

V Í S I N D A F É L A G Í S L E N D I N G A  
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XX.

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ICELANDIC MALACOSTRACA  
IN THE MUSEUM OF REYKJAVÍK

BY

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REYKJAVÍK - ÍSAFOLDARPRENTSMÍÐJA H.F. - MCMXXXVII

## INTRODUCTION.

During the last four decades the present writer has made numerous trips in the waters round Iceland on board Danish Research Steamers (the "Thor" and the "Dana"), in a Scottish Research Steamer (the "Explorer"), in an Icelandic patrol vessel (the "Þór", formerly the above mentioned "Thor") and in Icelandic commercial trawlers (the "Brimsnæs", the "Coot" and the "Skallagrímur"). Furthermore he has made two trips on his own account in motorboats in the fjords of the NW- and W-coast of the island and visited many fishing places round the coasts. On all these trips, which have been made for ichthyo-biological purposes<sup>1)</sup> he has in the course of the years collected a good many crustaceans, mostly of the division *Thoracostraca*, and often had the opportunity of making some biological observations concerning several of these animals.

The collections thus made by the writer have successively been stored up in the little Museum of the Nat. hist. Society of Iceland, where also some elder material, collected by masters of fishing smacks from Reykjavík, is still to be found. All this material, save for the *Amphipoda*, has been worked up and named by the writer, but hitherto nothing has been published about it, except in a popular form in an Icelandic periodical.<sup>2)</sup>

Now I see no reason for keeping the data regarding the naming, occurrence and biology of the animals in question

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1) Cfr Synopsis of the Fishes of Iceland. Rit visindafélags Íslendinga II, the Preface.

2) Náttúrufræðingurinn VI, 3. Reykjavík 1936.

hidden from those, who might take some interest in the knowledge of the marine fauna of Iceland, all the more, as up to this time nothing has been written about Icelandic *Malacostraca* separately and as there now has been started a cooperation between Danish and Icelandic zoologists, for the purpose of collecting all the data obtainable, regarding the fauna of Iceland and successively publishing an up to date "Zoology of Iceland". The records I am going to put down on the following pages, can be looked upon as a report of the results of my above mentioned collecting and observations and a tribute to this cooperation, which might be of some use for those who have to treat the higher crustaceans.

*Explanations and abbreviations.*

In the following survey the limits for the area here looked upon as the continental shelf of Iceland, with its neritic, to the Icelandic waters belonging fauna, will (as in my above cited Synopsis) be put at the depth curve of 400 meters, and specimens taken beyond it not be treated.

The coast is divided into following sections: The South-coast from Eystra-Horn to Reykjanes, the West-coast from Reykjanes to Straumnes, the North-coast from Straumnes to Langanes and the East-coast from Langanes to Eystra-Horn. SW-coast from Ölfusá to Snæfellsnes, NW-coast from Bjargtangar to Straumnes, NE-coast from Rifstangi to Glettinganes and SE-coast from Berufjörður to Ingólfshöfði.

The depths are given in metres (m), distances in nautical miles, dimensions of specimens as rule in millimetres (mm).

Most of the names of the more important fishing grounds, mentioned, are to be seen on the following chart.

St. = research station, Tr. = ottertrawl, Es. = eel-seine, Ag. = Agassiz-trawl, Ytr. = youngfish-trawl, Dr. = dredge, Ll. = long line, Hl. = handline, Spm. = specimen or specimens, Occ. = occurrence, Ibid. = ibidem, i. e. the same tract, bottom = on the bottom, surface = at the surface, Vestm. = Vestmanneyjar, G.G.B. = Guðm. G.

Bárðarson, B.S. = the author, Skallagr. = the steam-trawler Skallagrímur, ð = d, þ = th.

The following records will be given in the form of a list, without any systematic discussions or descriptions of the animals treated.

## I. THORACOSTRACA.

### A. DECAPODA.

#### a. DECAPODA NATANTIA.

1. *Pandalus Montagu* Leach (*P. annulicornis* Leach), Icel.: Litli kampilampi. — *Occ.*: 10 miles of Eystra-Horn, 230 m, Skallagr., B.S., Tr. 1, medium-sized female with eggs; in the stomach of *Sebastes marinus*. — Meðallandssjór, 75 m, Ytr. bottom, Thor, B.S., 1 Spm., 25 mm. — Fjallasjór, 50 m, Thor, B.S., 2 grown-up Spm., the 2 biggest, 40 and 50 mm, in a cod's stomach. — Vestm., B.S., Ll., 2 Spm., in the stomach of a cod, 22 and 25 mm. — On the N-side of Elliðaey, Vestm., 70—80 m, Thor, B.S., Ytr. bottom, 3 Spm., 20—40 m. — On the W-side of Geirfuglasker, Vestm., 150 m, Dana, St. ?, 1927, Tr., B.S., many Spm. — 5 miles off Selvogstangar, 114 m, Explorer, B.S., Tr., a great number. — Selvogsbanki, 170 m, Thor, B.S., Ytr., on the bottom, 8 medium-sized Spm. — Grindavíkursjór, 70—80 m, Eiríkur Tómasson, Ll., many small Spm. in an haddock's stomach. — *Ibid.*, 130—150 m, B.S., Ll., many grown-up Spm., in the stomach of *Phycis Blennioides*. — Eldeyjarbanki, 150 m, Explorer, St. 36, 1925, Tr., B.S., many. — Miðnessjór, B.S., Ll., one grown-up Spm. in a cod's stomach. — Garðsjór, off Gerðar, 30—40 m, Explorer, B.S., Tr. and Ag., many small Spm. — *Ibid.*, 34—37 m, Dana, B.S., Tr., 2 Spm., small and grown-up. — Faxaflói, Sviðið, B.S., Ll., 5 small Spm. — *Ibid.*, Norður-Svið, Þór, B.S., Tr., 10 Spm., 20—45 mm, in the stomach of a small cod. — *Ibid.*, Bollasvið, Þór, B.S., Tr., 8 Spm., 40—60 mm. — *Ibid.*, Sviðið, 38—68 m, Thor, St. 34, 1908,

Tr., many Spm. — Ibid., B.S., in the stomach of a small *Cyclopterus lumpus*, 1 Spm. — Ibid., off Reykjavik, 10 m, B.S., Dr., St. 99, 1909, 2 small Spm. — Ibid., Hvalfjörður, Hrafneyri, B.S., Es., 20—0 m, great many, 35—50 mm Spm., and Thor St., 1904, Es. 20—0 m, a few Spm. — Ibid., Hvalfjörður, Hvammsvík, 6—0 m, B.S., St. 100, 1909, Es., many large Spm. — Faxaflói, Akraneshraun, Har. Böðvarsson, 1 Spm. — Ibid., Norður-Kantar, Ól. Friðriksson, 1 Spm., 35 mm, in an haddock's stomach. — Breiðafjörður, Kolgrafafjörður, B.S., St. 37, 1909, Es. 4—0 m, 1 Spm., 33 mm, Dr. 30—35 m, 7 medium-sized Spm. — Ibid., SSE off Vaðstakksey, 37—64 m, B.S., St. 12, 1909, Dr., 12 small and medium-sized Spm. — Ibid., off Stykkishólmur, 20—28 m, B.S., St. 48, 1909, Dr., 1 medium-sized Spm. — Ibid., Skoreyjar, 26—28 m, B.S., St. 4, 1909, Dr., 5 small Spm. — Ibid., Álftafjörður, 5 m, B.S., St. 15, 1909, Dr., 12 small and medium-sized Spm. — Ibid., Hvammsfjörður, 15—20 m, B.S., St. 22, 1909, Tr., 10 small Spm. — Ibid., NW off Ballarár-Hrappsey, 15—18 m, B.S., St. 68, 1909, Tr., 7 Spm., 25—33 mm. — Ibid., off Skarðstöð, 6—8 m, B.S., St. 63, 1909, Tr., 4 medium-sized Spm. — Off the NW-coast, Markús Bjarnason, Hl., 4 Spm., 22—25 mm, in a cod's stomach. — Ibid., Þór. Thorlacius, Hl., 2 Spm., 30 mm. — Ibid. far off, Kristján Bjarnason, Hl., 12 Spm., 25—35 mm. — Ibid., Stefán Pálsson, Hl., 1 Spm., 30 mm. — Ísafjarðardjúp, Bolungarvíkurmið, Þorgr. Sveinsson, Ll., 3 Spm., 30—32 mm, and "at intervals during the winter 1901—1902". — Ibid., Ll., B.S., 2 medium-sized Spm. — Ibid., Skutulsfjörður, B.S., Ll., 1 small Spm. in the stomach of a small cod. — Ibid., Skötufjörður, 50—60 m, B.S., St. 12, 1908, Dr., 1 small Spm., and 16—30 m, Tr., 2 Spm., 25—30 mm. — Ibid., Mjóafjörður, 15 m, B.S., St. 19, 1908, Dr., 6 medium-sized Spm. — Ibid., Ísafjörður, 0—20 m, B.S., St. 26, 1909, Ytr., 1 small Spm. — Hali, 150—200 m, Skallagr., B.S., Tr., some few Spm., in the stomach of *Sebastes marinus*, 1 30 mm Spm. infested by *Pseudione affinis* on both sides under the carapace. — Steingrímsfjörður, 20—40 m, B.S.,

St. 46, 1908, Dr., 5 small Spm. — Skagagrunn, 130—150 m, Skallagr., B.S., Tr., 1 medium-sized Spm. — Skagafjörður, Dana, St. 2753, B.S., Tr., 8 Spm., 39—54 mm. — Eyjafjörður, Lúðv. Guðmundsson, 4 Spm., in a cod's stomach. — Héraðsflói, Thor, St. 188, 1903, B.S., Ytr. bottom, 2 Spm. — Seyðisfjörður, off Skálanes, Thor, St. 191, 1903, B.S., Ll., 20 Spm., 17—37 mm, in a cod's stomach.

From the above given records, it will be seen, that this species is very common in the warm and shallow water along the S- and W-coast of Iceland, both in inshore and offshore waters and not rare in the colder regions along the N- and E-coast, and descends in certain places on the edge of the continental shelf (e.g. Hali) down to 200 m. Most of the specimens recorded are medium-sized. Some few females, 35 mm or larger, taken between 28/II and 24/V, have had eggs under the tail. Most of the specimens recorded are taken in the summer (May—August).

As this species is one of the most common of the icel. *Thoracostraca*, in the warmer waters, it plays a great rôle as food for different fishes, especially the smaller cod.

2. *Pandalus borealis* Kr., Icel.: Stóri kampalampi. — Occ.: Off the S-coast, Indr. Gottsveinsson, Tr., 1 Spm., 53 mm. — W of Geirfuglasker (Vestm.), 150 m, Dana, 1927, B.S., Tr., great many medium-sized Spm. — Selvogsbanki, 170 m, Thor, St. 176, 1904, B.S., Ytr., 2 Spm., 30 and 35 mm. — Ibid., the edge of the bank, 170 m, Thor, St. 116, 1904, B.S., Ytr. on the bottom, 10 medium-sized Spm. — Ibid., ca 150 m, Dana, St. ?, 1927, Tr., B.S., great many medium-sized Spm. — Eldeyjarbanki, 2 miles NW of Eldey, 140 m, Thor, B.S., Ytr. bottom, 1 Spm., 70 mm. — Hvalfjörður, Hrafneyri, Thor, 1904, Es., 22—0 m, great many. — Ibid., B.S., St. 99, 1909, Es., 20—0 m, some 35—60 mm Spm. — Jökuldjúp, 180—200 m, Skallagr., B.S., Tr., great number, many full-grown, until 110 mm long Spm., many females, with nearly full-hatched eggs. — Suður-Kantar, 45 miles WNW of Garðskagi, ca 280 m, Skallagr., B.S., Tr., 4 Spm., 150—160 mm, 3 fe-

males with half-hatched eggs. — Bolungarvíkurmið, B.S., Ll., 4 medium-sized Spm., in a cod's stomach. — Ísafjarðardjúp, B.S., Ll., 1 grown-up Spm., in a cod's stomach. — Ibid., Ísafjörður, 75 m, B.S., St. 27, 1908, Ytr., 22 Spm., 20—25 mm. — Hali, 225 m, Skallagr., B.S., Tr., good many, mutilated, Spm., in the stomach of *Sebastes marinus*. — Kögurgrunn, 250 m, Skallagr., B.S., several Spm., 130—140 mm, with eggs. — Strandagrunn, 45 miles NE of Horn (C. North), 175—180 m, Skallagr., B.S., Tr., a great number of full-grown Spm., in the stomach of cods. — Ibid., Strandagrunnsbrún, 175—180 m, Skallagr., B.S., Tr., some Spm. in the stomach of different fishes. — Ibid., Hornbanki, ca 200 m, Skallagr., Sveinbj. Pétursson, Tr., 1 big female, with eggs. — Eyjafjarðaráll, 400—420 m, Dana, St. 2193, 1924, B.S., Ll., a great number of grown-up Spm., in the stomach of cod, 4 Spm., 140—155 mm. — Eyjafjörður, Svalbarðseyri, Th. Jakobsson, Ll., 1 Spm., 55 mm, in a cod's stomach. — Héraðsflói, 51 m, Thor, St. 188, 1903, B.S., Tr., 1 Spm., 130 mm. — The mouth of Reyðarfjörður, 152—160 m, Tr., a lot of grown-up Spm.

This species is very common at Iceland, and surely much more common, than the few records above show, especially in the colder and deeper waters on the NW-, N-, and E-coast, and a very important part of the food of the cod. In the last year some efforts have been made to catch it for commercial purposes and export. — The author has seen females, 130 mm or larger, with eggs in hatching from 5th to 20th of May.

3. *Pandalus Bonnierii* Caull. — Occ.: I have seen it from two places only, near Vestmanneyjar: 10 miles SE of Heimaey, 260 m, Thor, St. 172, 1903, B.S., Ytr. bottom, 2 Spm., 35—45 mm, out of a great number, and 12 miles SE of Heimaey, 265 m, Thor, St. 171, 1903, B.S., Ytr. bottom, 2 half-grown Spm. Probably numerous off the S-coast, as the temperature of the water here is higher than elsewhere off the coast of Iceland.

4. *Spirontocaris (Hippolyte) Lilljeborgi* Dan. (*Sp. se-*

*curifrons* Norm.), Icel.: Axarrækja. — *Occ.*: Háfadjúp, 12 miles SE of Heimaey, Vestm., Thor, St. 171, 1903, B.S., Ytr. bottom, 1 small Spm. — 10 miles SE of Heimaey, 260 m, Thor, St. 172, 1903, B.S., Ytr., bottom, 1 large Spm. — 2 miles NW of Eldey, Thor, St. 171, 1904, 150 m, B.S., Ytr., bottom, 5 Spm., until 45 mm. — Jökuldjúp, Dana, St. 2148, 1924, B.S., Ll., 1 large Spm. in the stomach of a torsk. — Héraðsflói, 47 m, Thor, St. 188, 1903, B.S., Ytr., bottom, 1 large Spm. — Seems to be not very rare in the warmer area off the S- and SW-coast:

5. *Spirontocaris (Hippolyte) spinus* Sow., Icel.: Þornrækja. — *Occ.*: Faxaflói, Akranessjór, B.S., in the stomach of an haddock, 1 medium-sized Spm. — *Ibid.*, 2 miles NW of Skipaskagi, in the stomach of a cod, B.S., 1 medium-sized Spm. — Breiðafjörður, Kolgrafafjörður, 12—25 m., B.S., St. 33 and 38, 1909, 3 Spm., 1 small, 2 43 and 50 mm. — *Ibid.*, Stykkishólmur, 10—24 m, B.S., St. 14 and 48, 1909, Dr., 2 large and two small Spm. — *Ibid.*, Hvammsfjörður, 14—64 m, B.S., St. 12 and 25, 1909, Dr., 8 Spm., 20—45 mm. — Off the NW-coast, in deep water, Kr. Bjarnason, 1 large Spm., with a *Bopyrus* under the carapace. — Ísafjarðardjúp, Skötufjörður, 47—56 m, B.S., St. 12, 1908, Dr., 1 large Spm. — *Ibid.*, Mjóafjörður, 15—35 m, B.S., St. 18, 1908, Dr., 1 medium-sized Spm. — *Ibid.*, Bolungarvíkurmið, ca 110 m, B.S., Ll., 1 large Spm. in a cod's stomach. — Hali, ca 200 m, Skallagr., B.S., Tr., 1 large Spm. — Steingrímsfjörður, the mouth, ca 110 m, B.S., 3 large Spm. in a cod's stomach. — *Ibid.*, G.G.B., Ll., 1 medium-sized Spm. — E-coast, Reykjaboði off Mjóafjörður, ca 40 m, B.S., Ll., 1 large and 1 small Spm. — *Ibid.*, 2 miles off Barðsneshorn, ca 50 m, B.S., Ll., 1 medium-sized Spm. in a cod's stomach. — *Ibid.*, Gerpisröst, 40—50 m, B.S., Ll., 1 medium-sized Spm., in the stomach of a cod. — Seems to be pretty common on the W-, N- and E-coast, and of some importance as food for the cod.

6. *Spirontocaris (Hippolyte) Gaimardi* M. Edw., Icel.: Pálsrækja. — *Occ.*: Selvogsbanki, 32 miles off Selvogstangar, Thor, St. 176, 1904, B.S., Ytr., 1 large Spm. —

Faxaflói, Hafnarfjörður, 4—10 m, Thor, B.S., Es., 6 Spm., ca 20 mm, 1 with eggs under the tail. — Ibid., Reykjavík, 8—10 m, B.S., Dr., 4 large Spm. — Ibid., 10—12 miles WSW of Skipaskagi, 40—55 m, Thor, St. 159, 1903, B.S., 1 Spm. — Breiðafjörður, Kolgrafafjörður, 15—0 m, B.S., St. 37, 1909, Es., 2 Spm., 1 large, 1 small. — Ibid., Stykkishólmur, 10—15 m, B.S., St. 14, 1909, 1 Spm. with eggs. — Ibid., Álfafjörður, 5 m, B.S., St. 15, 1909, Dr., 14 Spm., 10—23 mm. — Hvammsfjörður, 45 m, B.S., St. 68, 1909, Dr., 1 medium-sized Spm. — Ibid., NW of Ballarár-Hrappsey, 15—18 m, B.S., St. 68, 1908, Tr., ca 90 Spm., 10—20 mm. — Ibid., Skarðstöð, 6—7 m, B.S., St. 63, 1908, 27 Spm., 10—20 mm. — Patreksfjörður, Vatneyri, Thor, St. 272, 1904, B.S., Es., 2 Spm., 40—45 mm. — Ísafjarðardjúp, Hestfjörður, 23—0 m, B.S., St. 14, 1908, Es., 3 medium-sized. — Ibid., Skötufjörður, 8—30 m, B.S., St. 7, 1908, Tr., 1 large Spm., 14—1 m, B.S., St. 2 and 11, Es., 5 large and 1 small Spm., and 6—8 m, B.S., St. 5, Tr., 5 Spm., 15—20 mm. — Ibid., Ísafjörður, 0—26 m, B.S., St. 29, Es., 2 small Spm. — Húnaflói, Steingrímsfjörður, 20—40 m, B.S., St. 46, 1908, Tr., 4 large Spm. — Ibid., Kollafjarðarnes, G.G.B., 4 large (34—45 mm) and 3 medium-sized Spm. — Ibid., Kollafjörður, G.G.B., 16 Spm., 13—20 mm. — Ibid., Hrutafjörður, 20—0 m, B.S., St. 55, 1908, 10 Spm., small and large. — E-coast, Seyðisfjörður, Thor, St. 39, 1904, shrimp-net, 3 Spm., 45—50 mm, with half-hatched eggs („eye-eggs“). — Ibid., Reykjaboði off Mjóafjörður, ca 40 m, B.S., Ll., 5 large and medium-sized Spm. in stomachs of small cod. — Ibid., Eskifjörður, Thor, St. 52, 1904, Es., 9 Spm., 35—50 mm, where of 5 over 45 mm, had half-hatched eggs. — This species seems to be very common in shallow water on the W-, N- and E-coast and of some importance as food for small cod. I have seen females with eggs on the tail between 26/IV and 9/VI.

7. *Spirontocaris (Hippolyte) pusiola* Kr., Icel.: Litla rækja. — Occ.: Faxaflói, Reykjavík, B.S., on the beach, very numerous, 10—25 mm. — Breiðafjörður, Stykkis-

hólmur, 20—24 m, B.S., St. 48, 1909, Dr., 1 Spm., 25 mm. — Ísafjarðardjúp, Skötufjörður, 47—56 m, B.S., St. 12, 1908, Dr., 1 large and 1 small Spm. — Ibid., Mjóafjörður, 15—35 m, B.S., St. 19, Dr., 1 large Spm. — NE-coast, Raufarhöfn, 10 m, B.S., Dr., 2 large Spm. — Seems to be abundant on the beaches of the Faxaflói, all the year round. I have found females, 10 mm or larger, with eggs on the tail from 1/II to 18/IX.

8. *Spirontocaris (Hippolyte) polaris* (Sab.), Icel.: Pól-rækja. — Occ.: Vestmanneyjar, B.S., 153 mm Spm., in a cod's stomach. — Selvogsbanki, the outer edge, 170 m, Thor, St. 116, 1903, B.S., Ytr., 1 large. — Ibid., 32 miles of Selvogstangar, 170 m, Thor, St. 176, 1904, B.S., Ytr., surface, 14 Spm., large and small. — Faxaflói, Skerjafjörður, B.S., in the stomach of a small cod, 1 large. — Breiðafjörður, Skoreyjar, 25—28 m, B.S., St. 4, 1909, Tr., 1 small Spm. — Ísafjarðardjúp, 10—40 m, B.S., St. 35, 1908, Tr., 1 large Spm. — Ibid., Skötufjörður, 47—56 m, B.S., St. 12, 1908, Dr., 1 medium-sized. — E-coast, 2 miles of Barðsneshorn, 56 m, B.S., Ll., 4 Spm., 40—60 mm, in the stomach of cod. — Ibid., Gerpisröst, 40—50 m, B.S., Ll., 9 Spm., 40—60 mm, in a cod's stomach. — Ibid., Vattarnes, B.S., Ll., 3 mutilated Spm., in the stomach of a cod. — Seems to be pretty common all round the country, and on the E-coast of some importance as food for the cod.

9. *Hymenodora glacialis* Buckh., Icel.: Ísrækja. — Occ.: The outer edge of Strandagrunn, 235—250 m Skallagr., B.S., Tr., a great number, 80—90 mm, in the stomach of the cod, many females with eggs. — Ibid., Skallagr., Sveinbj. Pétursson, Tr., a great number of half-digested Spm. in the stomach of the cod, some females with eggs. — Seems to be very numerous, and a considerable part of the food of the cod, in the spring, in the cold water outside the Strandagrunn. — Mothers are carrying eggs in May.

10. *Caridion Gordoni?* M. Sars. — Occ.: Fjallasjór, 10

miles SE of Vestm., 266 m, Thor, St. 171, B.S., Ytr., bottom, 1 grown-up Spm. (identification doubtful).

11. *Sclerocrangon boreas* Phipps, Icel.: Marþvari. — Occ.: Faxaflói, Hafnarfjörður, Matth. Þórðarson, 1 Spm. — Ibid., Reykjavík road, 8 m, B.S., Dr., 1 Spm. 50 mm. — Ibid., Kollafjörður (Hofsvík), 5—10 m, B.S., St. 116, 1909, Tr., 1 Spm. — Ibid., Hvalfjörður (Hvammsdjúp), 50 m, B.S., St. 102, 1909, Ytr., bottom, 12 Spm., 20—40 mm. — Ibid., Hvalfjörður (Hrafneyri), 22—0 m, Thor, St. ?, 1904, Es., 1 gigantic Spm., and B.S., St. 99, 1909, some large Spm. — Ibid., Hvalfjörður (Innra-Hólmsvík), 10—20 m, B.S., St. 112, 1909, Tr., 2 Spm. — Ibid., Jökuldjúp, Tr. Gunnarsson, 1 Spm., 54 mm. — Breiðafjörður, SSE of Vaðstakksey, 37—64 m, B.S., St. 12, 1909, 1 small Spm. — Ibid., off Stykkishólmur, 20—24 m, B.S., St. 48, Dr., 1 Spm., 20 mm. — Ibid., Álftafjörður, 5 m, B.S., St. 14, 1909, Dr., 3 Spm., 40—50 mm. — Ibid., Purkeyjarstraumur, Kr. Sigurðsson, 1 male, 90 mm. — Ibid., Hvammsfjörður, off Skoruvík, 17—20 m, B.S., St. 21 and 22, 1 male, 43 mm, and 6 females, 40—96 mm. — Ibid., Hvammsfjörður, off Búðardalur, 10 m, B.S., St. 25, Tr., numerous Spm. — Ibid., Skarðstöð, 0—2 m, B.S., St. 65, 1908, Es., 1 Spm. — Patreksfjörður, Sveinbj. Sveinsson, 1 female, 100 mm, with eggs. — Dýrafjörður, A. Proppé, 1 male 90 mm and 1 female 105 mm. — Ísafjarðardjúp, 10—40 m, B.S., St. 39, Tr., 1 small Spm. — Ibid., Skutulsfjörður, St. Runólfsson, 1 Spm. — Ibid., Hestfjörður, 23—0 m, B.S., St. 14, 1908, Es., 2 Spm., 31 and 42 mm. — Ibid., Skötufjörður, 45—55 m, B.S., St. 12, 1908, Dr., 1 Spm., 7 mm. — Ibid., Mjóafjörður, 35—15 m, B.S., St. 18, Dr., 1 Spm. 68 mm, and 1 38 mm. — „Off the NW-coast“, Þór. Thorlacius, 1 Spm., 45 mm. — Ibid., Kr. Bjarnason, 1 Spm., 63 mm. — Strandagrunn, Hornbanki, ca 160 m, Skallagr., Sveinbj. Pétursson, Tr., 2 medium-sized Spm. — Húnaflói, Steingrímsfjörður, G.G.B., 1 Spm., 52 mm, in the stomach of an haddock. — Ibid., Steingrímsfjörður, Hólmavík, 20—40 m, B.S., St. 46, 1908, Tr., 9 Spm., 34—49 mm. — Ibid., Kollafjörður, G.G.B., 2 females, 80

and 103 mm. — Ibid., Kinnaráll, G.G.B., 1 Spm., ca 100 mm, in a cod's stomach. — Eyjafjörður, Hrísey, 20 m, B.S., Dr., „coral“-bottom, 3 males, 34—38 mm. — Skjálfsandi, 110 m, Ben. Jónsson, 1 Spm., 90 mm, in the stomach of a cod. “It looked as if the cod here did consume a lot of that kind of food”, does the collector remark, — E-coast, Héraðsflói, 113 m, Thor, St. 189, 1903, 1 Spm., 80 mm. — Ibid., Héraðsflói, B. Kr. Grímsson, Ll., 1 male, 60 mm. — Ibid., 2 miles off Barðsneshorn, 60 m, B.S., Ll., 1 small Spm. in a cod's stomach. — Ibid., Fáskrúðsfjörður, Magnús Gíslason, 1 Spm., 17 mm, in the stomach of a cod. — This species is very common on hard bottom, all round the country, especially in shallow water, and on rough (“coral”) bottom in the fjords, often nicely coloured in accordance with the surroundings, like some members of the Cottid-family. First described by Egg Ólafsson and depicted by N. Mohr. Tastes excellent as food, but would prove difficult to catch on account of the rough bottom it prefers.

12. *Crangon Allmani* Kin., Icel.: Hrossarækja. — Occ.: Meðallandssjór, 56 m, Thor, St. 178, 1903, B.S., Ytr., bottom, a great number. — Fjallasjór, 70 m, Thor, St. 176, 1903, B.S., Ytr., bottom, 1 Spm., ca 50 mm. —  $\frac{2}{3}$  mile E of Bjarnarey, Vestm., 120 m, Thor, St. 173, 1903, B.S., Ytr., bottom, 2 Spm., 50 mm. — Off Markarfljótsós, 50 m, Thor, St. 175, 1903, B.S., Tr., 1 large Spm. — N of Elliðaey, Vestm., 70—80 m, Thor, St. 188, 1904, B.S., Ytr., bottom, 1 medium-sized. — Selvogsbanki, 32 miles S of Selvogstangar, 170 m, Thor, St. 176, B.S., Ytr., bottom, 1 medium-sized. — 5 miles S of Selvogstangar, 114 m, Explorer, B.S., Ag., some few Spm. — Faxaflói, Garðsjór, 34—37 m, Dana, St. 2139, B.S., Tr., Ll., medium-sized. — Ibid., Akranes-Forir, 65—70 m, B.S., St. 94, 1909, Dr., 4 medium-sized. — Ibid., B.S., 1 Spm., in the stomach of an haddock. — Ibid., Bollasvið, ca 40 m, Þór, B.S., Tr., 3 females, 40—50 mm, with eggs. — Ibid., Reykjavík road, 5 m, B.S., Dr., 1 Spm. — Breiðafjörður, Kolgrafafjörður, 30 m, B.S., St. 35, 1909, Dr., 1 Spm. —

Ibid., Hvammsfjörður, 14—18 m, B.S., St. 25, 1909, 1 small Spm., and B.S., St. 20, 45 m, Dr., 1 medium-sized. — E-coast, Héraðsflói, 47 m, Thor, St. 188, 1903, B.S., Ytr., bottom, 1 Spm. — Ibid., 20—30 m, Dana, St. 2219, B.S., Tr., 5 Spm., 50—65 mm. — Ibid., Reyðarfjarðarfláki, ca 180 m, Skallagr., B.S., Tr., 1 large Spm. in the stomach of *Raja radiata*. — This species is no doubt much more common than might be suggested from these records, I have seen it in many places not mentioned here and mothers with eggs in March—July. Surely of some value as food for cod and other fishes.

13. *Pontophilus norvegicus* M. Sars, Icel.: Noregsrækja. — Occ.: Háfadjúp, 12 miles E of Vestm., 265 m, Thor, St. 171, 1903, B.S., Ytr., bottom, 1 large Spm. — E-coast, Héraðsflói, 47 m, Thor, St. 188, 1903, B.S., Ytr., bottom, 1 Spm. — Ibid., Reyðarfjarðarfláki, 180 m, Skallagr., B.S., Tr., 1 Spm. in the stomach of *Raja radiata*; female with eggs (14/VII). — Not found elsewhere.

14. *Sabinea septemcarinata* Sab., Icel.: Sabínsrækja. — Occ.: Húnaflói, Steingrímsfjörður, 20—40 m, B.S., St. 46, 1908, Tr., 33 Spm., 25—50 mm. — Not found elsewhere, but very likely it should be common in shallow water on the N- and E-coast, as it is found so numerous in this single locality.

#### b. DECAPODA REPTANTIA.

1. *Nephrops norvegicus* L., Icel.: Leturhumar. — Occ.: Litladjúp, 190—235 m, Skallagr., B.S., Tr., 1 male, 134 mm. — 15 miles SE of Eystra-Horn, abt. 140 m, Skallagr., B.S., Tr., 1 male, 233 mm (right *chela* 135). — Fjallasjór, 3 miles E of Vestm., 113 m, Thor, St. 173, 1903, B.S., 6 Spm., 65—115 mm, in the stomach of a cod. — Vestmann-eyjasjór, 110 m, B.S., 1 half-grown-up Spm. — Eyrarbakkasjór, 1 grown-up Spm. — 4 miles S of Selvogstangar, Gísli Gíslason, 1 170 mm Spm. with eggs. — 5 miles S of Selvogstangar, 114 m, Explorer, B.S., Ag., a great number. — Selvogsbanki (western part), 130—150 m, Skallagr., B.S., Tr., some few. — Selvogsbanki, 133 m,

Dana, St. 3161, B.S., Ll., in stomachs of cod. — Reykjanesgrunn, 132 m, Dana, 1927, B.S., Tr., some Spm. in cod's stomachs. — 3 miles south of Eldey, 150 m, Skallagr., B.S., Tr., many Spm. — Eldeyjarbanki, 150 m, Explorer, St. 36, B.S., Tr., a great many. — Faxaflói, Hl., Þór Thorlacius, 1 large in a cod's stomach. — Jökuldjúp, 200 and 220 m, Skallagr., B.S., Tr., a great number. — Off the NW-coast, 1893, Guðm. Kristjánsson, Hl., 1 large Spm. in the stomach of a cod. — Ibid., Kr. Bjarnason, Hl., 2 large and 1 small Spm. in the stomachs of cod. — Off the N-coast (the *antenna* of one large Spm. from Eyjafjörður (Oddeyri) being in the museum).

The "Norway Lobster" seems to be very common in deep water, 100 m and deeper, off the SE-, S-, and W-coast of Iceland, and is often caught in a considerable number on long line and in the trawl, by native and foreign fishermen, in some of the above mentioned localities, as at Vestmanneyjar, on the Selvogsbanki, and the Eldeyjarbanki, but especially in the Jökuldjúp, where several basket-fulls have been taken in one haul. — I have seen it with eggs and in "casting the shell" in July. — It is of considerable importance as food for the cod, but notwithstanding its fine flesh not hitherto for men. — Gröndal has first mentioned it (Dýrafræði 1878), as living at Iceland.

2. *Galathea nexa* Embl., Icel.: Humrungur. — Occ.: Fjallasjór, 5 miles E of Vestm., 120—157 m, Thor, St. 163, B.S., some few in the stomachs of haddock. — Vestmanneyjasjór, B.S., in a cod's stomach. — Grindavíkursjór, ca 40 m, B.S., 3 Spm, 10—15 mm, in the stomach of small cod. — Ibid., ca 60 m, B.S., 4 small Spm. in a cod's stomach. — Ibid., Eir. Tómasson, a great number in haddock's stomach. — Suður-Kantar, 280 m, Skallagr., B.S., Tr., 1 Spm. — Faxaflói, Hafnarfjörður, Fr. Siemsen, 1 Spm. in the stomach of a cod. — Ibid., Reykjavik, B.S., 1 Spm. in a cod's stomach. — Ibid., 2 miles SW of Akranes, 55 m, B.S., 2 Spm., 15—17 mm. — Ibid., Sviðið, B.S., 10 medium-sized Spm. — Dritvíkurgrunn, 130—170 m,

Skallagr., B.S., Tr., 1 small Spm. — Ibid., the N-edge, 115—130 m, Skallagr., B.S., Tr., 1 Spm. in a cod's stomach. — Breiðafjörður, off Hjallasandur, B.S., 4 Spm., 10—16 mm, in a cod's stomach. — Off the NW-coast, in deep water, Kr. Bjarnason, Hl., 2 Spm., 15—17 mm, in a cod's stomach. — This species is fairly common on the S- and SW-coast, and probably more common than recorded above, and of some importance as food for cod, haddock and other valuable fishes.

3. *Munida tenuimana* G. O. Sars, Icel.: Tenglingur. — Occ.: Hvalsbaksbanki (Hallinn), 255—280 m, Skallagr., B.S., Tr., 1 Spm. in the stomach of cod. — Suður-Kantar, 45 miles WSW of Garðskagi, 280 m, Skallagr., B.S., Tr., 1 Spm., 70 mm. — Faxaflói, Sviðið, Ól. Friðriksson, 2 Spm., 13 and 17 mm, in the stomach of an haddock. — Ibid., Jökuldjúp, 120—140 m, Dana, St. 2148, B.S., Ll., 2 Spm., 22 and 25 mm, in the stomach of a torsk. — Ibid., Jökuldjúp, B.S., 1 Spm., 22 mm, in the stomach of a torsk. — Off the NW-coast, in deep water, Kr. Bjarnason, 1896, 1 Spm., 20 mm. — Ibid., Kr. Bjarnason, 1901, 3 Spm., 17—22 mm. — Ibid., Álsbrún, 150 m, Skallagr., B.S., Tr., 1 Spm., 60 mm. — From the above recorded, this species seems to be not uncommon in deep water off the W-coast and to be eaten by several fishes, especially by the torsk.

4. *Eupagurus Bernhardus* L., Icel.: Snoðinn kuðungakrabbi. — Occ.: Papagrunn, 15 miles SE of Eystra-Horn, 130—150 m, Skallagr., B.S., Tr., 3 Spm. medium-sized in *Volutopsis* and *Neptunea*, 1 with eggs on the tail. — Meðallandssjór, 75 m, Thor, St. 178, 1903, B.S., Ytr., bottom. — Fjallasjór, 5 miles SE of Vestm., 110—157 m, Thor, St. 163, B.S., in the stomach of haddock. — Heimaey, Vestm., on the beach, B.S., 1 medium-sized Spm. — Grindavík, on the beach, Sæm. Tómasson, 1 large Spm. — Eldeyjarbanki, 150 m, Thor, St. 171, 1904, B.S., Ytr., bottom, 1 medium-sized. — Faxaflói, 1890, Þór. Thorlacius, 1 Spm. in a cod's stomach. — Ibid., Garðsjór, 35—40 m, Þór, B.S., Tr., many small Spm. in *Bela*, *Amauropsis*, *Trophon* and other shells. — Ibid., Hafnarfjörður, 1895,

Fr. Siemsen, 1 small Spm. — Ibid., Reykjavik on the beach, B.S., 6 small Spm. — Ibid., Reykjavik, 8 m, B.S., Dr., 2 small Spm., the one with *Peltogaster paguri*. — Ibid., Hvalfjörður, Hrafneyri, 22—0 m, Thor, 1904, Es., 1 Spm., with eggs, and B.S., St. 99, 1909, Es., 1 large Spm. — Off the NW-coast, Þór. Thorlacius, 1890, 1 large Spm. — Ibid., Álshrunn, 190 m, Skallagr., B.S., Tr., 2 medium-sized, one with eggs on the tail (17/V). — Húnaflói, the mouth of Steingrímsfjörður, 40—50 m, B.S., St. 53, 1908, Dr., 1 small Spm. — E-coast, Héraðsflói, 113 m, Thor, St. 189, 1903, B.S., Tr., some few Spm. — Ibid., 4 miles off Barðsneshorn, abt. 70 m, B.S., some small Spm. in shells of *Trochus*, *Bela*, *Natica* and *Trophon*, in the stomach of cod. — Further it has been taken by the Dana on several places, especially in the Faxaflói. — The hermit crab seems to be common on the fishing grounds and in shallow water and on the beaches of the warmer side of the country. — I have found females with eggs on the tail from 17/V to 30/VI.

5. *Eupagurus pubescens* Kr., Icel.: Loðni kuðungakrabbi. — Occ.: Vestmanneyjar, on the beach, B.S. — Reykjavík on the beach, B.S. — Kolluálshrunn, 150 m, Skallagr., B.S., Tr., 1 small Spm. in the shell of *Natica*, in a stomach of cod. — Breiðafjörður, 1 mile SE of Vaðstakksey, 37—64 m, B.S., St. 21, 1909, Dr., 1 small Spm. — Ibid., off Stykkishólmur, 20—23 m, B.S., St. 47, 1909, Dr., 1 small Spm. — Ibid., Álftafjörður, 5 m, B.S., St. 15, 1909, Dr., 1 small Spm. — Ibid., Hvammsfjörður, 7—18 m, B.S., St. 21 and 25, Dr., 1 large and 1 small Spm. — Off the NW-coast, Kr. Bjarnason, 1 large Spm. — Ísafjarðardjúp, Skötufjörður, 10—20 m, B.S., St. 12, 1908, Dr., several small Spm. — Ibid., Mjóafjörður, 25—15 m, B.S., St. 18, Dr., 2 small Spm., one in a *Trochus*-shell. — Ibid., Ísafjörður, 20—30 m, B.S., St. 34, Dr., 1 small Spm. — Hali, 180—250 m, Skallagr., B.S., Tr., 2 large Spm. in the shell of *Volutopsis* and *Neptunea*. — Strandagrunn, Hornbanki, 150—200 m, Skallagr., B.S., Tr., 1 large Spm. — Húnaflói, Steingrímsfjörður, 20—40 m, B.S., St. 46,

1908, Dr., 3 small Spm. in a *Trochus*-shell. — Ibid., Kollafjörður, 27—24 m, G.G.B., 3 small Spm. — Ibid., Hrutafjörður, off Kjörseyri, G.G.B., Tr., 3 small Spm. — Skagagrunn, 130—180 m, Skallagr., B.S., Tr., 1 medium-sized and some few small. — Pistilfjörður, off Raufarhöfn, 20 m, B.S., Dr., 2 small, the one in a *Trochus*-shell. — E-coast, 2 miles E of Seyðisfjörður, B.S., Ll., 1 large Spm. in the stomach of a cod. — 2 miles E of Barðsneshorn, 55 m, B.S., Ll., 3 large Spm. in a cod's stomach. — 4 miles E of Barðsneshorn, B.S., Ll., 15 small Spm. in a cod's stomach, in different shells, the largest one in those of *Trophon* and *Trochus*, the smaller ones in those of *Bela* and *Margarita*. — Ibid., Hvalsbaks-halli, 230 m, Skallagr., B.S., Tr., 1 large Spm. — Further it has been taken by the Dana in Faxaflói and Seyðisfjörður. This species seems to be quite common all round the country, except off the S-coast, dwells like the other species, in shells of different size in accordance with its own size, and is eaten by cod and several other fishes.

6. *Lithodes maja*. L.; Icel.: Gaddakrabbi. — Occ.: 15 miles off Eystra-Horn, 115—130 m, Skallagr., B.S., Tr., 1 male, 125, and 1 female, 110 m. — Vestmanneyjar, 230 m, Ágúst Gíslason, 1 Spm. — Suður-Kantar, 180—300 m, Skallagr., B.S., 1 very large female (carapace, 108 mm) with eggs. — Faxaflói, Þór. Thorlacius, 1890, 1 large Spm. (fragments) from a cod's stomach. — Ibid., Jökuldjúp, 150 m, Dana, St. 2148, B.S., 1 large Spm. in the stomach of a torsk. — Ibid., Jökuldjúp, 200 m, Skallagr., B.S., Tr., 1 grown-up female and 1 medium-sized Spm. — Dritvíkurgrunn, 115—130 m, Skallagr., B.S., Tr., 1 Spm. in a cod's stomach. — Jökulbanki, 80 miles off Dritvík, 200—220 m, Skallagr., Tr., 2 large males (the carapace of the larger one, 125 mm, max-length, 130 mm). — Kolluáll, 110 m, Lárus Skúlasón, Ll., 1 female with eggs. — Off the NW-coast, Hjalti Hjaltason, 1893, 1 large Spm. — Ibid., Þór. Thorlacius, 1895, 1 young male. — Ibid., off Ísafjarðardjúp, Sig. Jónsson, Tr., 1 large Spm. — Off the N-coast, Tangar?, 1934, 1 large male. — Eyjafjörður, 1

Spm. — Skjálfandadjúp, 1934, 1 spm. — Off Gjögur, 1936, 1 Spm., *vide* Steind. Steindórsson. — Off the E-coast, Litladjúp, 230 m, Skallagr., B.S., Tr., 1 large male. — Have seen it with eggs 10/V and in July. — This species, the Stone crab, seems to be not rare in the warmer and deeper water off the S- and especially off the W-coast, and in the last 2—3 years to have moved eastwards, along the N-coast, where it was unknown before 1930. This supposed eastward moving of the animal should, in my opinion, be due to the increasing temperature of the water along the N-coast in the last years.<sup>1)</sup> — Most of the Spm. recorded are grown-up animals.

7. *Hyas araneus*. L., Icel.: Stóri trjónukrabbi. — *Occ.*: Vestmanneyjar, on the beach, B.S., 1, 22 mm, female with eggs. — Grindavík, on the beach, B.S., very numerous. — Faxaflói, Reykjavík, on the beach, B.S., very numerous. — *Ibid.*,  $\frac{1}{2}$  mile NW of Akurey, 20—30 m, B.S., St. 118, 1909, Tr., 1 Spm. — *Ibid.*, Hvalfjörður, Hrafneyri, Thor., 1904, Es., 22—0 m, many Spm., and B.S., St. 99, 1909, many large males only. — *Ibid.*, Hvalfjörður, Hvammsvík, 6—0 m, B.S., St. 100, 1909, Es., many large males only. — *Ibid.*, Hvalfjörður, Galtavíkurdjúp, 85—95 m, B.S., St., 1909, Dr., some females with eggs. — Breiðafjörður, Ólafsvík, on the beach, B.S., 1 male, 15 mm. — *Ibid.*, Hvammsfjörður off Búðardalur, 7—20 m, B.S., St. 21, 1909, Dr., 2 Spm., the one a female, 72 mm with eggs, but both *chelæ* and all the legs on one side, cast off, the other with the right *chela* and the foremost leg cast off. — *Ibid.*, NW of Ballarár-Hrappsey, 15—18 m, B.S., St. 68, 1909, Tr., many Spm., 5—10 mm. — *Ibid.*, Skarðsstöð, in a tide pool, B.S., St. 66, 1908, 1 male 15 mm. — *Ibid.*, off Skarðsstöð, 7—8 m, B.S., St. 63, 1908, Dr., and Tr., some few Spm. — Húnaflói, Kollafjörður, G.G.B., 1 small Spm. — E-coast, Héraðsflói, 47 m, Thor, St. 188, 1903, B.S., Ytr., bottom, many Spm. — Although this species is recorded

1) Cfr. Probable Influence of Changes in Temperature on the marine Fauna of Iceland. Rapp. et Procès. Verbeaux. Vol. LXXXVI, 1934.

above from relatively few localities, it is really very abundant, all round the country, from the beach, where it spends the low tides, hidden under seaweed, or in pools, down to 50 m or so, and is often (the grown-up animals) caught in the lumpsucker-nets on 10—20 m depth. — I have seen mothers with eggs in the road of Reykjavik from 7/III to 20/XII.

8. *Hyas coarctatus* Leach., Icel.: Litli trjónukrabbi. — *Occ.*: N of Elliðaey, Vestm., 66—75 m, Thor, St. 199, 1904. B.S., Ytr., bottom, 1 female, 25 mm, with eggs and 5 males, 15—21 mm, covered with Bryozoa and Hydroids. — Vestmanneyjar, on the beach, B.S., some small Spm. — Grindavíkursjór, 60 m, B.S., in the stomach of small cod, 2 males, 13 and 18 mm, and 3 females, 15—24 mm, with eggs. — *Ibid.*, 130—150 m, Eir. Tómasson, many small Spm. in the stomach of 8 haddocks out of 23 examined. — Faxaflói, Bollasvið, 40 m, Coot, B.S., Tr., 1 medium-sized female with eggs, but all the legs cast off. — *Ibid.*, Sviðið, B.S., 7 small Spm., in the stomach of small cod. — *Ibid.*, Akranesforir, 69—70 m, B.S., St. 94, 1909, Dr., many small Spm., 1 female, 16 mm, with eggs. — *Ibid.*, Akranesingasvið, 150 m, Brimsnes, B.S., Tr., 1 male, 10 mm, and 1 female with eggs, 21 mm. — Jökuldjúp, 280 m, Skallagr., B.S., Tr., 1 male, 27 mm. — Breiðafjörður, Kolluálsbrún, 150 m, B.S., 11 males, 13—25 mm and 1 female, 22 mm, with eggs. — *Ibid.*, 1 mile SE of Vaðstakksey, 37—64 m, B.S., St. 12, 1909, Dr., 1 large and 4 small Spm. — *Ibid.*, Kolgrafafjörður, 35 m, B.S., St. 33, 1909, Dr., 2 small Spm. — *Ibid.*, Álftafjörður, 5 m, B.S., St. 15, one male, 20 mm. — *Ibid.*, Hvammsfjörður, off Skorravík, 15—18 m, B.S., St. 24, 1909, Dr., 1 male, 22 mm. — Off NW-coast, Þór. Thorlacius, 1890, 1 female, 22 mm, with eggs. — *Ibid.*, Kr. Bjarnason, 1896, 2 males, 12—15 and 2 females, 26 and 28 mm. — *Ibid.*, 16 males off Barðinn, B.S., in a cod's stomach, 1 female, 30 mm, with eggs; right *Chela* and all left legs cast off. — The mouth of Ísafjarðardjúp, 200 m, B.S., in a stomach of cod, 3 males, 22—35 mm. — *Ibid.*, Skötufjörður, 19—38 m, B.S., St. 12, 1908, 1 medium-

sized male, with all limbs, except the right *chela* cast off. — Hali, abt. 190 m, Jónas Halldórsson, 1 male, 31 mm. — N coast, Strandagrunn, Dana, St. 2820, B.S., many small Spm. — Ibid., 16 miles off Geirólfsgnúpur, Dana, St. ?, B.S., 1 male 30, and 3 females, 28—30 mm, all with eggs. — Ibid., Skagagrunn, Dana, St. ?, B.S., Hl., a great number in a cod's stomach. — Ibid., Skagafjörður, off Hofsó, Dana, St. 2751, B.S., many in the stomach of a small halibut. — E-coast, 2 miles off Barðsneshorn, 60 m, B.S., Ll., 5 Spm., 14—40 mm, in the stomach of a cod and covered with Bryozoa and Hydroids. — Ibid., 4 miles off Barðsneshorn, B.S., Ll., 2 females, 35 mm, in a cod's stomach, one with eggs. — Ibid., Reyðarfjarðardjúp, abt. 200 m, Skallagr., B.S., Tr., 1 female, 33 mm. — Papagrunn, 130 m, Skallagr., B.S., Tr., 1 male, 41 mm. — 12 miles off Eystra-Horn, abt. 130 m, Skallagr., B.S., 1 Spm. — Lónsvík, abt. 6 miles SW of Eystra-Horn, 55 m, Skallagr., B.S., Tr., 1 male, covered with Hydroids. — Beside the above recorded, the author has noticed this species in many other localities, which shows that it is very abundant, all round the country and often found in the stomach of different fishes, especially that of the small cod. — I have found females with eggs in the month of July and August often with cast-off limbs.

9. *Geryon tridens* Kr., Icel.: Tröllkrabbi. — *Occ.*: Of this gigantic crab hitherto only 2 specimens have been found in Icelandic waters, viz: the first one SW of Geirfuglasker, Vestm., on 130 m, caught in a cod-net, in the spring 1920, a medium sized Spm., the second one on the SW-edge of Hvalsbaksbanki (Berufjarðaráll), abt. 140 m, Ásm. Jónsson, caught in a trawl, in the autumn the same year. This Spm. was really a gigantic one, the greatest legspan measuring abt. 70 cm, the carapace  $16 \times 18$  cm, and thus by far surpassing the largest Spm. of *Lithodes maja*. — Possibly this species is more numerous in the warmer waters on the SE- and S-coast, than hitherto known.

10. *Carcinus maenas* L., Icel.: Bogkrabbi. — *Occ.*: Vest-

manneyjar on the beach, B.S., numerous. — Ibid., in the harbour, Dana, B.S., Es. 2—0 m, 9 Spm., 9—18 mm. — Eyrarbakki, B.S., 1 male, 45 mm, washed ashore, and very common in the tidepools of the rocky beach between Þjórsá and Ölfusá. — Grindavík, B.S., on the beach, 3 small Spm.; otherwise very numerous there, in the tidepools. — Faxaflói, Reykjavík, on the beach, B.S., 2 males, 32 and 35 mm, 1 female, 45 mm, 1 *chela* and 6 legs cast off. — Ibid., Skerjafjörður, 1 m, B.S., 1 Spm. (30 mm broad), both *chelæ* and all the legs cast off, but nevertheless living and apparently in a good health. — Ibid., Akranes, on the beach, B.S., 1 large spm. — From the above said and according to the experience of the author, it will be seen, that this species, the Shore crab, is pretty common on the rocky beaches of the S- and SW-coast, from Mýrdalur to the southern part of Faxaflói, up to Akranes or Mýrar. Farther north it has, to my knowledge, hitherto not been found. Often it is wanting one or both *chelæ* and one or more of the legs.

11. *Portunus holsatus* Fabr. (? = *P. depurator* L, Meschkat).<sup>1)</sup> Icel.: Sundkrabbi. — Occ.: Meðallandssjór, 56 m, Thor, St. 178, 1903, Ytr., bottom, 1 Spm. — Vestmanneyjar, washed on shore, B.S., 1 male, 22 mm (broad). Vestmanneyjasjór, N of Elliðaey, 53 m, Thor, St., 175, 1903, B.S., Ytr., bottom, 5 males, 20—22 mm, and 1 female, 21 mm (broad). — Ibid., 66—77 m, Thor, St. 188, 1904, B.S., Ytr., bottom, 2 males, 20—22 mm (broad). — Off Landeyjasandur, 60—70 m, Explorer, St. ?, 1925, B.S., Tr., many Spm. — Ibid., Dana, St. 3157, 14 m, B.S., Es., a great number. — Þorlákshafnarvík, 47 m, Thor, St. 191, 1904, B.S., sandeel-seine bottom, 4 Spm., 18—20 mm

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1) Meschkat states, Rapp. et. Proc. verb. de Réunion, Vol. XCIX, III. Untersuchungen etc., p. 5, that the specimens found by him in stomachs of cod at Vestmanneyjar, are belonging to the species *P. depurator* L, while all the specimens examined by the author have proved to be *P. holsatus*, and I should think, that the specimens examined by Meschkat also belonged to that species, cfr. also Stephensen, Danmarks Fauna, 9, p. 52.

(broad). Faxaflói, N-svið, abt. 40 m, Þór, B.S., Tr., some large Spm. — Ibid., 16 miles NW of Akranes, 47 m, Brimsnes, 1899, B.S., Tr., 1 male, 22 mm (broad). — From the above recorded it will be seen, that this species is pretty common in shallow water off the S- and SW-coast, between Ingólfshöfði and Snæfellsnes.

*Cancer pagurus* Leach, the well known Edible crab of the North-Sea, has once been found at Iceland, but under a little doubtful circumstance: at Siglufjörður on board an Icelandic purse-seine motorboat, which had been fishing in Skagafjörður, N-coast, in July 1931. It was a full grown Spm. (carapace 160 mm broad), but save for this, hitherto no Spm. at all has been found at Iceland, and it is pretty suspicious, that a full-grown specimen should first be found on the N-coast, and never in the warmer water on the other side of the country. I should be inclined to think, that the specimen in question was brought to Iceland (Siglufjörður) from Norway or Denmark as food in a passengerboat or a tramp, and from this brought (by boys) over to the Icel. herring boat. — Anyhow I find it so far not justified to look upon this species as a good denizen of the Animal Kingdom of Iceland.

## B. EUPHAUSIACEA.

1. *Meganyctiphanes norvegica* M. Sars., Icel.: Náttlampi. — Occ.: Háfadjúp, 12 miles SE of Heimaey, Vestm., Thor, St. 171, 1903, B.S., Ytr., surface, some few Spm. — 2 miles E of Bjarnarey, Vestm., Thor, St. 187, 1904, B.S., Ytr., 100 m Wire, 22 Spm., 30—45 mm. — Faxaflói, Jökuldjúp, herring drifter Ágúst, Geir Sigurðsson, a great number in the stomachs of large herring. — Hali, 180 m, Skallagr., B.S., Tr., a great number in the stomachs of coalfish, cod, *Sebastes marinus* and mixed with *Rhoda inermis* in cod and *Gadus Esmarki*. In spite of these few records, which are based on the scarce material in the museum, this species is very abundant, all round Iceland and very important as food for the above mentioned fishes, especially the herring and the coalfish and also for the big whales of the family *Balænopteridæ*, which feed on the great swarms of this little creature on the edges of the continental shelf of Iceland.

2. *Rhoda (Boreophausia) inermis* G. O. Sars, Icel.: Augnasili etc. — *Occ.*: 4—5 miles SE of Eystra-Horn, 100 m, Skallagr., B.S., Tr., a great number in the stomach of a coalfish. — 10 miles SE of Vestra-Horn, abt. 130 m, Skallagr., B.S., Tr., a great number in the stomach of *Sebastes marinus*. — Jökuldjúp, 200 m, Skallagr., B.S., Tr., some few in the stomach of herring and *Gadus poutassou*. — Dritvíkurgrunn, 160—170 m, Skallagr., B.S., Tr., a great number in the stomachs of medium-sized coalfish. — Ísafjarðardjúp, Álftafjörður, B.S., a great number in the stomachs of a sea-trout. — Off Ísafjarðardjúp, 170 m, Skallagr., B.S., Tr., great many in the stomachs of medium sized cod. — Álsbrún, abt. 170 m, Skallagr., B.S., Tr., a great number in the stomachs of cod. — *Ibid.*, 150—190 m, Skallagr., B.S., Tr., a great number in the stomachs of cod, coal-fish and *Sebastes marinus*, some few in haddock. — Hali, 150—190 m, Skallagr., B.S., Tr., a great number in the stomachs of herring, cod, *Gadus Esmarki*, coal-fish and *Mallotus*. — In many localities off the NW- and N-coast, on board the Dana, Þór and Skallagr., and several times in Siglufjörður, in the herring season, the author has found great quantities of the species in question, in the stomachs of the herring, and probably it is one of the most numerous higher crustaceans at Iceland, and of very great importance as food for herring, coal-fish, cod, *Sebastes* and other less valuable fishes, as recorded above, and for many seabirds and the above mentioned whales too.

### C. MYSIDIACEA.

1. *Mysis mixta* Lilljeb., Icel.: Selögn. — *Occ.*: Meðal-landssjór, 75 m, Thor, St. 178, 1903, B.S., Ytr., 5 grown-up Spm. — Hvalfjörður, Hvammsdjúp, B.S., St. 102, 1909, a great number. — Skagafjörður, 25 m, Dana, St. 2753, B.S., Tr., some Spm. in the stomachs of cod. — Héraðsflói, 30 m, Thor, St. 176, 1905, Ytr., bottom, an enormous number. — Although recorded here from five localities

only, this species is very abundant, all round the country, one of the most numerous of all *Malacostraca* there and of great importance as food for different fishes and migrant arctic seals (e.g. the saddleback and the ringed seal).

## II. PHYLLOCARIDÆ.

1. *Nebalia bipes* Fabr. — *Occ.*: Grindavík, Hópið, 2—4 m, B.S., Dr., 2 Spm., 7—8 mm. — Seyðisfjörður (E-coast), abt. 75 m, B.S., 1 Spm. in the stomach of an haddock.

## III. ARTHROSTRACA.

### A. ISOPODA.

1. *Idothea baltica* (Pall.), Icel.: Þanglús. — *Occ.*: Vestmanneyjar, 20—35 m, B.S., 5 males, until 25 mm. — Grindavík, Hópið, 2—4 m, B.S., Dr., 2 Spm. 10—12 mm. — Reykjavík on the beach, B.S., 1 male, 30 mm, and 2 females, 10—17 mm. — Breiðafjörður, Álftafjörður, 5 m, B.S., St. 15, 1909, 7 Spm., until 30 mm. — *Ibid.*, Hvammsfjörður, 15—20 m, B.S., St. 22, 1909, Dr., 1 Spm., 26 mm.

2. *Idothea emarginata* (Fabr.), Icel.: Þanglús. — *Occ.*: Vestmanneyjar, 20—30 m, B.S., Dr., 2 males, 25 and 30 mm, and 1 female, 18 mm, with a marsupium. — Grindavík, Hópið, 2—4 m, B.S., Dr., 12 Spm., until 20 mm. — Reykjavík on the beach, B.S., 14 Spm., 10—30 mm. — Breiðafjörður, Hvammsfjörður, 45 m, B.S., St. 22, 1909, Dr., 1 male, 26 mm.

3. *Idothea neglecta* G. O. Sars, Icel.: Þanglús. — *Occ.*: Grindavík, Hópið, 2—4 m, B.S., Dr., 1 male, 25 mm.

4. *Linnoria lignorum* (Rathke) (*L. terebrans* Leach), Icel.: Tréæta. — *Occ.*: This annoying pest, which is so pernicious for all wooden constructions (piers and ships)

in the sea, was not known in Iceland before 1896, when the author found it (very numerous) in piers and in the keels of fishing smacks in Reykjavík. Since it has proved to be common all round the country, where the salinity of the water is high enough and the temperature of the air during low tides not far below zero, as is the case on the warm S- and W-coast, where it is very numerous.<sup>1)</sup>

Until present I have found it in these localities: Vestmanneyjar, Keflavík, Hafnarfjörður, Reykjavík, Stykkishólmur, Vatneyri, Bíldudalur, Þingeyri, Ísafjörður, Stekkseyri (near Hesteyri), Hrísey, Raufarhöfn, Vopnafjörður, Norðfjörður and Djúpavogur. From most of these localities are specimens or damaged wood kept in the Museum.

5. *Jaera marina* (Fabr.) (*albifrons* Leach), Icel.: Fjörlús. — *Occ.*: Reykjavík on the beach, B.S., a great number, mothers until 4,5 mm, with eggs and hatched brood under the belly, 25/IX. — Seyðisfjörður, E-coast, B.S., a great number in the stomachs of codling. — Probably common all round the country.

6. *Ligia oceanica* (L), Icel.: Sölvahrútur. — *Occ.*: Heimaey, Vestm., between rocks near the springtide mark, in the outskirts of the town, at the seaside. — *Ibid.*, S. M. Johnsen, 8 Spm., 2 males, 22 and 25 mm, and 6 females, 17—20 mm, with 3 mm long youngs under the belly, 21/IX. Between 1890 and 1910 very numerous on the above recorded locality, but after 1920 I have not seen it any longer. — Reykjanes, Gb., 1936, Ól. Þorsteinsson, 1 dead Spm. near a warm saltwater pool.

7. *Porcellio scaber* Latr., Icel.: Grápadda, Grálodda, Loðpurka. — *Occ.*: Herríðarhóll, Rg., Jón Jónsson, 1898, 8 Spm. — Kaldaðarnes, Án., 1904, Jón Sigurðsson, 34 females, with eggs on the belly, 26/VII. — Járngerðarstaðir, Grindavík, B.S., 3 Spm. — Reykjavík, the hot springs, numerous. — *Ibid.*, in a bakery, 1906, a great number. — Hraun í Fljótum, N-coast, Guðm. Davíðsson, some few

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1) Cfr. the author's Reports in Andvari XXIX and XL, in Viden-sk. Medd. fra Naturhist. Foren. i København 1903, and in Tímarit Verkfr.fél. 14. year, 5 Vol. (with an English summary).

Spm. — In the last mentioned locality it was already noticed by Eggert Ólafsson 1755 and is still to be found there. Otherwise it is only found in the lowlands of SW-Iceland, from Mýrdalssandur to Faxaflói, where it has been very numerous from times immemorial, in earthen houses and peat-heaps.

8. *Æga psora* (L), Icel.: Óskabjörn: — Occ.: Vestmanneyjar, Sigf. M. Johnsen, 1 Spm., 35 mm. — Grindavík, B.S., 1 Spm. on cod. — Breiðafjörður, Guðm. Kristjánsson. — Ibid., Stykkishólmur, R. Richter, 2 Spm., 35 mm. — Off the NW-coast, Þór. Thorlacius, 1890. — The mouth of Ísafjarðardjúp, B.S., 1 Spm., 35 mm, in the stomach of cod. — Hali, abt. 200 m, Skallagr., B.S., Tr., 1 Spm., 36 mm. — Reykjafjarðaráll, abt. 220 m, Skallagr., B.S., Tr., 1 Spm. — Húnaflói, Kollafjörður, G.G.B., 1 Spm., 40 mm. — Eyjafjörður, Hrísey, B.S., 1 Spm., 43 mm. — Ibid., Svalbarðseyri, Th. Jakobsson, 4 Spm., on cod, 18—30 mm, and 20—0 m, B.S., Es., 1 Spm. — Hvalsbakshalli, abt. 240 m, Skallagr., B.S., Tr., 1 Spm., 39 mm. — Iceland, 4 Spm., 26—28 mm. — Seems to be pretty common all round the country.

8. *Æga crenulata* L, Icel.: Stóri óskabjörn. — Occ.: Iceland, 3 Spm., 20, 27 and 60 mm, in the collection of the Gymnasium. — Faxaflói, Gröndal, 4 Spm., 55—60 mm.

9. *Æga arctica* L, Icel.: Ís-óskabjörn. — Occ.: Iceland, Gröndal, 1 Spm., 32 mm.

10. *Rocinela danmoniensis* Leach. — Occ.: Húnaflói, Steingrímsfjörður, G.G.B., 1898, 1 female, 23 mm.

11. *Arcturus Baffini* Sab. — Occ.: Iceland, 2 Spm., 27 and 40 mm. — Off the NW-coast, Þór. Thorlacius, 2 Spm., 28 and 30 mm. — Ísafjarðardjúp, B.S., 8 Spm., 25—40 mm, the largest were females with crowd of youngs, 6—8 mm or larger, 4/VIII. — 8 miles off Siglufjörður, 110 m, B.S., Ll., 4 males, 30—40 mm. — Eyjafjarðaráll, 405 m, Dana, St. 2917, B.S., herring-trawl, 1 female, 50 mm. — E-coast, Norðfjarðarflói, abt. 120 m, B. Kr. Grímsson, 1 male, 40 mm, with 4 youngs, abt. 10 mm, on the *antennæ*. — Ibid., off Reyðarfjörður, B. Kr. Grímsson, Ll., 4 Spm.,

25—35 mm. — Hvalsbaksbanki, abt. 150 m, K. Kjarval, 1 female, 30 mm. — Pretty common in deepwater on the colder side of the country. — *Spirorbis spirillum* or other sedentary animals are often attached to the back and the legs.

## B. AMPHIPODA.<sup>1)</sup>

1. *Hyperia galba* Mont., Icel.: Marglyttulús. — Occ.: Mýrdalssjór, abt. 1 mile off Steigarháls, Thor, St. 177, 1903, B.S., Ytr., bottom, 1 adult Spm. — Fjallasjór, 5 miles E of Vestm., Thor, St. 173, 1903, B.S., Ytr., surface, 1 large Spm. — Reykjavík, B.S., many Spm. in *Aurelia aurita*.

2. *Hyperia medusarum* (O. Fr. Müller), Icel.: Marglyttulús. — Occ.: Faxaflói, Garðsjór, Coot, Tr., Indr. Gottsveinsson, 1 medium-sized Spm.

3. *Hyperoche Krøyeri* G. O. Sars. — Occ.: Vestmannaeyjasjór,  $\frac{2}{3}$  mile E of Bjarnarey, Thor, St. 173, 1903, B.S., Ytr., surface, 1 Spm.

4. *Euthemisto bispinosa* Boeck. — Occ.: Húnaflói, Kollafjarðarnes, G.G.B., great swarms washed ashore 2/I-1903 and 10/III-1904.

5. *Themisto compressa* (Goës). — Occ.: Vestmannaeyjasjór,  $\frac{2}{3}$  mile E of Bjarnarey, Thor, St. 173, 1903, B.S., Ytr., surface, many Spm. — Húnaflói, Kollafjarðarnes, G.G.B., a great number, washed ashore, 10/III-1904.

6. *Themisto libellula* Mandt. — Occ.: Iceland, Vestmanneyjar?, 1 Spm., in the Museum.

7. *Themisto abyssorum* Boeck. — Occ.: N-coast, off Eyjafjörður, B.S., in the stomach of herring, 1 Spm.

8. *Socarnes Vahlæi* (Kr.). — Occ.: Húnaflói, Kollafjarðarnes, G.G.B., 3 Spm. — Þistilfjörður, off Raufarhöfn, 20 m, B.S., some few Spm. in cod's stomach.

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1) All the specimens of this group have been named by Mr. K. Stephensen, the wellknown Danish carcinologist, and some of the finds, recorded here, have been published by him in his great work: *Crustacea malacostraca* V—VI. The Danish Ingolf-Expedition, Vol. III.

9. *Hippomedon propinquus* G. O. Sars. — *Occ.*: Meðal-landssjór, 75 m, Thor, St. 178, 1903, B.S., Tr., 8 grown-up Spm. — Háfadjúp, 12 miles SE of Vestm., 265 m, Thor, St. 171, 1903, B.S., Ytr., bottom, 1 Spm.

10. *Orchomella minuta* Kr. — *Occ.*: Iceland without further particulars. Taken in several Spm. by Danish patrol-ships.

11. *Anonyx nugax* Phipps (*A. lagena* Kr.), Icel.: Marfló, lús or rá. — *Occ.*: Grindavík, Hópið, 2—4 m, B.S., Dr., a great number. — Faxaflói, B.S., many Spm. in a cod's stomach. — *Ibid.*, Reykjavík, B.S., in the stomach of cod. — Ísafjarðardjúp, Skutulsfjörður, 4—6 m, B.S., 9 large Spm. — Húnaflói, Kollafjarðarnes, G.G.B., many adult Spm. on a carcass on the beach and 4 medium-sized Spm. too. — E-coast, Seyðisfjörður, 75 m, B.S., Ll., some few small Spm. in the stomach of haddock. — *Ibid.*, 4 miles off Seyðisfjörður, 300 m, B.S., Ll., many medium-sized on cod. — This species is one of the most numerous in the waters of Iceland, and often does considerable harm by eating fish, especially the cod, when caught in gill-nets and on long lines.

12. *Tmetonyx cicada* O. Fabr. (*Hoplonyx cicada* G. O. Sars). — *Occ.*: Eyjafjallasjór, B.S., Ll., a great number on torsk and skate.

13. *Onisimus Edwardsi* Kr. — *Occ.*: Ísafjarðardjúp, Skutulsfjörður, 4—6 m, B.S., 1 small Spm.

14. *Menigrates obtusifrons* Boeck. — *Occ.*: Faxaflói, 16 miles NW of Akranes, B.S., Ll., 3 large Spm. on cod. — E-coast, Seyðisfjörður, 75 m, B.S., Ll., few small Spm. in the stomach of haddock.

15. *Stegocephalus inflatus* Kr. — *Occ.*: Iceland, B.S., 1 Spm., in the Museum.

16. *Oediceros saginatus* (Kr.). — *Occ.*: N-coast, Skjálfsandi, 8—10 m, Thor, St. 146, 1905, B.S., Ytr., bottom, 6 adult and a great number of young Spm. — *Ibid.*, Skjálfsandi, 7—10 m, Dana, St. 2210, B.S., Tr., some few adult. — E-coast, Héraðsflói, 47 m, Thor, St. 188, 1903, B.S., Ytr., bottom, many adult Spm. — *Ibid.*, Héraðsflói, 45—

14 m, Dana, St. 2219, B.S., 1 large Spm. — Ibid., Loðmundarfjörður, 25—30 m, Thor, St. 186, 1903, B.S., 1 Spm. in an haddock's stomach. — Seems to be pretty common in the colder area.

17. *Oediceros borealis* Boeck. — *Occ.*: E-coast, Héraðsflói, 47 m, Thor, St. 188, 1903, B.S., Ytr., bottom, 6 Spm.

18. *Paroediceros lynceus* M. Sars. — *Occ.*: E-coast, Héraðsflói, 47 m, Thor, St. 188, 1903, B.S., Ytr., bottom, 2 Spm.

19. *Acanthosoma serratum* (Fabr.). — *Occ.*: Ísafjarðardjúp, Mjóafjörður, 35—15 m, B.S., St. 19, 1908, Dr., 1 Spm.

20. *Epimeria cornigera* (Kr.). — *Occ.*: Háfadjúp, 12 miles SE of Heimaey, Vestm., 265 m, Thor, St. 171, 1903, B.S., Ytr., bottom, several Spm.

21. *Calliopius læviusculus* (Kr.). — *Occ.*: Reykjavík in the beach, B.S., 5 adult Spm. — Ibid., B.S., 2 small Spm. in the stomach of haddock. — Húnaflói, Kollafjörður, G.G.B., many Spm. in the beach(?) and 7—8 small Spm. in 6—8 m depth.

22. *Calliopius Rathkii* (Zadd.). — *Occ.*: Reykjavík, Gröndal, 1 adult Spm. — Siglufjörður, 6—0 m, Dana, St. 2191, B.S., several small Spm. in the stomach of charr.

23. *Dexamine thea* Boeck. — *Occ.*: Grindavík, Hópið, 2—4 m, B.S., Dr., many Spm.

24. *Amathilla homari* (Fabr.). — *Occ.*: N-coast, Haganesvík, Lúðvík Guðmundsson, 1 large Spm. — Ibid., Skjálíandi, 10—20 m, B.S., 1 large Spm. in the stomach of small cod. — Ibid., Raufarhöfn, 20 m, B.S., some few in the stomach of cod. — E-coast, Loðmundarfjörður, 23—28 m, Thor, St. 186, 1903, B.S., some few Spm. in a stomach of haddock. — Seems to be pretty common in the colder area on the N- and E-coast.

25. *Amathilla angulosa* (Rathke). — *Occ.*: E-coast, Loðmundarfjörður, 23—28 m, Thor, St. 186, 1903, B.S., 1 Spm. in haddock's stomach.

26. *Gammarus locusta* (L.), Icel.: Marfló. — *Occ.*:

Faxaflói, Reykjavík, on the beach, B.S., very numerous. — Ibid., Reykjavík, B.S., small Spm. in haddock's stomach. — Ibid., Borgarfjörður, B.S., St. 86, 1909, many Spm. in the stomach of small plaice. — Breiðafjörður, S-SE of Vaðstakksey, 37—64 m, B.S., St. 12, 1909, Dr., 1 adult Spm. — Ísafjarðardjúp, Þorgr. Sveinsson, 4 very large Spm. in a cod's stomach. — Ibid., Skutulsfjarðarpollur, Dana, St. 2699, B.S., Es., a great many, in the stomach of small coalfish. — Húnaflói, Reykjarfjörður, Dana, St. 2891, B.S., Es., many small and medium-sized, in the stomach of small cod. — Ibid., Kollafjörður, G.G.B., a great number. — Siglufjörður, Dana, St. 2191, 6—0 m, B.S., Es., many large Spm. in the stomachs of charr. — Very numerous on rocky beaches and in very shallow water all round the country and of considerable importance as food for many valuable fishes, as young gadids and plaice, but especially for the charr, when living in salt-water.

27. *Gammarus marinus* Leach. — Occ.: Vestmannaeyjar, Gísli Brynjólfsson, 6 adult Spm.

28. *Gammarus Dübeni* Lilljeb., Icel.: Marfló. — Occ.: Grindavík in lava-chasm, with brackish water, common. — Breiðafjörður, Reykhólar, G.G.B., 4 small Spm. in a freshwater pond. — Húnaflói, Steingrímsfjörður, B.S., great number in the stomach of charr.

29. *Melita dentata* Kr. — Occ.: Breiðafjörður, off Stykkishólmur, 20—24 m, B.S., St. 48, 1909, Dr., 2 adult Spm.

30. *Moera Lovenii* (Brüzel). — Occ.: Háfadjúp, 12 miles SE of Heimaey, Vestm., Thor, St. 171, 1903, 265 m, B.S., Ytr., bottom, 1 Spm. — Fjallasjór, 5 miles SE of Bjarnarey, Vestm., 120—158 m, Thor, St. 163, 1903, B.S., 1 large Spm, in the stomach of haddock.

31. *Ceradocus (Moera) Torelli* Goës. — Occ.: N-coast, Skagaströnd, Hemmert, 1 large Spm.

32. *Ischyrocerus anguipes* Kr.— Occ.: Faxaflói, Reykjavík, B.S., several Spm. in the stomach of haddock. — Húnaflói, Kollafjörður, G.G.B., several females.

33. *Amphithoe rubricata* (Mont.). — *Occ.*: Reykjavík on the beach, 1 Spm. — NE-coast, Þistilfjörður, off Raufarhöfn, 20 m, B.S., a great number in the stomach of cod. — E-coast, Loðmundarfjörður, 23—28 m, Thor, St. 186, 1903, B.S., Tr., several Spm.

34. *Corophium Bonellii* M. Edw. — *Occ.*: SW-coast, Grindavík, Hópið, 2—4 m, B.S., Dr., many small Spm. — Faxaflói, Hvalfjörður, 10 m, B.S., St. 113, 1909, Ytr., great many small Spm. — Húnaflói, Kollafjörður, 18 m, G.G.B., 1 Spm.

35. *Caprella septentrionalis* Kr. — *Occ.*: Reykjavík on the beach, abundant, Gröndal, B.S. — *Ibid.*, B.S., 1 small Spm. in the stomach of haddock. — Breiðafjörður, Hjallasandur, J. Proppé, 4 large Spm. — *Ibid.*, Skarðstöð, on the beach, B.S., St. 62, 1908, a great number medium-sized Spm. — Húnaflói, Kollafjarðarnes, G.G.B., 3 medium-sized Spm. — Very common on rocky beaches of the SW- and W-coast.