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PYCNOGONIDA FROM JØRGEN BRØNLUND FJORD,
NORTH GREENLAND

By JEAN JUST

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Abstract

From Jørgen Brønlund Fjord, North Greenland are recorded four species of Pycnogonida, viz. *Boreonymphon robustum* G. O. Sars, *Nymphon hirtipes* Bell, *N. macronyx* G. O. Sars, and *N. strömi* Krøyer.

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INTRODUCTION

The material of Pycnogonida treated in the present paper was collected partly during the First Peary Land Expedition, 1947–50 and partly during the Fourth Peary Land Expedition in the summer of 1966. — The four species, *Boreonymphon robustum*, *Nymphon hirtipes*, *N. macronyx* and *N. strömi*, which were found in Jørgen Brønlund Fjord (82°10' N, 30°30' W) are all well known from East and West Greenland waters.

Notes on hydrography, bottom-types, vegetation of algae, etc., and lists of stations have been given by the present author (JUST, 1970).

Abbreviations:

PJ = Material collected by P. JOHNSEN, M.Sc., 1947–50.

St. = Material collected by M. ANDERSEN, B.Sc., and J. JUST, B.Sc., 1966.

The material is kept in the Zoological Museum, University of Copenhagen.

SYNOPSIS OF THE SPECIES

Fam. Nymphonidae

Genus ***Boreonymphon*** G. O. SARS, 1888

1. *Boreonymphon robustum* (BELL)

Boreonymphon robustum G. O. SARS 1891, p. 115 Pl. XII fig. 3 a–d.

Nymphon robustum MEINERT 1899, p. 45 Pl. II : 1–7, Pl. III : 23–24.

Boreonymphon robustum STEPHENSEN 1943, p. 5 fig. 1 (distribution in Greenland).

Material:

Dredge haul:

St. 69, 40–45 m., fine red-brown clay. — 1 specimen.

– 70, 40–45 m., fine red-brown clay. — 1 sp.

Remarks:

The specimen from St. 69 is a female measuring 12 mm. from the tip of the abdomen to the insertion of the chelifores; the first pair of

legs, disregarding the dactylus, measure 53 mm. The specimen from St. 70 is a male of 21 mm. and 72 mm. (as above) carrying about 30 young, the length of which range from 8.5 and 15 mm. to 5 and 9 mm.

Genus ***Nymphon*** J. C. FABRICIUS, 1794

2. *Nymphon hirtipes* BELL

- Chaetonymphon hirtipes* G. O. Sars 1891, p. 103 Pl. XI : 2 a-k.
 — — STEPHENSEN 1943, p. 8 fig. 2-3 (maps).
Nymphon hirtipes HEDGPETH 1948, p. 183 fig. 10 b and 11 b.

Material:

Dredge haul:

- PJ, 1444, 25-30 m. — 2 specimens.
 — 2001, 21-46 m., ca. 50 min. — 11 sp.
 St. 40, 30 m., clay and sand. — 4 sp.
 — 41, 50 m., clay. — 5 sp.
 — 43, 30 m., clay. — 2 sp.
 — 58, 20 m., clay with gravel. — 3 sp.
 — 60, 20 m., clay. — 1 sp.
 — 68, 10-15 m., clay with gravel. — 4 sp.
 — 69, 40-45 m., fine red-brown clay. — 3 sp.
 — 71, 30 m., clay. — 3 sp.
 — 73, 30 m., clay with sand. — 3 sp.

Remarks:

N. hirtipes is by far the most common pycnogonid in Jørgen Brøn-lund Fjord and with considerable certainty it could be stated to be the only one living in the inner basin. It was not found on the threshold.

3. *Nymphon macronyx* G. O. Sars

- Chaetonymphon macronyx* G. O. Sars 1891, p. 111 Pl. XII : 2 a-k.
 — — SCHIMKEWITSCH 1930, p. 365 fig. 88-92.
Nymphon macronyx DERJUGIN 1935, p. 19.
Chaetonymphon macronyx STEPHENSEN 1943, p. 16 fig. 5 (distribution in Greenland).

Material:

Dredge haul:

- St. 69, 40-45 m., fine red-brown clay. — 1 specimen.
 — 70, 40-45 m., fine red-brown clay. — 3 sp.

4. *Nymphon strömi* KRÖYER

Nymphon strömi G. O. Sars 1891, p. 80 Pl. VIII : 2 a-k.

- *gracilipes* G. O. Sars 1891, p. 83 Pl. VIII : 3 a-g.
- *strömi* SCHIMKEWITSCH 1930, p. 451 fig. 128-131.
- *strömi* var. *gracilipes* *ibid.*, p. 458 Pl. VI : 3.
- *strömi* (incl. *N. gracilipes* HELLER) STEPHENSEN 1943, p. 23.
- *strömi* HEDGPETH 1948, p. 190 fig. 13 c.

Material:

Dredge haul:

St. 58, 20 m., clay with gravel. — 1 specimen.

Remarks:

The single specimen, taken at Kap Knud Rasmussen, measures 7.3 mm. from the tip of the abdomen to the front of the head. The specimen seems to be somewhat closer to Sars' "*gracilipes*" than to his "*strömi*" especially with regard to the very large chelae and the extremely minute auxilliary claws.

List of Literature

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