

Curatorial Report Number 32

Nova Scotia Museum
1747 Summer Street
Halifax, Nova Scotia, Canada

Decapod Crustaceans in the Nova Scotia Museum Collection

By Don Aldous
July 1976

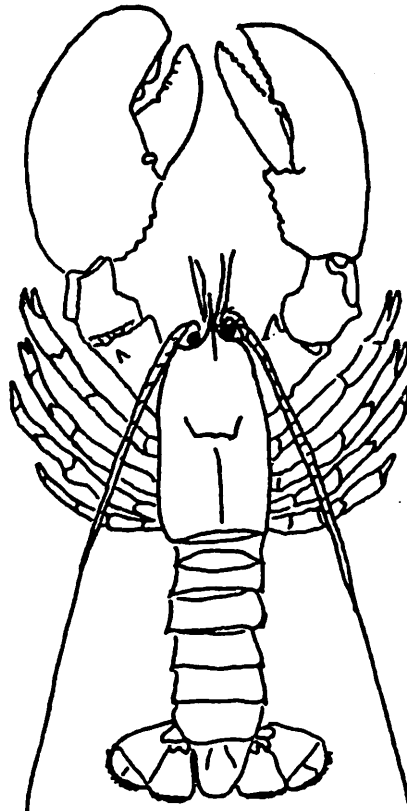


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NOVA SCOTIA MUSEUM

Curatorial Reports

The *Curatorial Reports* of the Nova Scotia Museum contain information on the collections and the preliminary results of research projects carried out under the program of the museum. The reports may be cited in publications but their manuscript status should be clearly indicated.

INTRODUCTION

The Crustacean order Decapoda is divided into five infraorders:

- Penaeidea (penaeidean shrimp)
- Caridea (caridean shrimp)
- Astacidea (lobsters)
- Anomura (mud shrimp)
- Brachyura (true crabs)

This follows the classification of Glaessner (1969) in Gosner (1971).

As the name suggests, decapods have ten thoracic legs or pereopods. Besides these there are three pairs of maxillipeds associated with feeding, a pair of mandibles as jaws, maxillae as accessory mouth organs, antennae as "feelers" and antennules containing the chemoreceptors. The abdomen is composed of six segments and a tail piece called the telson.

Although no anomurans or brachyurans are pelagic in the adult stage, members of the other infraorders may be found in any environment in the ocean.

As a group, the decapods have varied feeding habits. Some are scavengers, picking up what they can from the ocean floor with their claws while a few are more inclined to capture live prey. Still others passively fan plankton or detritus into their mouths.

The decapods present a few problems in terms of identification. Sanders (in Smith, 1964) notes difficulties within the families Xanthidae and Pinnotheridae of the infraorder Brachyura. I have found the greatest difficulty in distinguishing between the species of Pagurus, the hermit crab. There also seems to be some disagreement between authors over the Caridean genera, Eualus, Spirontocaris and Lebbeus of the family Hippolytidae.

One of the references I find most useful for the more common species is Rathbun (1929). The drawings are well done and the descriptions complete. However, the keys are a little disappointing. For a more complete view with good keys but barely adequate drawings, I would suggest Gosner (1971). The shrimp families are treated particularly well in this publication. Since the writing of this report, the museum has acquired a collection of zooplankton sheets of the Conseil International Pour L'Exploration De La Mer. Even though these papers refer to European species they are quite useful in a majority of cases. The Decapoda larvae are covered in Papers 67, 68, 92, 109, 139. Thus far only one paper has been written on Decapod adults and it deals with Caridea (Paper 112).

This report consists of a list of Northwest Atlantic Decapoda species compiled from many references, a list of species in the Nova Scotia Museum collection and maps showing collection localities. An attempt is made to assess the collection by comparing these lists. In this way the shortcomings of the collection will be made obvious to anyone who wants to fill in the gaps in the future.

DEVELOPMENT OF THE COLLECTION

Since decapods are abundant in the intertidal zone and also since some species are commercially valuable, they form a major group in the Nova Scotia Museum collection. Records go back to the Harry Piers Accession Books in which the first mention of decapods is an accessioned (No. 42) patent glass jar of Nova Scotian lobster meat donated by M. L. Wurzburg on June 14, 1900. The first whole specimen was also a lobster, *Homarus americanus*, collected at Cross Island, Chester, Nova Scotia, donated by Smith Brothers in 1900, accessioned No. 167 and dried in the collection.

As the years went by, fishermen brought in interesting species of crabs such as *Callinectes sapidus*, the blue crab, first recorded in the collection Nov. 7, 1902, from Cow Bay, or lobsters with unusual coloring or abnormal chelae. These were all painstakingly described and recorded in the Piers Accession Books.

One of the most common sources of specimens was lobster traps which would be hauled up with a crab or something unusual inside. Between 1889-1903, specimens came from telegraph cables laid upon the ocean floor. When repair ships such as the S. S. *Minia* retrieved the cable, it would have animals, sometimes decapods, attached. These were donated in 1903 to Harry Piers.

J. L. Martin first catalogued the crustacea in the Nova Scotia Museum collection in 1950. Specimens were collected between 1954 and 1956 by Marilyn Jenkins and later in 1957-58 by Jane McNeill. Both these people were responsible for filling many of the gaps in the collection. A study was undertaken in the summers of 1959, 1960 by Sherman Bleakney and Eaves which added still more decapods to the collection.

In 1966-67, the Nova Scotia Museum undertook a cancrid crab survey to determine species distribution in the province. Arrangements were made with various fishermen from Cape Breton to Yarmouth to collect any crabs they might find in the course of their work. Out of 356 crabs collected, 311 were *Cancer irroratus* and the remaining 45 were *C. borealis*. Collection locations proved *C. borealis* to be restricted to the south western shores while *C. irroratus* may be found all around the province. Many specimens of *Pagurus* were also collected. A catalogue of the marine crustacea in the collection was prepared by John Gilhen and published in January, 1968. A report on the crab survey was prepared by P. Malcolm, 1972.

In August 1972, Paul Odense donated samples of invertebrates collected during the Fisheries Research Board cruise 104 aboard "E. E. Prince". This was the first time the museum received pelagic material collected with an Isaacs-Kidd trawl. A curatorial report on the material was prepared by D. S. Davis and J. Gilhen in 1972. Subsequent cruises also provided material for the collection and this is documented in Curatorial Reports: C. S. S. Dawson 72-994 (Doleman, 1973), C. S. S. Hudson 73-002 (Doleman, 1973), E. E. Prince P.114 and P.139 (Davis, 1976). These cruises extended the range of the collection beyond the littoral and sub-littoral zones to include pelagic and benthic material.

DISCUSSION

One is impressed at a first glance at the list of species of Northwest Atlantic Decapoda, by the number of Carolinian and Virginian species found in our waters. Larval decapods are pelagic and may be swept northward beyond their range by portions of the Gulf Stream reaching the coast of Nova Scotia through a process of water exchange documented by Hachey (1961) and Platt et al (1972). Few species are able to survive the harsher climate and die before they reach the adult stage. This would explain the presence of Palinurus vulgaris larvae described by Gosner as Carolinian and Scyllarus larvae, more common to Bermuda than to Nova Scotia as an adult.

Some southern species, however, seem to be able to tolerate our climate long enough at least to reach adult stage. Either that or they were transported as adults. One of these is Palaemonetes pugio, a Virginian, Caridean Shrimp, an adult specimen of which was collected at Petpeswick, Nova Scotia. Also an adult specimen of the Virginian species Axius serratus was collected near Emerald Gully. This species is known to occur in the Strait of Canso area. A specimen of Hepatus epheliticus, described as Carolinian, was found in Shelburne Harbour. The museum also has a specimen of Munida valida, a first record for Canadian waters. Bathynectes superbus, a Virginian species, was found off Western Bank, Nova Scotia.

Thus the Gulf Stream gives Nova Scotia a rather unique collection of decapods containing not only local species but also at least larval specimens from as far south as the Carribean.

Of the 130 species on the list of Northwest Atlantic Decapoda, the museum has 36, a coverage of about 27%. However, of the 50 species described as boreal or more northern, the museum has 24 or almost 50%. This is encouraging, considering the lack of a concentrated decapod collecting expedition to date.

The collection locality maps indicate where a particular species has been found rather than the range of that species. Not enough data has been collected as yet to justify such a conclusion.

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A LIST OF SPECIES

of

**NORTHWEST ATLANTIC
CRUSTACEAN DECAPODS**

A List of Species of Northwest Atlantic Decapoda

Key to Distribution

A+	Arctic (North of the Bay of Fundy)	46°N+
B	Boreal (Cape Cod to Bay of Fundy)	42-46°N
B+	Boreal extension (Long Island to Cape Cod)	40-46°N
B,39°	Boreal, south to 39°	39-46°N
V	Virginian (Cape Hatteras to Cape Cod)	35-42°N
V+	Virginian extended into Cape Cod Bay	35-43°N
C+	Carolinian (Southern species extending north to 35°N)	

Species	Distribution	Bathymetric Range	Now in Collection
Infraorder Penaeidea (Penaeidean shrimp)			
Family Penaeidae			
<i>Penaeus setiferus</i>	C,41°	Lit. to 91 m, eury.	
<i>Penaeus aztecus</i>	C,39°	Lit. to 91 m, eury.	
<i>Penaeus duorarum</i>	C,37°	Lit. to 91 m, eury.	
<i>Trachypeneus constrictus</i>	C,38°	9 to 27 m	
<i>Parapeneus longirostris</i>	C,42°	"Offshore"	
<i>Sicyonia brevirostris</i>	C,37°	11 to 91 m	
Family Sergestidae			
<i>Acetes carolinae</i>	C,37°	Estuarine	
<i>Lucifer faxoni</i>	C,42°	Oceanic, estuarine in summer	
<i>Sergestes arcticus</i>	A+	Mid-water	*
Infraorder Caridea (Caridean shrimp)			
Family Pasiphaeidae			
<i>Pasiphaea tarda</i>	B	26 to 320 m	
<i>Pasiphaea multidentata</i>	B	Deep water	*
Family Oplophoridae			
<i>Acanthephyra purpurea</i>	C,63°	105 to 2949 fms.	*
Family Palaemonidae			
<i>Leander tenuicornis</i>	V	Oceanic, on Sargassum; also on wharf pilings, Nova Scotia to New Brunswick	

Species	Distribution	Bathymetric Range	Now in Collection
<i>Palaemonetes paludosus</i>	C,39°	Fresh water	
<i>Palaemonetes vulgaris</i>	V	Lit. to 9 m, eury.	
<i>Palaemonetes intermedius</i>	V	Lit. to 9 m, eury.	
<i>Palaemonetes pugio</i>	V	Lit. to 9 m, eury.	*
<i>Macrobrachium ohione</i>	C,38°	Fresh water to 14‰	
Family Alpheidae			
<i>Alpheus heterochelis</i>	C,38°	Shallow water	
<i>Alpheus normanni</i>	C,37°	Shallow water	
Family Ogyrididae			
<i>Ogyrides alphaerostris</i>	C,38°	Estuarine	
<i>Ogyrides limicola</i>	C,38°	Estuarine, 9-13‰	
Family Hippolytidae			
<i>Hippolyte pleuracantha</i>	V	Shallow water, eury.	
<i>Hippolyte zostericola</i>	V	Shallow water, eury.	
<i>Hippolyte coerulescens</i>	V	Oceanic, on Sargassum	
<i>Latreutes fucorum</i>	V	Oceanic, on Sargassum	
<i>Tozeuma carolinense</i>	V	Estuarine	
<i>Hippolysmata wurdemanni</i>	C,38°	Lit. to 29 m, eury.	
<i>Caridion gordonii</i>	B	38 to 400 m	
<i>Eualus fabricii</i>	B	Lit. to 400 m	*
<i>Eualus gaimardii</i>	B	10 to 900 m	
<i>Eualus pusiolus</i>	B,38°	Lit. to 500 m	
<i>Spirontocaris spinus</i>	B	6 to 400 m	
<i>Spirontocaris phippisii</i>	B	11 to 229 m	
<i>Spirontocaris lilljeborgii</i>	B	20 to 1261 m	
<i>Lebbeus groenlandicus</i>	B,41°	2 to 210 m	*
<i>Lebbeus polaris</i>	B,38°	Lit. to 930 m	
<i>Lebbeus zebra</i>	B	Lit. to 30 m	
Family Pandalidae			
<i>Dichelopandalus leptocerus</i>	B,36°	13 to 787 m	*
<i>Pandalus borealis</i>	B	37 to 906 m	*
<i>Pandalus montagui</i>	B,41	5 to 787 m	*
<i>Pandalus propinquus</i>	B,39°	62 to 1993 m	
<i>Parapandalus richardi</i>	B	0 to 1800 m	*
Family Crangonidae			
<i>Sclerocrangon boreas</i>	B	9 to 66 m	
<i>Crangon septemspinosa</i>	BV	Lit. to 128 m, eury.	*
<i>Sabinea septemcarinata</i>	B	27 to 128 m	
<i>Sabinea sarsii</i>	B	152 to 274 m	
<i>Pontophilus brevirostris</i>	V	Oceanic, Gulf Stream	
<i>Pontophilus norvegicus</i>	V	Oceanic, Gulf Stream	
<i>Argis dentata</i>	A+	6-96 fms.	*

Species	Distribution	Bathymetric Range	Now in Collection
Infraorder Astacidea			
(Lobsters)			
Family Homaridae			
<i>Homarus americanus</i>	BV		*
Family Palinuridae			
<i>Palinurus vulgaris</i>	C		*
Family Scyllaridae			
<i>Scyllarus</i> sp.	C		*
Infraorder Anomura			
(mud shrimp)			
Family Axiidae			
<i>Axius serratus</i>	V	37 m	*
<i>Calocaris templemani</i>	B	Deep water	
Family Upogebiidae			
<i>Upogebia affinis</i>	V	Lit. to 18 m	
Family Laomediidae			
<i>Naushonia crangonoides</i>	V	Shallow water	
Family Callianassidae			
<i>Callianassa atlantica</i>	V	Shallow water	
Family Diogenidae			
<i>Paguristes triangulatus</i>	C, 36°	11 to 150 m	
<i>Clibanarius vittatus</i>	C, 38°	Lit. to 2 m, eury.	
<i>Dardanus insignis</i>	C, 36°	27 to 227 m	
Family Paguridae			
<i>Pagurus acadianus</i>	B, 40°	11 to 485 m	*
<i>Pagurus annulipes</i>	V	Lit. to 42 m	
<i>Pagurus impressus</i>	C+	11 to 33 m	
<i>Pagurus bernhardus</i>	B+	-	*
<i>Pagurus pubescens</i>	B, 41°	15 to 5490 m	*
<i>Pagurus longicarpus</i>	V, 44°	Lit. to 52 m, eury.	*
<i>Pagurus pollicaris</i>	V	Lit. to 46 m, eury.	
<i>Pagurus politus</i>	BV	101 to 668 m	
<i>Pagurus arcuatus</i>	B, 41	Lit. to 274 m	
Family Lithodidae			
<i>Lithodes maia</i>	B	95 to 532 m	*
Family Porcellanidae			
<i>Polyonyx gibbesi</i>	B+	-	
<i>Porcellana sigsbeiana</i>	B+	-	
<i>Euceramus praelongus</i>		0 to 38 m	
Family Hippidae			
<i>Emerita talpoida</i>	B+	Lit.	
Family Galatheididae			
<i>munida tanuimana</i>	A+	440 to 650 m	
<i>munida valida</i>	B	deep water	*
<i>munidopsis curvirostra</i>	B, 38°	135 to 2360 m	
Family Albuneidae			
<i>Albunea gibbesii</i>	C+	Lit.	

Species	Distribution	Bathymetric Range	Now in Collection
Infraorder Brachyura			
(True crabs)			
Section Dromiacea			
Family Homolidae			
<i>Homola barbata</i>	V	102 to 684 m	
Section Oxystomata			
Family Dorippidae			
<i>Ethusa microphthalma</i>	V	123 to 286 m	
Family Calappidae			
<i>Calappa flammea</i>	C,42°	22 to 31 m	
<i>Calappa sulcata</i>	C+	29 to 49 m	
<i>Acanthocarpus alexandri</i>	V	104 to 284 m	
<i>Hepatus epheliticus</i>	C,38°	20 to 284 m	*
Family Leucosiidae			
<i>Persephona aquilonaris</i>	C,40°	4 to 31 m	
Section Oxyrhyncha			
Family Majidae			
<i>Euprognatha rastellifera</i>	V	80 to 417 m	
<i>Collodes robustus</i>	V	90 to 682 m	
<i>Rochinia</i> spp.	V	128 to 481 m	
<i>Chionecetes opilio</i>	A,44°	Lit. to 640 m	
<i>Hyas araneus</i>	B,41°	9 to 55 m	
<i>Hyas coarctatus</i>	BV	9 to 532 m	*
<i>Pelia mutica</i>	V	Lit. to 24 m	
<i>Libinia emarginata</i>	BV	Lit. to 49 m	*
<i>Libinia dubia</i>	BV	Lit. to 49 m	
Family Parthenopidae			
<i>Parthenope pourtalesi</i>	C,40°	90 to 246 m	
<i>Heterocrypta granulata</i>	V	6 to 27 m	
Section Cancridea			
Family Cancridae			
<i>Cancer irroratus</i>	BV	Lit. to 572 m	*
<i>Cancer borealis</i>	BV	Lit. to 794 m	*
Section Brachyrhyncha			
Family Portunidae			
<i>Carcinus maenas</i>	40-45°	Lit. to 9 m, eury.	*
<i>Ovalipes ocellatus</i>	BV	Lit. to 18 m, eury.	*
<i>Bathynectes superba</i>	V	128 to 410 m	*
<i>Portunus sayi</i>	V	Gulf Stream	
<i>Portunus gibbesi</i>	V	24 to 88 m	
<i>Portunus spinimanus</i>	C,40°	18 to 49 m	
<i>Callinectes sapidus</i>	V	Lit. to 37 m, eury.	*
<i>Callinectes ornatus</i>	C,40°	Surface to 26 m	
<i>Arenaeus cribrarius</i>	C,37°	Lit. to 68 m	
Family Xanthidae			
<i>Panopeus herbstii</i>	V+	Lit. to 22 m	*
<i>Neopanope texana sayi</i>	BV	Lit. to 79 m, eury.	*
<i>Hexapanopeus angustifrons</i>	V	6 to 48 m, eury.	

Species	Distribution	Bathymetric Range	Now in Collection
<i>Eurypanopeus depressus</i>	V+	Lit. to 48 m, eury.	
<i>Rhithropanopeus harrisii</i>	V,44°	Lit. to 9 m, eury.	
Family Geryonidae			
<i>Geryon quinquedens</i>	BV	40 to 292 m Mostly below 366 m south of Cape Cod	*
Family Pinnotheridae			
<i>Pinnotheres ostreum</i>	V+	Parasitic on <i>Crassostrea</i>	
<i>Pinnotheres maculatus</i>	V	Parasitic on <i>Mytilus</i> and other bivalves	
<i>Dissodactylus mellitae</i>	V	Commensal	
<i>Pinnixa retinens</i>	V	37 m	
<i>Pinnixa chaetoptera</i>	V	Commensal	
<i>Pinnixa sayana</i>	V	Commensal	
<i>Pinnixa cylindrica</i>	V	Commensal	
Family Grapsidae			
<i>Planes minutus</i>	V	On <i>Sargassum</i>	*
<i>Sesarma reticulatum</i>	V	Lit. salt marshes	
<i>Sesarma cinereum</i>	C,38°	Lit.	
Family Ocypodidae			
<i>Ocypode quadrata</i>	C,41°	Lit.	
<i>Uca minax</i>	C,41°	Lit.	
<i>Uca pugnax</i>	V	Lit.	*
<i>Uca pugilator</i>	V+	Lit. eury.	
Family Palicidae			
<i>Palicus alternatus</i>	C+	7 to 110 m	
<i>Palicus</i> spp.	C+,V	90 to 530 m	

Abbreviations of Collectors Names

ABL	A. B. Lay	KM	Ken McKay
AE	Ann Eaton	L	Lhonus
AT	A. Tucker	LC	Linda Cameron
BAM	Betty Ann Milligan	LD	L. Duncanson
BB	Bruce Bennett	ME	Milne Edwards
B & E	Bleakney & Eaves	MJM	M. J. McNeill
BH	Bruce Hatcher	MSJ	M. S. Jenkins
BJ	B. Jessop	MTJ	M. T. Jenkins
BR	B. Reid	PB	Paul Brodie
BW	Barry Wright	PD	Paul Doleman
CC	Coleen Clarke	PM	Peter MacLeod
CD	Cyrus Dauphinee	PO	Paul Odense
CP	Clarence Pipes	RCH	R. C. Hermes
DS	D. Swetnam	RJJH	R. J. J. Hunt
DSD	Derek S. Davis	RML	R. M. Lane
DW	Don Waugh	RT	Richard Tufts
EP	Earl Power	SB	S. Bleakney
ES	Ervin Scott	SD	Seldon Doyle
FLC	F. L. Corkum	SP	Stan Purdy
FM	Fred Martin	SS	Mrs. Sidney Smith
FS	F. Scott	TA	Ted Anderson
GC	George Cadden	UC	Unknown Collector
GO	Garnet Oliver	USFC	United States Fisheries Commission
HI	H. Ince	VK	Victor Kiley
JB	Joe Boudreau	WL	W. Lent
JG	John Gilhen	WR	W. E. Rood
JK	J. O. Kiley	WT	W. Take
JLM	J. L. Martin		

Department of the Nova Scotia Museum

Department of the Nova Scotia Museum, Halifax, Nova Scotia, Canada B3H 2R6

Family: Hippidae
Subfamily: Hippinae
(Order: Decapoda)

NOVA SCOTIA MUSEUM COLLECTION
Halifax, Nova Scotia, Canada B3H 2R6

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NOVA SCOTIA MUSEUM COLLECTION

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(Order: Decapoda)

Family: Hippidae
Subfamily: Hippinae

NOVA SCOTIA MUSEUM COLLECTION
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in the

NO

NOVA SCOTIA MUSEUM COLLECTION

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Family: Hippidae

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Family: Hippidae

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Family: Hippidae

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Decapods in the Nova Scotia Museum Collection

Sequence of the information is as follows: Location, date, collector, number of specimens, and whether these are stored in 70% Isopropanol, (W) or dry, (D).

Order: Decapoda
 Infraorder: Penaeidea (Penaeidean Shrimp)
 Family: Sergestidae

Sergestes arcticus Kroyer

A synopsis of Canadian Marine
 Zooplankton (1971) P.223

Cabot Strait, N. S.

20 April 1974

AE

8W

Infraorder Caridea
 Family Pasiphaeidae

(Caridean Shrimp)

Pasiphaea multidentata Esmark
P. tarda G. O. Sars

Rathbun, M. J. (1929) P.5

Cabot Strait, N. S.

1 May 1973

AE

2W

Family Oplophoridae

Acanthephyra purpurea A. Milne Edwards

Rathbun, M. J. (1929) P.6

Emerald Bank, N. S.

24 June 1974

DSD

1W

Browns Bank, N. S.

16 Oct. 1973

PO

1W

South of Sable Island

16 April 1973

DSD

1W

Family Palaemonidae

Palaemonetes pugio (Holthius)

Gosner (1971) P. 521

Petpeswick Inlet, N. S.

7 Oct. 1971

JG, KM

1W with eggs

Family Hippolytidae

Eualus fabricii Kroyer

Gosner (1971) P.521

(*Spirontocaris fabricii* Kroyer by Rathbun (1929))

Halifax Harbour, N. S.

no date

UC

2W

Prospect Bay, N. S.

VK

2W

Prospect Bay, N. S.

VK

1W ? with eggs

<i>Lebbeus groenlandicus</i> Fabricius	Gosner (1971) P.521
(<i>Spirontocaris groenlandica</i> J. C. Fabricius	Rathbun (1929) P.10
<i>S. aculeata</i> O. Fabricius)	

St. Margarets Bay, N. S.	16 Oct. 1973	PD	1W
Petpeswick Inlet, N. S.	19 May 1971	TA	2W
Prospect Bay, N. S.	Fall 1975	VK	6W

Family Pandalidae

<i>Pandalus borealis</i> Kroyer	Rathburn (1929) P.8
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Halifax Harbour, N. S.	19 April 1973	DSD	8W
Halifax Harbour, N. S.	19 April 1973	DSD	5W
Shelburne Harbour, N. S.	Summer 1973	PM	1W
Cabot Strait, N. S.	May 1973	AE	1W
South of Baccaro Pt., N.S.	1 Aug. 1972	PO	1W
South of Emerald Bank, N.S.	31 July 1972	PO	1W
Off Chebucto, N. S.	1887	USFC	8W
Halifax Harbour	3 Oct. 1973	BAM,PD	14W

<i>Pandalus montagui</i> Leach	Rathbun (1929) P.8
(<i>P. annulicornis</i> Leach, <i>levigatus</i> Stimpson)	

Emerald Basin, N. S.	18 April 1973	DSD	1W
Western Bank, N. S.	25 June 1974	DSD	17W
Western Bank, N. S.	25 June 1974	DSD	1W
Western Bank, N. S.	25 June 1974	DSD	5W
Emerald Bank, N. S.	24 June 1974	DSD	1W
Halifax Harbour, N. S.	19 April 1973	DSD	8W, 1 with larvae
Halifax Harbour, N.S.	19 April 1973	DSD	1W
Emerald Bank, N. S.	18 April 1973	DSD	4W
N. of Sable Island, N.S.	17 April 1973	DSD	23W
Emerald Bank, N. S.	15 April 1973	DSD	4W
Black Rock, Kings Co.N.S.	10 July 1959	UC	discarded
Northwest of Sable Island	17 April 1973		18W
S.E. Buoy, Halifax Harbour	3 Oct. 1973		4W, 2 ♂ & 2 ♀ with eggs
Shelburne Harbour, N. S.	summer 1973		2W

<i>Dichelopandalus leptocerus</i> (Smith)	Rathbun (1929) P.10
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Northwest of Sable Island	17 April 1973	DSD	1 ♀ with eggs
Emerald Gully, N. S.	18 April 1973	DSD	5W
Emerald Bank, N. S.	18 April 1973	DSD	1W
Western Bank, N. S.	25 June 1974	DSD	6W
Western Bank, N. S.	25 June 1974	DSD	1W
Emerald Bank, N. S.	15 April 1973	DSD	7W
Western Bank, N. S.	25 June 1974	DSD	1W

Western Bank, N. S.	25 June 1974	DSD	3W
Shelburne Harbour, N.S.	summer 1973	PM	1W
Western Bank, N. S.	25 June 1974	DSD	5W
Emerald Bank, N. S.	18 April 1973	DSD	2W
Western Bank, N. S.	25 June 1974	DSD	17W
North of Sable Island, N.S.	17 April 1973	DSD	23W
Emerald Bank, N. S.	15 April 1973	DSD	4W
Emerald Bank, N. S.	18 April 1973	DSD	1W
Emerald Bank, N. S.	24 June 1974	DSD	1W

Parapandalus richardi (Coutiere)I.C.E.S. Zooplankton
sheet 112

LaHave Bank, N. S.	15 Aug. 1974	PO	1W
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Family Crangonidae (Sand Shrimp)

F. Crangonidae

Carribbean Sea	no date	UC	7W abdomens only
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Argis dentata (Rathbun)Rathbun (1929) P.21

Halifax Harbour, N.S.	3 Oct. 1973	BAM, PD	2W
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Crago septemspinosus (Say)Rathbun (1929) P.20

Tuft's Cove, N. S.	16 May 1911	UC	1W
Off Rous Pt., Lun.Co.N.S.	July 1975	CC	1W
Emerald Bank, N. S.	18 April 1973	DSD	1W
Emerald Bank, N.S.	18 April 1973	DSD	2W
N. of Sable Island, N.S.	17 April 1973	DSD	4W
Petpeswick Inlet, N. S.	22 July 1971	DSD	2W
Dominion Beach, C.B.I.	19 Aug. 1971	DSD	5W with eggs
Shelburne Harbour, N. S.	summer 1973	PM	1W
Petpeswick Inlet, N.S.	28 June 1971	DSD, LC	2W both with eggs
Petpeswick Inlet, N.S.	22 July 1971	DSD	2W
Petpeswick Inlet, N. S.	28 June 1971	DSD, LC	1W
Petpeswick Inlet, N. S.	20 May 1971	DSD, LC	2W both with eggs
North West Arm, N.S.	6 April 1954	MSJ	1W
Halifax Harbour, N. S.	no date	USFC	4W
Cherry Hill, Lun.Co.N.S.	14 May 1954	MJFJ	5W
E. of Cape Sharp, Cumb. Co., N.S.	24 Sept. 1957	MJM, RML	3W
Prospect Bay, N. S.	13 Sept. 1957	MJM, RML	1W
Cheverie, Hants Co., N.S.	23 Sept. 1957	MJM, RML	4W
Caribou Is., N.S.	26 Sept. 1957	MJM, RML	3W
Lawrencetown, N. S.	20 Sept. 1957	MJM, RML	1W
Avonport Beach, Kings Co., N. S.	9 June 1959	B & E	6W
Kingsport, Kings Co.N.S.	27 July 1957	B & E	20W
St. Andrews, N.B.	23 Sept. 1969	DSD, FS	15W

Emerald Bank, N.S.	15 April 1973	DSD	1W
Annapolis River, N. S.	2 July 1975	BJ,DS	3W
Annapolis River, N.S.	2 July 1975	BJ,DS	1W
Crescent Beach, Lun. Co., N. S.	30 June 1969	DSD	2W
Petpeswick Inlet, N. S.	5 May 1971	DSD,LC	1W
Petpeswick Inlet, N.S.	1971.	UC	1 juvenile, discarded
Petpeswick Inlet, N. S.	7 Oct. 1971	JG,KM	1 juvenile, discarded
Petpeswick Inlet, N. S.	1971	UC	2 juveniles, discarded
Petpeswick Inlet, N. S.	21 March 1971	BB,BH	
Avonport Beach, N. S.	3 June 1959	B & E	1 discarded
Prospect Bay, N. S.	26 Sept. 1966	JG	6W
Bijou Rock, Port Joli, N.S.	20 July 1960	B & E	1W
unknown location, N.S.	no date	UC	6W
Partridge Is., Cumb.Co., N. S.	24 Sept. 1957	RML,MJM	specimen missing

Infraorder Astacidea (Lobsters)
Family Homaridae

Homarus americanus Milne Edwards

Rathbun (1929) P.23

Shelburne Harbour, N.S.	summer 1973	PM	1W
near Dartmouth, N.S.	no date	JG	1W unusual coloring
Redmond Is., Prospect, N.S.	17 May 1970	VK	1W
Cape George, Antigonish Co., N.S.	1904	ABL	1D
Goat Is., Annapolis River, N. S.	5 Aug. 1848	HI	1D claw
no location	1923	UC	missing from collection
Nova Scotia	no date	ME	used in display
Nova Scotia	no date	ME	used in display
Cape Percy, N.S.	25 June 1934	UC	abnormal chela
Ecum Secum, N. S.	17 May 1902	UC	used in display
Nova Scotia	no date	ME	1D used in display
Eastern Passage	spring 1967	SP	missing from collection
no location	no date	UC	missing from collection
no location	no date	UC	missing from collection
Halifax Harbour, N.S.	16 April 1901	UC	missing from collection

Family Palinuridae (Spiny Lobsters)

Palinurus vulgaris

I.C.E.S. Zooplankton sheet 67

LaHave Bank, N. S.	15 Aug. 1974	PO	1W
LaHave Bank, N. S.	15 Aug. 1974	PO	3W
LaHave Bank, N. S.	15 Aug. 1974	PO	2W
LaHave Bank, N. S.	15 Aug. 1974	PO	7W
LaHave Bank, N. S.	15 Aug. 1974	PO	5W
LaHave Bank, N. S.	15 Aug. 1974	PO	1W
LaHave Bank, N. S.	15 Aug. 1974	PO	2W
LaHave Bank, N. S.	15 Aug. 1974	PO	1W

Family Scyllaridae

Scyllarus arctus (slipper crab) Smith et al (1909) P.165

LaHave Bank, N. S.	15 Aug. 1974	PO	1W
LaHave Bank, N. S.	15 Aug. 1974	PO	1W
LaHave Bank, N. S.	14 Aug. 1974	PO	1W
-St. Georges Harbour, Bermuda	7 May 1912	AT	1D

Infraorder Anomura
Family Axiidae

Axius serratus Stimpson Rathbun (1929) P.25

Emerald Gully, N. S.	18 April 1973	DSD	1W
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Family Paguridae (Hermit Crabs)

Pagurus sp.

Marina da Pisa, Italy	14 Aug. 1973	BW	7D
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Pagurus acadianus Benedict Gosner P.643, 537
= *P. bernhardus*

Sand Point, Guys. Co., N. S.	lobster season 1967	ES	15W
Northport, Cumb. Co., N. S.	lobster season 1967	CP	9W
Prospect, Halifax Co., N. S.	Dec. 1968	VK	7W
Delap Cove, Annapolis Co., N. S.	20 Aug. 1959	B & E	1D
Cape Sable, Shelburne Co., N. S.	Nov.-Dec. 1966	GS	1D
Two Islands, Cumb. Co., N. S.	19 Aug. 1959	MJM	3W
East River, Lun. Co., N.S.	July 1975	CC	1W
Prospect, Halifax Co. N. S.	Nov.-Dec. 1966	VK	1W
Crystal Cliffs, Antigonish Co., N.S.	27 Sept. 1957	MJM, RML	1W
Partridge Is., Cumb. Co., N. S.	24 Sept. 1957	MJM, RML	2W
Peggy's Cove, N. S.	11 June 1969	PD, BAM	2W

Cape Sable, Shelburne Co., N. S.	Nov.-Dec. 1966	UC	11W
Front Harbour, Lun. Co., N. S.	Nov.28-Dec.10, 1966	FLC	4W
Chetichamp, Cape Breton Island	lobster season 1967	JB	3W
Front Harbour, Lun. Co., N. S.	Nov.28-Dec.10, 1966	FLC	2W
Nova Scotia	no date	UC	missing from collection
Cherry Hill, Lun. Co., N. S.	14 June 1954	MTJ	13W
Two Islands, Cumb. Co., N. S.	19 Aug. 1958	MJM,RCH	4W
Two Islands, Cumb. Co., N. S.	24 Sept. 1957	MJM,RML	4W
N. of Digby Bay, N. S.	6 Aug. 1958	BR,LD	1W
N. of Digby Bay, N. S.	6 Aug. 1958	BR,LD	1W
Shelburne Harbour, N. S.	summer 1973	PM	4W
Prospect Bay, N. S.	fall 1975	VK	1W
St. Margarets Bay, N. S.	16 Oct. 1973	PD	1W
Avonport Beach, Kings Co. N. S.	9 June 1959	B&E	1D
Cherry Hill, Lun. Co. N.S.	summer 1946	JLM	1W
Cherry Hill, Lun. Co. N.S.	summer 1946	JLM	1W
Hubbards Cove, N. S.	23 July 1920	CD	1D
N.W. of Sable Island, N.S.	17 April 1973	DSD	2W
Emerald Gully, N. S.	18 April 1973	DSD	1W
Emerald Bank, N. S.	24 June 1974	DSD	2W
Narrows, Halifax, N. S.	7 May 1920	RT	1D
S. W. of Sable Island, N.S.	16 April 1973	DSD	1D
Nova Scotia	no date	UC	1D
no location	no date	UC	2D
Cherry Hill, Lun. Co.N.S.	no date	MTJ	missing from collection
Two Island, Cumb. Co.N.S.	24 Sept. 1957	MJM,RML	missing from collection
Musquodoboit Harbour,N.S.	no date	UC	missing from collection
McNab's Is.,Halifax,N.S.	24 May 1915	RJJH	missing from collection
St. Catherine's River, Queens Co.,N.S.	21 July 1966	B&E	1W
Emerald Bank, N. S.	24 June 1974	DSD	1W
Prospect, Halifax Co., N. S.	28 Dec. 1966	VK	1W
Prospect, Halifax Co., N. S.	28 Dec. 1966	VK	4W

Pagurus arcuatus Squires

Gosner P.537

Petpeswick Inlet, Halifax Co., N.S.	19 May 1971	TA	1W
Seacomb Is., Mahone Bay, N. S.	16 June 1961	B&E	1W
Prospect, Halifax Co.,N.S.	28 Dec. 1966	VK	1W
N. of Sable Island, N. S.	17 April 1973	DSD	6W

Emerald Bank, N. S.	15 April 1973	DSD	1W
S.W. of Sable Island, N.S.	16 April 1973	DSD	7W
S. of Sable Island, N.S.	16 April 1973	DSD	1W
S.W. of Sable Island, N.S.	16 April 1973	DSD	1W

Pagarus pubescens Kröyer

Gosner P.537

Two Island, Cumb. Co. N.S.	19 Aug. 1958	MJM	1W
Prim Point, Digby Co., N. S.	14 Nov. 1972	GO	5W
Emerald Bank, N. S.	24 June 1974	DSD	3W
Emerald Bank, N. S.	31 July 1972	PO	1W
Emerald Bank, N. S.	1 Feb. 1969	DSD	1W
Halifax Harbour, N. S.	3 Oct. 1973	BAM, PD	4W
Emerald Bank, N. S.	24 June 1974	DSD	1W
Emerald Bank, N. S.	18 April 1973	DSD	3W
Emerald Bank, N. S.	24 June 1974	DSD	1W
Emerald Bank, N. S.	24 June 1974	DSD	1W
N. of Sable Island, N.S.	17 April 1973	DSD	1W
Emerald Gully, N. S.	18 April 1973	DSD	8W
Emerald Bank, N. S.	18 April 1973	DSD	1W
Emerald Bank, N. S.	15 April 1973	DSD	8W

Pagurus longicarpus Say

Gosner, P.537

Avonport Beach, Kings Co., N. S.	3 June 1960	B&E	1D
Mahone Bay, Lun. Co., N.S.	18 Aug. 1960	B&E	1D
Two Islands, Cumb. Co., N.S.	24 Sept. 1957	MJM, RML	9W
Cape Sharp, Cumb. Co., N.S.	24 Sept. 1957	MJM, RML	2W
Two Islands, Cumb. Co., N.S.	19 Aug. 1958	MJM	2W
Cheverie, Hants Co., N.S.	23 Sept. 1957	MJM, RML	1W
Avonport Beach, Kings Co., N. S.	9 June 1959	B&E	8W

Family Lithodidae (Stone Crabs)

Lithodes maia (Linnaeus)

Rathbun (1929) P.29

Off Halifax, N. S.	2 Dec. 1902	UC	1D
Pt. Pierre Banks	15 April 1957	L	1D
Sambro, N. S.	28 March 1913	WR	1D
Nova Scotia	no date	UC	1D
Jeddore Harbor, N.S.	9 July 1968	SD	1D
Terrance Bay, N. S.	no date	PB	1D
Prospect Bay, N. S.	1966	JK	1D
Prospect Bay, N. S.	3 Oct. 1966	JK	5W, 1D

Paralithodes camtschatica (Tilesius)

Firth (1969) P.55

Off Alaska	1972 (?)	UC	1D
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Family Galatheidæ

Munida valida

Proc. Nat. Mus. Vol. VI 1883

Off Seal Point,
Shelburne, N. S.

12 May 1971

FM

1W

Infraorder Brachyura (True Crabs)

Brachyura "megalopa" larvae

I.C.E.S. Zooplankton
sheet 67

LaHave Bank	15 Aug. 1974	PO	15W
LaHave Bank	15 Aug. 1974	PO	2W
LaHave Bank	15 Aug. 1974	PO	4W
LaHave Bank	15 Aug. 1974	PO	15W
LaHave Bank	15 Aug. 1974	PO	2W
LaHave Bank	15 Aug. 1974	PO	4W
LaHave Bank	15 Aug. 1974	PO	1W
LaHave Bank	15 Aug. 1974	PO	18W
LaHave Bank	15 Aug. 1974	PO	1W
LaHave Bank	15 Aug. 1974	PO	2W
LaHave Bank	15 Aug. 1974	PO	8W
LaHave Bank	15 Aug. 1974	PO	20W
LaHave Bank	15 Aug. 1974	PO	1W
LaHave Bank	15 Aug. 1974	PO	2W
LaHave Bank	15 Aug. 1974	PO	5W
LaHave Bank	15 Aug. 1974	PO	5W

Family Calappidae (Box Crabs)

Hepatus epheliticus (Linnaeus)

Gosner (1971) P.542

Shelburne Harbour, N. S.

summer 1973

PM

1D

Family Majidae (Water Spider Crabs)

Hyas coarctatus Leach

Rathbun (1929) P.37

S.E. of LaHave Bank, N.S.	1 Aug. 1972	PO	1W
Prospect Bay, N. S.	Fall 1975	VK	1W
N.W. of Sable Island, N.S.	17 April 1973	DSD	1W
Emerald Bank, N. S.	18 April 1973	DSD	3W
Emerald Bank, N. S.	18 April 1973	DSD	3W
Emerald Bank, N. S.	24 June 1974	DSD	1W
Western Bank, N. S.	25 June 1974	DSD	2W
Petpeswick Inlet, N.S.	19 May 1971	TA	3W
Digby, Bay of Fundy, N.S.	Aug. 1958	BR,LD	1W
Prospect Bay, N. S.	Nov.-Dec. 1966	VK	2W
no location	23 Apr. 1960	SB	1D

Black Rock, Kings Co., N.S.	10 July 1959	B & E	1D
Nova Scotia	no date	UC	1D
Nova Scotia	no date	UC	1D
New Waterford, C.B. Is.	1967	GC	2W
Cherry Hill, Lun. Co., N.S.	summer 1946	JLM	1W
Lunenburg, Lun. Co., N.S.	4 Jan. 1967	FLC	1W
N. of Newfoundland	Jan. 1903	S.S.Minia	1W
Cape Sable, N. S.	Nov.-Dec. 1966	UC	2W
off Halifax Harbour, N.S.	Jan. 1903	S.S.Minia	1D
Eastern Passage, N. S.	1967	SP	10W
Prospect, N. S.	Dec. 1968	VK	2W
Nova Scotia	no date	UC	6W

Libinia emarginata Leach

Rathbun (1929) P.38

Kingsport, N. S.	27 July 1959	B & E	missing from collection
Family Cancridae (Rock Crabs)			

Cancer irroratus Say

Rathbun (1929) P.32

Northport, Cumb.Co.N.S.	1967	CP	discarded
Shelburne Harbour, N. S.	summer 1973	PM	discarded
Cape Sable, N. S.	Nov.-Dec. 1966	UC	discarded
Prospect, N. S.	Nov.-Dec. 1966	VK	discarded
Prospect, N. S.	Nov.-Dec. 1966	VK	discarded
Prospect, N. S.	Nov.-Dec. 1966	VK	discarded
New Waterford, C.B.Is.	no date	GC	discarded
New Waterford, C.B.Is.	1967	GC	discarded
Cape Sable, N. S.	1966	UC	discarded
Ships Run, East Jeddore, N. S.	1967	EP	discarded
Ships Run, East Jeddore, N. S.	1967	EP	discarded
Ships Run, East Jeddore, N. S.	1967	EP	discarded
Eastern Passage, Halifax Co., N. S.	1967	SP	discarded
Eastern Passage, Halifax Co., N. S.	1967	SP	discarded
Eastern Passage, Halifax Co., N. S.	1967	SP	discarded
Cheticamp, C. B. Is.	1967	JB	discarded
Cheticamp, C. B. Is.	1967	JB	discarded
Cheticamp, C. B.Is.	1967	JB	discarded
Sand Point, Guys. Co., N. S.	1967	ES	discarded
Sand Point, Guys. Co.N.S.	1967	ES	discarded
Sand Point, Guys. Co.N.S.	1967	ES	discarded
Northport, Cumb. Co. N.S.	1967	CP	discarded
Front Harbour, Lun.Co.N.S.	1966	FLC	discarded
Front Harbour, Lun.Co.N.S.	1966	FLC	discarded
Lunenburg, N. S.	4 Jan. 1967	FLC	discarded

Lunenburg, N. S.	no date	FLC	discarded
S. W. of Sable Island, N.S.	16 April 1973	DSD	1D
Emerald Bank, N. S.	15 April 1973	DSD	1W
Halls Harbour, Kings Co. N. S.	23 April 1960	SB	1W
Herring Cove, Halifax Co., N. S.	18 Sept. 1957	MJM, RML	1W
Caribou River, Pic. Co. N. S.	26 Sept. 1957	MJM, RML	1W
Pugwash, Cumb. Co., N.S.	25 Sept. 1957	MJM, RML	3W
Prospect, N. S.	4 Sept. 1966	JG	1W
Cape Sharp, Cumb. Co., N. S.	24 Sept. 1957	UC	2W
Emerald Bank, N. S.	24 June 1974	DSD	2W
Crystal Cliffs, N. S.	27 Sept. 1957	MJM, RML	1W
Lawrencetown Head, Halifax Co., N. S.	6 Nov. 1968	DSD, FS, BW, JG	1W
Black Rock, Kings Co. N. S.	10 July 1959	B & E	1W
Kingsport, Kings Co., N.S.	20 July 1959	B & E	1W
Avonport Beach, Kings Co., N. S.	9 June 1959	B & E	2W
Kingsport, Kings Co., N.S.	27 July 1959	B & E	3W
Prospect, N. S.	4 Sept. 1966	JG	1W
Ships Run, East Jeddore N. S.	1967	EP	2W
Petpeswick Inlet, N.S.	21 March 1971	BH, BB	1W
Off East River, Lun. Co., N. S.	July 1975	CC	2W
Brule Wharf, Col. Co., N. S.	3 Aug. 1960	B & E	2W
Lawrencetown Beach, Halifax Co., N. S.	6 Nov. 1968	DSD	1W
Herring Cove, Halifax Co., N. S.	25 May 1959	RCH, MJM	1W
Brule Wharf, Col. Co., N.S.	3 Aug. 1960	B & E	missing from collection
Cow Bay, Halifax Co., N.S.	20 Sept. 1957	UC	missing from collection
Nova Scotia	no date	UC	missing from collection
North Beach, Sable Island, N. S.	26 July 1967	FS	1D
Petpeswick Inlet, N. S.	22 July 1971	DSD, LC, PD	2D
Prospect, Halifax Co., N.S.	1966	VK	2D
Ships Run, Halifax Co. N.S.	1966	EP	1D
Lunenburg, N. S.	1967	FLC	1D
Cape Sable, N. S.	1966	UC	2D
Front Harbour, Lunenburg N. S.	1966	FLC	3D
Cape Sable, N. S.	1966	UC	4D
Port Mouton, Queens Co., N. S.	27 Aug. 1959	B & E	2D
Kingsport, Kings Co. N.S.	27 July 1959	B & E	2D
Margaretville, Anna. Co.,	20 Aug. 1959	B & E	1D

Avonport Beach, Kings Co., N. S.	3 June 1959	B & E	1D
Prospect, Halifax Co., N.S.	1966	VK	4W
Front Harbour, Lunenburg N. S.	1966	FLC	4D
Port Herbert, N. S.	29 July 1960	B & E	1D
Cape Sable, Shelburne Co., N. S.	1966	UC	5D
Ships Run, East Jeddore, N. S.	1967	UC	3D
Front Harbour, Lun. Co. N. S.	no date	FLC	3D
Northport, Cumb. Co., N.S.	1967	CP	1D
No location	1902-3	UC	missing from collection

Cancer borealis Stimpson

Rathbun, M. J. (1929) P.33

Front Harbour, Lun.Co., N.S.	1966	FLC	discarded
Cape Sable, Shel. Co., N.S.	1966	UC	discarded
Cape Sable, Shel. Co., N.S.	1966	UC	discarded
Lunenburg, N. S.	Nov.-Dec. 1966	FLC	discarded
Front Harbour, Lun.Co., N.S.	Nov.-Dec. 1966	FLC	discarded
Lunenburg, N. S.	4 Jan. 1967	FLC	discarded
Cape Sable, Shel.Co., N.S.	Nov.-Dec. 1966	UC	discarded
Prospect, N. S.	Nov.-Dec. 1966	VK	discarded
Sand Point, Guys. Co. N.S.	1967	ES	1W
Prospect, N. S.	1966	VK	missing from collection
Prospect, N. S.	1966	VK	missing from collection

Family Portunidae (Swimming Crabs)

Carcinus maenas Linnaeus (shore crab)
Carcinides maenas (Linnaeus)

Gosner (1971) P.542
 Miner (1950) P.521

Prospect Bay, N. S.	10 Aug. 1970	PD, JG	2W
Prospect Bay, N. S.	4 Sept. 1966	JG	1W
Annapolis River, N. S.	12 Aug. 1975	BJ, DS	1W
Avonport Beach, N. S.	31 Aug. 1959	B & E	4W
Black Rock, Kings Co., N.S.	10 July 1959	B & E	1W
Sandy Cove, Prospect, N. S.	11 Sept. 1966	JG	1W
Sandy Cove, Prospect, N.S.	11 Sept. 1966	JG	1W
Prospect Bay, N. S.	4 Sept. 1966	JG	1W
Westport, Digby Co., N.S.	9 Aug. 1960	WL	1W
Peggy's Cove, Halifax Co., N. S.	14 May 1964	JG	1W

Parrsboro, Cumb. Co., N.S.	18 Aug. 1958	MJM	3W
Prospect, Halifax Co., N.S.	Nov.-Dec. 1966	VK	9W
Blomidon, Kings Co., N.S.	9 Oct. 1960	SB	missing from collection
Prospect Bay, Halifax Co. N. S.	10 Sept. 1969	JG	missing from collection

Ovalipes ocellatus (Herbst) Gosner (1971) P.543

Avonport Beach, Kings Co., N. S.	14 July 1960	SB	1D
Blomidon, Kings Co., N.S.	9 Oct. 1960	SB	1D
Avonport Beach, Kings Co., N. S.	14 July 1960	SB	1D

Bathynectes superbus (Costa) Gosner (1971) P.543

Western Bank, N. S.	25 June 1974	DSD	1W, 1D
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Callinectes sapidus Rathbun (blue crab) Gosner (1971) P.543

Cow Bay, Halifax Co., N.S.	24 April 1903	UC	1W
St. Margarets Bay, N. S.	summer 1970	KM	1W
Cow Bay, Halifax Co., N.S.	24 April 1903	UC	1D
Cole Harbour, Halifax Co., N. S.	7 Nov. 1902	UC	1D
Cow Bay, Halifax Co., N.S.	7 Nov. 1902	UC	1D
Cow Bay, Halifax Co., N.S.	27 Nov. 1902	UC	1D
Cow Bay, Halifax Co., N.S.	1-8 May 1903	UC	1D
Cow Bay, Halifax Co., N.S.	7 Nov. 1902	UC	1D
Cow Bay, Halifax Co., N.S.	7 Nov. 1902	UC	1D
Lawrencetown Beach, N.S.	26 Aug. 1954	WT	1D
Cow Bay, Halifax Co., N.S.	11 Dec. 1902	UC	missing from collection
Cow Bay, Halifax Co., N.S.	11 Dec. 1902	UC	missing from collection

Family Xanthidae (Mud Crabs)

Panopeus herbstii Milne-Edwards Gosner (1971) P.543

Brule Wharf, Col. Co., N.S.	3 Aug. 1960	B & E	2D
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COLLECTION LOCALITY MAPS

