

Recent literature on the botany of Iceland I.

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The following literature list covers the five year period 1968–1972. Included are articles on botany, presenting original results contributing to our knowledge of Icelandic plants. It is not the purpose to record papers on agriculture, forestry and related fields, nor popular articles based on previously published material or personal experience. In general, however, such articles are included, if they contain original information on wild plants or their distribution.

New additions to this list, including supplements to the period 1968–1972, shall be published yearly in *Acta Botanica Islandica*. Information on any articles in this field and not included in the list, is appreciated by the editor.

An early version of the manuscript has been examined by professor Áskell Löve, Bergþór Jóhannsson, Einar I. Siggeirsson, Eyþór Einarsson and Helgi Hallgrímsson. I thank these persons for their additions and useful comments.

Bacteria, viruses. (Gerlar og veirur).

- Brock, T. D.* 1972. Microbiological observations on Surtsey, 1970. *Surtsey Res. Progr. Rep.* 6: 11–13.
- Kolbeinsson, Arinbjörn & Sturla Friðriksson.* 1968. Report on studies of microorganisms on Surtsey, 1967. *Surtsey Res. Progr. Rep.* 4: 75–76.
- Rückert, G.* 1972. Bodenbakterien in Island. (Soil bacteria in Iceland). *Fridericiana*, Heft 11: 22–32.

- Schwartz, W. & Adelheid Schwartz.* 1972. Microbial activity on Surtsey. Surtsey Res. Progr. Rep. 6: 90.
- Siggeirsson, Einar I.* 1970. Rannsóknir á útbreiðslu kartöfluveiranna X og Y á Íslandi. (Distribution of the potato-virus X and Y in Iceland). Res. Inst. Neðri Ás Rep. no. 4: 1–23.
- 1972. Interspecific crosses in the genus *Solanum* resistant to virus Y. Res. Inst. Neðri Ás Rep. no. 10:

Algae. (Þörungar).

- Behre, K. & G. H. Schwabe.* 1969. Algenbefunde in den Krateräumen auf Surtsey, Island, Sommer 1968. (Algae within the craters in Surtsey, Iceland, summer 1968). Vorläufige Mitteilung aus dem Max-Planck-Institut für Limnologie, Plön.
- & ———. 1970. Auf Surtsey, Island, im Sommer 1968 nachgewiesene nicht marine Algen. (Nonmarine algae in Surtsey, Iceland, in the summer 1968). Schr. Naturw. Ver. Schlesw.-Holst., Sonderband: 31–100.
- Caram, Bernadette & Sigurður Jónsson.* 1972. Nouvel inventaire des algues marines de l'Islande. (New checklist of the marine algae of Iceland). Acta Bot. Isl. 1: 5–31.
- Castenholz, R. W.* 1969. The thermophilic cyanophytes of Iceland and their upper temperature limit. Jour. Phycology 5: 360–368.
- 1972. The occurrence of the thermophilic blue-green alga *Mastigocladus laminosus* on Surtsey in 1970. Surtsey Res. Progr. Rep. 6: 14–19.
- Henriksson, Elisabet, Lars E. Henriksson & B. Pejler.* 1972. Nitrogen fixation by blue-green algae on the island of Surtsey, Iceland. Surtsey Res. Progr. Rep. 6: 66–68.
- Jónsson, Sigurður.* 1968. Survey of the intertidal and subtidal algae in Surtsey in 1967. Surtsey Res. Progr. Rep. 4: 67–73.
- 1970a. Studies of the colonization of marine benthic algae at Surtsey in 1968. Surtsey Res. Progr. Rep. 5: 42–51.
- 1970b. Meeresalgen als Erstbesiedler der Vulkaninsel Surtsey. (Marine algae as the first colonizers of the volcanic island Surtsey). Schr. Naturw. Ver. Schlesw.-Holst., Sonderband: 21–28.
- 1972. Marine benthic algae recorded in Surtsey during the field seasons of 1969 and 1970. Surtsey Res. Progr. Rep. 6: 75–76.
- Langangen, A.* 1972. The Charophytes of Iceland. Astarte, Jour. Arct. Biol. 5: 27–31.
- Locher, P. & A. Binder.* 1972. Hitakærir þelingar í hverum á Íslandi. (Thermophilic thallophytes in Icelandic hot springs). Náttfr. 41: 129–192.
- Maguire, B., Jr.* 1968. The early development of freshwater biota on Surtsey. Surtsey Res. Progr. Rep. 4: 83–88.
- 1970. Surtsey's freshwater biota after 14 months. Surtsey Res. Progr. Rep. 5: 60–62.
- Munda, Ivka.* 1969. Differences in the algal vegetation of 2 Icelandic fjords, Dýrafjörður West Iceland and Reyðarfjörður East Iceland. Actas del sexto simposio internacional sobre algas marinas: 255–261. Madrid.

- 1970a. Rannsóknir á botngróðri við strendur Íslands 1963–1968. (Algological investigations around the coast of Iceland 1963–1968). Náttfr. 40: 1–25.
- 1970b. A note on the densities of benthic algae along a littoral rocky slope in Faxaflói, Southwest Iceland. *Nova Hedwigia* 19: 535–543.
- 1972. On the chemical composition, distribution and ecology of some common benthic marine algae from Iceland. *Botanica Marina* 15: 1–45.
- Schwabe, G. H.* 1969. Pioniere der Besiedlung auf Surtsey. (Pioneers of colonization in Surtsey). *Umschau in Wissenschaft und Technik* 1969: 51–52.
- 1970a. Blaualggen und Vorstufen der Bodenbildung auf vulkanischem Substrat. Bisherige Befunde auf Surtsey, Island. (Blue-green algae and the initial stages of soil formation on volcanic substrate. Preliminary results from Surtsey, Iceland). *Mitt. Dtsch. Bodenkundl. Ges.* 10: 198–199.
- 1970b. Zur Ökogenese auf Surtsey. (Ecologic development on Surtsey). *Schr. Naturw. Ver. Schlesw.-Holst., Sonderband*: 101–120.
- 1970c. On the algal settlement in craters on Surtsey during summer 1968. *Surtsey Res. Progr. Rep.* 5: 68–69.
- 1971a. Surtsey. *Kosmos* 67: 489–497.
- 1971b. Die Ökogenese im terrestrischen Bereich postvulkanischer Substrate. Schematische Übersicht bisheriger Befunde auf Surtsey, Island. (The terrestrial ecogenesis of postvolcanic substrates. Schematic survey of results in Surtsey, Iceland). *Peterm. Geograph. Mitt.* 4: 268–273.
- 1972. Blue-green algae as pioneers on postvolcanic substrate, Surtsey, Iceland. *Proc. 1st Internat. Symp. on Taxonomy and Biology of Blue-green Algae. Madras* 1970.
- & *K. Behre.* 1970. On the colonization of the volcanic island Surtsey, Island. *Schweiz. Zeitschr. Hydrol.* 32: 487.
- & ——— 1971. Ökogenese der Insel Surtsey 1968–1970. (Ecologic development in the island of Surtsey 1968–1970.) *Naturwiss. Rdsch.* 24: 513–519.
- & ——— 1972. Algae on Surtsey in 1969–1970. *Surtsey Res. Progr. Rep.* 6: 85–89.
- Sperling, J. A.* 1971. Winter algal ecology of Icelandic hot springs. *Jour. Phycol.* 7: 5.
- Starmühlner, F.* 1970. Beiträge zur Kenntnis der Biozönosen isländischer Thermalgewässer. (Contribution to the ecology of the Icelandic thermal waters). *Sitzungsber. Math.-Naturw. Kl.* 178: 83–173.
- Þórðardóttir, Þórunn.* 1969. Vorrannsóknir á þörungasvifi norðanlands og vestan. (Spring investigations on the productivity of planctonic algae north and west of Iceland). *Hafrannsóknir* 1: 20–50.
- 1970. Rannsóknir á þörungasvifi fyrir norðan og norðaustan Ísland 1969. (Spring investigations on the productivity of planctonic algae north and northeast of Iceland). *Hafrannsóknir* 2: 37–44.

Fungi. (Sveppir).

- Cavaliere, A. R.* 1970. Marine fungi of Iceland: A preliminary account of ascomycetes. *Surtsey Res. Progr. Rep.* 5: 9.
- & *A. H. Markhart.* 1972. Marine fungi of Iceland: Calcareophilous forms. *Surtsey Res. Progr. Rep.* 6: 20–22.

- Davíðsson, Ingólfur*. 1971a. Bersærkersvampen, *Amanita muscaria*, í Island. (*Amanita muscaria* in Iceland). Friesia 9: 402–404.
- . 1971b. *Claviceps purpurea* på *Elymus arenarius* í Island. (*Claviceps purpurea* on *Elymus arenarius* in Iceland). Friesia 9: 405–406.
- Deighton, F. S. & H. B. Gjarum*. 1969. *Cercosporidium depressum* and *C. angelicae* in Norway and Iceland, and a note on *C. punctum* on *Foeniculum* in the Canary Islands. Nytt Mag. Bot. 16: 225–229.
- Demoulin, V.* 1972. Espèces nouvelles ou méconnues du genre *Lycoperdon*, (Gastéromycètes). (New or poorly known species of the genus *Lycoperdon*, Gastromycetes). Lejeunia 62: 1–28.
- Guðleifsson, Bjarni E.* 1972. Rannsóknir á rotkali á Íslandi. (Observations on winter damage caused by low-temperature fungi in Icelandic hayfields). Jour. Agric. Res. Icel. 3(2): 27–33.
- Hallgrímsson, Helgi*. 1968a. Íslenzkir hnyðlusveppir, Helvellaceae. (Icelandic species of Helvellaceae). Flóra 6: 27–39.
- . 1968b. Nýir fundarstaðir sveppa. (New Icelandic localities for fungi). Flóra 6: 26.
- . 1972a. Físisveppir, íslenzkir belgsveppir III. (*Lycoperdon*, Icelandic Gastromycetes III). Náttfr. 42: 44–58.
- . 1972b. Íslenzkir hattsveppir I. og II. I. Inngangur. II. Amanitaceae Roze. Reifasveppaætt. (Icelandic agarics I. and II. I. Introduction, II. Amanitaceae Roze). Acta Bot. Isl. 1: 73–113.
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- . 1969b. Aquatic fungi of Iceland; *Olpidium* (Braun) Rabenhorst. Arch. Mikrobiol. 69: 1–11.
- . 1970. Mycological investigations V. Surtsey Res. Progr. Rep. 5: 39–41.
- . 1971a. Aquatic fungi of Iceland; *Pythium*. Mycologia 63: 517–536.
- . 1971b. Aquatic fungi of Iceland; *Chytriomycetes* Karling emend. Sparrow. Jour. Elisha Mitch. Sci. Soc. 87: 200–205.
- . 1972a. Mycological investigations VI. Surtsey Res. Progr. Rep. 6: 73–74.
- . 1972b. Hyperparasitism of an *Achlya* from Iceland. Mycologia 64: 1183–1187.
- & *A. R. Cavaliere*. 1968. Mycological investigations in Iceland, IV. Surtsey Res. Progr. Rep. 4: 63–65.
- & *K. L. Howard*. 1968. Aquatic fungi of Iceland: Species associated with algae. Jour. Elisha Mitch. Sci. Soc. 84: 305–311.
- Kommedahl, Th.* 1972. Fusarium species in Icelandic soils in relation to winter-killing of grasses. Res. Inst. Neðri Ás Bull. no. 11: 1–19.

Lichens. (Fléttur).

- Bailey, R. H. 1968. *Lecanora conizaeoides* in Iceland. The Lichenologist 4: 73.
- Kristinsson, Hörður. 1968. *Peltigera occidentalis* in Iceland. The Bryologist 71: 38–40.
- 1969. Chemical and morphological variation in the *Cetraria islandica* complex in Iceland. The Bryologist 72: 344–357.
- 1970a. Flechtenbesiedlung auf Surtsey. (Colonization of lichens in Surtsey). Schr. Naturw. Ver. Schlesw.-Holst., Sonderband: 29–30.
- 1970b. Report on lichenological work on Surtsey and in Iceland. Surtsey Res. Progr. Rep. 5: 52.
- 1972a. Studies on lichen colonization in Surtsey 1970. Surtsey Res. Progr. Rep. 6: 77.
- 1972b. Additions to the lichen flora of Iceland. Acta Bot. Isl. 1: 43–50.
- Nordin, I. 1972. *Caloplaca* sect. *Gasparrinia* i Nordeuropa. Taxonomiska och ekologiska studier. (*Caloplaca*, sect. *Gasparrinia* in Northern Europe. Taxonomic and ecologic studies). Uppsala 1972. [Includes records of five species in Iceland].
- Thomson, J. W. 1972. Distribution patterns of American Arctic lichens. Canad. Jour. Bot. 50: 1135–1156. [Includes records of four species from Iceland on distribution maps].

Bryophytes. (Mosar).

- Bjarnason, Ágúst H. & Sturla Friðriksson. 1972. Moss on Surtsey, summer 1969. Surtsey Res. Progr. Rep. VI: 9–10.
- Jóhannsson, Bergþór. 1968a. Bryological observation on Surtsey. Surtsey Res. Progr. Rep. 4: 61.
- 1968b. Íslenzk mosategundaskrá. (Checklist of Icelandic mosses). Flóra 6: 13–18.
- 1969. Athuganir á íslenzku mosaflórunni. (Some observations on the bryophyte flora of Iceland). Náttfr. 39: 49–67.
- 1971. Additions to the bryoflora of Iceland. Lindbergia 1: 118.
- Koponen, T. 1971. A monograph of *Plagiomnium* sect. *Rosulata* (Mniaceae). Annales Botanici Fennici 8(4): 305–367. [Includes revision of Icelandic records].

Tracheophytes, taxonomy, chorology, ecology, sociology and biochemistry. (Æðplöntur, kerfisfræði, útbreiðsla, vistfræði, samfélagsfræði og lífefnafræði).

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- Björnsson, Hálfdán. 1971. Sjaldgæf planta fundin á nýjum stað. (Rare plant in a new locality). Týli 1: 24. [New record for *Asplenium viride* in Iceland].

- Böttcher, Hans*. 1971. Some remarks on the vegetation of South-Icelandic cultivated hay-fields and their damages by "winter-killing" ("kal"). Res. Inst. Neðri Ás Rep. no. 9: 1–28.
- Davidsson, Ingólfur*. 1968. Gróðurrannsóknir 1967. (Botanical investigations in 1967). Náttfr. 37: 190–193.
- 1969a. Gróðurathuganir 1966. (Botanical investigations in 1966). Náttfr. 38: 182–187.
- 1969b. Gróðurrannsóknir sumarið 1968. (Botanical investigations in the summer of 1968). Náttfr. 39: 41–47.
- 1970. Slæðingar sumarið 1969. (Icelandic adventive plants 1969). Náttfr. 40: 130–133.
- 1971a. Villilaukur í Breiðafjarðareyjum. (*Allium oleraceum* in the Breiðafjörður Islands). Náttfr. 41: 122–123.
- 1971b. Gróður í Vestureyjum í Breiðafirði. (Vegetation in the western part of the Breiðafjörður Islands). Náttfr. 41: 113–121.
- 1971c. Skógarleifar á Árskógsströnd og í grennd. (Remnants of woodland in the vicinity of Árskógsströnd). Ársr. Ræktunarfél. Norðurl. 68: 109–115.
- Einarsson, Einar H.* 1971. Gróðurfur Dyrhólaeyjar. (The vegetation of Dyrhólaey). Týli 1: 31–33.
- Einarsson, Eyþór*. 1968a. The colonization of Surtsey, the new volcanic island, by vascular plants. Aquilo 6: 172–182.
- 1968b. Vegetationen på nogle nunatakker i Vatnajökull. (The vegetation on nunataks in Vatnajökull Glacier). Naturens Verden 1968(4): 97–111.
- 1968c. Nýjar plöntutegundir nema land í Surtsey. (New plant species colonize Surtsey). Náttfr. 37: 105–111.
- 1968d. Nýfundnir vaxtarstaðir nokkurra íslenskra plöntutegunda. (New localities for some Icelandic species of vascular plants). Flóra 6: 86–87.
- 1968e. Comparative ecology of colonizing species of vascular plants. Surtsey Res. Progr. Rep. 4: 9–22.
- 1970. Plant ecology and succession in some nunataks in the Vatnajökull glacier in South-east Iceland. Ecology and Conservation 1. Ecology of the sub-arctic regions, Proceedings of the Helsinki symposium: 247–256.
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- . 1969a. The effects of sea ice on flora, fauna and agriculture. *Jökull* 19: 146–157.
- . 1969b. La vita arriva su Surtsey. *Sapere* 26: 26–30.
- . 1969c. Uppgræðslutilraun á Mosfellsheiði. (Reseeding experiment on a highland in South-Western Iceland. *Ísl. Landbúnaðarrannsóknir* 1(1): 28–37.
- . 1970a. Seed dispersal by snow buntings in 1968. *Surtsey Res. Progr. Rep.* 5: 18–19.
- . 1970b. The colonization on Surtsey in 1968. *Surtsey Res. Progr. Rep.* 5: 10–14.
- . 1970c. Records of drifted plant parts on Surtsey in 1968. *Surtsey Res. Progr. Rep.* 5: 15–17.
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- . 1972a. Diaspores which drifted to Surtsey 1969. *Surtsey Res. Progr. Rep.* 6: 23.
- . 1972b. Mermaids purses as dispersers of seed. *Surtsey Res. Progr. Rep.* 6: 24–26.
- . 1972c. Grass utilization in Iceland. *Ecology* 53: 785–796.
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- , ——— & ———. 1972b. Vascular plants in Surtsey 1969. *Surtsey Res. Progr. Rep.* 6: 30–33.
- , ——— & ———. 1972c. On the vegetation of Heimaey, Iceland. Preliminary report. *Surtsey Res. Progr. Rep.* 6: 34–35.
- & *Björn Johnsen*. 1968. Records of drifted plant parts in Surtsey 1967. *Surtsey Res. Progr. Rep.* 4: 39–42.
- & *Jóhann Pálsson*. 1970. Landgræðslutilraun á Sprengisandi. (Reseeding experiments on the desert Sprengisandur in the southern central part of Iceland). *Jour. Agric. Res. Icel.* 2(2): 34–49.
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- & *Haraldur Sigurðsson*. 1968. Dispersal of seed by snow buntings to Surtsey in 1967. *Surtsey Res. Progr. Rep.* 4: 43–49.
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- , *Bjartmar Sveinbjörnsson & Skúli Magnússon*. 1972a. On the vegetation of Heimaey, Iceland. II. *Surtsey Res. Progr. Rep.* 6: 36–53.
- , ——— & ———. 1972b. Vegetation on Surtsey. Summer 1970. *Surtsey Res. Progr. Rep.* 6: 54–59.
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- 1970. Sea-shore communities of Reykjanes Peninsula, SW-Iceland. Plant communities of Reykjanes Peninsula II. Folia Geobot. Phytotax. 5: 133–144.
- 1971a. The vegetation of springs, lakes and "flags" of Reykjanes Peninsula, SW-Iceland. Plant communities of Reykjanes Peninsula III. Folia Geobot. Phytotax. 6: 29–41.
- 1971b. Snow-land communities of Reykjanes Peninsula, SW-Iceland. Plant communities of Reykjanes Peninsula IV. Folia Geobot. Phytotax. 6: 105–126.
- 1972. Fell-field and heath communities of Reykjanes Peninsula, SW-Iceland. Plant communities of Reykjanes Peninsula V. Folia Geobot. Phytotax. 7: 249–380.
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- 1968b. Yfirlit um tegundir háplantna, sem fundizt hafa síðan 1948. (Survey of Icelandic species of vascular plants recorded since 1948). Flóra 6: 72–75.
- 1968c. Flórunýjungar 1967. (Floristic records from 1967). Flóra 6: 82–84. [Vascular plant records from Eyjafjarðarsýsla, Dalasýsla and Snæfellsnes].
- 1968d. Nýjar hæðartölur plöntufunda. (New vertical records for Icelandic plants). Flóra 6: 84–86.
- 1969. Útbreiðsla plantna á Íslandi með tilliti til loftslags. I. Landleitn útbreiðsla. (Plant distribution in Iceland in relation to climate. I. Continental distribution). Náttfr. 39: 17–31.
- 1970. Bæjarnöfn og útbreiðsla skóga fyrr á öldum. (Names of Icelandic farms and distribution of woods in ancient times). Ársrit Skógrfél. Ísl. 1970: 8–14.
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- 1972b. Gróður í Blöndugili. (Vegetation in Blöndugil Ravine, N.-Iceland). Týli 2(2): 86.
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