

The Amphipods of the Canadian Arctic Expedition, 1913-18.

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The marine and freshwater amphipods collected by the naturalist of the southern party of the Canadian Arctic Expedition, Mr. Frits Johansen, are for the most part well-known arctic forms, but one, a species of *Synurella*, is new to science, this genus now appearing for the first time in American waters.

Katius obesus was known from the Atlantic only on the strength of two specimens, until thirty-five were taken off the southwestern coast of Greenland by the *Tjalfe* Expedition in 1908-9; it appears now for the first time in the Pacific.

The known ranges of several species have been greatly extended by the records in the collection under consideration; the details will be given under the species involved.

The collection contains fifty-three species included in forty-one genera which are distributed among eighteen families; the family Lysianassidae, as would be expected in an arctic collection, is represented by the greatest number of genera, species, and individuals.

An appendix has been added consisting of data based upon specimens from the *Neptune* and other Canadian expeditions.

The color notes given under some of the species are based upon colored sketches made by Mr. Frits Johansen. The color nomenclature is based upon Ridgway's "Color Standards and Nomenclature."

Order AMPHIPODA.

SUB-ORDER GAMMARIDEA.

Family LYSIANASSIDÆ.

1. *Anonyx nugax* (Phipps).

1774. *Cancer nugax* PHIPPS, Voy. North Pole, p. 192, pl. 12, f. 2.
1906. *Anonyx nugax* + *A. lagena* STEBBING, Tierreich, Amph. I, p. 54, and synonymy.
1911. *Anonyx nugax* STAPPERS, Crust. Malacost., Campagne Arctique de 1907, du Duc d'Orléans, p. 8.
1913. *Anonyx nugax* STEPHENSEN, Conspectus Crust. et Pycnog. Groenl., p. 115.

Station 29f: 70° 13' N., 140° 50' W., April 4, 1914, from stomach of *Phoca hispida* Schreber, water depth about 30 fathoms; 6 specimens.

Station 43a: Dolphin and Union strait (off Cockburn point), Northwest Territories, September 13, 1915, 50 fathoms, mud with pebbles, but no algæ; 2 specimens.

Station 46e: Dolphin and Union strait (off Bernard harbour), Northwest Territories, February 16, 1916, 6 fathoms; 300 specimens.

Station 46g: Dolphin and Union strait (Bernard harbour), Northwest Territories, May 4, 1916; from Eskimos; 7 specimens.

Distribution.—This species is very widely distributed, being found throughout the Arctic, North Atlantic, and North Pacific oceans.

2. *Hippomedon holbølli* (Krøyer).

1846. *Anonyx holbølli* KRØYER, Naturh. Tidsskr., ser. 2, vol. 2, p. 8, 38.
1906. *Hippomedon holbølli* STEBBING, Tierreich, Amph. I, p. 58, and synonymy.
1911. *Hippomedon holbølli* STAPPERS, Crust. Malacost., Campagne Arctique de 1907, du Duc d'Orléans, p. 6.