

## An overview of Ivka Maria Munda's algal research in Iceland 1963-2009

### MUNDA'S COLLECTION OF ICELANDIC MARINE ALGAE

The specimens of benthic marine algae from Iceland, collected by Dr. Ivka Maria Munda (1927-2009) from 1963 to 1980, are kept in the algal herbarium at the Botanical Museum of the University of Copenhagen (C), Gothersgade 130, Copenhagen, Denmark. Munda's collection of approximately 6,200 specimens is from the eulittoral and upper sublittoral in different areas of the Icelandic coast (Table 1). Information on the specimens can be accessed on the datapage of GBIF, the Global Biodiversity Information Facility ([www.gbif.net](http://www.gbif.net)) and is in the dataset from the Botanical Garden and Museum, the Algae Collection from Denmark, Faroe Islands and Iceland (The Danish Biodiversity Information Facility). Selecting specimens collected in Iceland between 1963 and 1980 from that dataset will result in a list of the specimens where I. Munda is the collector. Floristic and vegetational data on the collection sites is available in the relevant publications of Ivka Maria Munda listed here:

TABLE 1. Areas and localities in Iceland where Ivka M. Munda collected benthic marine algae in the years 1963-1980

South	The coast-line between the rivers Ölfusá and Þjórsá, the Reykjanes peninsula
Southwest	Borgarfjörður, Mýrar area, the Snæfellsnes peninsula
Northwest	The Barðaströnd coast (eastern part; from Reykhólar to Staður, western part; from Siglunes to Rauðsdalur), Dýrafjörður
North	Hornstrandir from Látravík to Furufjörður, Trékyllisvík Steingrímsfjörður, Skagaströnd, Fljót, Ólafsfjörður, Grímsey, Tjörnes, Melrakkaslétta
East	Langanes, Vopnafjörður, Mjóifjörður, Reyðarfjörður, Berufjörður, Seley, Papey
Southeast	The Land-locked fjords: Álftafjörður, Lónsfjörður, Papafjörður, Hornafjörður

## MUNDA'S PUBLICATIONS ON ICELANDIC MARINE ALGAE

- 1964 - The quantity and chemical composition of *Ascophyllum nodosum* (L.) Le Jol. along the coast between the rivers Ölfusá and Thjórsá (Southern Iceland). — *Botanica Marina* 7: 76-89.
- 1969 - Differences in the algal vegetation of two Icelandic fjords, Dýrafjörður (West Iceland) and Reyðarfjörður (East Iceland). — *Proceedings of the 6th International Seaweed Symposium, Santiago de Compostela 1968*: 255-261.
- 1970 - A note on the densities of benthic algae along a littoral rocky slope in Faxaflói, Southwest Iceland. — *Nova Hedwigia* 19: 535-550.
- 1970 - Rannsóknir á botngróðri við strendur Íslands 1963 til 1968. — *Náttúrufræðingurinn* 40: 1-25.
- 1972 - General features of the benthic algal zonation around the Icelandic coast. — *Acta Naturalia Islandica* 21: 1-34 (+15 plates).
- 1972 - On the chemical composition, distribution and ecology of some common benthic marine algae from Iceland. — *Botanica Marina* 15: 1-45.
- 1975 - Hydrographically conditioned floristic and vegetation limits in Icelandic coastal waters. — *Botanica Marina* 18: 223-235.
- 1976 - The distribution of the *Halosaccion ramentaceum* (L.) J. Ag. associations in the Icelandic coastal area and their hydrographically conditioned variations. — *Botanica Marina* 19: 161-182.
- 1976 - Some aspects of the benthic algal vegetation of the South Icelandic coastal area. — *Research Institute Neðri Ás, Hveragerði, Iceland. Bulletin* 25: 1-69.
- 1976 - Historical survey of main phycological activities in Iceland. — *Nova Hedwigia* 28: 231-240.
- 1976 - The amino acid composition of some common marine algae from Iceland. — *Botanica Marina* 19: 85-92. (With F. GUBENŠEK).
- 1977 - A comparison of the North and South European associations of *Corallina officinalis* L. — *Hydrobiologia* 52: 73-87.
- 1977 - The structure and distribution of the *Gigartina stellata* (Stackh.) Batters and *Chondrus crispus* Stackh. associations in Icelandic waters. — *Botanica Marina* 20: 291-301.
- 1977 - Differences in amino acid composition of estuarine and marine fucoids. — *Aquatic Botany* 3: 273-280.
- 1977 - Combined effects of temperature and salinity on growth rates of germlings of three *Fucus* species from Iceland, Helgoland and the Northern Adriatic. — *Helgoländer wissenschaftliche Meeresuntersuchungen* 29: 302-310.
- 1977 - Growth performance of *Alaria esculenta* (L.) Grev. off Helgoland. — *Helgoländer wissenschaftliche Meeresuntersuchungen* 29: 311-314. (With K. LÜNING).
- 1977 - The benthic algal vegetation of the island of Grímsey (Eyjafjarðarsýsla, North Iceland). — *Research Institute Neðri Ás, Hveragerði, Iceland. Bulletin* 28: 1-69.
- 1977 - A note on the growth of *Halosaccion ramentaceum* (L.) J. Ag. under different culturing conditions. — *Botanica Marina* 20: 493-498.
- 1978 - Survey of the benthic algal vegetation of the Dýrafjörður, Northwest Iceland. — *Nova Hedwigia* 29: 281-403.
- 1978 - *Porphyra thulaea* sp. nov. (Rhodophyceae, Bangiales) from East Iceland and West Greenland. — *Botanica Marina* 21: 283-288. (With P.M. PEDERSEN)

- 1978 - Salinity dependent distribution of benthic algae in estuarine areas of Icelandic fjords. — *Botanica Marina* 21: 451-468.
- 1978 - Trace metal content in some Icelandic seaweeds. — *Botanica Marina* 21(4): 261-263.
- 1979 - A note on the ecology and growth forms of *Chordaria flagelliformis* (O.F. Müll.) C. Ag. in Icelandic waters. — *Nova Hedwigia* 31: 567-591.
- 1979 - Addition to the check-list of benthic marine algae from Iceland. — *Botanica Marina* 22: 459-463.
- 1980 - Survey of the benthic algal vegetation of the Borgarfjörður, Southwest Iceland. — *Nova Hedwigia* 32: 855-927.
- 1980 - Contribution to the knowledge of the benthic algal vegetation of the Mýrar area (Faxaflói, Southwest Iceland). — Research Institute Neðri Ás, Hveragerði, Iceland. Bulletin 33: 1-49.
- 1981 - Tide pool associations of benthic algae in Icelandic waters. — Proceedings of the 10th International Seaweed Symposium, Gothenbourg 1980: 327-332.
- 1981 - A note on the main floristic and vegetation limits in Icelandic coastal waters. — Proceedings of the 8th International Seaweed Symposium, Bangor, North Wales 1974: 410-415.
- 1981 - A find of *Cladostephus spongiosus* (Huds.) C. Ag. (Phaeophyceae, Sphacelariales) in Iceland. — *Nova Hedwigia* 35: 55-61.
- 1981 - Some examples of polymorphism in benthic algae from Icelandic waters. — *Nova Hedwigia* 35: 377-406.
- 1983 - Survey of the benthic algal vegetation of the Reyðarfjörður as a typical example of the East Icelandic vegetation pattern. — *Nova Hedwigia* 37: 545-640.
- 1984 - The benthic algal vegetation of the Snaefellsnes Peninsula, southwest Iceland. — *Hydrobiologia* 116/117: 371-373.
- 1984 - Effects of heavy metals and their combinations on the growth rates of *Fucus* species. — Journées d'Études sur les Pollutions Marines en Méditerranée VII. Luzerne, C.I.E.S.M.: 727-731.
- 1985 - General survey of the benthic algal vegetation along the Barðaströnd coast (Breiðafjörður, West Iceland). — Research Institute Neðri Ás, Hveragerði, Iceland. Bulletin 44: 1-62.
- 1987 - Characteristic features of the benthic algal vegetation along the Snaefellsnes Peninsula (southwest Iceland). — *Nova Hedwigia* 44: 399-448.
- 1987 - Distribution and use of some economically important seaweeds in Iceland. — *Hydrobiologia* 151/152: 257-260.
- 1991 - Shoreline ecology in Iceland, with special emphasis on the benthic algal vegetation. — In: MATHIESON A.C. and NIENHUIS, P.H. (eds.). Ecosystems of the world 24. Intertidal and littoral ecosystems, pp. 67-81. — Elsevier, Amsterdam.
- 1992 - The gradient of the benthic algal vegetation along the eastern Icelandic coast. — *Acta Phytogeographica Suecica* 78: 131-141.
- 1992 - Hornstrandir—a conspicuous area of vegetation-shift in the extreme Northwest of Iceland. — *Acta Botanica Islandica* 11: 17-88.
- 1992 - Gradient in seaweed vegetation patterns along the North Icelandic coast, related to hydrographic conditions. — *Hydrobiologia* 242: 133-147.
- 1994 - The benthic algal vegetation of the Mjóifjörður, Eastern Iceland. — *Netherlands Journal of Aquatic Ecology* 28: 35-49.

- 1996 - The distribution of seaweeds in cold temperate areas of the northern hemisphere, related to hydrographic conditions and palaeoclimatic changes. – *Dissertationes SAZU (IV)* 37: 207-234.
- 1997 - Survey of the benthic algal vegetation of the Steingrímsfjörður (Húnaflói, North Iceland). – *Nova Hedwigia* 64: 567-612
- 1999 - The benthic algal vegetation of land-locked fjords in southeastern Iceland. – In: BLOMQVIST, E.M., BONSDORFF, E. & ESSIK, K. (eds.). Biological, physical and geochemical features of enclosed and semi-enclosed marine systems. *Hydrobiologia* 393: 169-180.
- 1999 - Survey of the benthic algal vegetation of the Berufjörður, southeastern Iceland. – *Nova Hedwigia* 69: 473-516.
- 2000 - Macrophytobenthos in brackish lagoons and inlets in northeastern Iceland. – *Acta Botanica Islandica* 13: 55-68.
- 2004 - The Tjörnes Peninsula – a site of different vegetation patterns in the North of Iceland. – *Acta Botanica Islandica* 14: 3-52.
- 2004 - The structure and distribution of Fucacean associations in the Icelandic coastal area. – *Acta Botanica Islandica* 14: 103-159.
- 2011 – Floristic and vegetational discontinuity along the frontal zone in southeastern Iceland. – *Acta Botanica Islandica* 15: 61-79.