

MARINE MOLLUSCA COLLECTED BY FRITS JOHANSEN IN THE GULF OF ST. LAWRENCE AND NEWFOUNDLAND IN 1922, 1923 AND 1925

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COLLECTION of marine molluscs secured by Mr. F. Johansen in the Gulf of St. Lawrence and Newfoundland during his excursions here in 1922, 1923 and 1925, was submitted to me for identification. The specimens given in this list are all found in the Government collections in Ottawa, apart from certain duplicates retained for the U.S.N.M.

About forty species are represented in the collection; and for their distribution in the Gulf of St. Lawrence, etc., see J. F. Whiteaves "Catalogue of the Marine Invertebrata of Eastern Canada", Ottawa, 1901, pp. 115-213; and later papers, particularly in "Contrib. Canad. Biology", Ottawa and Toronto. For Molluscs of Anticosti Island, see also J. Schmitt "Monographie de l'Ile Anticosti", Paris, 1904, pp. 277-79; and for the natural surroundings of the molluscs collected by Mr. Johansen in Newfoundland, see his article "Fishes collected in Newfoundland during the autumn of 1922", ("Canad. Field-Nat.", Ottawa, Vol. 40, 1926, pp. 1-6, 31-36.)

In the following list, the localities are arranged from west to east:—

I. Godbout; north side of Gulf of St. Lawrence, Que., July 25, 1923, beach (long. $67\frac{1}{2}^{\circ}$ W.)

Colus lividus, Moersch.

Polinices (Euspira) heros, Say.

II. Dalhousie; Bay of Chaleur, N.B.; end of August 1925; low tide.

Mya arenaria, L.

Mytilus edulis, L.

Nassa (Tritia) trivittata, Say.

Littorina litorea, L. (young).

L. palliata, Say. (young).

L. rudis, Don. (young).

Acmæa testudinalis, Muell.

Lacuna vineta, Mont.

III. Outlet of Eel River, four miles east of Dalhousie, N.B., August 30, 1925.

Littorina rudis, Don.

Mya sp. (very young).

IV. Scallop-beds off Carlton, Que., Bay of Chaleur, 15 fathoms, August 25, 1925.

Placopecten grandis, Solander.

Chlamys islandicus, Mueller.

Saxicava arctica, L. (and young).

Lepeta cæca, Muell.

Anomia sp. (young).

V. Beach on north side of Heron Island, Bay of Chaleur, N.B. August 22, 1925.

Polinices (Euspira) heros, Say.

VI. Bay of Chaleur, between Jacket River, N.B., and Cascapedia Bay, Quebec, August 22-24, 1925, 15-20 fathoms.

Serripes (Liocardium) grælandicum, Gmel. (dead).

Modiolaria discors, L. (from cod stomachs).

Yoldia limatula, Say (from cod stomachs).

Saxicava arctica, L. (young) (from cod stomachs).

Opercula of *Buccinum* and *Euspira* (from cod stomachs).

VII. Beach at Sea-side Cove, Restigouche Co., and at Green Point, Gloucester Co., N.B., September 3-4, 1925.

Littorina litorea, L.

VIII. Mouth of Burnt Church River, north side of Miramichi Bay, N.B., September 19 1925.

Fished by Indians

Ostrea virginica, Gmel.

Crepidula fornicata, Lam. (young).

Odostomia trifida, Totten.

Mytilus edulis, L.

IX. South arm of St. Simon Inlet, near Shippigan, N.B., Sept. 9, 1925.

Modiolus demissus, Dillwyn.

X. Beach at Savoy Landing, south side of Shippigan Island, N.B., September 10th, 1925.

Ostrea virginica, Gmel.

Cyrtodaria siliqua, Spengler.

XI. Beach at St. Marie, east side of Shippigan Island, N.B., Sept. 10, 1925.

Nucella (Purpura) lapillus, L.

XII. Beach at north end of Miscou Island, N.B., Sept. 12, 1925.

Placopecten grandis, Solander.

Teredo novangliæ, Bartsch (in driftwood).

Teredo (Psiloveredo) dilatata, Stimp. (in driftwood).

Polinices (Euspira) heros, Say.

Ovicapsules of *Buccinum* sp.

Zirfæa crispa, L. (in limestone-boulders).

XIII. Port Daniel, Gaspé Peninsula, Que. August, 1922.

Mytilus edulis L. (young) (from cunner stomachs).

Lacuna vincta, Fabr. (young) (from cunner stomachs).

Fry of Bivalve (on sea-weeds).

Cingula minula, Gould (distorted) (low tide in lagoon).

Littorina rudis, Don. (low tide in lagoon).

Littorina litorea, L. (low tide in lagoon).

Mya sp. (young) (low tide in lagoon).

XIV. Beach near Perce, Gaspé Peninsula, Que. August 17th, 1922.

Littorina litorea, L.

Polinices (Euspira) heros, Say.

XV. Beach at Cape Ozo, north side of Gaspé Bay, Que. August 10, 1922.

Mya arenaria, L.

Ensis directus, Conrad.

Acmæa testudinalis, Muell.

Euspira heros, Say.

Littorina litorea, L.

Ovicapsules of *Buccinum* sp.

Fry of *Mytilus* sp. (attached to sea-weeds).

XVI. Eskimo Point, north shore of Gulf of St. Lawrence (about long. $63\frac{1}{2}^{\circ}$ W.), July 27th, 1923.

Mya arenaria L. (beach).

Lacuna vincta, Fabr. (attached to *Laminaria*).

XVII. Ellis Bay, west end of Anticosti Island, Que. July-August, 1923. Low tide and beach.

Ovicapsules of *Buccinum* and *Chrysodomus*.

Littorina rudis.

Littorina palliata, Say.

Acmæa testudinalis, Muell.

XVIII. English Bay, west end of Anticosti Island, Que. August 4th, 1923.

Margarites helicinus, Fabr. (from stomach of sculpin).

XIX. North side of Anticosti Island, Que. (about long. $63\frac{1}{2}^{\circ}$ W.), August 4, 1923; Attached to *Laminaria* in about 2 fathoms.

Margarites helicinus, Fabr.

Lacuna vincta, Mont.

XX. Fox Bay, northeast end of Anticosti Island, Que. August 6, 1923.

Buccinum undatum L. (beach).

Cingula minula, Gould (lagoon).

XXI. Abrahams Cove, St. George Bay, west side of Newfoundland, Sept. 6, 1922.

Cyrtodaria siliqua, Spengler (from cod stomachs).

Buccinum totteni, Stimpson (from cod lines)

Buccinum ciliatum, Fabr. (from cod lines).

Ovicapsules of *Chrysodomus* sp. (on stone from deeper water).

XXII. "Piccadilly", Port au Port Bay, west side of Newfoundland, September 5, 1922. Low tide and beach.

Mya arenaria L.

Littorina litorea, L.

Littorina palliata, Say. (young).

Euspira heros, Say.

Euspira triseriata, Say.

Acmæa testudinalis L. (young).

Nucella lapillus, L. (young.)

XXIII. West Bay, Port au Port Bay, west side of Newfoundland, Sept. 3, 1922. Beach.

Mya arenaria, L.

Modiolus modiolus, L.

Astarte borealis, Schum ? (worn).

Ensis directus, Conrad.

Placopecten grandis, Solander (*Pecten magellanicus*, Gmel.).

Polinices (Euspira) heros, Say.

Buccinum undatum L. (worn).

Littorina litorea, L.

Nucella lapillus, L.

Spisula polynyma, Stm.

Stone bored by Pholads (*Zirphæa* ?).

XXIV. As XXIII, but attached to algae; low tide; Sept. 3-4, 1922.

Littorina rudis, Don. (young).

Littorina litorea, L. (young).

Littorina palliata, Say (young).

Nucella lapillus, L. (young).

Acmæa testudinalis, Muell.

Mytilus edulis, (young)

Ovicapsules of *Euspira* sp.

XXV. Bay St. George, at Port au Port, west side of Newfoundland, September 7, 1922; attached to algæ on beach.

Saxicava arctica L. (young).

Anomia sp. (young).

Lacuna sp. (young).

XXVI. Kelligrews, Conception Bay, east end of Newfoundland, August 26, 1922. In *Lithothamnion*-growths on beach.

Anomia aculeata, Muell.

Saxicava arctica L.

Littorina litorea L.

Littorina rudis, Don.

Chiton ruber, L.

XXVII. As XXVI, but low tide.

Mytilus edulis, L. (very young).

Saxicava arctica L.

Acmæa testudinalis, Muell.

Littorina litorea, L.

Lacuna vincta, Fbar.

Margarites sp.

XXVIII. Torbey, north of St. Johns, east end of Newfoundland, August 28, 1922. On sea-weeds just below low tide.

Lacuna vineta, Mont.

Two small Nudibranchs (*Aeolid* and *Dendronotus*?).

Littorina sp. (young).

XXIX. Quidi Vidi village (outside cove), at St. Johns, Newfoundland, August 25, 1922. Attached to washed up sea-weeds.

Mytilus edulis L. (young).

Lacuna vineta, Fabr. (Mont.) (young).

Littorina rudis, Don. (young).

Margarites helycinus, Fabr. (young).

NOTE.—Specimens of the common, Atlantic squid (*Illex illecebrosus* Les.) were kept from the following places—

(1) Mouth of Eel River, N.B., August 30, 1925.

(2) Shippigan, N.B., September 10, 1925.

(3) South side of Anticosti Island, Que. (long. $62\frac{1}{2}^{\circ}$ W.), August 7th, 1923.

(4) Torbey, north of St. Johns, Newfoundland, August 28, 1922.

ECHINODERMS FROM THE GULF OF ST. LAWRENCE AND NEWFOUNDLAND

By FRITS JOHANSEN

Identified by A. H. Clark, U.S.N.M.

OPHIUROIDEA.

Ophiura sarsii Luetken.

Bay of Chaleur, off Cascapedia Bay, Quebec; from stomach of cod and long rough dab; 15-20 fathoms; August 23-24, 1925 (2).

Ophiopholis aculeata (Retzius).

Bay of Chaleur, off Cascapedia Bay, Quebec; from stomach of cod and long rough dab; 15-20 fathoms; August 23-24, 1925 (1).

Scallop-beds in the Bay of Chaleur, off Carlton, Quebec; 14-15 fathoms; August 26, 1925 (8).

Beach at Eskimo Point (long. $63\frac{1}{2}^{\circ}$ W.), Quebec; on *Laminaria*. July 27, 1923 (1).

ASTEROIDEA

Crossaster papposus (L).

Scallop beds in the Bay of Chaleur, off Carlton, Quebec; 14-15 fathoms; August 26, 1925 (2).

Leptasterias polaris (Mueller and Troschel).

St. Helier (Grand Etang), north side of Gaspé peninsula, Que.; beach at low tide; August 15, 1922 (7).

Ellis Bay, west end of Anticosti Island; July 30, 1923 (1).

Asterias vulgaris (Packard).

Shippigan Harbour, N.B.; September 15, 1925 (1).

Beach at Savoy Landing, southern end of Shippigan Island, N.B.; September 10, 1925 (1).

Dalhousie, N.B.; low tide; end of August, 1925 (5).

North side of Heron Island, Bay of Chaleur, N.B.; August 22, 1925 (1).

Cape Ozo, northern side of Gaspé Bay, Quebec; August 10, 1922 (5).

Abrahams Cove, Bay St. George, Newfoundland; September 6, 1922 (1).

West Bay (Port au Port Bay), west side of Newfoundland; September 3-5, 1922 (12).

ENCHINOIDEA.

Strongylocentrotus dræbachiensis (O. F. Mueller)

Miscou Point, N.B.; beach; September 12, 1925 (1).

Cape Ozo, northern side of Gaspé Bay, Quebec; beach; August 10, 1922 (1).

Off Carlton, Gaspé, Quebec; 15 fathoms; August 26, 1925 (3).

Ellis Bay, Anticosti Island; July 30, 1923 (1); and August 1923 (1).

Kelligrews, Conception Bay, Newfoundland; August 26, 1922 (10).

Abrahams Cove, Bay St. George, west coast of Newfoundland; September 6, 1922 (1).

Washed up at Quidi Vidi, St. Johns, Newfoundland; August 25, 1922 (1).

Echinarachnius parma (Lamarck).

Cape Ozo, northern side of Gaspé Bay, Quebec; beach; August 10, 1922 (2).

NOTE.—The numbers in brackets mean number of specimens.





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