

LIST OF THE CRUSTACEA DREDGED ON THE COAST OF LABRADOR BY THE EXPEDITION UNDER THE DIRECTION OF W. A. STEARNS, IN 1882.

By **SIDNEY I. SMITH.**

The collection, the crustacea from which are here enumerated, was made in August, 1882, by an expedition under the direction of Mr. W. A. Stearns. The dredgings, which were all in shallow water, were made by Messrs. Stearns, B. S. Barrows, Edwin R. Flint, J. A. Allen, and Charles L. Flint, jr. The collection was made at different points along the coast from Fortean Bay to Dead Island. The principal localities are: Fortean Bay, about north latitude $51^{\circ} 30'$, west longitude $56^{\circ} 55'$; L'anse au Loup, about $51^{\circ} 33'$ and $56^{\circ} 48'$; Temple Bay, about $52^{\circ} 2'$ and $55^{\circ} 55'$; Henley Harbor, near the mouth of Temple Bay; Fox Harbor, on Saint Lewis Sound; and Dead Island, near Square Island, about $52^{\circ} 48'$ and $55^{\circ} 48'$. A part of the specimens were sent to the Museum of Yale College by Messrs. Barrows and Allen, of the Sheffield Scientific School, and the rest were sent to the National Museum by Mr. Stearns. Both parts of the collection are combined in the following list.

The preparation of this list has involved a more or less critical examination of the lists of crustacea of the same region given by Professor Packard, and, having had access to a set of the specimens upon which Professor Packard's work was based, I have attempted to revise the marine crustacea of his lists, and have embodied this revision in a catalogue of all the species known from the Labrador coast, which is given in the paper following the present list.

BRACHYURA.

Hyas araneus Leach.

Fortean Bay	..... 20 fm.....	11 young.
L'anse au Loup	..... 15 fm., sand...	1 ♂, 1 ♀, large, and 8 small.
Henley Harbor	..... shallow water.	1 ♂, 1 ♀, large.

Hyas coarctatus Leach.

Henley Harbor	..... 8 fm.....	1 large ♂.
Henley Harbor	..... shoal water....	1 large ♀, 2 small.
Temple Bay	.....	1 large ♀.

ANOMURA.

Eupagurus pubescens Brandt.

L'anse au Loup	..... 10 fm.....	1 large, 4 small.
L'anse au Loup	..... 15 fm.....	3 small.
Henley Harbor	..... shoal water.....	2 large and small.
Temple Bay	..... 10 fm.....	1 small.
Fox Harbor	..... 3 fm., sand	1.
Dead Island	..... 1-3 fm., rocky	1 large.

Eupagurus Kröyeri Stimpson.

Henley Harbor.....	3-8 fm.....	2 small.
Henley Harbor.....	10-15 fm.....	3 small.
Temple Bay.....	10 fm., rocky.....	4 small.
Dead Island.....	nullipore.....	1 small.

MACRURA.

Ceraphilus boreas Kinahan (*Crangon boreas* Fabricius).

L'anse au Loup.....	8-10 fm.....	3 ♀.
Henley Harbor.....	.....	3 ♀.
Dead Island.....	1-3 fm., rocky...	1 ♀.

Nectocrangon lar Brandt.

Henley Harbor.....	10 fm.....	1 ♀
Dead Island.....	nullipore.....	1 small.

Hippolyte Fabricii Kröyer.

Fonteau Bay.....	20 fm.....	5 young.
L'anse au Loup.....	rocky.....	6 small.
L'anse au Loup.....	15 fm., sand.....	2.
Henley Harbor.....	10-15 fm.....	4 small.
Fox Harbor.....	1 fm.....	2 ♂, 1 ♀.
Dead Island.....	3 fm.....	1 ♀.

The female from Fox Harbor has well-developed epipods on each of the second pair of legs. This specimen, which is normal in other respects, gives the following measurements: Length, 51^{mm}; length of carapax, including rostrum, 19.2; rostrum, 9.3; antennal scale, 9.1; sixth somite of abdomen, 6.6; telson, 8.4.

Hippolyte Gaimardii Milne-Edwards.

L'anse au Loup.....	11 and 15 fm ...	3 young.
L'anse au Loup.....	8 fm., rocky	5 large ♀, 3 ♂, 2 young.
Henley Harbor.....	10 fm.....	2 large ♀, 1 with eggs.

The female carrying eggs is 58^{mm} long and has the rostral formula $\frac{3+6}{3}$. One of the males from L'anse au Loup, 34^{mm} long, and with the rostral formula $\frac{3+3}{4}$, has a well-marked laterally compressed dorsal prominence on the third somite of the abdomen. A larger male from the same place, 37^{mm} long and with the rostral formula $\frac{3+3}{6}$, has the prominence much more conspicuous and approximating closely to the Kröyer's figure of *Hippolyte gibba*, which is undoubtedly only the adult form of the male of *H. Gaimardii*, as it has been regarded by Goës.

Hippolyte spinus White.

Henley Harbor (a).....	shoal water.....	1 ♂, large.
Henley Harbor (b).....	10-15 fm.....	1 large ♂, 2 ♀.
Temple Bay (c).....	rocky.....	1 large ♂.

The three males and one of the females give the following measurements in millimeters:

Locality.....	a.	b.	c.	b.
Sex.....	♂	♂	♂	♀
Length.....	56	52	46	46
Length of carapax including rostrum..	20.1	20.0	15.7	15.1
Length of rostrum.....	8.9	9.9	7.3	6.7
Length of antennal scale.....	8.3	8.4	7.0	6.6
Length sixth somite of abdomen.....	6.2	6.0	5.4	4.8
Length of telson.....	10.4	10.3	8.5	7.9

Hippolyte Phippsii Kröyer.

L'anse au Loup..... 8 fm. 1 ♀.

Hippolyte polaris Ross.

Dead Island, 3 fathoms, seaweed—eight females, all carrying eggs. All the specimens have the dorsal edge of the rostrum just as in *H. Fabricii*, that is, wholly unarmed except near the base, nearly straight, and horizontal. Although all the specimens are rather large, seven of them have only three teeth on the dorsal crest, two on the carapax, and one on the rostrum, while the other specimen has but four teeth in all. Two of the specimens have a well-developed epipod at the base of one of the third pair of legs, one has a well-developed epipod at the base of each of the third pair of legs, while the other specimens are, as usual, without epipods at the bases of the third pair of legs. In other respects the specimens are normal. These characters, with the length, are shown for each specimen in the following table:

Length.	Rostral for- mula.	Legs of third pair.
<i>mm.</i>		
45	$\frac{2+1}{3}$	No epipods.
45	$\frac{2+1}{2}$	Epipod on right side.
46	$\frac{2+1}{3}$	No epipods.
47	$\frac{2+1}{3}$	Do.
48	$\frac{2+1}{3}$	Do.
48	$\frac{2+1}{2}$	Do.
57	$\frac{2+1}{3}$	Epipod each side.
59	$\frac{2+2}{3}$	Epipod on right side.

Four of the specimens give the following measurements in millimeters:

Length.....	46	48	57	59
Length of carapax including rostrum..	17.1	17.0	21.5	22.7
Length of rostrum.....	7.8	8.6	10.4	10.9

Length of antennal scale.....	7.0	6.8	9.1	9.4
Length of sixth somite of abdomen..	5.0	4.9	6.7	6.8
Length of telson.....	7.4	7.1	9.0	9.5

Hippolyte Grœnlandica Miers.

L'anse au Loup	10 to 15.....	1 ♀, 1 young.
Fox Harbor	1 fm.....	1 ♀
Dead Island	1-4 fm.....	11 ♂, ♀, young.

Pandalus Montagu Leach.

Forteau Bay.....	20 fm.....	1 young.
L'anse au Loup	8-15 fm.....	11, all small.
Temple Bay	rocky.....	3, all small.
Temple Bay	10 fm.....	1, small.

SCHIZOPODA.

Mysis oculata Krøyer.

A few fragments from Dead Island.

CUMACEA.

Diastylis Rathkii Bate.

Fox Harbor, 3 fathoms, sand; abundant.

AMPHIPODA.

Hyperia medusarum Bate.

Dead Island, 1 specimen.

Anonyx nugax Miers.

Henley Harbor	10-15 fm.....	1, imperfect.
Fox Harbor	3 fm.....	1, young.

Orchomene minutus Boeck.

Henley Harbor, 10-15 fm., 1 specimen.

Pontoporeia femorata Krøyer.

Fox Harbor, 1-4 fm., 2 specimens.

Phoxus Holbölli Krøyer.

L'anse au Loup, 15 fm., 1 specimen.

Acanthozone cuspidata Boeck.

Temple Bay, 10 fm., 1 specimen.

Acanthonotozoma serratum Boeck.

Dead Island, shallow water, 1 specimen.

Acanthonotozoma inflatum Boeck.

L'anse au Loup, 8 fm., rocky, 1 specimen.

Ædiceros lynceus M. Sars.

Forteau Bay	20 fm.....	10 specimens.
L'anse au Loup.....	15 fm.....	6 specimens.
Henley Harbor.....	10-15 fm.....	4 specimens.
Temple Bay	10 fm.....	2 specimens.

Pleustes panoplus Bate.

L'anse au Loup, 10 fm., 1 specimen.

Gammarus locusta Fabricius.

Fox Harbor, 1-4 fm., abundant.

Melita dentata Boeck.

Henley Harbor	10-15 fm.	2 specimens.
Temple Bay	10 fm.	1 specimen.

Rhachotropis* aculata Lepechin sp.

Henley Harbor	10-15 fm.	4
Temple Bay	10 fm.	1

Ampelisca macrocephala Lilljeborg.

L'anse au Loup	10 fm.	1
Henley Harbor	10-15 fm.	2

Byblis Gaimardii Kröyer.

Henley Harbor	10-15 fm.	1
Temple Bay		2
Dead Island	2-4 fm.	1

Caprella septentrionalis Kröyer.

Henley Harbor, 1 specimen.

ISOPODA.

Phryxus abdominalis Lilljeborg (Kröyer).L'anse au Loup, one specimen on a female *Hippolyte Gaimardii*.**Jæra albifrons** Leach.

Fox Harbor, one specimen.

COPEPODA.

Lernæa branchialis Linn, var. *sigmoidea* Steenstrup and Lütken.

One specimen.

CIRRIPEDIA.

Balanus crenatus Bruguière.

L'anse au Loup, 10 fm.

RHIZOCEPHALA.

Peltogaster paguri Rathke.Henley Harbor, one specimen on *Eupagurus pubescens* from shallow water.

NEW HAVEN, CONN., May 1, 1883.

* *Ράχης* et *τρόπις*, nom. nov., vice *Tritopsis* Boeck, præoc.