

Recent literature on the botany of Iceland III.

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The list below contains additions to the botanical literature of Iceland published since the last list appeared in Acta Botanica Islandica 3, 102-104. As before, articles containing some original information on the botany of Iceland are included in the list.

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BACTERIA

- FIELDS, M.L. & P.P. CHEN LEE. 1974. *Bacillus stearothermophilus* in soils of Iceland. Appl. Microbiol. 28: 638-640.
- WYNN-WILLIAMS, D.D. & M.E. RHODES. 1974. Nitrogen fixation in seawater. Jour. Appl. Bacteriol. 37: 203-216. (Some observations in an Icelandic fiord are included)
- WYNN-WILLIAMS, D.D. & M.E. RHODES. 1974. Nitrogen fixation by marine photosynthetic bacteria. Jour. Appl. Bacteriol. 37: 217-224. (Results from an Icelandic fiord are included).

ALGAE

- ADALSTEINSSON, HÁKON. 1974. Plankton i Mývatn, Island. (Plankton in Lake Mývatn, Iceland). Scripta limnologica Upsaliensia 372: 40 pp.
- ADALSTEINSSON, HÁKON. 1975. Auðkúluheiði, frumathuganir á vötnum og forsendur frekari rannsóknna. (Primary investigations on lakes in Auðkúluheiði). Orkustofnun raforkudeild 7520.
- ADALSTEINSSON, HÁKON. 1976. Lögurinn. Svifaur, gegnsæi og lífríki. (Suspended clay, transparency and life forms in Lögurinn, E-Iceland). Orkustofnun raforkudeild 7609: 47 pp. (Information on planktonic and benthic algae, as well as bryophytes in the river Lagarfljót, E-Iceland).
- FJERDINGSTAD, ERIK, K. KEMP & E. FJERDINGSTAD. 1974. Chemical analysis of trace elements in Iceland Geysirs with remarks on *Mastigocladus laminosus*

- FJERDINGSTAD, ERIK, K.KEMP & E. FJERDINGSTAD. 1974. Chemical analysis of trace elements in Iceland Geysirs with remarks on *Mastigocladus laminosus* Cohn. Arch. Hydrobiol. 74: 159-171.
- FOGED, N. 1974. Freshwater diatoms in Iceland. Bibliotheca Phycologica 15: 118 pp, 36 plates.
- FRÍÐRIKSSON, STURLA. 1975. Surtsey, evolution of life on a volcanic island. Butterworth, London. 198 pp. (Includes information on terrestrial and marine algal vegetation).
- GARÐARSSON, ARNÞÓR, AGNAR INGÓLFSSON & JÓN ELDON. 1976. Vistfræðilegar rannsóknir á leirum og óshólmum Eyjafjarðarár og nærliggjandi svæðum 1974. (Ecological investigations on the mudflats and the river delta of Eyjafjarðará and adjacent areas in 1974. In Lokaskýrsla um rannsóknir á óshólmavæði Eyjafjarðarár 1974 og 1975. Líffræðistofnun Háskólans, Reykjavík. 63 pp. (Includes some information on the vegetation of the adjacent coasts).
- HALLGRÍMSSON, HELGI. 1974. Íslenzkir lóþörungar (*Trentepohlia*). (The genus *Trentepohlia* Mart. in Iceland). Náttfr. 44: 71-79.
- HALLGRÍMSSON, HELGI. 1975. Vatnsaugu (*Nostoc pruniiforme*). Týli 5: 10-12. (Includes distribution map for *Nostoc pruniiforme* in Iceland).
- HALLGRÍMSSON, HELGI. 1976. Íslenzkir kransþörungar (Charophyta). (The Icelandic species of Charophyta). Náttfr. 45: 142-150.
- HENRIKSSON, L.E. & E. HENRIKSSON. 1974. Studies in the nitrogen cycle of Surtsey in 1972. Surtsey Res. Progr. Rep. 7: 36-44. (The activity of nitrogen fixing organisms, *Anabaena variabilis* and *Nostoc muscorum* in Surtsey, Iceland and Sweden is compared).
- INGÓLFSSON, AGNAR. 1975. Lífríki fjörunnar. (The life of the shore). Rit Landverndar 4: 61-99.
- JÓNSSON, SIGURÐUR & KARL GUNNARSSON. 1976. Nýjung í sæflóru Íslands. (*Codium fragile* new to the marine flora of Iceland). Náttfr. 45: 151-153.
- KONOPKA, H.-P. 1975. Heisse Quellen und ihre Lebewesen. (Hot springs and their life). Natur und Museum 105: 357-367. (A general survey on the subject).
- MUNDA, I. 1972. General features of the benthic algal zonation around the Icelandic coast. Acta Naturalia Islandica 21: 36 pp.
- MUNDA, I. 1975. Hydrographically conditioned floristic and vegetation limits in Icelandic coastal waters. Bot. Mar. 18: 223-235.
- MUNDA, I. 1976. The distribution of *Halosaccion ramentaceum* (L.) J.Ag. associations in the Icelandic coastal area and their hydrographically conditioned variations. Bot. Mar. 19: 179-182.
- MUNDA, I. 1976. Some aspects of the benthic algae vegetation of the South Icelandic coastal area. Res. Inst. Neðri Ás, Bull. 25: 70 pp.
- MUNDA, I. & F. Gubensek. 1976. The amino acid composition of some common marine algae from Iceland. Bot. Mar. 19: 85-92.
- SCHWABE, H.G. 1974. Nitrogen fixing blue-green algae as pioneer plants on Surtsey 1968-1973. Surtsey Res. Progr. Rep. 7: 22-25.
- SPERLING, J.A. 1975. Algal ecology of southern Icelandic hot springs in winter. Ecology 56: 183-190.
- SPERLING, J.A. & L. BLUMER. 1974. Diatoms common in Iceland. Nova Hedwigia 25.

- UHLIK, D.J. & H.C. BOLD. 1970. Two new species of *Chlamydomonas*. Jour. Phycol. 6: 106-110.
- WIK-SJÖSTEDT, A. 1970. Cytogenic investigations in *Cladophora*. Hereditas 66: 233-262. (Icelandic specimens included).
- ÞÓRÐARDÓTTIR, ÞÓRUNN. 1975. Svifþörungur, undirstaða fiskaflans á Íslandsmiðum. (Planktonic algae, the basis of the Icelandic fisheries). Fjármálatíðindi 22: 174-176.

FUNGI

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- HALLGRÍMSSON, HELGI. 1975. Skinnsveppir og skrápsveppir. (Icelandic species of Stereaceae and Radulaceae). Ársr. Skógrfél. Ísl. 1975: 51-55.
- HENRIKSSON, L.E. & E. HENRIKSSON. 1975. Occurrence of fungi on the volcanic island of Surtsey, Iceland. Acta Bot. Isl. 3: 82-88.
- JOHNSON, T.W. jr. 1973. Aquatic fungi of Iceland. Uniflagellate species. Acta Nat. Isl. 22: 38 pp.
- JOHNSON, T.W. jr. 1973. Aquatic fungi of Iceland. *Achlya racemosa* Hildebrand. Svensk Bot. Tidskr. 67: 438-444.
- JOHNSON, T.W. jr. 1974. Aquatic fungi of Iceland. Biflagellate species. Acta Nat. Isl. 23: 40 pp.
- JOHNSON, T.W. jr. 1975. Aquatic fungi of Iceland. *Brevilegnia bispora* Couch, and some related forms. Acta Bot. Isl. 3: 3-20.
- JOHNSON, T.W. jr., A.L. ROGERS & E.S. BENEKE. 1975. Aquatic fungi of Iceland. Comparative morphology of *Achlya radiosa*, *A. pseudoradiosa* and *A. stellata*. Mycologia 67: 108-119.
- JOHNSON, T.W. & R.L. SEYMOUR. 1974. Aquatic fungi of Iceland. *Achlya americana*. Am. Jour. Bot. 61: 244-252.
- JOHNSON, T.W. jr. & R.L. SEYMOUR. 1974. Aquatic fungi of Iceland. Comparative morphology of *Achlya spiracaulis* and *Achlya papillosa*. Nova Hedwigia 25: 433-449.
- JOHNSON, T.W. jr & R.L. SEYMOUR. 1975. Aquatic fungi of Iceland. A new species of *Saprolegnia*. Svensk Bot. Tidskr. 69: 89-96. (*Saprolegnia irregularis* is described new from Iceland).
- KOMMEDAHL, Th., CE. WINDELS & D.S. LANG. 1975. Comparison of *Fusarium* populations in grasslands of Minnesota and Iceland. Mycologia 67: 38-44.
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- SEYMOUR, R.S. & T.W. JOHNSON, jr. 1973. Saprolegniaceae: a keratinophilic *Aphanomyces* from soil. Mycologia 65: 1312-1318.
- SIGGEIRSSON, EINAR I. 1976. Snæsveppur, *Fusarium nivale* (Fr.) Ces. in Iceland. Res. Inst. Neðri Ás, Bull. 23: 13 pp.

LICHENS

- CRITTENDEN, P.D. 1974. Nitrogen fixation by lichens on glacial drift in Iceland. New Phytol. 74: 41-49.

- FILSON, R.B. 1975. Studies in antarctic lichens IV: Notes on *Umbilicaria aprina* Nyl. *Muelleria* 3: 130-140. (Icelandic samples were investigated for comparison).
- FRÍÐRIKSSON, STURLA. 1975. Surtsey, evolution of life on a volcanic island. Butterworths, London. 198 pp. (Includes a summary of lichen colonization in Surtsey until 1972).
- JÓHANSSON, BERGPÓR, HÖRÐUR KRISTINSSON & JÓHANN PÁLSSON. 1974. Skýrsla um grasafraðirannsóknir í Þjórsárverum 1972. (Report on botanical investigations in Þjórsárver, Central Iceland, 1972). Orkustofnun, raforku-deild, 7415: 153 pp, mimeograph. (Contains distribution maps for vascular plants, mosses and lichens in the area, descriptions and tables of the plant communities).
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- KRISTINSSON, HÖRÐUR. 1975. The vegetation of Þjórsárver, Central Iceland. I. The lichens. *Acta Bot. Isl.* 3: 21-35.

BRYOPHYTES

- ADALSTEINSSON, HÁKON. 1976. Lögurinn. Svifaur, gegnsæi og lífríki. (Suspended clay, transparency and life forms in Lögurinn, E-Iceland). Orkustofnun, raforkudeild 7609: 47 pp. (Information on bryophytes in the river of Lagarfljót are included).
- DIERSSEN, K. 1975. Ergänzungen zur Moosflora Islands. (Additions to the bryophyte flora of Iceland). *Herzogia* 3: 83-109.
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- FRAHM, J.-P. 1975. *Hylocomium pyrenaicum* and *Bartramia breviseta* new to Iceland. *Lindbergia* 3: 130.
- FRAHM, J.-P. 1975. Beiträge zur Moosflora von Island. *Herzogia* 3: 171-188.
- FRÍÐRIKSSON, STURLA. 1975. Surtsey, evolution of life on a volcanic island. Butterworth, London. 198 pp.
- GARÐARSSON, ARNÞÓR & STEFÁN H. BRYNJÓLFSSON. 1976. Rannsóknir á framleiðslu mosa í Tjarnaveri og Illaveri 1974. (Dry-weight production of mosses in Tjarnaver and Illaver, Central Iceland, in 1974). Orkustofnun, raforku-deild 7624: 18-36.
- JÓHANSSON, BERGPÓR. 1975. Thirteen moss species recorded new to Iceland. *Acta Bot. Isl.* 3: 97-99.
- JÓHANSSON, BERGPÓR, HÖRÐUR KRISTINSSON & JÓHANN PÁLSSON. 1974. Skýrsla um grasafraðirannsóknir í Þjórsárverum 1972. (Report on botanical investigations in Þjórsárver, Central Iceland, 1972). Orkustofnun, raforkudeild 7415: 153 pp. (Contains distribution maps for vascular plants, mosses and lichens in the area, and descriptions and tables of plant communities).
- MAGNÚSSON, SKÚLI. 1975. Additions to the bryophyte flora of Iceland. *Acta Bot. Isl.* 3: 100-101.
- MAGNÚSSON, SKÚLI & STURLA FRÍÐRIKSSON. 1974. Moss vegetation on Surtsey in 1971 and 1972. Surtsey Res. Progr. Rep. 7: 45-55. (72 species of bryophytes and hepatics are reported from Surtsey until the end of 1972. The main habitats are described and some distribution maps given).

SJÖGREN, E.A. 1974. Temperatures, steam emission and moss cover in thermal areas of Surtsey. Surtsey Res. Progr. Rep. 7: 26-34. (Correlation between steam condensation and bryophyte communities is demonstrated).

TRACHEOPHYTES, SOCIOLOGY, ECOLOGY AND MISCELLANEOUS PAPERS.

BENGTSON, S.-A. et al. 1975. Habitat selection of lumbricids in Iceland. Oikos 26: 253-263. (The relations between earth worm species and different vegetation types in Iceland are demonstrated).

BJÖRNSSON, HÓLMGEIR. 1975. Gróðurfarsbreytingar á framræstum vatnsbotni. (Plant colonization on a drained lake bottom). Náttfr. 44: 171-185.

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DAVIÐSSON, INGÓLFUR. 1974. Nokkrir jurtaslæðingar sumarið 1973. (Icelandic adventive plants observed in the summer of 1973). Náttfr. 44: 120-121.

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EINARSSON, EINAR H. 1974. Áhrif flúors frá Heimaeyjargosinu 1973 á gróður á svæðinu frá Eystri-Rangá að Mýrdalssandi. (The effects of fluor from the eruption in Heimaey on the vegetation in the area from Eystri-Rangá to Mýrdalssandur. Ársr. Ræktfél. Norðurl. 71: 96-103.

EINARSSON, EYÞÓR. 1975. Villtar blómplöntur og byrkningar í Heiðmörk. (Wild flowers and ferns in Heiðmörk, SW-Iceland). Ársr. Skógrfél. Ísl. 1975: 36-42.

EINARSSON, EYÞÓR. 1975. Gróðurfar á Hornströndum og í Jökulfjörðum. (The vegetation in Hornstrandir and Jökulfirðir, NW-Iceland). Náttfr. 45: 43-52.

EINARSSON, EYÞÓR. 1975. Plant colonization of "new" nunatak in Southeast Iceland. XII International Botanical Congress, Abstracts I: 142. Akademia Nauk SSSR, Leningrad.

EINARSSON, EYÞÓR. 1975. Flora and vegetation. In Iceland 874-1974, 19-21. Seðlabanki Íslands, Reykjavík.

EINARSSON, EYÞÓR. 1976. Flóra og gróður Herðubreiðarlinda (ásamt Herðubreið) og Grafarlanda eystra. (The flora and vegetation of Herðubreiðarlindir, including Herðubreið, and Grafarlönd eystri). Náttfr. 45: 186-204.

FITTER, R. & A. FITTER. 1974. The wild flowers of Britain and Northern Europe. Charles Scribner's Sons, New York. 336 pp. (Covers trees, shrubs and flowering plants, exclusive grasses and sedges, in Europe from the Alps to the Arctic, including Iceland).

FRÍÐRIKSSON, STURLA. 1972. Grass and grass utilization in Iceland. Ecology 53: 785-796.

FRÍÐRIKSSON, STURLA. 1974. The colonization of plants on Surtsey and its value in ecological studies of an island flora. Ber. Intern. Symp. Int. Ver. Vegetationskunde 1974: 389-403.

FRÍÐRIKSSON, STURLA. 1975. Surtsey, evolution of life on a volcanic island. Butterworths, London. 198 pp. (Includes a summary of plant colonization and succession in Surtsey, with enumeration of all species. Description and lists are given on the vegetation of the other Islands of Vestmannaeyjar).

FRÍÐRIKSSON, STURLA & ADALSTEINN JÓNSSON. 1975. Athugun á orkuforða nokkurra íslenskra plantna. (Energy measurements of five vascular plant species in Iceland). Jour. Agric. Res. Icel. 7: 63-66.

- FRIEDRICH, W.L. & LEIFUR SÍMONARSON. 1976. *Acer Askelssoni* n. sp., grosse neogene Teilfrüchte aus Island. (*Acer Askelssoni* n. sp., large, neogene samaras from Iceland). Palaeontographica, Beiträge zur Naturgeschichte der Vorzeit 155: 140-148.
- GARÐARSSON, ARNÞÓR. 1974. Rannsóknir á framleiðslu gróðurs og beit heiðagæsar. I. (Studies on plant production and grazing by pink-footed geese (*Anser brachyrhynchus*) I.) In Skýrsla um rannsóknir í Þjórsárverum 1972. Orkustofnun, raforkudeild 7414: 47 pp.
- GARÐARSSON, ARNÞÓR. 1976. Rannsóknir á framleiðslu gróðurs og beit heiðagæsar í Þjórsárverum 1972. II. (Studies on plant production and grazing by pink-footed geese (*Anser brachyrhynchus*) in Þjórsárver 1972. II). In Þjórsárver, framleiðsla gróðurs og heiðagæsar. Orkustofnun, raforkudeild 7624: 17 pp.
- GUÐLEIFSSON, BJARNI E. 1975. Um kal og kalskemmdir. IV. Samband veðurfars og kalskemmda. (Winter damage in cultivated grasslands IV. The relations between climate and winter damage). Ársr. Ræktf. Norðurl. 72: 45-64.
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- GUTTORMSSON, HJÖRLEIFUR. 1974. Austfirðingar í gróðurrikinu. (The eastern plants in the vegetation of Iceland). Árbók Ferðafélags Ísl. 1974: 42-44. (Includes information on the vertical and horizontal distribution of the eastern species in the Icelandic flora).
- HALLGRÍMSSON, HELGI. 1975. Nýr fundarstaður heiðarstarar. (A new locality for *Carex heleonastes* in Iceland). Týli 4: 80-81.
- HALLGRÍMSSON, HELGI. 1975. Flórunýjungar. (Additions to plant distribution in Iceland). Týli 4: 87-88. (Information on new localities for 22 vascular plants and 4 bryophytes in Iceland).
- HALLGRÍMSSON, HELGI. 1975. Um lífið í jarðveginum IV. Smádyralíf jarðvegsins í ýmsum gróðurlendum. (On the life in the soil IV. The animal life in the soil in different plant communities). Ársr. Ræktfél. Norðurl. 72: 28-44.
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- HALLGRÍMSSON, HELGI & JÓHANNES SIGVALDASON. 1974. Um lífið í jarðveginum III. Athuganir á rannsóknareitum á Víkurbakka við Eyjafjörð sumarið 1969. (The life in the soil III. Observations on experimental plots in Víkurbakki, Eyjafjörður, in the summer 1969). Ársr. Ræktfél. Norðurl. 71: 36-55. (Counts were made of different animal groups in the soil, and comparisons made between different plant communities).
- JANSEN, C.R., W. PUNT & T. REITSMA 1974. The North West European pollen flora 1. Introduction. Rev. Palaeobot. Palynol. 17: 1-4. (Description of a new, proposed publications of keys and photographs of the NW-European pollen flora as an aid to species level identification of pteridophyte and bryophyte spores and spermatophyte pollen. Includes Iceland).
- JÓHANSSON, BERGÞÓR. 1976. Mosaburkni (*Hymenophyllum wilsonii* Hooker) fundinn á Íslandi. (*Hymenophyllum wilsonii* Hooker found in Iceland). Náttfr. 45: 105-109.
- JÓHANSSON, BERGÞÓR, HÖRÐUR KRISTINSSON & JÓHANN PÁLSSON. 1974. Skýrsla um grasafræðirannsóknir í Þjórsárverum 1972. (Report on botanical investigations in Þjórsárver, Central Iceland, 1972. Orkustofnun, raforkudeild 7415: 153 pp. (Contains distribution maps for vascular plants, mosses and lichens in the area, descriptions and tables of the plant communities. Vascular plants are listed from four other localities in the Central Highlands for comparison).

- JONSELL, B., JOHANN PALSSON & E.-K. PORTÉN. 1975. Variation and affinities of *Trisetum spicatum* (L.) Richt. s. lat. (Gramineae) in Iceland. Svensk Bot. Tidskr. 69: 113-142.
- KRISTINSSON, HÖRÐUR. 1975. Recent literature on the botany of Iceland II. Acta Bot. Isl. 3: 102-104.
- KRISTINSSON, HÖRÐUR. 1975. The vegetation and flora of Iceland. American Rock Garden Soc. Bull. 33: 105-111.
- KRISTJANSSON, ÞORSTEINN. 1974. Rannsóknir á gróðurfari og kali túna í Borgarfirði eystra. (Investigations on vegetation and winter damage in hayfields in Borgarfjörður, E-Iceland). Ritgerðasafn Bændaskólans á Hvanneyri 74-89.
- LÁRUSSON, ÞÓRARINN & JÓHANNES SIGVALDASON 1974. Meltnleiki og efnamagn snarrotar í mismunandi hæð yfir sjó. (Digestibility and chemical composition of *Deschampsia caespitosa* growing at various elevations). Ársr. Ræktfél. Norðurl. 71: 73-83.
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- LÖTSCHERT, W. 1974. Über progressive und regressive Sukzessionen auf Island. (On progressive and retrogressive succession in Iceland). Res. Inst. Neðri Ás, Bull. 16: 16-25.
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- LÖVE, Á. 1976. IOPB Chromosome number reports LIII. Taxon 25: 483-500. (Including chromosome numbers of *Ophioglossum*, *Woodsia* and *Athyrium* from Iceland; Á. LÖVE & D. LÖVE).
- LÖVE, Á. & D. LÖVE. 1975. Cytotaxonomical Atlas of the Arctic Flora. J. Cramer, Vaduz. 598 pp. (A checklist of all families, genera, species and subspecies in the arctic, with critical information on their chromosome numbers, and an outline of their distribution).
- LÖVE, Á & D. LÖVE. 1976. Nomenclatural notes on arctic plants. Bot. Notiser 128: 497-523. (Nomenclatural changes connected with the Cytotaxonomical Atlas of the Arctic Flora, including eleven Icelandic taxa).
- MARCOTTE, J.L. 1974. Essai de croisements experimentaux entre taxa allies au *Plantago maritima* d'origines diverses. (Trial of experimental crossings between related taxa of *Plantago maritima* of various origins). Can. Jour. Bot. 52: 1913-1918. (Experimental crosses were used to try to solve the problem of precise classification of the Icelandic *Plantago maritima*).
- ÓLAFSSON, GUNNAR. 1973. Nutritional studies of range plants in Iceland. Jour. Agric. Res. Icel. 5: 1-63.
- ÓSKARSSON, INGIMAR. 1976. Ný íslensk undafífilstegund (*Hieracium paulsonii*). A new species of *Hieracium* from Iceland. Náttfr. 45: 183-185.
- RAENDEL, U. 1973. Beiträge zur Kenntnis der Sippenstruktur der Gattung *Papaver* L. Sectio *Scapiflora* Reichenb. (Papaveraceae). (Contributions to the knowledge of the tribal structure of the Genus *Papaver* L. Sectio *Scapiflora* Reichenb. Zeitschr. Bot. Taxon. Geobot. 84: 655-732.
- RODMAN, J.E. 1974. Systematics and evolution of the genus *Cakile* (Cruciferae). Contr. Gray Herb. 205: 3-146. (The Icelandic specimens of *Cakile* are re-

- ferred to *C. arctica* and not *C. edentula* as previously accepted).
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- SCHWABE, G.H. 1975. Zur Ökogenese auf vulkanischem Substrat. (The ecogenesis on volcanic substrate). *Ber. Internat. Verein. Vegetationskunde.* J. Cramer, Vaduz.
- SIEGEL, S.M., B.Z. SIEGEL, N. PUERNER, T. SPEITEL & F. THORARINSSON. 1975. Water and soil biotic relations in mercury distribution. *Water Air Soil Pollut.* 4: 9-18. (On the relationship between Hg in plant samples (mosses, lichens, basidiomycetes, algae, vascular plants) and in corresponding soil samples. Samples from Iceland are included).
- SÍMONARSON, LEIFUR Á. & W.L. FRIEDRICH. 1974. Bemerkungen zur Neogen-Flora von Island. (Remarks on the neogene-flora of Iceland). *Senckenberg* 10: 5-6.
- SÍMONARSON, LEIFUR Á. & W.L. FRIEDRICH. 1975. Eine grossflügelige *Acer*-Art aus dem Neogen von Island. (A large-winged *Acer*-species from the neogene of Iceland. *Cour. Forsch.-Inst. Senckenberg* 13: 137-139.
- STEINDÓRSSON, STEINDÓR. 1974. Skrá um íslenzk gróðurhverfi. (A list of Icelandic plant sociations). *Res. Inst. Neðri Ás, Bull.* 17: 1-23.
- STEINDÓRSSON, STEINDÓR. 1975. Studies on the mire-vegetation of Iceland. *Vísindafélag Ísl.* 41: 226 pp.
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