.: Arctic and alpine mycology II, 163-176. - [Two records from Iceland].

SVERRISSON, Halldór 1982. Reyniáta (*Cytospora rubescens* Fr. ex Fr.) á Íslandi. (*Cytospora rubescens* Fr. ex Fr. in Iceland). J. Agric. Res. Icel. 14: 19-27.

WATLING, R. 1985. The Agaricales of Iceland VI. Icelandic species of Bolbitiaceae. Acta Bot. Isl. 8: 3-19.

Lichens

BJARNASON, Ágúst H. 1985. Fléttan *Lobaria laetevirens* fundin á Íslandi. (The lichen *Lobaria laetevirens* (Lightf.) Zahlbr. found in Iceland). Náttúrufræðingurinn 55: 133-136.

CASELDINE, C.J. 1983. Resurvey of the Margins of Gljúfurárjökull and the Chronology of recent Deglaciation. Jökull 33: 111-118. - [Establishment of lichen growth curve for the area]

CASELDINE, C.J. 1985. Survey of Gljúfurárjökull and Features associated with a Glacier Burst in Gljúfurárdalur, Northern Iceland. Jökull 35: 61-68. - [Application of lichenometrical dating and measurements of growth rates of lichens]

CASELDINE, C.J. 1985. The extent of some glaciers in Northern Iceland during the little ice age and the nature of recent deglaciation. The Geograph. J. 151: 215-227. - [Includes discussion of the use of lichenometry for dating in Iceland, and comparison of growth rates in different regions]

CASELDINE, C.J. 1987. Neoglacial glacier variations in northern Iceland: Examples from the Eyjafjörður area. Arctic and Alpine Research 19: 296-304.

EGILSSON, Kristbjörn & Hjörleifur GUTTORMSSON. 1981. Gróður (Vegetation). In Hjörleifur GUTTORMSSON, ed.: Náttúrufarskönnun á virkjunarsvæði Jökulsár í Fljótsdal og Jökulsár á Dal. Orkustofnun, OS-81002/VOD-02: 47-208 pp. - [76 species of lichens are recorded in the area with distribution maps].

EGILSSON, Kristbjörn 1983. Fæða og beitilönd íslensku hreindýranna. (The food and pastures of reindeer in Iceland). Orkustofnun, OS-83073/VOD-07, 235 pp. - [Plant communities of the autumn, winter and summer pastures were investigated; lichens were identified from stomach samples of animals in different seasons]

HALLGRÍMSSON, Helgi. 1982. Fléttur. (Lichens). In HALLGRÍMSSON, Helgi et al.: Náttúrufarskönnun á virkjunarsvæði Héraðsvatna við Villinganes í Skagafirði. Orkustofnun, OS-82047/VOD-08: 74-75. - [36 species of lichens are reported from the area].

HERTEL, H. 1980. Bemerkungen zum Faszikel I. der "Lecideaceae Exsiccatae". (Notes to "Lecideaceae Exsiccatae" no. I). Mitt. Bot. München 16: 493-500. - [Includes 8 records of lichens from Iceland].

HERTEL, H. 1981. Lecidea in der Arktis. II. (Lecidea in the Arctic. II.). Mitt. Bot. 17: 171-184. - [*Lecidea molybdochroa* and *Lecidea umbonella* are recorded from Iceland]

HERTEL, H. 1981. Bemerkungen zum Faszikel II der "Lecideaceae Exsiccatae". (Notes to "Lecideaceae Exsiccatae" no. II). Mitt. Bot. München 17: 537-548. - [Includes 5 lichen records from Iceland].

HERTEL, H. 1981. Lecideaceae Exsiccatae Fasc. III. Bot. Staatssamml. München. - [*Lecidea tesselata* and *Lecidella carpathica* are recorded from Iceland].

HERTEL, H. 1982. Lichens from Changhai Shan - some additions to the lichen flora of North-East China. The Lichenologist

14: 139-152. - [The similarity of the lichen vegetation of the cool humid climate is compared to Iceland]

HERTEL, H. 1982. Bemerkungen zum Faszikel III der "Lecideaceae Exsiccatae". (Notes to "Lecideaceae Exsiccatae" no. III). Mitt. Bot. München 18: 443-454. - [Includes 2 lichen records from Iceland].

HERTEL, H. 1982. Lecideaceae Exsiccatae, Fasc. IV. Bot. Staatssamml. München. - [*Aspicilia cinereorufescens* var. *diamarta* and *Lecidella stigmatea* are recorded from Iceland]

HERTEL, H. 1984. Lecideaceae Exsiccatae Fasc. VII. Bot. Staatssamml. München. - [Includes *Rhizocarpon geographicum* ssp. *arcticum* from Iceland].

INGÓLFSDÓTTIR, Kristín. 1983. Chemical and antimicrobial investigations of Icelandic Lichens and Mosses. Ph.d. Thesis, Department of Pharmacy, Chelsea College, University of London, 235 pp.

KRISTINSSON, Hörður. 1981. Additions to the lichen flora of Iceland II. Acta Bot. Isl. 6: 23-28.

KRISTINSSON, Hörður. 1983. Um nokkrar íslenzkar fléttur og nöfn þeirra. (Some Icelandic lichens and their common names). Ársrit Útivistar 8: 7-23.

KRISTINSSON, Hörður 1983. Fléttuflóra Grundartanga og nágrennis. (The lichen flora of Grundartangi and neighbourhood, W.-Iceland). In KRISTINSSON, Hörður et al.: Grasafræðirannsóknir við Hvalfjörð, Líffræðistofnun Háskólans Fjölrit nr. 17: 13-43. - [Includes distribution maps of foliose and fruticose lichens within the area].

KRISTINSSON, Hörður. 1985. The lichen flora of the outer Hvalfjörður area in West Iceland. Acta Bot. Isl. 8: 31-50.

KRISTINSSON, Hörður, Sigríður BALDURSDÓTTIR & Hálfdán BJÖRNSSON. 1983. Nýjar fléttutegundir á birki í Austur-Skaftafellssýslu. (Lichens new to Iceland on birch in Austur-Skaftafellssýsla). Náttúrufræðingurinn 51: 182-188.

KRISTINSSON, Hörður & Bergþór JÓHANNSSON. 1983. Fléttu- og mosasamfélög á klettum við Hvalfjörð. (Lichen and bryophyte communities on rocks around Hvalfjörður). In KRISTINSSON, Hörður et al.: Grasafræðirannsóknir við Hvalfjörð. Fjölrit Líffræðistofnunar 17: 73-90.

THOMPSON, A. & A. JONES. 1986. Rates and causes of proglacial river terrace formation in Southeast Iceland: an application of lichenometric dating techniques. Boreas 15: 231-246.

Bryophytes

AÐALSTEINSDÓTTIR, Kristín. 1987. Líf í ám og lækjum á Akureyri. (Life in rivers and brooks at the town Akureyri in Northern Iceland). Náttúrugripasafnið á Akureyri, fjölrit 14, 26 pp. - [Three species of mosses are recorded from the rivers].

EGILSSON, Kristbjörn & Hjörleifur GUTTORMSSON 1981. Gróður (Vegetation). In Hjörleifur GUTTORMSSON, ed. Náttúrufarskönnun á virkjunarsvæði Jökulsár í Fljótsdal og Jökulsár á Dal. Orkustofnun, OS-81002/VOD-02: 47-208. - [Includes distribution maps for 159 species of mosses recorded in the area].

FRISVOLL, Arne A. 1983. A taxonomic revision of the *Racomitrium cansescens* group (Bryophyta, Grimmiales). Gunneria 41: 1-181. - [Icelandic material included in the revision].

FRISVOLL, Arne A. 1988. A taxonomic revision of the *Racomitrium heterostichum* group (Bryophyta, Grimmiales) in N. and C.America, N.Africa, Europe and Asia. Gunneria 59: 1-289. - [Icelandic material included in the revision].

HALLGRÍMSSON, Helgi. 1982. Mosar. (Bryophytes). In HALLGRÍMSSON, Helgi ed.: Náttúrufarskönnun á virkjunarsvæði Héraðsvatna við Villinganes í Skagafirði. Orkustofnun, vatnsorkudeild, OS-82047/VOD-08: 70-73. - [90 species of mosses are reported from the area].

HEDENÄS, Lars. 1989. The genus *Sanionia* (Musci) in Northwestern Europe, a taxonomic revision. Ann. Bot. Fenn. 26: 399-419. - [Icelandic material included in the revision]

INGÓLFSDÓTTIR, Kristín. 1983. Chemical and antimicrobial investigations of Icelandic Lichens and Mosses. Ph.d. Thesis, Department of Pharmacy, Chelsea College, University of London, 235 pp.

JÓHANNSSON, Bergþór. 1981. Additions and corrections to the moss flora of Iceland. Acta Bot. Isl. 6: 43-44.

JÓHANNSSON, Bergþór. 1982. Mapping of bryophytes in Iceland. Lejeunia N.S. 107: 32.

JÓHANNSSON, Bergþór. 1983. A list of Icelandic bryophyte species. Acta Nat. Isl. 30: 3-29.

JÓHANNSSON, Bergþór 1983. Mosaflóra Grundartanga og nágrennis. (The bryophyte flora of the neighbourhood of Grundartangi, W.-Iceland). In KRISTINSSON, Hörður et al.: Grasafræðirannsóknir við Hvalfjörð, Líffræðistofnun Háskólans, fjölrit 17: 45-72. - [Includes distribution maps of selected species within the area]

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Book review

GRO GULDEN, K.M. JENSSEN & JENS STORDAL: Arctic and alpine fungi 1-2. Oslo 1985, 1988.

Arctic and alpine mycology has received increased interest among mycologists in the last decades, animated through the pioneer work of Jules Favre in Switzerland, R. Kühner in France and Morten Lange in Greenland and Lapland.

Several important contributions to this theme have been brought forth in the last years, not the least from Scandinavian scientists. The Institut for Sporeplanter in Copenhagen, through the leadership of M. Lange, has become a kind of centre for these studies.

Three Norwegian mycologists have now taken the initiative by preparing a new and fully illustrated arctic-alpine flora of macromycetes, of which two issues have already been published (1985 and 1988), each with 25 species. The first issue contains mainly fungi from the mountains of South-Norway, the second fungi from Spitzbergen. Every species is represented by a colour photograph taken on the collecting site, most of them by K.M. Jenssen. In average they are among the best colour photographs of fungi that I have seen, and the production is excellent.

Detailed descriptions are given of every species, including macroscopic and microscopic characters, ecology, distribution and notes on nomenclature. Line drawings of spores, cystidia etc. are also presented. Microscopic data are taken only from the specimens photographed, but the morphological description is aimed to present the known variation of the species.

The flora is issued in loose leave form, which is important, since the species are not selected from systematic point of view, and must therefore be rearranged afterwards. This new publication is a very important contribution to help define and understand the alpine fungus flora of Iceland as well, especially because the arctic element of the flora is usually not or badly represented in most books for the identification of fungi.

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