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A PRELIMINARY CHECKLIST OF THE MARINE AND ESTUARINE INVERTEBRATES OF MAINE

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by Lee F. Perkins
Peter F. Larsen

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A PRELIMINARY CHECKLIST OF THE MARINE AND ESTUARINE INVERTEBRATES OF MAINE

U.S. DEPARTMENT OF COMMERCE NOAA
COASTAL SERVICES CENTER
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1975

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PREFACE

During the preceding century several investigators have cataloged and described the invertebrate fauna of selected areas of the Maine coast. Principal among these are Verrill (1873) in Casco Bay, Webster and Benedict (1885) at Eastport, Kingsley (1901) also in Casco Bay, and Procter (1933) in the Mount Desert Island region. Since the passing of the era of descriptive biology, much of the interest in the invertebrate biota of the Maine coast has been perpetuated. This is especially true in the Cobscook Bay, Sheepscot River and Isle of Shoals regions. This work and other projects along the coast have been fragmented, however, and there has been no significant effort to collate all of the material collected into a comprehensive volume that would be useful to investigators all along the Maine coast.

At the initiation of the State Planning Office and the Department of Marine Resources, and at the encouragement of TRIGOM, to summarize information on the distribution and abundance of the marine and estuarine macroinvertebrates of Maine, the authors undertook to produce an annotated checklist that would be useful to planners, educators and the general public, as well as to the scientific community. The popularity of an earlier checklist of marine invertebrates, principally from the Brunswick region (Knowlton, 1971) provided the impetus for the construction of a more detailed list encompassing the entire Maine coast. The present document is a first cull of the recent data (since 1940) and is offered as a preliminary report for use while the longer, complete form is in preparation.

Data for this report were derived from several sources. The open scientific literature was thoroughly searched. Gray literature, such as environmental baseline studies and progress reports on research projects, was used. In addition, interviews were conducted among all colleges and universities, research groups and private citizens known to have a biological interest in the Gulf of Maine region. TRIGOM'S Directory of Marine Research Facilities and Personnel in Maine, 3rd Edition (1974), was useful in this phase of data gathering. The bibliography is divided into two sections, one for literature available through routine channels and the other for manuscripts, to emphasize the diverse nature of the data sources.

This checklist, therefore, contains information derived from unverified student reports, as well as from extremely accurate scientific contributions. There are, however, surprisingly few suspicious identifications and, at this point, we are not questioning any of them. As work on this undertaking continues we expect to be able to remove these few probable misidentifications with confidence that we are not suppressing a significant range extension. In the meantime, the user should remember that all of the species included are not rigorously documented.

The Coastal Planning Group of the Maine State Planning Office has divided the Maine coastline into 11 planning regions. We have followed this convention to make this contribution of direct use to the planners, as a gross way of describing species' distribution, and as a means of highlighting areas where thorough surveys have not been accomplished. Following the name of each species in the checklist are listed the numbers of the regions in which the species

presence has been reported since 1940. In the bibliography, the region(s) in which a piece of research was undertaken are listed following each entry. The regions are outlined in Fig. 1 and the names of included towns are as follows:

Region 1. Upper Penobscot Bay - Northport, Belfast City, Searsport, Stockton Springs, Prospect, Frankfort, Bucksport, Orland, Penobscot, Castine, Brooksville, and Islesboro.

Region 2. Knox Region - Friendship, Cushing, St. George, South Thomaston, Thomaston, Owls Head, Warren, Rockland City, Rockport, Camden, Lincolnville, North Haven, Vinalhaven, and Matinicus Plantation.

Region 3. East Penobscot Bay - Isle au Haut, Stonington, Deer Isle, Sedgwick, Blue Hill, Brooklin, Swans Island, and Long Island Plantation.

Region 4. East Hancock County - Cranberry Isles, Southwest Harbor, Mount Desert, Bar Harbor, Trenton, Surry, Ellsworth City, Township 8 Southern Division, Hancock, Lamoine, Franklin, Township 9 Southern Division, Township 10 Southern Division, Sullivan, Sorrento, Township 7 Southern Division, Gouldsboro, and Winter Harbor.

Region 5. Lincoln County - Southport, Boothbay Harbor, Boothbay, Westport, Edgecomb, Wiscasset, Dresden, Alna, Newcastle, Nobleboro, Waldoboro, Damariscotta, Bremen, Bristol, and South Bristol.

Region 6. Western Mid-Coast - Harpswell, Brunswick, Topsham, Bowdoinham, Richmond, Perkins Township, Woolwich, Bath City, West Bath, Phippsburg, Arrowsic, and Georgetown.

Region 7. West Washington County - Steuben, Cherryfield, Milbridge, Harrington, Columbia, Columbia Falls, Addison, Centerville, Jonesboro, Jonesport, Beals, and Roque Bluffs.

Region 8. Central Washington County - Whitneyville, Marshfield, Machias, East Machias, Machiasport, Marion Township, Whiting, and Cutler.

Region 9. East Washington County - Trescott Township, Edmunds Township, Dennysville, Pembroke, Calais City, Robbinston, Perry, Eastport City, and Lubec.

Region 10. Cumberland-Greater Portland - Scarboro, Cape Elizabeth, South Portland City, Portland City, Falmouth, Cumberland, Yarmouth, and Freeport.

Region 11. Southern Maine - Kittery, Eliot, South Berwick, York, Wells, Kennebunk, North Kennebunkport, Kennebunkport, Biddeford City, Saco City, and Old Orchard Beach.

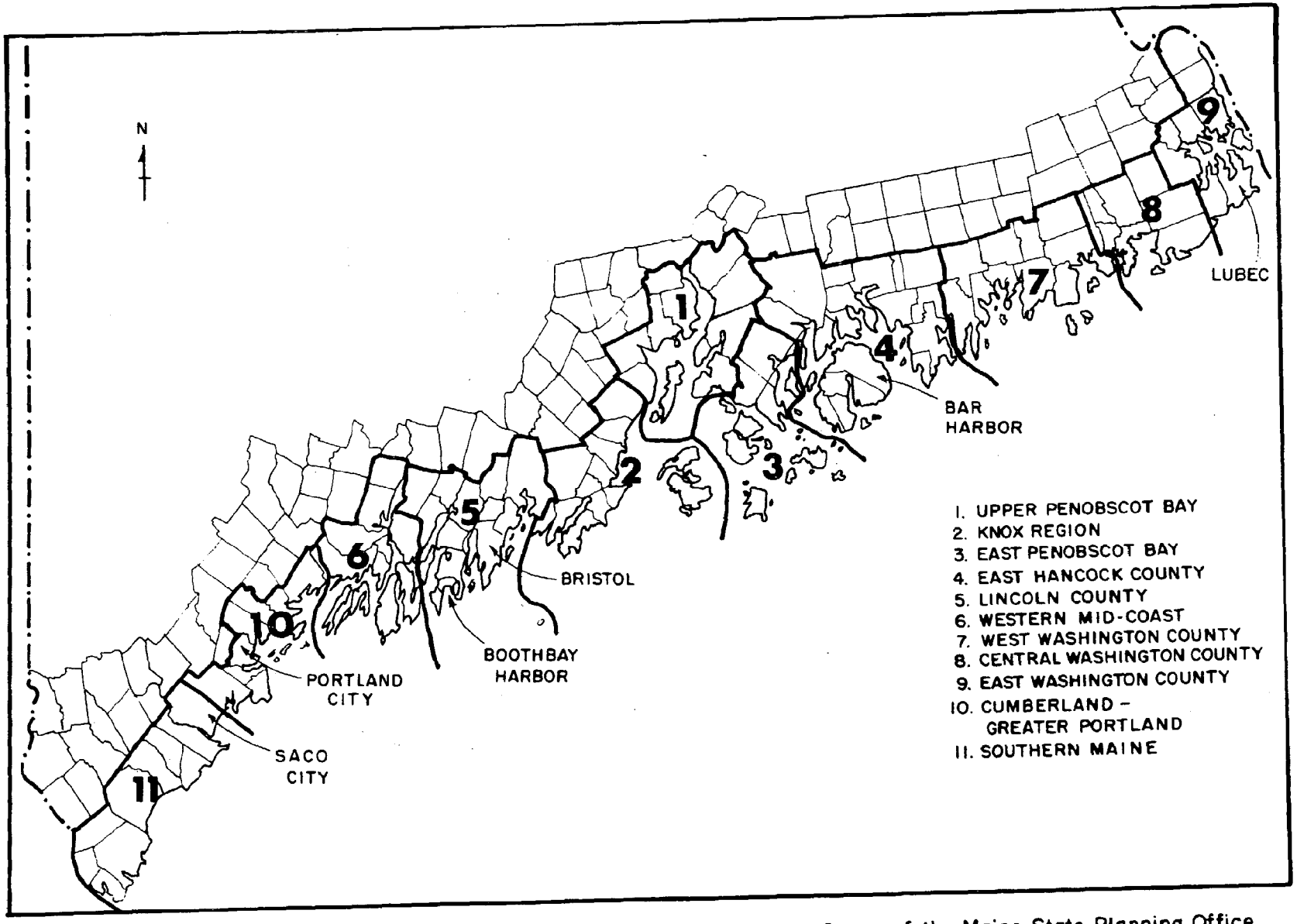

Figure 1. Planning regions as designated by the Coastal Planning Group of the Maine State Planning Office.

The phyla, and the higher taxa within each phylum, are arranged in phylogenetic order following Gosner (1971). Within the lowest taxon above the generic level, however, species are listed in alphabetical order for the convenience of non-specialists.

We believe that many more than the 767 invertebrate species listed here are inhabitants of the various habitats of the Maine coast. We would appreciate receiving additions and corrections to the checklist so that subsequent editions may be more complete.

Peter F. Larsen
West Boothbay Harbor

CONTENTS

Phylum Porifera 1

Phylum Cnidaria

Class Hydrozoa 2

Class Scyphozoa 3

Class Anthozoa 3

Phylum Ctenophora 4

Phylum Platyhelminthes 5

Phylum Rhynochocoela 5

Phylum Aschelminthes

Class Priapulida 6

Phylum Entoprocta 6

Phylum Chaetognatha 6

Phylum Bryozoa 6

Phylum Brachiopoda 8

Phylum Mollusca

Class Aplacophora 8

Class Polyplacophora 8

Class Gastropoda

Subclass Prosobranchia 8

Subclass Opisthobranchia 10

Class Scaphopoda 11

Class Bivalvia 11

Class Cephalopoda 14

Phylum Annelida

Class Polychaeta 14

Class Oligochaeta 20

Class Hirudinea 20

Phylum Sipunculida 20

Phylum Arthropoda

Subphylum Pycnogonida 21

Subphylum Chelicerata

Class Merostomata 21

Subphylum Mandibulata

Class Crustacea

Subclass Ostracoda 21

Subclass Cirripedia 21

Subclass Malacostraca

Order Nebaliacea 21

Order Cumacea 22

Order Tanaidacea 22

Order Isopoda 22

Order Amphipoda 23

Order Mysidacea 25

Order Euphausiacea 25

Order Decapoda 25

Class Insecta

Order Collembola 27

Phylum Echinodermata

Class Holothuroidea 27

Class Echinoidea 27

Class Stelleroidea

Subclass Asteroidea 27

Subclass Ophiuroidea 28

Phylum Hemichordata 28

Phylum Chordata

Class Ascidiacea 28

Bibliography

Available Literature 30

Manuscripts 34

PHYLUM PORIFERA

	Region
Class Calcarea	
Family Homocoelidea	
Leucosolenia sp.	5,7,8,9,11
Leucosolenia botryoides	9,11
Family Heterocoelidae	
Scypha sp.	5,6,8,9
Scypha ciliata	9,11
Class Desmospongiae	
Order Keratosa	
Family Halisarcidae	
Halisarca sp.	5,9
Order Haplosclerida	
Family Desmacidonidae	
Isodictya deichmannae	9
Isodictya palmata	9
Family Haliclonidae	
Haliclona canaliculata	5,9
Haliclona oculata	1,5,6,7,8,9,11
Order Poecilosclerida	
Family Microcionidae	
Microciona prolifera	5,7,9,11
Family Myxillidae	
Iophon nigricans	9,10
Myxilla incrustans	9,11
Family Mycalidae	
Mycale minuta	11
Mycalecarmia ovulum	9,11
Order Halichondrida	
Family Halichondridae	
Halichondria sp.	5,6,11
Halichondria bowerbanki	5,9,11
Halichondria panicea	3,5,7,8,9,11
Pellina sitiens	5,9
Order Axinellida	
Family Axinellidae	
Cladocroce ventilabrum	5
Order Hadromerida	
Family Suberitidae	
Polymastia robusta	9
Suberites sp.	4
Suberites ficus	5,9,11
Trichostemma sol	11
Family Clionidae	
Cliona celata	5,8,9,10,11
Cliona vastifica	9,10

PHYLUM CNIDARIA

	Region
Class Hydrozoa	
Order Athecata	
Family Hydridae	
Protohydra sp.	1
Family Corymorphiidae	
Corymorpha pendula	8,9,11
Family Tubulariidae	
Tubularia sp.	5,6,9
Tubularia crocea	4,9,11
Tubularia larynx	9,11
Tubularia spectabilis	9
Family Acaulidae	
Acaulis primarius	5
Family Corynidae	
Sarsia tubulosa	7,11
Family Pennariidae	
Pennaria tiarella	5
Family Clavidae	
Clava leptostyla	4,5,7,8,9,11
Cordylophora lacustris	1,5
Family Hydractiniidae	
Hydractinia sp.	9
Hydractinia echinata	4,5,8,9
Family Bougainvilliidae	
Bougainvillia sp.	11
Bougainvillia carolinensis	5
Family Eudendriidae	
Eudendrium sp.	5,9,11
Eudendrium album	11
Order Limnomedusae	
Family Olindiidae	
Gonionemus vertens	5,9,11
Order Thecata	
Family Campanularidae	
Campanularia sp.	4,8,9,11
Campanularia amphora	4,11
Campanularia angulata	11
Campanularia flexuosa	4,9,11
Clytia sp.	11
Clytia johnstoni	5
Eucopella caliculata	11
Obelia sp.	5,11
Obelia commissuralis	5,11
Obelia geniculata	4,5,8,9,11
Obelia longissima	5
Family Campanulinidae	
Calycella syringa	9
Opercularella pumila	11
Family Melicertidae	
Melicertum octocostatum	5,11

	Region
Family Aequoreidae	
Aequorea aequorea	*11*
Family Sertularidae	
Abietinaria sp.	*9*
Abietinaria abietina	*5,9,11*
Diphasia fallax	*9*
Hydrallmania falcata	*9*
Sertularella tricuspidata	*5,9*
Sertularia sp.	*4,5,6,7,10,11*
Sertularia pumila	*4,5,7,8,9,11*
Thuiaria sp.	*5*
Thuiaria argentea	*9*
Thuiaria cupressina	*4*
Thuiaria similis	*9*
Family Plumularidae	
Schizotricha tenella	*11*
Order Siphonophora	
Family Physonectae	
Stephanomia sp.	*9*
Class Scyphozoa	
Order Stauromedusae	
Family Eleutherocarpidae	
Haliclystus auricula	*8,9,11*
Haliclystus salpinx	*5,8,9*
Lucernaria quadricornis	*5,8,9*
Family Cleistocarpidae	
Craterolophus convolvulus	*9*
Thaumatoscyphus atlanticus	*5*
Order Semaeostomeae	
Family Cyanidae	
Cyanea artica	*11*
Cyanea capillata	*3,4,5,9*
Family Ulmaridae	
Aurelia aurita	*3,4,5,9*
Class Anthozoa	
Subclass Octocorallia	
Order Alcyonacea	
Family Alcyoniidae	
Alcyonium digitatum	*5,11*
Family Nephtheidae	
Gersemia rubiformis	*9*
Subclass Zoantharia	
Order Actiniaria	
Tribe Athenaria	
Family Edwardsiidae	
Edwardsia elegans	*3,4,9,10,11*
Edwardsia sipunculoides	*5*
Family Halcampidae	
Halcampa duodecimcirrata	*5,9*
Tribe Thenaria	

	Region
Family Actinidae	
Bolocera tuediae	*5,10*
Bunodactis stella	*7,8,9*
Tealia felina	*5,7,8,9,11*
Family Actinostolidae	
Actinostola callosa	*9,11*
Stomphia coccinea	*9,10*
Family Hormathiidae	
Actinuage rugosa	*11*
Family Metridiidae	
Metridium sp.	*4,6,7*
Metridium senile	*4,5,7,8,9,11*
Family Aiptasiomorphidae	
Haliplanella luciae	*3,5,7,9,11*
Family Diadumenidae	
Diadumene leucolena	*7,11*
Order Ceriantharia	
Family Cerianthidae	
Ceriantheopsis americanus	*5*
Cerianthus sp.	*5*
Cerianthus borealis	*9,10*

PHYLUM CTENOPHORA

Class Tentaculata	
Order Cydippida	
Family Pleurobrachiidae	
Pleurobrachia pileus	*9,11*
Order Lobata	
Family Bolinopsidae	
Bolinopsis infundibulum	*4,5,9,11*
Family Mnemiidae	
Mnemiopsis leidyi	*5*
Class Nuda	
Order Beroida	
Family Beroidae	
Beroe cucumis	*11*

PHYLUM PLATYHELMINTHES

	Region
Class Turbellaria	
Order Acoela	
Family Proporidae	
Childia fusca	*11*
Order Alloeocoela	
Family Monocelidae	
Monocelis sp.	*5,6,11*
Order Trichladida	
Family Procerodidae	
Foviella sp.	*11*
Foviella affinis	*5,11*
Procerodes littoralis	*5,9,11*
Family Bdellouridae	
Bdelloura sp.	*11*
Bdelloura candida	*5*
Order Polycladida	
Family Leptoplanidae	
Euplana gracilis	*11*
Notoplana atomata	*4,5,6,7,8,9,10,11*

PHYLUM RHYNCHOCOELA

Class Anopla	
Order Paleonemertea	
Family Carinomidae	
Carinoma tremaphoros	*11*
Family Cephalothricidae	
Procephalothrix spiralis	*7,11*
Order Heteronemertea	
Family Lineidae	
Cerebratulus sp.	*4,11*
Cerebratulus lacteus	*1,4,5,6,7,8,9,10,11*
Cerebratulus luridus	*10*
Cerebratulus marginatus	*4*
Lineus sp.	*4*
Lineus arenicola	*11*
Lineus bicolor	*5*
Lineus dubius	*10*
Lineus ruber	*4,5,6,7,8,9,11*
Lineus socialis	*10,11*
Micrura affinis	*4,11*
Micrura albida	*5,11*
Micrura leidyi	*9,10*
Parapolia aurantiacea	*11*
Class Enopla	
Order Hoplonemertea	
Suborder Monostylifera	
Family Prosorhochmidae	
Oerstedia dorsalis	*11*

	Region
Family Amphiporidae	
Amphiporus sp.	*4,9*
Amphiporus angulatus	*5,8,9,11*
Amphiporus bioculatus	*5,9*
Amphiporus caecus	*9*
Amphiporus cruentatus	*5*
Amphiporus griseus	*7*
Amphiporus groenlandicus	*7*
Amphiporus ochraceus	*9*
Amphiporus tetrasorus	*11*
Family Tetrastemmatidae	
Tetrastemma candidum	*5,9,11*
Tetrastemma vittatum	*5*

PHYLUM ASCHELMINTHES

Class Priapulida	
Halicryptus sinulosus	*10*
Priapulus caudatus	*5,9,11*

PHYLUM ENTOPROCTA

Family Pedicellinidae	
Pedicellina cernua	*5,11*

PHYLUM CHAETOGNATHA

Sagitta sp.	*9*

PHYLUM BRYOZOA

Class Gymnolaemata	
Order Ctenostomata	
Family Alcyonidiidae	
Alcyonidum polyoum	*5*
Family Flustrellidridae	
Flustrellidra sp.	*8,9*
Flustrellidra hispida	*7,8,9,11*
Family Vesicularidae	
Bowerbankia sp.	*8,9*
Bowerbankia gracilis	*5,11*
Bowerbankia imbricata	*11*
Vesicularia familiaris	*11*
Order Cyclostomata	
Family Crisiidae	
Crisia sp.	*5,9*
Crisia eburnea	*4,5,11*

	Region
Family Tubuliporidae	
Idmonea atlantica	11
Tubulipora flabellata	11
Tubulipora liliacea	5,9
Family Oncousoeciidae	
Oncousoecia diastoporides	11
Family Diaperoeciidae	
Diaperoecia harmeri	5
Family Lichenoporidae	
Lichenopora hispida	5,9,11
Lichenopora verrucaria	9
Order Cheilostomata	
Suborder Anasca	
Family Scrupariidae	
Eucratea loricata	5
Haplota sp.	5
Family Membraniporidae	
Membranipora sp.	5,8,9
Family Electridae	
Electra sp.	6,9
Electra monostachys	5
Electra pilosa	5,7,9,11
Family Calloporidae	
Callopora sp.	9
Callopora aurita	9
Tegella unicornis	7
Family Bugulidae	
Bugula sp.	4,8,9
Bugula simplex	5,9,11
Bugula turrita	5,9,11
Dendrobeania murrayana	9
Family Scrupocellariidae	
Caberea ellisii	5,9
Family Cribrilinidae	
Cribrilina punctata	5
Suborder Ascophora	
Family Hippothoidae	
Hippothoa sp.	5,9
Hippothoa hyalina	5,7,9,11
Family Gigantoporidae	
Cylindroporella tubulosa	11
Family Schizoporellidae	
Schizoporella sp.	9
Schizoporella unicornis	4,5,11
Family Microporellidae	
Microporella ciliata	9,11
Family Hippoporinidae	
Hippoporina sp.	5
Family Celleporinidae	
Turbicellepora canaliculata	9
Family Cheiloporinidae	
Cryptosula pallasiana	4,5,11

PHYLUM BRACHIOPODA

	Region
Class Articulata	
Order Terebratulida	
Family Cancellothyrididae	
Terebratulina septentrionalis	*4,5,7,9,10,11*

PHYLUM MOLLUSCA

Class Aplacophora	
Order Crystallophrissonoidea	
Family Crystallophrissonidae	
Crystallophrisson nitidulum	*5,10*
Class Polyplacophora	
Order Neoloricata	
Family Ischnochitonidae	
Ischnochiton alba	*5,7,8,9,11*
Ischnochiton ruber	*1,4,5,7,8,9,11*
Tonicella sp.	*11*
Tonicella marmorea	*7,8,9,10,11*
Family Chaetopleuridae	
Chaetopleura apiculata	*11*
Family Molpaliidae	
Amicula vestita	*5*
Class Gastropoda	
Subclass Prosobranchia	
Order Archaeogastropoda	
Family Fissurellidae	
Diodora cayenensis	*10*
Puncturella noachina	*5,8,9,10*
Family Acmaeidae	
Acmaea testudinalis	*1,2,4,5,6,7,8,9,10,11*
Family Trochidae	
Calliostoma occidentale	*9,10*
Margarites costalis	*9*
Margarites groenlandica	*8,9*
Margarites helicina	*5,8,9,10,11*
Moelleria costulata	*9*
Order Mesogastropoda	
Family Lacunidae	
Lacuna sp.	*11*
Lacuna pallidula	*9,10*
Lacuna vincta	*4,5,8,9,10,11*
Family Littorinidae	
Littorina sp.	*5,6,10,11*
Littorina irrorata	*4*
Littorina littorea	*1,2,3,4,5,6,7,8,9,10,11*
Littorina obtusata	*1,4,5,6,7,8,9,10,11*
Littorina saxatilus	*1,2,4,5,6,7,8,9,10,11*
Family Hydrobiidae	
Hydrobia sp.	*5,6,10*
Hydrobia minuta	*5,6,10,11*
Hydrobia salsa	*5*
Hydrobia totteni	*1,5,6,9*

	Region
Family Rissoidae	
Alvania arenaria	9
Alvania areolata	9
Alvania castanea	9
Cingula aculeus	5,9,11
Family Skeneopsidae	
Skeneopsis planorbis	6,9,10,11
Family Turritellidae	
Turritellopsis acicula	9
Family Epitoniidae	
Epitonium greenlandicum	9
Family Trichotropidae	
Trichotropis conica	9
Family Calyptraeidae	
Crepidula sp.	3
Crepidula convexa	2,5
Crepidula formicata	2,4,5,6,7,9,10,11
Crepidula plana	2,5,6,8,9,10,11
Crucibulum striatum	7,8,9
Family Aporrhaidae	
Aporrhais occidentalis	9,10,11
Family Naticidae	
Natica clausa	9,11
Polinices sp.	1,5,9,10,11
Polinices duplicatus	3,5,9,10
Polinices heros	1,4,5,6,7,9,10,11
Polinices triseriata	2,4,5,8,9,10,11
Family Lamellariidae	
Marsenina glabra	8,9
Velutina sp.	11
Velutina laevigata	5,9
Velutina undata	5,8,9
Order Neogastropoda	
Family Muricidae	
Boreotrophon clathratus	9
Thais (Nucella) lapillus	1,2,4,5,6,7,8,9,10,11
Urosalpinx cinerea	4,5,7,9,10
Family Columbellidae	
Mitrella dissimilis	9
Mitrella lunata	5,6
Family Buccinidae	
Buccinum undatum	1,2,3,4,5,6,7,8,9,10,11
Colus sp.	5
Colus pygmaeus	5,7,9,10,11
Colus stimpsoni	5,8,9,10,11
Neptunea decemcostata	5,7,8,9,10,11
Family Melongenidae	
Busycon canaliculatum	10
Family Nassariidae	
Nassarius sp.	5
Nassarius obsoletus	1,2,4,5,6,10,11
Nassarius trivittata	1,2,5,10
Nassarius vibex	11

	Region
Family Turridae	
Lora cancellata	4
Lora pleurotomaria	9
Lora scalaris	5
Lora turricula	9
Subclass Opisthobranchia	
Order Cephalaspidea	
Family Diaphanidae	
Diaphana minuta	5
Family Retusidae	
Acteocina (Retusa) canaliculata	5,10
Acteocina (Retusa) obtusata	5
Family Scaphandridae	
Cylichna alba	2,5,10
Cylichna occulta	3
Family Atyidae	
Haminoea solitaria	4,5
Order Sacoglossa	
Suborder Elysiacea	
Family Elysiidae	
Elysia chlorotica	5,11
Order Thecosomata	
Suborder Euthecosomata	
Family Spiratellidae	
Spiratella leseuri	10
Order Gymnosomata	
Family Clionidae	
Clione limacina	9
Order Nudibranchia	
Suborder Doridacea	
Family Okeniidae	
Ancula gibbosa	9
Family Lamellidorididae	
Acanthodoris pilosa	5,8,9,11
Onchidorus aspersa	5,7,8,9,10,11
Onchidorus diademata	5,11
Onchidorus fusca	4,5,7,9,11
Onchidorus grisea	7
Family Polyceridae	
Polycera dubia	5,9,11
Suborder Dendronotacea	
Family Dendronotidae	
Dendronotus sp.	4
Dendronotus frondosus	4,5,7,8,9,11
Dendronotus robustus	9
Family Dotonidae	
Doto coronata	5,9,11
Suborder Aeolidacea	
Family Coryphellidae	
Coryphella sp.	5,9
Coryphella pellucida	9,11
Coryphella rufibranchialis	4,8,9,11
Coryphella salmonacea	7,8,9

	Region
Family Eubranchidae	
Eubranchus exigua	9,11
Family Cuthonidae	
Cuthona concinna	9,11
Embletonia fuscata	11
Tergipes despectus	9,11
Family Aeolidiidae	
Aeolidia papillosa	4,5,7,8,9
Families of Uncertain Status	
Family Pyramidellidae	
Odostomia sp.	5
Odostomia bisuturalis	5
Odostomia gibbosa	10
Odostomia trifida	5
Pyramidella fusca	5,10
Turbonilla bushiana	9
Turbonilla interrupta	5
Subclass Pulmonata	
Order Basommatophora	
Family Ellobiidae	
Melampus bidentatus	5,6
Ovatella myosotis	5,10,11
Class Scaphopoda	
Family Dentaliidae	
Dentalium sp.	3
Dentalium entale	5,10
Class Bivalvia	
Subclass Prionodesmata	
Order Protobranchia	
Family Nuculidae	
Nucula sp.	2,3,5,11
Nucula annulata	5
Nucula delphinodonta	3,5,10
Nucula proxima	1,2,3,4,5,7,9,10
Nucula tenuis	1,2,5
Family Nuculanidae	
Nuculana pernula	5,10
Nuculana tenuisulcata	2,5,11
Yoldia sp.	10
Yoldia inflata	2
Yoldia limatula	1,5,9,10
Yoldia myalis	5
Yoldia sapotilla	2,5,10
Yoldia thraciaeformis	1,3,5,10
Subclass Pteriomorphia	
Order Prionodontida	
Family Arcidae	
Anadara transversa	10

	Region
Order Pteroconchida	
Family Mytilidae	
Crenella decussata	*5,10*
Crenella faba	*10*
Crenella glandula	*2,5,9*
Modiolus demissus	*1,2,4,5,9,10,11*
Modiolus modiolus	*1,3,4,5,6,7,8,9,10,11*
Musculus sp.	*11*
Musculus discors	*8,9*
Musculus niger	*9*
Mytilus edulis	*1,2,3,4,5,6,7,8,9,10,11*
Family Ostreidae	
Crassostrea virginica	*5,11*
Ostrea edulis	*5*
Family Pectinidae	
Chlamys islandicus	*5,9*
Placopecten magellanicus	*1,3,4,5,9,10,11*
Family Anomiidae	
Anomia aculeata	*3,5,8,9,11*
Anomia simplex	*1,5,7,8,9,10,11*
Subclass Teleodesmata	
Order Heterodontida	
Family Astartidae	
Astarte sp.	*5*
Astarte borealis	*1,3,8,9,10*
Astarte castanea	*5,8,9*
Astarte elliptica	*9*
Astarte striata	*2*
Astarte subaequilatera	*3,5,9*
Astarte undata	*2,3,5,9,10,11*
Family Carditidae	
Cardita borealis	*1,2,3,5,9,10*
Family Arcticidae	
Arctica islandica	*2,3,5,6,9,10,11*
Family Leptonidae	
Kellia suborbicularis	*2*
Family Montacutidae	
Montacuta sp.	*10*
Mysella sp.	*10*
Family Turtoniidae	
Turtonia sp.	*10*
Family Lucinidae	
Lucinoma sp.	*10*
Family Thyasiridae	
Thyasira sp.	*2,5,9*
Thyasira gouldii	*2,5,10*
Thyasira insignis	*10*
Family Ungulinidae	
Diplodonta verrilli	*2*
Family Cardiidae	
Cerastoderma sp.	*11*
Cerastoderma pinnulatum	*1,2,3,5,7,9,10,11*
Clinocardium ciliatum	*5,9*

	Region
Family Veneridae	
Gemma gemma	*1,4,5,6,9,10*
Mercenaria mercenaria	*3,4,5,6,10,11*
Pitar morrhuana	*3,5,10*
Family Petricolidae	
Petricola pholadiformis	*4,5,6*
Family Mactridae	
Mulinia lateralis	*5,6*
Spisula polynyma	*1*
Spisula solidissima	*1,5,6,10,11*
Family Mesodesmatidae	
Mesodesma arctatum	*1,11*
Mesodesma deaurata	*10*
Family Tellinidae	
Macoma sp.	*4*
Macoma balthica	*1,4,5,6,7,9,10,11*
Macoma calcarea	*10*
Macoma tenta	*1*
Tellina agilis	*1,4,5,6,10*
Family Solenidae	
Ensis directus	*4,5,6,8,10,11*
Siliqua costata	*5*
Family Myidae	
Mya arenaria	*1,2,3,4,5,6,7,8,9,10,11*
Mya truncata	*5,9,10*
Family Hiatellidae	
Hiatella sp.	*5*
Hiatella arctica	*1,4,5,7,8,9,11*
Hiatella striata	*2,5,9*
Family Pholadidae	
Zirfaea crispata	*3,5,9*
Family Teredinidae	
Teredo navalis	*5,11*
Subclass Anomalodesmata	
Order Eudesmodontida	
Family Pandoridae	
Pandora glacialis	*2,5*
Pandora gouldiana	*5,6*
Family Lyonsiidae	
Lyonsia arenosa	*2,5*
Lyonsia hyalina	*1,5,9*
Family Periplomatidae	
Periploma fragilis	*1,2,5*
Periploma papyratium	*5,10*
Family Thraciidae	
Thracia conradi	*5,10*
Thracia myopsis	*5,10*
Order Septibranchida	
Family Cuspidariidae	
Cuspidaria sp.	*2,10*

	Region
Class Cephalopoda	
Subclass Coleoidae	
Order Teuthidida	
Family Ommastrephidae	
Illex illecebrosus	*4,9,11*
Family Loliginidae	
Loligo pealei	*4,5*
Order Octopodida	
Family Octopodidae	
Bathypolypus arcticus	*7,11*

PHYLUM ANNELIDA

Class Polychaeta	
Order Archiannelida	
Family Dinophilidae	
Dinophilus sp.	*5,11*
Order Phyllodocida	
Family Phyllodocidae	
Eteone sp.	*1,5,7,10*
Eteone flava	*5*
Eteone heteropoda	*1,5,9*
Eteone lactea	*1,5,6,10,11*
Eteone longa	*1,2,5,7,8,10,11*
Eteone trilineata	*2,5*
Eulalia bilineata	*1*
Eulalia viridis	*4,5,9,11*
Eumida maculosa	*10*
Eumida sanguinea	*5*
Mystides borealis	*9*
Paranaitis speciosa	*1,11*
Phyllodoce sp.	*5*
Phyllodoce arenae	*1,5*
Phyllodoce groenlandica	*1,4,5,7,9,10*
Phyllodoce maculata	*1,2,4,5,8,10,11*
Phyllodoce mucosa	*2,4,5,10,11*
Family Tomopteridae	
Tomopteris helgolandica	*9*
Family Aphroditidae	
Aphrodita hastata	*3,11*
Family Polynoidae	
Antinoella sarsi	*2*
Gattyana sp.	*5*
Gattyana cirrosa	*2,4,5,8,9*
Harmothoe sp.	*1,4,5*
Harmothoe acanellae	*11*
Harmothoe extenuata	*1,2,5,10,11*
Harmothoe imbricata	*1,4,5,7,8,9,10,11*
Harmothoe nodosa	*2,4,5*
Harmothoe oerstedi	*10,11*

	Region
Harmothoe spinulosa	2
Hartmania moorei	2,5
Lepidametria commensalis	9,11
Lepidonotus sp.	4,5,6
Lepidonotus squamatus	1,2,4,5,7,8,9,10,11
Lepidonotus sublevis	5
Family Sigalionidae	
Pholoe minuta	1,2,4,5,10
Sthenelais limicola	5,11
Family Chrysopetalidae	
Dysponetus pygmaeus	5,9
Family Glyceridae	
Glycera sp.	10
Glycera americana	4,5,6,11
Glycera capitata	1,2,5,10
Glycera dibranchiata	1,2,4,5,6,7,9,10
Glycera robusta	5,10
Family Goniadidae	
Goniada maculata	1,5,10
Goniada norvegica	3
Family Sphaerodoridae	
Ephesiella minuta	5,9
Family Nephtyidae	
Aglaophamus sp.	1,5
Aglaophamus circinata	5
Aglaophamus verrilli	10
Nephtys sp.	4,5,6,10,11
Nephtys bucera	1,5,6,7,9,10,11
Nephtys caeca	1,2,4,5,7,8,9,10,11
Nephtys ciliata	2,4,5,6,8,9,10
Nephtys discors	2,5,8,10
Nephtys incisa	1,2,3,4,5,9,10,11
Nephtys longosetosa	5,10
Nephtys paradoxa	9
Nephtys picta	1,10
Family Syllidae	
Amblyosyllis finmarchica	5,9
Autolytus sp.	5,10,11
Autolytus alexandri	5
Autolytus cornutus	5,11
Autolytus fasciatus	5
Autolytus prismaticus	5,8,11
Autolytus prolifer	5
Brania clavata	5
Eusyllis blomstrandi	5,9
Exogone sp.	1
Exogone dispar	5,10
Exogone hebes	5
Exogone verugera	5
Parapionosyllis sp.	10
Prionosyllis sp.	5

	Region
Streptosyllis varians	9
Syllis cornuta	2,5,9
Syllis gracilis	2
Family Hesionidae	
Gyptis vittata	9
Microphthalmus sp.	5
Microphthalmus aberrans	5,9
Mictophthalmus sczelkowii	5
Family Pilargidae	
Ancistrosyllis groenlandica	5
Family Nereidae	
Nereis sp.	1,4,5,6,10,11
Nereis arenaceodentata	1,5,10
Nereis diversicolor	1,2,5,6,9,10
Nereis grayi	2,5
Nereis pelagica	1,2,4,5,8,9,10,11
Nereis succinea	5,6,10,11
Nereis virens	1,2,4,5,6,7,8,9,10,11
Platynereis megalops	1
Order Capitellida	
Family Capitellidae	
Capitella capitata	1,2,5,10
Heteromastus sp.	4
Heteromastus filiformis	1,3,5,6,7,10
Notomastus sp.	10
Notomastus elongata	10
Notomastus latericeus	9
Notomastus luridus	1
Family Arenicolidae	
Arenicola marina	4,5,7,8,9,11
Family Scalibregmidae	
Polyphysia crassa	2,5
Scalibregma inflatum	2,5,10
Family Maldanidae	
Asychis sp.	1
Asychis capensis	5
Clymenella sp.	5,10
Clymenella collaris	10
Clymenella torquata	1,2,4,5,6,7,8,9,10,11
Clymenella zonalis	1,5,9,10
Maldane sarsi	1,5,10
Maldanopsis elongata	1,2,4,5,6,10
Nicomache sp.	1
Nicomache lumbricalis	10
Praxillella sp.	5
Praxillella gracilis	5,10
Praxillella praetermissa	5
Praxillella ornata	5
Rhodine sp.	5
Rhodine attenuata	2,10
Rhodine loveni	5

	Region
Family Opheliidae	
Ammotrypane aulogaster	1,2,5,9
Ammotrypane fimbriata	11
Order Sternaspida	
Family Sternaspidae	
Sternaspis sp.	3,5
Sternaspis fossor	1,2,5,10
Sternaspis scutata	5,10,11
Order Spionida	
Family Spionidae	
Dispio ucinata	10
Laonice cirrata	2,5,10
Polydora sp.	1,5,10
Polydora aggregata	4,5
Polydora caulleryi	1,5
*Polydora ciliata**	1,4,5,6,9,10
Polydora commensalis	5
Polydora concharum	5
Polydora gracilis	10
*Polydora ligni**	1,4,5,9,10
Polydora quadrilobata	4,5,9
Polydora socialis	5,10
Polydora websteri	4,5
Prionospio sp.	5,10,11
Prionospio ehlersi	10
Prionospio malmgreni	1,5
Prionospio plumosa	10
Prionospio steenstrupi	1,5,10
Pygospio elegans	1,5,9
Scolecolepis viridis	1,5,9,10,11
Scolelepis squamata	2,5,9
Spio sp.	10
Spio filicornis	5,10
Spio pettiboneae	10
Spio setosa	1,5,6,7,9,10,11
Spiophanes sp.	2
Spiophanes bombyx	5,6,10
Streblospio benedicti	1,5,10
Family Paraonidae	
Aricidea sp.	5
Aricidea jeffreysii	1,5,10
Aricidea quadrilobata	5,10
Aricidea suecica	5,10
Paraonis sp.	10
Paraonis fulgens	1,5,6
Paraonis gracilis	5,10
Paraonis lyra	10

*Rasmussen (1973) equates *Polydora ligni* Webster to *P. ciliata* (Johnston).

	Region
Family Apistobranchidae	
Apistobranchus tullbergi	1,5
Family Chaetopteridae	
Chaetopterus sp.	2
Order Eunicida	
Family Eunicidae	
Eunice pennata	9,10
Marphysa sanguinea	10
Family Lumbrinereidae	
Lumbrineris sp.	5
Lumbrineris brevipes	1,3,5,10
Lumbrineris coccinea	2
Lumbrineris latreilli	2,10
Lumbrineris fragilis	1,2,5,9,10
Lumbrineris tenuis	1,2,5,6,9,10
Ninoe nigripes	1,2,3,5,9,10
Family Arabellidae	
Arabella iricolor	1,5,6,9
Drilonereis sp.	3
Drilonereis longa	3,10
Drilonereis magna	9,10
Family Dorvilleidae	
Stauronereis caecus	5
Stauronereis rudolphi	5
Order Amphinomida	
Family Euphrosinidae	
Euphrosine armadillo	5
Order Ariciida	
Family Orbiniidae	
Naineris quadricuspida	2,5,9,10,11
Orbinia sp.	2
Orbinia ornata	11
Orbinia swani	11
Scoloplos sp.	5,6
Scoloplos acutus	1,2,5,9,10,11
Scoloplos armiger	2,5,10
Scoloplos fragilis	5,6,9,10,11
Scoloplos riseri	10
Scoloplos robustus	1,2,5,9,10
Order Cirratulida	
Family Cirratulidae	
Caulleriella sp.	5
Chaetozone setosa	2
Cirratulus sp.	5
Cirratulus cirratus	5,10,11
Cirratulus grandis	1,11
Cossura sp.	1,5
Cossura longocirrata	1,10
Dodecaceria concharum	10
Tharyx sp.	5,10
Tharyx acutus	9,10,11

	Region
Order Oweniida	
Family Oweniidae	
Myriochele sp.	3
Myriochele heeri	2,5,10
Owenia sp.	10
Owenia fusiformis	5,10
Order Terebellida	
Family Pectinariidae	
Pectinaria sp.	1,5
Pectinaria gouldii	1,2,5,9,10,11
Pectinaria granulata	1,5,9
Pectinaria hyperborea	1,5
Family Ampharetidae	
Ampharete sp.	1,2,3,5
Ampharete acutifrons	1,2,5,10
Amphicteis extenuata	1
Amphicteis gunneri	1,10
Anobothrus gracilis	1,2,5
Asabellides sp.	5
Asabellides oculata	1,10
Hypaniola grayi	1,5
Melinna cristata	3
Melinna elisabethae	5
Sabellides sp.	5
Sabellides octocirrata	10
Samythella elongata	10,11
Samythella sexcirrata	10
Family Terebellidae	
Amphitrite sp.	4,5,11
Amphitrite affinis	9
Amphitrite brunnea	4,6,9
Amphitrite cirrata	8,9
Amphitrite johnstoni	5,7,8,9,11
Amphitrite ornata	7,8,9,11
Enoplobranchus sanguineus	11
Nicolea venustula	5,10,11
Pista maculata	10
Pista palmata	11
Polycirrus sp.	5,7,10
Polycirrus eximius	5,7,9
Polycirrus medusa	5
Terebellides stroemi	1,2,3,5,10
Thelepus cincinnatus	1,5,9,11
Trichobranchus sp.	5
Trichobranchus glacialis	2,3,5,10
Order Flabelligerida	
Family Flabelligeridae	
Brada granosa	9
Brada setosa	9
Brada villosa	5

	Region
Diplocirrus hirsutus	*1,2,5,10*
Flabelligera affinis	*5*
Pherusa sp.	*6*
Pherusa affinis	*1,5,7,9,10*
Pherusa arenosa	*5*
Pherusa plumosa	*1,5,11*
Order Sabellida	
Family Sabellidae	
Euchone elegans	*10*
Euchone rubrocincta	*5*
Fabricia sabella	*5,7,9,11*
Myxicola infundibulum	*3,5,8,9,11*
Potamilla neglecta	*1,2,5,10,11*
Potamilla reniformis	*5,7,9,10,11*
Sabella crassicornis	*5,9,11*
Sabella microphthalma	*10*
Family Serpulidae	
Filograna implexa	*9*
Hydroides sp.	*11*
Hydroides dianthus	*5,9*
Spirorbis sp.	*6,7,8,9,10,11*
Spirorbis borealis	*4,5,6,7,8,9,11*
Spirorbis spirillum	*7,9,11*
Family Unknown	
Amphiglena c.f. mediterranea	*10*
Intertoe sedis #1 & #2	*10*
Laoname kroyeri	*10*
Malacoceros sp.	*10*
Manayunkia sp.	*1,5*
Therochaeta sp.	*5*
Class Oligochaeta	*1,4,5,10*
Order Plesiopora	
Family Naididae	*1*
Family Enchytraeidae	
Enchytraeus albidus	*9*
Family Tubificidae	
Clitellio arenarius	*4,5,6,7,8,9,11*
Class Hirudinea	
Order Rhynchobdellae	
Family Piscicolidae	
Piscicola rapax	*5,11*
Platybdella sp.	*1*
Trachelobdella sp.	*5*

PHYLUM SIPUNCULA

Golfingia minuta	*5,11*
Golfingia procera	*10*
Phascolion strombi	*5,10*
Phascolopsis gouldii	*9,11*

PHYLUM ARTHROPODA

	Region
Subphylum Pycnogonida	
Class Pantopoda	
Family Nymphonidae	
Nymphon sp.	*1,5*
Nymphon grossipes	*5*
Family Ammotheidae	
Achelia spinosa	*5*
Family Tanystylidae	
Tanystylum orbiculare	*9,11*
Family Phoxichilidiidae	
Anoplodactylus lentus	*9,11*
Phoxichilidium sp.	*9*
Phoxichilidium femoratum	*5,9,11*
Family Pycnogonidae	
Pycnogonum littorale	*7,9*
Family Pallenidae	
Callipallene brevirostris	*5*
Subphylum Chelicerata	
Class Merostomata	
Order Xiphosurida	
Family Limulidae	
Limulus polyphemus	*3,4,5,6*
Subphylum Mandibulata	
Class Crustacea	
Subclass Ostracoda	
Order Myodocopida	
Sarsiella zostericola	*5*
Subclass Cirripedia	
Order Thoracica	
Suborder Lepadomorpha	
Family Lepadidae	
Lepas sp.	*5*
Lepas anatifera	*9*
Suborder Balanomorpha	
Family Balanidae	
Balanus sp.	*1,4,5,6*
Balanus amphitrite	*7*
Balanus balanoides	*1,4,5,6,7,8,9,10,11*
Balanus balanus	*4,5,7,8,9,11*
Balanus crenatus	*4,5,10,11*
Balanus eburneus	*7,11*
Balanus hameri	*5,6*
Balanus improvisus	*1,5,7*
Subclass Malacostraca	
Series Leptostraca	
Superorder Phyllocarida	
Order Nebaliacea	
Nebalia bipes	*11*
Series Eumalacostraca	
Superorder Peracarida	

	Region
Order Cumacea	
Family Bodotriidae	
Cyclaspis varians	5
Mancocuma stellifera	6,9,11
Leptocuma minor	5
Family Leuconidae	
Eudorella sp.	5
Eudorella emarginata	5,10
Eudorella hispida	5
Eudorella truncatula	5,10
Eudorellopsis deformis	5
Leucon americanus	5
Family Diastylidae	
Diastylis sp.	1,5
Diastylis polita	5
Diastylis quadrispinosa	1,5,10,11
Diastylis sculpta	5,10
Leptostylis ampullacea	10
Oxyurostylis smithi	5
Order Tanaidacea	
Family Paratanaidae	
Leptochelia sp.	10
Leptochelia rapax	5
Leptochelia savignyi	5
Order Isopoda	
Suborder Gnathiidea	
Family Gnathiidae	
Gnathia sp.	1
Suborder Anthuridea	
Family Anthuridae	
Cyathüra sp.	5,11
Cyathura polita	1,5,10
Suborder Flabellifera	
Family Cirolanidae	
Cirolana concharum	5,9
Family Limnoridae	
Limnoria lignorum	5,11
Suborder Valvifera	
Family Idoteidae	
Chiridotea coeca	6,9
Chiridotea tuftsi	5
Edotea sp.	1,9
Edotea montosa	10
Edotea triloba	1,5,7,9,10,11
Erichsonella attenuata	10
Idotea sp.	5,6,10,11
Idotea baltica	1,4,5,8,9,10,11
Idotea phosphorea	1,4,5,9,10,11
Suborder *Asellota*	
Family Janiridae	
*Jaera marina**	1,4,5,6,7,9,10,11

*Includes at least three component species in Maine: *Jaera albifrons*, *J. ischiosetosa* and *J. praehirsuta*.

	Region
Suborder Onoscoidea	
Family Oniscidae	
Philoscia vittata	5
Family Ligididae	
Ligia oceanica	11
Order Amphipoda	
Suborder Hyperiidea	
Family Hyperiidae	
Hyperia galba	4
Parathemisto compressa	9
Suborder Gammaridea	
Family Ampeliscidae	
Ampelisca sp.	1,5,10
Ampelisca abdita	1,4,10
Ampelisca aequicornis	5
Ampelisca agassizi	5
Ampelisca declivitatus	10
Ampelisca macrocephala	1,5,10
*Ampelisca spinipes**	1,5
Ampelisca vadorum	5
Byblis sp.	5
Byblis serrata	5,10
Haploops spinosa	1
Haploops tubicola	10
Family Ampithoidae	
Ampithoe sp.	1
Ampithoe longimana	11
Ampithoe rubricata	1,5,9,10
Ampithoe valida	5
Cymadusa compta	1
Family Argissidae	
Argissa sp.	2
Argissa typica	5
Family Calliopidae	
Calliopius laeviusculus	1,5,7,9
Family Corophiidae	
Corophium sp.	1,5,9,10
Corophium acherusicum	5
Corophium bonelli	5
Corophium crassicorne	1,5,10
Corophium insidiosum	1,10
Corophium lacustre	1,5
Corophium volutator	1,5,7,9,10,11
Erichthonius rubricornis	5,10
Unciola sp.	5
Family Gammaridae	
Casco bigelowi	5,10
Gammarus sp.	1,4,5,6,7,8,9,11

**Ampelisca spinipes*= *A. abdita* and *A. vadorum*.

	Region
Gammarus annulatus	*5,7,11*
Gammarus lawrencianus	*1,10*
*Gammarus locusta**	*1,4,5,7,10,11*
Gammarus mucronatus	*5*
Gammarus oceanicus	*1,4,5,7,8,9,10,11*
Gammarus palustris	*11*
Gammarus setosus	*8*
Gammarus tigrinus	*5*
Marinogammarus sp.	*9*
Marinogammarus finmarchicus	*4*
Marinogammarus obtusatus	*4*
Melita sp.	*5*
Melita dentata	*1,5,10*
Melita nitida	*5*
Family Haustoriidae	
Haustorius sp.	*5,10*
Pontoporeia femorata	*1,5*
Family Hyalidae	
Allorchestes littoralis	*1*
Hyale sp.	*5*
Hyale prevostii	*5,11*
Family Ischyroceridae	
Jassa sp.	*5,9,10*
Jassa falcata	*1,5*
Family Lysianassidae	
Anonyx compactus	*10*
Anonyx lilljeborgi	*5*
Anonyx nugax	*1,9*
Hippomedon propinguus	*10*
Lysianopsis alba	*1*
Orchomonella sp.	*1*
Orchomonella minuta	*5*
Orchomonella pinguis	*5,11*
Tryphosa pinguis	*1*
Family Oedicerotidae	
Monoculodes sp.	*1,5*
Monoculodes intermedius	*5*
Family Paramphithoidae	
Paramphithoe sp.	*5*
Family Photidae	
Leptocheirus pinguis	*1,5,9,10*
Photis sp.	*9,10*
Photis macrocoxa	*10*
Photis reinhardi	*10*
Podoceropsis sp.	*2*
Family Phoxocephalidae	
Harpinia sp.	*5*
Harpinia propinqua	*5,10*
Paraphoxus spinosus	*1*
Phoxocephalus sp.	*1*
Phoxocephalus holbolli	*1,5,10*

*Bousfield reports *G. locusta* as being "European exclusively."

	Region
Family Pleustidae	
Stenopleustes inermis	*10*
Family Podoceridae	
Dulichia sp.	*5*
Dulichia monacantha	*10*
Dulichia porrecta	*1*
Paradulichia typica	*5*
Family Pontogeneiidae	
Pontogeneia inermis	*5*
Family Stegocephalidae	
Stegocephalus inflatus	*1*
Family Stenothoidae	
Stenothoe sp.	*5*
Family Talitridae	
Orchestia sp.	*6,10*
Orchestia gammarella	*7*
Orchestia grillus	*5*
Orchestia platensis	*1,4,5,7*
Orchestia uhleri	*11*
Talorchestia longicornis	*1,4*
Family Tironidae	
Syrrhoe crenulata	*10*
Suborder Caprellidea	
Family Caprellidae	
Aeginella longicornis	*4,5,9,10*
Caprella sp.	*5,9*
Caprella linearis	*5,7,8,11*
Caprella penantis	*5,9*
Caprella septentrionalis	*9,11*
Mayerella limicola	*10*
Order Mysidacea	
Family Mysidae	
Erythrops erythropthalma	*1*
Meterythrops robustus	*1,5,10*
Mysis gaspensis	*4,9*
Mysis mixta	*9*
Mysis stenolepis	*1,4,5,9,10,11*
Neomysis americana	*1,5,10*
Praunus flexuosus	*1,4,5,9,11*
Superorder Eucarida	
Order Euphausiacea	
Family Euphausiidae	
Meganyctiphanes norvegica	*11*
Order Decapoda	
Infraorder Caridea	
Family Palaemonidae	
Palaemonetes pugio	*6,9,10*
Palaemonetes vulgaris	*9*

	Region
Family Hippolytidae	
Eualus fabricii	5,9,11
Eualus gaimardii	5
Eualus pusiolus	5,7,11
Lebbeus groenlandicus	5,9,11
Lebbeus polaris	9
Spirontocaris spinus	5
Family Pandalidae	
Pandalus borealis	5,10,11
Pandalus montagui	5,9,10,11
Family Crangonidae	
Crangon sp.	6
Crangon septemspinosa	1,4,5,6,7,9,10,11
Sclerocrangon boreas	8,9
Infraorder Astacidea	
Family Nephropsidae	
Homarus americanus	1,2,3,4,5,6,7,8,9,10,11
Infraorder Anomura	
Superfamily Paguroidea	
Family Paguridae	
Pagurus sp.	4,6,11
Pagurus acadianus	1,4,5,8,9,11
Pagurus longicarpus	5,7,9,10,11
Pagurus pollicaris	1,7
Pagurus pubescens	4,5,9,11
Family Lithodidae	
Lithodes maia	5,11
Infraorder Brachyura	
Section Oxyrhyncha	
Family Majidae	
Hyas sp.	3
Hyas araneus	4,5,9
Hyas coarctatus	7,8,9
Libinia sp.	7
Libinia dubia	9,11
Libinia emarginata	8,9
Section Cancridea	
Family Cancridae	
Cancer sp.	1,6,10
Cancer borealis	4,5,6,8,9,10,11
Cancer irroratus	1,4,5,6,7,8,9,10,11
Section Brachyrhyncha	
Family Portunidae	
Carcinus maenas	1,4,5,6,7,8,9,10,11
Family Xanthidae	
Neopanope sayi	5
Rhithropanopeus harrisii	5,11
Family Geryonidae	
Geryon quinquedens	11

	Region
Class Insecta	
Subclass Apterygota	
Order Collembola	
Anurida maritima	*6,10,11*

PHYLUM ECHINODERMATA

Class Holothuroidea	
Order Dendrochirotida	
Family Psolidae	
Psolus fabricii	*4,5,9,11*
Psolus phantapus	*8,9*
Psolus valvatus	*10*
Family Phyllophoridae	
Havelockia scabra	*5*
Pentamera calcigera	*1*
Family Cucumariidae	
Cucumaria sp.	*11*
Cucumaria frondosa	*4,5,7,8,9,11*
Order Apodida	
Family Synaptidae	
Leptosynapta sp.	*4*
Leptosynapta roseola	*9*
Family Chiridotidae	
Chiridota laevis	*4,5,7,8,9*
Order Molpadiida	
Family Caudinidae	
Caudina arenata	*5,11*
Class Echinoidea	
Order Echinoida	
Family Strongylocentrotidae	
Strongylocentrotus droebachiensis	*1,3,4,5,6,7,8,9,10,11*
Order Clypeasteroida	
Family Echinarachnidae	
Echinarachnius parma	*1,4,5,6,7,8,9,10,11*
Class Stelleroidea	
Subclass Asteroidea	
Order Paxillosida	
Family Goniopectinidae	
Ctenodiscus crispatus	*3,5,10,11*
Order Valvatida	
Family Goniasteridae	
Hippasteria phrygiana	*8,9,11*
Order Spinulosida	
Family Solasteridae	
Solaster endeca	*4,5,8,9,10,11*
Solaster papposus	*5,8,9,11*
Family Pterasteridae	
Pteraster militaris	*9*

	Region
Family Echinasteridae	
Henricia spp. (sanguinolenta)	*3,4,5,6,7,8,9,11*
Order Forcipulatida	
Family Asteriidae	
Asterias sp.	*1,3,6,10,11*
Asterias forbesii	*1,4,5,6,8,9,10,11*
Asterias vulgaris	*1,3,4,5,6,7,8,9,10,11*
Leptasterias sp.	*7*
Leptasterias littoralis	*8,9*
Leptasterias mulleri	*9,11*
Lepasterias tenera	*8,9,11*
Subclass Ophiuroidea	
Order Phrynophiurida	
Family Gorgonocephalida	
Gorgonocephalus arcticus	*5,8,9*
Order Ophiurida	
Family Ophiuridae	
Ophiura sp.	*5*
Ophiura robusta	*5,11*
Ophiura sarsi	*5,11*
Family Ophiacanthidae	
Ophiomitrella clavigera	*10*
Family Ophiactidae	
Ophiopholis sp.	*6,7*
Ophiopholis aculeata	*1,4,5,8,9,10,11*
Family Amphiuridae	
Amphipholis squamata	*1,3,5,7,8,9,10,11*
PHYLUM HEMICHORDATA	
Class Enteropneusta	
Family Harrimaniidae	
Saccoglossus kowalewskii	*5,7,9,11*
Stereobalanus canadensis	*5*
PHYLUM CHORDATA	
Class Ascidiacea	
Order Enterogona	
Suborder Aplousobranchia	
Family Polyclinidae	
Amaroucium sp.	*1,5,8,9*
Amaroucium glabrum	*4,7*
Amaroucium pellucidum	*5*
Amaroucium stellatum	*5,9*
Family Didemnidae	
Didemnum albidum	*4,5,8,9,11*
Didemnum candidum	*9*
Suborder Phlebobranchia	
Family Cionidae	
Ciona intestinalis	*8,9,10*

	Region
Family Ascidiidae	
Ascidia callosa	4
Order Pleurogona	
Suborder Stolidobranchiata	
Family Styelidae	
Botryllus schlosseri	5,9,11
Dendrodoa carnea	3,4,5,9,11
Styela partita	4,9
Family Pyuridae	
Boltenia echinata	4,5,8,9,11
Boltenia ovifera	4,5,7,8,9,10,11
Halocynthia pyriformis	3,4,5,8,9,10
Family Molgulidae	
Bostrichobranchus pilularis	5,10
Molgula sp.	5,8,9
Molgula arenata	4,9
Molgula manhattensis	4,5,9,11
Molgula retortiformis	4
Molgula siphonalis	4

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