

17
National Research Council
of Canada

2
A Check List of the Marine Fauna and Flora
of the
Canadian Pacific Coast

Prepared by

H. A. Clements

Director, Pacific Biological Station, Nanaimo, B.C.,
and Chairman, Sub-committee on Marine Biology of the
Associate Committee on Oceanography,
National Research Council of Canada.

3
Ottawa
November, 1933.

**National Research Council
of Canada**

**A Check List of the Marine Fauna and Flora
of the
Canadian Pacific Coast**

Prepared by

M. A. Clemens

**Director, Pacific Biological Station, Nanaimo, B.C.,
and Chairman, Sub-committee on Marine Biology of the
Associate Committee on Oceanography,
National Research Council of Canada.**

Ottawa

November, 1933.

INTRODUCTION

A knowledge of the fauna and flora of an area must form the basis of all lines of biological investigation, particularly in the fields of ecology, distribution, foods of organisms, food cycles and productivity. This is as true of the ocean as of the land. In oceanography, in the inclusive understanding of the term as embracing the physics, chemistry and biology of the ocean, the systematic collection and identification of the organisms inhabiting the sea must occupy a fundamental place. From the time of the establishment of the Pacific Biological Station in 1908 up to the present time, a great deal of effort has been expended in an attempt to obtain a comprehensive picture of the great variety of forms which constitute the marine fauna and flora of the Canadian Pacific coast. As a result of the labours of numerous workers, systematic papers have appeared in many journals and there has been a need to have brought together in compact form for the research workers, not only in Canada but in all parts of the world, the names of the plants and animals which have been collected and identified. The present check list is an attempt to meet this need.

It is obvious that this first check list must be somewhat incomplete in that certain groups have not been dealt with and those studied have received varying degrees of thoroughness in treatment. Moreover, in preparing the check list, undoubtedly there have been omissions and errors. However, it is hoped that the list will prove on the one hand a handy and useful reference and serve on the other hand as a basis for future endeavours by indicating the gaps in the record. There has been included a list of references to the publications upon which this check list is based. In a very few instances there are recorded in this list names of organisms which have been collected in the waters of the coast of British Columbia and authentically identified but which have not yet been listed in scientific journals.

It is a pleasure to acknowledge the assistance which has been given by many persons, in particular by Mrs. E. Berkeley, Dr. H.L. Clark, Dr. E. Deichmann, Mr. H. Fasmer, Dr. C. MacLean Fraser, Dr. W.K. Fisher, Miss J.F.L. Hart, Mr. J.A. Munro, Mr. W.A. Newcombe, Mr. G.H. Wailes and Mr. G.V. Wilby.

Phylum - PROTOZOA

Class - SARCODINA

Subclass - RHIZOPODA

Order - LOBOSA

Suborder - AMOEBAEA

Family - MAYORELLIDAE

Striatus tardus Schaeffer Vexillifera vacillans
Wailes

Family - CAIDAE

Trichamoeba gumia Schaeffer Metachaos fulvum
Schaeffer

Suborder - CONCHULINA

Family - EUGLYPHIDAE

Euglypha ciliata (Ehrenberg) Cyphoderia ampulla var.
vitreae
Wailes

Euglypha laevis (Ehrenberg) Cyphoderia ampulla var.
laevis
Penard

Cyphoderia ampulla (Ehrenberg)

Order - RETICULOSA

Suborder - FORMANINIFERA

Family - RHABDAMMINIDAE

Allogromia ovoidea Rhumbler

Order - HELIOZOA

Suborder - APHROTHORACIDEA

Actinophrys sol Ehrenberg Microsol borealis
(Mereschkowsky)

Actinolophus pedunculatus Schulze

Suborder - CHALAROTHRACIDEA

Wagnerella borealis Mereschkowsky Acanthocystis aculeata
Hertwig &
Lesser

Heterophrys marina Hertwig & Lesser Acanthocystis brevicir-
his
(Perty)

Acanthocystis pelagica Cstenfeldt Acanthocystis spinifera
Greeff

Order - RADIOLARIA

Suborder - SPUMELLARIA

Family - LIOSPHAERIDAE

Genosphaera proserpinae Haeckel Genosphaera polygonalis
Haeckel

Family - CUBOSPHERIDAE
Hexastylus triaxonius Haeckel

Family - ASTROSPHERIDAE
Rhizoplegma boreale (Cleve)

Suborder - ACANTHARIA
Family - ASTROLONCHIDAE
Acanthometron pellucidum
(Müller)

Suborder - NASSELLARIA
Family - PLECTANIDAE
Plectacantha oikiskos Phormacantha hystrix
Joergensen (Joergensen)

Family - TRIPOCYRTIDAE
Lithomelissa setosa Joergensen Dichtyophimus histricosus
(Joergensen)

Suborder - PHAEODARIA
Family - CHALLENGERIDAE
Challengeron depauperatum Protocystis aurita Wallich
Wailes
Protocystis tridens (Haeckel)

Class - MASTIGOPHORA

Subclass - ZOOMASTIGINA

Order - PROTOMONADIDA

Family - CICOMONADIDAE

Oodonoeca costata Clark Codonoeca gracilis Galkins

Family - BICOSOECIDAE

Bicosoeca pocillum Kent Bicosoeca gracillipes Clark

Family - GRASPEDOMONADIDAE

Monosiga ovata Kent Salpingoeca campanula Kent
Salpingoeca marina Clark Polyoeca dichotoma Kent
Salpingoeca infusionum Kent

Family - BODONIDAE

Bodo caudatus (Dujardin) Bodo lens (Müller)
Bodo rostratus (Kent)

Subclass - PHYTOMASTIGINA

Order - CRYPTOMONADIDA

Family - CRYPTOCHRYSIDAE

Cryptochrysis polychrysis Pascher

Family - CRYPTOMONADIDAE

Oxyrrhis marina Dujardin

Order - EUGLENCIDIDA

Family - PERANEMIDAE

Anisonema vitrea (Dujardin) *Anisonema acinus* Dujardin

Order - CHRYSOMONADIDA

Family - CHROMULINIDAE

Dinobryon balticum Schütt

Family - SILICOFLAGELLIDAE

Dictyocha fibula var. *longispina* Lemmermann *Distephanus speculum* var. *septenaria* (Ehrenberg)

Distephanus speculum (Ehrenberg) *Distephanus speculum* var. *regularis* Lemmermann

Distephanus octangulatus Wailes *Ebria tripartita* (Schumberger)

Distephanus pentagonus Wailes

Subclass - DINOFLAGELLATA

Order - ADINIFERIDAE

Family - PROROCENTRIDAE

Prorocentrum gracile Schütt *Exuviella apora* Schiller

Order - DINIFERIDEA

Family - GYMNODINIIDAE

Amphidinium crassum Lohmann *Gyrodinium corallinum* Kofoid & Swezy

Amphidinium ovoideum Lemmermann *Gyrodinium fulvum* Kofoid & Swezy

Gymnodinium abbreviatum Kofoid & Swezy *Gyrodinium glaucum* Lebour

Gymnodinium articum Wulff *Gyrodinium ochraceum* Kofoid & Swezy

Gymnodinium bicorne Kofoid & Swezy *Gyrodinium pingue* (Schütt)

Gymnodinium flavum Kofoid & Swezy *Gyrodinium pepo* (Schütt)

Gymnodinium multistriatum Kofoid & Swezy *Gyrodinium postmaculatum* Kofoid & Swezy

Gymnodinium heterostriatum Kofoid & Swezy *Gyrodinium spirale* (Bergh)

Gymnodinium lunula Schütt *Cochlodinium archimedes* (Pauchet)

Gymnodinium rubrum Kofoid & Swezy *Cochlodinium catenatum* Okamura

Gymnodinium scopulosum Kofoid & Swezy *Cochlodinium conspiratum* Kofoid & Swezy

Gymnodinium splendens Lebour *Cochlodinium vinctum* Kofoid & Swezy

Gymnodinium variabile Herdman *Torodinium robustum* Kofoid & Swezy

- Family - POLYKRIKIDAE
Polykrikos kofoidi Chatton
Polykrikos schwartzi Bütschli
- Family - NOCTILUCIDAE
Noctiluca scintillans (Macartney)
- Family - POUCHETIIDAE
Nematodinium armatum Dogiel
Pouchetia maxima Kofoid & Swezy
Pouchetia rubescens Kofoid & Swezy
Pouchetia violescens Kofoid & Swezy
- Family - DINOPHYSIDAE
Pseudophalacroma nasutum (Steir)
Phalacroma rotundatum Claparède & Lachmann
Dinophysis acuminata Claparède & Lachmann
Dinophysis acuta Ehrenberg
Dinophysis ellipsoides Kofoid
Dinophysis rotundata var. *intermedia* Lindemann
Dinophysis hastata Steir
Dinophysis lenticulata Pavillard
Dinophysis norvegica Claparède & Lachmann
Dinophysis parva Schiller
Dinophysis tripos Gouret
- Family - GLENODINIIDAE
Glenodinium danicum Paulsen
- Family - PERIDINIIDAE
Protoceratium reticulatum Claparède & Lachmann
Gonyaulax alaskensis Kofoid
Gonyaulax digitale (Pouchet)
Gonyaulax longispina Lebour
Gonyaulax polygramma Stein
Gonyaulax scrippsae Kofoid
Gonyaulax spinifera (Claparède & Lachmann)
Gonyaulax triacantha Joergensen
Peridiniopsis asymmetrica Mangin
Peridiniopsis rotunda Lebour
Diplopeltopsis minor Lebour
Diplopeltopsis minor var. *occidentalis* Wailes
Peridinium thorianum Paulsen
Peridinium triquetra (Stein)
Peridinium monospinum Paulsen
Peridinium decipiens Joergensen
Peridinium punctulatum Paulsen
Peridinium subpunctulatum Wailes
Peridinium grani Ostenfeld
Peridinium ovatum var. *minor* Cleve
Peridinium crassipes Kofoid
Peridinium divergens Ehrenberg
Peridinium brevipes Paulsen
Peridinium cerasus Paulsen
Peridinium micrapium Meunier
Peridinium monocanthis Broch
Peridinium subcurvipes Lebour
Peridinium asperum Wailes
Peridinium pallidum Ostenfeld
Peridinium pellucidum (Bergh)
Miruscula bipes (Paulsen)
Pyrophacus horologicum Stein

Family - PERIDINIIDAE (Cont'd.)

Peridinium minutum Kofoid	Oxytoxum diploconus var. fusiformis Okamura
Peridinium discoides Wailes	Ceratium fusus (Ehrenberg)
Peridinium avellana Meunier	Ceratium furca (Ehrenberg)
Peridinium excentricum Paulsen	Ceratium lineatum (Ehrenberg)
Peridinium leonis Payillard	Ceratium tripos var. atlanticum Ostenfeld
Peridinium pentagonum Gran	
Peridinium subinerme Paulsen	Ceratium macroceros (Ehrenberg)
Peridinium trochoideum (Stein)	Ceratium longipes (Bailey)
Peridinium achromaticum Levander	Ceratium horridum Gran
	Ceratium divaricatum (Lemmermann)
Peridinium conicoides Paulsen	
Peridinium conicum (Gran)	Ceratium azoricum Cleve
Peridinium faeroense Paulsen	Ceratium pentagonum Gourret
Peridinium depressum Bailey	Ceratium hirundinella (Müller)
Peridinium oblongum (Aurivillius)	Ceratium hirundinella var. piburgense Zederbauer
Peridinium obtusum Karsten	Ceratium hirundinella var. robustum Amberg
Peridinium saltans Meunier	Ceratium hirundinella var. carinthaceum Zederbauer
Peridinium claudicans Paulsen	Bodolampas palmipes Stein

Class - INFUSORIA

Subclass - CILIATA

Order - HOLOTRICHIDA

Family - ENCHELINIDAE

Chaenea teres Dujardin	Didinium nasutum Müller
Lacrymaria lagenula Claparède & Lachmann	Didinium balbiani Butschli
Lacrymaria color Müller	Tiarina fusus Claparède & Lachmann
Mesodinium pulex Claparède & Lachmann	Trachelocerca phoenicopterus Cohn
Mesodinium rubrum (Lachmann)	

Family - TRACHELINIDAE

Lionctus fasciola Müller	Loxophyllum meleagris Müller
Lionctus anser (Ehrenberg)	

Family - CHLAMYDODONTIDAE

Nassula microstoma (Claparède & Lachmann)	Dipteria monostyla (Ehrenberg)
---	--------------------------------

Family - CHILIFERIDAE

Colpidium colpoda Ehrenberg	Frontonia leucas Ehrenberg
Urcnema marina Dujardin	Phacus scialis Fabre-Dermegue

Family - PARAMAECIDAE

Paramecium aurelia Müller	
---------------------------	--

Family - PLEURONEMIDAE

Lembus elongatus Claparède
& Lachmann

Order - HETEROTRICHIDA

Suborder - POLYTRICHOINEA

Family - PLAGIOTOMIDAE

Metopus sigmoides Claparède
& Lachmann

Family - STENTORIDAE

Stentor auricula Kent
Stentor multiformis Müller

Folliculina ampulla Müller

Suborder - OLIGOTRICHOINEA

Family - HALTERIDAE

Laboea acuminata Leegaard
Laboea conica Lohmann
Laboea cornucopiae Wailes
Laboea ovalis Leegaard

Laboea strobila Lohmann
Halteria grandinella Müller
Strombidium sulcatum Claparède & Lachmann

Suborder - TINTINNOINEA

Family - CODONELLIDAE

Tintinnopsis coronata Kofoid
& Campbell
Tintinnopsis cylindrica Daday
Tintinnopsis laevigata Kofoid
& Campbell
Tintinnopsis karajacensis Brandt
Tintinnopsis minuta Wailes
Tintinnopsis bermudensis Brandt
Tintinnopsis strigosa Meunier

Tintinnopsis nitida Brandt
Tintinnopsis parvula Joergensen
Tintinnopsis sacculus Brandt
Tintinnopsis subacuta Joergensen
Tintinnopsis wailesi Kofoid
& Campbell
Tintinnopsis bercidea Stein

Family - CODONELLIPSIDAE

Stenosemella expansa (Wailes)
Stenosemella inflata Kofoid & Campbell
Stenosemella nivalis (Meunier)

Stenosemella punctata (Wailes)
Stenosemella steini (Joergensen)
Stenosemella ventricosa
(Claparède & Lachmann)

Stenosemella pacifica Kofoid & Campbell

Family - COXLIELLIDAE

Helicostomella subulata (Ehrenberg)
Helicostomella kiliensis (Lachmann)

Family - CYTTAROCYLIDAE
Favella ehrenbergi (Claparède & Lachmann) *Parafavella gigantea* (Brandt)
Favella franciscana Kofoid & Campbell *Parafavella parumdentata* (Brandt)
Favella serrata (Möebius)

Family - PTYCHOCYLIDAE
Ptychocyclus drygalskii Brandt *Ptychocyclus repanda* Wailes
Ptychocyclus minor Joergensen *Ptychocyclus urnula* (Claparède & Lachmann)
Ptychocyclus wailesi Kofoid & Campbell

Family - XYSTONELLIDAE
Parundella lachmanni (Daday) *Parundella major* (Wailes)
Parundella lagena Kofoid & Campbell *Parundella minor* (Wailes)
Parundella translucens (Wailes)

Family - UNDELLIDAE
Proplectella columbiana (Wailes)

Family - DICTYOCYSTIDAE
Dictyocysta apiculata Wailes *Dictyocysta reticulata* Kofoid & Campbell
Dictyocysta elegans Ehrenberg

Family - TINTINNIDAE
Tintinnus lususundae Entz *Tintinnus rectus* (Wailes)
Tintinnus pectinis Kofoid & Campbell *Salpingella acuminata* (Claparède & Lachmann)
Tintinnus tubulosus Ostenfeld *Salpingella curta* Kofoid & Campbell

Order - HYPOTRICHIDA

Family - PERITROMIDAE
Peritromus emmae Stein

Family - OXYTRICHIDAE
Epiclintes radiosa (Quenn) *Amphisia pernix* Wrzesniowski

Family - EUPLOTIDAE
Euplotes harpa Stein *Uronychia transfuga* Müller

Order - PERITRICHIDA.

Family - VORTICELLIDAE

Rhabdostyla commensalis Moebius	Vorticella companula Ehrenberg
Cothurnia crystallina (Ehrenberg)	Vorticella patrinum Müller
Cothurnia innata Müller	Vorticella marina Greeff
Cothurnia nodosa Claparède & Lachmann	Vorticella microstoma Ehrenberg
Cothurnia lata Kellicott	Vorticella patellina Müller
Cothurnia gracilis Kent	Zoothamnium arbuscula Ehrenberg
Cothurnia imberbis Ehrenberg	Zoothamnium elegans D'Udek
Cothurnia patula Fromental	Zoothamnium niveum Ehrenberg
Cothurnia compressa Claparède & Lachmann	Zoothamnium nutans Claparède and Lachmann
Cothurnia compressa var. flexa Wailes	Zoothamnium candelabrum Wailes
Vaginiccla nigra Wailes	Carchesium polypinum Ehrenberg

Subclass - SUCTORIA

Family - PODOPHRYSIDAE

Ephelota coronata Wright	Ephelota plana Wailes
Ephelota gemmipara (Hertwig)	Podophrya elongata Claparède & Lachmann

Family - ACINETIDAE

Acineta foetida Maupas	Paracineta crenata Fraipont
Acineta laevis Dons	Paracineta crenata var. gracilis Wailes
Acineta minuta Wailes	Paracineta crenata var. pachytheca Collin
Acineta tuberosa Ehrenberg	Paracineta limbata (Maupas)
Paracineta parva Sand	Paracineta livadiana Mereschkowsky
Paracineta patula Claparède & Lachmann	

Family - TRICHOPHRYIDAE

Trichophrya columbiae Wailes

Family - OPHRYODENDRIDAE

Ophryodendron belgicum var. stellatum Wailes	Ophryocephalus capitatum Wailes
--	---------------------------------

Family - INCERTUM SEDIS

Trochiscia branchiolata (Moebius)	Trochiscia multispinosa (Moebius)
Trochiscia clevei Lemmermann	Trochiscia ovata (Pouchet)
Trochiscia dictyon (Joergensen)	Radiospermum textum Meunier
Trochiscia moebiusi (Joergensen)	

Phylum - PORIFERA.

Order - CALCAREA

Family - SYCETTIDAE

Sycon compactum Lambe *Sycon protectum* Lambe

Family - GRANTIIDAE

Grantia comoxensis Lambe *Leuconia taylori* Lambe
Leuconia pyriformis Lambe

Order - HEXACTINELLIDAE

Family - ROSSELLIDAE

Rhabdocalyptus dawsoni (Lambe) *Stauracalyptus dowlingii*
(Lambe)

Family - COSCINOPORIDAE

Chonelasma calyx Schulze

Family - APHROCALLISTIDAE

Aphrocallistes vastus Schulze

Order - CHORISTIDA

Family - GEODIIDAE

Geodia mesotriaena Ledenfeld

Family - TETILLIDAE

Tetilla villosa (Lambe) *Tetilla spinosa* (Lambe)

Order - HADROMERINA

Family - SUBERITIDAE

Ficulina suberea (Johnston) *Ficulina pacifica* Lambe
Ficulina simplex Lambe

Order - HALICHONDRINA

Family - AXINELLIDAE

Reniera cinerea Grant *Halichondria panicea* (Pallas)
Reniera mollis Lambe *Halichondria disparilis* Lambe

Order - POECILOSCLERINA

Family - DESMACIDONIDAE

Desmacella pennata Lambe *Esperiopsis rigida* Lambe
Mycale serratchamata Carter *Esperiopsis vancouverensis*
Lambe
Mycale hispida Lambe *Esperiopsis quatsincoensis*
Lambe
Mycale adhaerens Lambe *Esperiopsis laxa* Lambe
Mycale occidentalis Lambe *Clathria laevigata* Lambe
Mycale bellabellensis (Lambe)

Family - MYXILLIDAE

Myxilla parasitica Lambe *Myxilla amaknakensis* Lambe
Myxilla barentsi Vosmaer *Myxilla firma* Lambe
Myxilla lacunosa Lambe *Iophon chelifera* Ridley & Dendy
Myxilla rosacea Lieberkuhn *Tedania fragilis* Lambe

Phylum - COELENTERATA

Class - HYDROZOA

Order - HYDROIDEA

Suborder - ATHECATA

Family - TURRIDAE

Endocrypta huntsmani (Fraser)

Family - CLAVIDAE

Corydendrum fruticosum Fraser

Family - LARIIDAE

Monobrachum parasitum Mereschkowsky

Family - CORYNIDAE

Coryne crassa Fraser

Family - BIMERIDAE

Bimeria gracilis Clark

Garveia groenlandica Levinson

Bimeria robusta Torrey

Garveia annulata Nutting

Family - BOUGAINVILLIDAE

Bougainvillea gloriotta Torrey - Perigchinus repens (Wright)

Bougainvillea mertensi Agassiz

Family - EUDENDRIDAE

Eudendrium californicum Torrey

Eudendrium rameum (Pallas)

Eudendrium capillare Alder

Eudendrium tenellum Allman

Eudendrium insigne Hincks

Eudendrium vaginatum Allman

Eudendrium irregulare Fraser

Family - HYDRACTINIDAE

Hydractinia aggregata Fraser

Hydractinia milleri Torrey

Hydractinia laevispina Fraser

Family - TUBULARIDAE

Tubularia crocea (Agassiz)

Tubularia indivisa Linnaeus

Tubularia harrimani Nutting

Tubularia larynx Ellis & Solander

Family - HYPOCONDONIDAE

Hypocodon prolifer Agassiz

Suborder - THECATA

Family - CAMPANULARIDAE

Campanularia denticulata Clark

Clytia inconspicua (Forbes)

Campanularia everta Clark

Clytia johnstoni (Alder)

Campanularia fusiformis Clark

Clytia kincaidi (Nutting)

Campanularia gelatinosa (Pallas)

Clytia longithea (Fraser)

Campanularia groenlandica Levinson

Eucopella caliculata (Hincks)

Campanularia integra MacGillivray

Genothyraea clarki (Marktanner-Turneretscher)

Family - **CAMPANULARIDAE** (Cont'd.)

<i>Campanularia raridentata</i> Alder	<i>Gonothyraea gracilis</i> (Sars)
<i>Campanularia regia</i> Nutting	<i>Obelia borealis</i> Nutting
<i>Campanularia speciosa</i> Clark	<i>Obelia dichotoma</i> (Linnaeus)
<i>Campanularia urceolata</i> Clark	<i>Obelia dubia</i> Nutting
<i>Campanularia verticillata</i> (Linnaeus)	<i>Obelia griffini</i> Calkins
<i>Campanularia volubilis</i> (Linnaeus)	<i>Obelia longissima</i> (Pallas)
<i>Glytia edwardsi</i> (Nutting)	<i>Obelia plicata</i> Hincks
<i>Calycella syringa</i> (Linnaeus)	<i>Lovenella producta</i> (Sars)
<i>Campanulina forskalea</i> (Peron & Lesueuer)	<i>Opercularella lacerata</i> (Johnston)
<i>Cuspidella grandis</i> Hincks	<i>Stegopoma plicatile</i> (Sars)
<i>Cuspidella humilis</i> (Alder)	

Family - **HALECIDAE**

<i>Halecium annulatum</i> Torrey	<i>Halecium labrosum</i> Alder
<i>Halecium articulatum</i> Clark	<i>Halecium parvulum</i> Bate
<i>Halecium corrugatum</i> Nutting	<i>Halecium pygmaeum</i> Fraser
<i>Halecium densum</i> Calkins	<i>Halecium reversum</i> Nutting
<i>Halecium flexile</i> Allman	<i>Halecium wilsoni</i> Calkins
<i>Halecium halecinum</i> (Linnaeus)	<i>Halecium tenellum</i> Hincks
<i>Halecium washingtoni</i> Nutting	<i>Ophiodes gracilis</i> Fraser

Family - **LAFOEIDAE**

<i>Filellum serpens</i> (Hassall)	<i>Lafoea fruticosa</i> Sars
<i>Grammaria abietina</i> (Sars)	<i>Lafoea gracilima</i> (Alder)
<i>Grammaria immersa</i> Nutting	<i>Lictorella cervicornis</i> Nutting
<i>Lafoea dumosa</i> (Fleming)	

Family - **SERTULARIIDAE**

<i>Abietinaria abietina</i> (Linnaeus)	<i>Sertularella pedrensis</i> Torrey
<i>Abietinaria amphora</i> Nutting	<i>Sertularella pinnata</i> Clark
<i>Abietinaria anguina</i> (Trask)	<i>Sertularella polyzonias</i> (Linnaeus)
<i>Abietinaria filicula</i> (Ellis & Solander)	<i>Sertularella rugosa</i> (Linnaeus)
<i>Abietinaria gigantea</i> (Clark)	<i>Sertularella tanneri</i> Nutting
<i>Abietinaria gracilis</i> Nutting	<i>Sertularella tenella</i> (Alder)
<i>Abietinaria greenii</i> (Murray)	<i>Sertularella tricuspida</i> (Alder)
<i>Abietinaria rigida</i> Fraser	<i>Sertularella turgida</i> (Trask)
<i>Abietinaria traski</i> (Torrey)	<i>Sertularella furcata</i> Trask
<i>Abietinaria turgida</i> (Clark)	<i>Thuiaria alba</i> Fraser
<i>Abietinaria variabilis</i> (Clark)	<i>Thuiaria argentea</i> (Linnaeus)
<i>Dictyocladium flabellum</i> Nutting	<i>Thuiaria carica</i> Levinson
<i>Diphasia pulchra</i> Nutting	<i>Thuiaria dalli</i> Nutting
<i>Hydrallmania distans</i> Nutting	<i>Thuiaria fabricii</i> (Levinson)
<i>Selaginopsis cylindrica</i> (Clark)	<i>Thuiaria geniculata</i> Fraser
<i>Selaginopsis mirabilis</i> (Verrill)	<i>Thuiaria robusta</i> Clark
<i>Selaginopsis pinnata</i> Mereschkowsky	<i>Thuiaria thuiaroides</i> (Clark)
<i>Selaginopsis triserialis</i> Mereschkowsky	<i>Thuiaria thuja</i> (Linnaeus)
<i>Sertularella conica</i> Allman	<i>Thuiaria similis</i> Clark

- Family - PLUMULARIDAE
Aglaophenia struthionides (Murray) *Plumularia lagenifera* Allman
Gladocarpus vancouverensis Fraser *Plumularia plumularoides* (Clark)
Plumularia corrugata Nutting *Plumularia setacea* Ellis
Plumularia goodii Nutting

Order - HYDROMEDUSAE

Suborder - ANTHOMEDUSAE

Family - Sarsiidae

- Sarsia mirabilis* Agassiz *Sarsia japonica* (Maas)
Sarsia princeps Haeckel *Hybocodon prolifer* Agassiz
Sarsia flammea (Linko) *Slabberia catenata* Forbes & Goodsir

Family - Amphinemidae

Stomotoca atra Agassiz

Family - Pandeidae

- Pandea rubra* Bigelow *Leuckartiara octona* (Fleming)
Halimedusa typus Bigelow *Leuckartiara brevicornis* Murback & Shearer
Endocrypta huntsmani (Fraser) *Leuckartiara nobilis* Hartlaub
Halitholus pauper Hartlaub *Catablema vesicarium* (Agassiz)
Neoturris pelagica (Agassiz & Mayer)

Family - Bougainvilleidae

- Bougainvillia bougainvillei* (Brandt) *Bougainvillia nordgaardii* (Browne)
Bougainvillia gloriotta Torrey *Bougainvillia superciliaris* (Agassiz)
Bougainvillia multitentaculata Forster *Rathkea blumenthachii* (Rathke)

Family - Williadae

- Proboscidactyla flavigirrata* Brandt *Proboscidactyla polynema* (Hartlaub)

Order - Leptomedusae

Family - Thaumantiadae

- Melicertum campanula* Okan *Melicertum georgicum* Agassiz

Family - Lapidiceidae

Staurophora purpurea Forster

Family - POLYORCHIDAE

Polyorchis penicillata Agassiz

Family - MITROCOMEDAE

Mitrocoma discoidea Torrey Halistaura cellularis (Agassiz)
Mitrocoma sinuosa Foerster Tiaropsidium kelseyi Torrey

Family - EUCORIDAE

Obelia borealis Nutting Clytia edwardsi (Nutting)
Obelia dichotoma (Linnaeus) Clytia inconspicua (Forbes)
Obelia dubia Nutting Clytia johnstoni (Alder)
Obelia griffini Calkins Clytia kincaida Nutting
Obelia longissima (Pallas) Phialidium languidum (Agassiz)
Obelia plicata Hincks Phialidium languidum var.
gregarium (Agassiz)
Obelia surcularis Calkins Eutonina indicans (Romanes)

Family - AEQUORIDAE

Aequorea aequorea (Forsk.)

Order - TRACHOMEDUSAE

Family - OLINDIINAE

Eperetmus typus Bigelow Gonionemus vertens Agassiz

Family - TRACHYNEMIDAE

Aglantha digitale (Müller) Crossota brunnea var. norvegia
(Vanhöffen)

Order - NARCOMEDUSAE

Family - CUNINIDAE

Solmissus incisa (Fewkes)

Family - AEGINIDAE

Aegina rosea (Eschscholtz)

Order - SIPHONOPHORA

Suborder - DISCONNECTAE

Family - VELELLIDAE

Velella lata Chamisso & Eysenhardt

Suborder - CALYCOPHORA

Family - DIPHYIDAE

Galeolaria truncata (Sars) Diphyes arotica Chun
Diphyes appendiculata Eschscholtz

Order - HYDROCORALLINA

Family - STYLASTERIDAE

Stylaster norvegicus Gunnerus

Class - SCYPHOMEDUSAE

Order - CORONATA

Family - PERIPHYLLIDAE

Periphylla hyacinthina Steenstrup

- Family - ATOLLIDAE
Atolla wyvillei Haeckel
- Family - PELAGIIDAE
Chrysaora melanaster var.
gilberti Kishinouye
- Family - CYANIDAE
Cyanea capillata (Linnaeus)
- Family - Aureliidae
Aurelia aurita (Linnaeus)
- Class - ANTHOZOA
 Subclass - ALCYONARIA
 Order - GORGONACEA
 Family - BRIAREIDAE
Paragorgia pacifica Verrill
- Family - PRIMNOIDAE
Primnoa willeyi Hickson
- Family - PLEXAURIDAE
Psammogorgia teres Verrill
Caligorgia fraseri Hickson
- Order - PENNATULACEA
 Family - PENNATULIDAE
Ptilosarcus quadrangularis Moroff
Osteocella septentrionalis (Gray)
- Family - CLAVULARIIDAE
Clavularia moresbyi Hickson
- Subclass - ZOANTHARIA
 Order - ACTINIARIA
 Family - METRIDIIDAE
Metridium senile var. *dianthus* (Ellis)
- Family - CRIBRINIDAE
Cribrina xanthogrammica (Brandt)
Epiactis prolifera Verrill
- Family - URTICINIDAE
Urticina crassicornis (Müller)
Urticina columbiana Verrill
Euactis artemisia (Drayton)
- Family - HALCAMPIDAE
Bicidium aequorea McMurrich
Peachia quinquecapitata (McMurrich)

Order - MADREPORARIA

Family - GEUPSAMMIDAE

Balanophyllia elegans Verrill

Class - CTENOPHORA

Pleurobrachia bachei Agassiz

Boroe abyssiicola Mortensen

Pleurobrachia pileus Fabricius

Bolinopsis microptera (Agassiz)

Phylum - PLATYHELMINTHES

Class - CESTODA

Subclass - CESTODARIA

Family - GYROCOTYLIDAE

Gyrocotyle urna (Grube & Wagener)

Subclass - EUCESTODA

Family - PTYCHOBOTHRIDAE

Bothriocephalus scoprii (Müller)

Ptychobothrium sagitticeps

(Sleggs)

Bothriocephalus occidentalis

Clestobothrium crassiceps

(Linton)

(Rudolphi)

Family - AMPHICOTYLIDAE

Eubothrium oncorhynchi Wardle

Family - TETRARHYNCHIDAE

Gilquinia aquali (Fabricius)

Family - TENTACULARIIDAE

Nybelinia surmenicola Okada

Family - EAKISLORHYNCHIDAE

Grillotia erinacea (Van Beneden)

Phylum - NEMATELMINTHES

Family - DRACUNCULIDAE

Philonema oncorhynchi Kuitinen-Ekbaum

Phylum - CHAETOGNATHA

Sagitta elegans Verrill

Sagitta lyra Krchn

Phylum - GEPHYRTA

Family - SIPUNCOLOIDEAE

Physcosoma japonica (Grube)

Physcosoma agassizii (Kieferstein)

Phylum - ROTIFERA

Family - ANURÆIDAE

Keratella cruciformis Thompson

Notholca striata (Müller)

Family - SYNCHAETIDAE
Synchaeta baltica (Ehrenberg)

Family - RATTULIDAE
Trichocera marina Daday

Phylum - ANNELIDA

Class - CHAETOPODA

Order - POLYCHAETA

Family - APHRODITIDAE
Aphrodite japonica Marenzeller Aphrodite parva Moore
Aphrodite negligens Moors

Family - POLYNOIDAE
Halosydna pulchra (Johnson) Lepidasthenia longicirrata Berkeley
Halosydna insignis Baird Hermadion truncata Moore
Halosydna lordi Baird Polynoe tupa Grube
Halosydna fragilis Baird Lagisca multisetosa Moore
Halosydna gelatinosa Sars Harmothoe imbricata (Linnaeus)
Lepidonotus caeloris Moore Evadne triannulata Moore
Malmgrenia nigralba Berkeley Gattyana ciliata Moore
Hololepida magna Moore Gattyana senta Moore
Antinoe macrolepida Moore

Family - SIGALIONIDAE
Peisidice aspera Johnson Sthenalais verruculosa Johnson
Pholoe minuta (Fabricius)

Family - AMPHINOMIDAE
Euphrosyne arctia Johnson Euphrosyne hortensis Moore
Euphrosyne bicirrata Moore

Family - PALMYRIDAE
Heteropale bellis Johnson

Family - PHYLLOCIIDAE
Phyllodoce citrina Malmgren Eulalia levicornuta Moore
Phyllodoce castanea (Marenzeller) Eulalia bifoliata Moore
Anaitis polynoides Moore Eulalia sanguinea Oersted
Anaitides groenlandica (Oersted) Eulalia viridis Müller
Eulalia bilineata (Johnson) Notophyllum imbricatum Moore
Eulalia macroceras (Grube) Eteone spetsbergensis Malmgren
Eulalia nigrimaculata Moore

Family - TOMOPTERIDAE
Tomopteris septentrionalis Tomopteris renata Berkeley
Apstein

Family - HESICNIDAE
Castalia fusca Johnson Podarke pugettensis Johnson

Family - SYLLIDAE

<i>Syllis borealis</i> Malmgren	<i>Pionosyllis gigantea</i> Moore
<i>Syllis alternata</i> Moore	<i>Pionosyllis lamelligera</i> Saint-Joseph
<i>Syllis armillaris</i> Oersted	<i>Pionosyllis prolifera</i> (Krohn)
<i>Syllis elongata</i> (Johnson)	<i>Amblyosyllis lineata</i> Grube
<i>Trypanosyllis gemmipara</i> Johnson	<i>Autolytus prismaticus</i> (Fabricius)
<i>Odontosyllis phosphorea</i> Moore	<i>Autolytus magnus</i> Berkeley
<i>Odontosyllis parva</i> Berkeley	

Family - NEREIDAE

<i>Micronereis variegata</i> Claparède	<i>Nereis cyclurus</i> Harrington
<i>Nereis vexillosa</i> Grube	<i>Nereis agassizi</i> Ehlers
<i>Nereis pelagica</i> Linnaeus	<i>Nereis notomacula</i> Treadwell
<i>Nereis proccera</i> Ehlers	<i>Nereis virens</i> Sars
<i>Nereis paucidentata</i> Moore	

Family - NEPHTHYDIDAE

<i>Nephtys caeca</i> (Müller)	<i>Nephtys malmgreni</i> Théel
<i>Nephtys assimilis</i> Oersted	<i>Nephtys ciliata</i> (Müller)
<i>Nephtys cirrosa</i> Ehlers	

Family - LEODICIDAE

<i>Leodice harassii</i> (Audouin - M. Edwards)	<i>Lumbrinereis bifurcata</i> (McIntosh)
<i>Leodice biannulata</i> Moore	<i>Lumbrinereis cervicales</i> Treadwell
<i>Onuphis elegans</i> (Johnson)	<i>Arabella lagunae</i> Chamberlin
<i>Onuphis iridiscens</i> (Johnson)	<i>Arabella iricolor</i> (Montagu)
<i>Onuphis geophiliformis</i> (Moore)	<i>Dorvillea pseudorubrovittata</i> Berkeley
<i>Diopatra ornata</i> Moore	<i>Dorvillea pallida</i> (Langerhans)
<i>Diopatra californica</i> Moore	<i>Dorvillea ciliata</i> (Keferstein)
<i>Lumbrinereis zonata</i> (Johnson)	<i>Dorvillea annulata</i> (Moore)
<i>Lumbrinereis heteropoda</i> Marenzeller	<i>Dorvillea moniloceras</i> (Moore)

Family - GLYCERIDAE

<i>Glycera rugosa</i> Johnson	<i>Glycinde armigera</i> Moore
<i>Glycera nana</i> Johnson	<i>Glycinde picta</i> Berkeley
<i>Glycera capitata</i> Oersted	<i>Glycinde wireni</i> Arwidson
<i>Glycera tessellata</i> Grube	<i>Goniada brunnea</i> Treadwell
<i>Hemipodia borealis</i> Johnson	<i>Goniada annulata</i> Moore

Family - SPHAERODORIDAE

<i>Ephesia papillifer</i> (Moore)	<i>Sphaerodorum minutum</i> Webster & Benedict
-----------------------------------	--

Family - ARICIIDAE

<i>Nainereis longa</i> Moore	<i>Scoloplos elongata</i> Johnson
<i>Nainereis hespera</i> Chamberlin	<i>Nainereis laevigata</i> (Grube)

Family - SPIONIDAE

<i>Magelona longicornis</i> Johnson	<i>Boccardia columbiana</i> Berkeley
<i>Spio martinensis</i> Mesnil	<i>Boccardia uncata</i> Berkeley
<i>Prionospio mangreni</i> Claparède	<i>Polydora cardalia</i> Berkeley
<i>Prionospio multisbranchiata</i> Berkeley	<i>Polydora caeca</i> Oersted
<i>Paraprionospio tribranchiata</i> Berkeley	<i>Spionides japonicus</i> Moore
<i>Spiophanes cirrata</i> Sars	<i>Nerine cirratulus</i> (Delle Chiaje)
<i>Spiophanes bombyx</i> (Claparède)	

Family - CHAETOPTERIDAE

<i>Mesochaetopterus taylori</i> Potts	<i>Leptochaetopterus pottsii</i> Berkeley
<i>Phyllochaetopterus prolifica</i> Potts	

Family - CIRRATULIDAE

<i>Tharyx multifilis</i> Moore	<i>Cirratulus robustus</i> Johnson
<i>Caulleriella viridis</i> (Langerhans)	<i>Dodecaceria pacifica</i> (Fewkes)

Family - TERESELLIDAE

<i>Terebella robusta</i> (Johnson)	<i>Pista elongata</i> Moore
<i>Terebella spiralis</i> (Johnson)	<i>Pista fasciata</i> (Grube)
<i>Thelepus triserialis</i> (Grube)	<i>Eupolymnia residens</i> (Delle Chiaje)
<i>Thelepus hamatus</i> Moore	<i>Eupolymnia heterobranchia</i> (Johnson)
<i>Pista cristata</i> (Müller)	<i>Polycirrus perplexus</i> Moore
<i>Pista fratrella</i> Chamberlin	<i>Terebellides stroemi</i> Sars

Family - AMPHARETIDAE

<i>Amphicteis scaphobranchiata</i> Moore	<i>Amphareté arctica</i> Malmgren
<i>Amphicteis mucronata</i> Moore	<i>Melinna cristata</i> (Sars)
<i>Amphicteis glabra</i> Moore	<i>Samytha bicodulata</i> Moore
<i>Amage anops</i> (Johnson)	

Family - AMPHICTENIDAE

<i>Cistenides brevicoma</i> (Johnson)	<i>Pectinaria auricoma</i> (Müller)
---------------------------------------	-------------------------------------

	Family - CAPITELLIDAE	
Notomastus giganteus Moore		Notomastus angulatus Chamberlin
Notomastus pallidior Chamberlin		Capitella capitata (Fabricius)
Notomastus tenuis Moore		Heteromastus filibranchus Berkeley
Notomastus lineatus Claparède		Protocapitella simplex Berkeley
	Family - OPHELIIDAE	
Travisia pupa Moore		Ammotrypane brevis Moore
Travisia granulata Moore		Ammotrypane aulogaster Rathke
Travisia brevis Moore		Ophelina mucronata Treadwell
	Family - MALDANIDAE	
Praxillella affinis var. pacifica Berkeley		Nicomache personata Johnson
Clymenella rubrocincta Johnson		Notoproctus pacificus (Moore)
Maldanella robusta Moore		Leiochone columbiana Berkeley
	Family - AMMOCHARIDAE	
Ammocharis fusiformis (Delle Chiaje)		Muriochele heeri Malmgren
	Family - ARENICOLIDAE	
Arenicola pusilla Quatrefages		
	Family - SCALIBREGMIDAE	
Scalibregma inflatum Rathke		Oncoscölex pacificus (Moore)
	Family - CHLORHAEMIDAE	
Stylarioides papillata (Johnson)		Flabelligera infundibularis Johnson
Stylarioides plumosa Müller		Brada villosa (Rathke)
Stylarioides eruca (Claparède)		Brada pilosa Moore
	Family - STERNASPIDAE	
Sternaspis fossor Stimpson		
	Family - SABELLIDAE	
Distylia rugosa Moore		Schizobranchia insignis Bush
Eudistylia polymorpha (Johnson)		Schizobranchia nobilis Bush
<u>Eudistylia gigantea</u> Bush		Euchone analis (Kröyer)
Sabella elegans Bush		Branchioma burrardum Berkeley
Sabella formosa Bush		Fabricia <u>Fabricia sabella</u> Ehrenberg
Parasabella media Bush		Fabricia minuta Berkeley
Pseudopotamilla ocellata Moore		Myxicola aesthetica Claparède
Pseudopotamilla reniformis (Müller)		Chone gracilis Moore
Pseudopotamilla debilis Bush		

	Family - SERPULIDAE
<i>Serpula vermicularis</i> Linnaeus	<i>Spirorbis granulatus</i> (Linnaeus)
<i>Crucigera zygophora</i> Johnson	<i>Spirorbis ambilateralis</i> Pixell
<i>Crucigera irregularis</i> Bush	<i>Spirorbis validus</i> Verrill
<i>Protula pacifica</i> Pixell	<i>Spirorbis racemosus</i> Pixell
<i>Ghitinopoma grönlandica</i> (Mörch)	<i>Spirorbis langerhansi</i> Caullery & Mesnil
<i>Apomatus geniculata</i> Moore	<i>Spirorbis pusilloides</i> Bush
<i>Apomatus timsii</i> Pixell	<i>Spirorbis medius</i> Pixell
<i>Spirorbis spirellum</i> (Linnaeus)	<i>Spirorbis asperatus</i> Bush
<i>Spirorbis vitreus</i> (Fabricius)	<i>Spirorbis ambilateralis</i> Pixell
<i>Spirorbis mörchi</i> Levinson	<i>Spirorbis quadrangularis</i> Stimpson
<i>Spirorbis variabilis</i> Bush	

	Family - SABELLARIIDAE
<i>Pallasia johnstoni</i> (McIntosh)	<i>Sabellaria cementarium</i> Moore

	Family - MYZOSTOMIDAE
<i>Myzostoma gigas</i> Lutken	

	Family - ALCEOPIDAE
<i>Callizona angelini</i> Kinberg	

	Family - TYPHLOSCOLECIDAE
<i>Typhloscolex mülleri</i> Bush	<i>Sagitella kowalewskii</i> Wagner

Phylum - BRACHIOPODA

Order - ARTHROPOMATA

	Family - RHYNCONELLIDAE
<i>Hemithyris psittacea</i> (Gmelin)	<i>Frieleia halli</i> Dall

	Family - TEREBRATELLIDAE
<i>Terebratalia transversa</i> (Sowerby)	<i>Laqueus californicus</i> Koch
<i>Terebratalia transversa caur-</i> <i>ina</i> (Gould)	<i>Laqueus californicus van-</i> <i>couverensis</i> Davidson
<i>Terebratalia frontalis</i> (Middendorff)	

	Family - TEREBRATULIDAE
<i>Terebratulina kiiensis</i> Dall & Pilsbry	<i>Terebratulina unguicula</i> Carpenter

Phylum - BRYOZOA

Class - ENTOPROCTA

Order - PEDICELLINAE

	Family - PEDICELLINIDAE
<i>Pedicellina cernua</i> (Pallas)	<i>Barentsia ramosa</i> (Robertson)
<i>Barentsia gracilis</i> var. <i>nodosa</i> (Lomas)	<i>Barentsia parva</i> O'Donoghue

Family - LOXOSOMIDAE
Loxosoma davenporti Nickerson

Class - ECTOPROCTA

Order - CTENOSTOMATA

Family - ALCYONIDIIDAE

Alcyonidium gelatinosum var. lobata Hincks	Alcyonidium cervicorne Robertson
Alcyonidium mamillatum Alder	Alcyonidium columbianum O'Donoghue
Alcyonidium pedunculatum Robertson	Clavopora occidentalis (Fewkes)
Alcyonidium mytili Dalyell	

Family - VESICULARIIDAE

Bowerbankia gracilis Leidy	Bowerbankia gracilis var. aggregata O'Donoghue
----------------------------	--

Family - BUSKIIDAE

Buskia nitens Alder

Family - CYLINDROECIIDAE

Cylindroecium giganteum (Busk)	Cylindroecium horridum O'Donoghue
--------------------------------	--------------------------------------

Family - TRITICELLIDAE

Triticella pedicellata (Alder)	Triticella tegeticulla O'Donoghue
Triticella annulata O'Donoghue	

Order - CYCLOSTOMATA

Family - DIASTROPORIDAE

Stomatopora granulata (M. Edwards)	Proboscina fasciculata (Hincks)
Proboscina diastoporides (Norman)	Proboscina fungia (Couch)
Proboscina incrassata (Smitt)	

Family - CRISIIDAE

Crisia geniculata M. Edwards	Crisia pugeti Robertson
Crisia occidentalis Trask	Crisidia franciscana (Robert- son)
Crisia serrata Gabb & Horn	Crisidia edwardsiana d'Orbigny
Crisia maxima Robertson	Crisidia cornuta (Linnaeus)

Family - MECYNOECIIDAE

Entalophora raripora d'Orbigny	Microecia sarniensis (Norman)
Mecynoecia repens O'Donoghue	

Family - PLAGIOECIIDAE

- Plagioecia patina (Lamarck) Desmeplagioecia regularis
(d'Orbigny)
Plagioecia vancouverensis O'Donoghue

Family - DIAPEROCIIDAE

- Diaperoecia capitata Diaperoecia depressa
(Robertson) (O'Donoghue)
Diaperoecia clavata (Busk) Diaperoecia intermedia
(O'Donoghue)
Diaperoecia vancouverensis Diaperoecia labiata (O'Donoghue)
(O'Donoghue)
Diaperoecia expansa (d'Orbigny) Diaperoecia striata (O'Donoghue)
Diaperoecia major (Johnston) Diplosolen obelium (Johnston)
Diaperoecia johnstoni (Heller)

Family - TUBULIPORIDAE

- Tubulipora flabellaris Tubulipora pulchra MacGillivray
(Fabricius)
Tubulipora fasciculifera Hincks Tubulipora serpens (Linnaeus)
Tubulipora tuba (Gabb & Horn) Tubulipora serpens var.
radiata Hincks
Tubulipora pacifica Robertson

Family - CYTISIDAE

- Discocytis canadensis O'Donoghue Idmonea atlantica Johnston
Idmonea californica d'Orbigny

Family - LICHENOPORIDAE

- Lichenopora hispida (Fleming) Lichenopora fava O'Donoghue
Lichenopora radiata (Audouin) Tretocycloecia palliculata
(Waters)
Lichenopora verrucaria Tretocycloecia magna O'Donoghue
(Fabricius)

Order - SCHEILOSTOMATA

Family - ELECTRINIDAE

- Membranipora villosa Hincks Callopora alba (O'Donoghue)
Membranipora serrata Hincks Callopora armata O'Donoghue
Hincksina minuscula (Hincks) Callopora triangulata O'Donoghue
Hincksina pallida (Hincks) Tegella robertsoni O'Donoghue
Hincksina polacantha O'Donoghue Tegella cassidata (O'Donoghue)
Alderina compressa O'Donoghue Tegella aquilirostris O'Donoghue
Callopora lineata (Linnaeus) Amphiblestrum patulum Hincks
Callopora circumclathrata Amphiblestrum protectum
(Hincks) (Hincks)
Callopora horrida (Hincks) Amphiblestrum alcicorne
(O'Donoghue)
Callopora tenuirostris (Hincks) Cauloramphus spinifer (Johnston)
Callopora exilis (Hincks) Cauloramphus echinus (Hincks)

Family - AETEIDAE
Aeta anguina (Linnaeus) *Aetea truncata* (Landsborough)

Family - CHAPERIIDAE
Chaperia varians (O'Donoghue)

Family - SCRUPOCELLARIIDAE
Scrupocellaria californica Trask *Caberea ellisii* (Fleming)

Scrupocellaria varians Hincks *Menipea ternata* (Ellis & Solander)

Scrupocellaria inamata O'Donoghue

Scrupocellaria diegensis Robertson *Menipea gracilis* Busk

Caberea boryi (Audouin) *Menipea erecta* Robertson

Family - EUCRATIIDAE
Eucratea chelata (Linnaeus) *Brettia tubaeformis* Hincks

Family - BICELLARIELLIDAE
Bicellariella brevispina (O'Donoghue) *Bugula laxa* Robertson

Bicellariella stolonifera O'Donoghue *Bugula cucullifera* Osburn

Bugula murrayana (Johnston) *Beania mirabilis* Johnston

Bugula californica Robertson *Beania columbiana* O'Donoghue

Bugula pacifica Robertson *Stirpariella ciliata* (Robertson)

Bugula pugeti Robertson *Stirpariella occidentalis* Robertson

Bugula curvirostrata Robertson *Stirpariella californica* Robertson

Family - FLUSTRIDAE
Flustra membranaceo-truncata Smitt *Flustra simplex* O'Donoghue
Flustra lichencoides Robertson

Family - MICROPORIDAE
Micropora coricaea (Esper) *Microporina borealis* (Busk)

Family - CELLULARIIDAE
Cellularia diffusa (Robertson)

Family - CRIBRILINIDAE
Cribrilina annulata (Fabricius) *Rigenella furcata* (Hincks)
Cribrilina corbicula (O'Donoghue) *Lyrula hippocrepis* (Hincks)

Puellina radiata (Moll)

Family - HIPPOTHOIIDAE
Hippothoa divaricata Lamouroux *Hippothoa hyalina* var. *cornuta* Hincks
Hippithoa hyalina (Linnaeus)

	Family - ESCHARELLIDAE
Schizoporella cruenta (Norman)	Stephanosella biaperta (Michelin)
Schizoporella crassirostris Hincks	Arthropoma cecilii (Audouin)
Schizoporella tumulosa Hincks	Schizomavella auriculata (Hassall)
Schizoporella dawsoni Hincks	Schizomavella longirostrata (Hincks)
Schizoporella insculpta Hincks	Dakaria pristina (Hincks)
Schizoporella granulata O'Donoghue	Dakaria ordinata (O'Donoghue)
Schizoporella umbonata O'Donoghue	Lepralia nitescens Hincks
Schizopodrella linearis var. inarmata (Hincks)	Lepralia columbiae O'Donoghue

	Family - STOMACHETOSSELLIDAE
Stomachetosella sinuosa (Busk)	Microporella ciliata (Pallas)
Fenestrulina malusii (Savigny- Audouin)	Microporella californica (Hincks)
Fenestrulina malusii var. umbonata O'Donoghue	Microporella setiformis O'Donoghue

	Family - EURYSTOMELLIDAE
Eurystomella bilabiata (Hincks)	

	Family - SMITTINIDAE
Smittina landsborovii (Johnston)	Mucronella verticosa (Hassall)
Smittina trispinosa (Johnston)	Mucronella simplicissima Busk
Smittina cellifera (Robertson)	Mucronella variolosa (Johnston)
Smittina cellata (O'Donoghue)	Mucronella parvonella (Alder)
Smittina terquata (O'Donoghue)	Rhamphostomella costata Lorenz
Smittina marsupium (MacGillivray)	Porella major Hincks
Smittina columbiana (O'Donoghue)	Porella bispina O'Donoghue
Mucronella peachii (Johnston)	Porella cribriformis O'Donoghue
Smittina concinna (Busk)	Mucronella fusca O'Donoghue

	Family - RETEPCRIDAE
Phidolopora pacifica (Robertson)	Rhynchozoon bispinosa (Johnston)
Schizellozoon tessellatum (Hincks)	

	Family - HIPPOPODINIDAE
Cheilopora praelonga (Hincks)	Cheilopora praelucida (Hincks)

	Family - PHYLACTELLIDAE
Phylactella pacifica O'Donoghue	Lagenipora spinulosa Hincks
Lagenipora socialis Hincks	Lagenipora erecta O'Donoghue

	Family - CELLEPORIDAE
Cellepora brunnea Hincks	Costazzia incrassata (Lamarck)
Costazzia costazii (Savigny- Audouin)	Costazzia armiger (O'Donoghue)

- Family - MYRIOZOIDAE
 Myriozoum coarctatum Sars Myriozoum tenue O'Donoghue
 Myriozoum sub-gracile d'Orbigny
- Phylum - PHORONIDAE
 Family - PHORONIDAE
 Phoronis vancouverensis Pixell Phoronopsis harmeri Pixell
- Phylum - ECHINODERMATA
 Class - CRINOIDEA
 Family - ANTEDONIDAE
 Psathyrometra profundorum Florometra serratissima Clark
 Clark
- Family - PLICATOCRINIDAE
 Ptilocrinus pinnatus Clark
- Class - ASTEROIDEA
 Order - PHANEROZONIA
 Suborder - PAXILLOSA
 Family - GONIOPECTINIDAE
 Ctenodiscus crispatus (Retzius)
- Family - ASTROPECTINIDAE
 Leptychaster pacificus Fisher
- Family - LUIDIIDAE
 Luidia foliolata Grube
- Suborder - NECTEMYOTA
 Family - BENTHOPECTINIDAE
 Luidiaster dawsoni (Verrill) Benthopecten mutabilis Fisher
- Suborder - VALVATA
 Family - GONIASTERIDAE
 Pseudarchaster parelii alascensis Fisher
 Hippasteria spinosa Verrill
- Mediaster aequalis Stimpson
- Family - PORANIIDAE
 Dermasterias imbricata (Grube)
- Order - SPINULOSA
 Family - ASTERINIDAE
 Patiria miniate (Brandt)

Family - ECHINASTERIDAE

Henricia leviuscula (Stimpson) Henricia aspera Fisher
 Henricia spiculifera (Clark) Henricia longispina Fisher

Family - SOLASTERIDAE

Solaster endeca (Linnaeus) Solaster borealis (Fisher)
 Solaster stimpsoni Verrill Crossaster papposus (Linnaeus)
 Solaster dawsoni Verrill Lophaster furcilliger Fisher

Family - PTERASTERIDAE

Pteraster militaris (Müller) Hymenaster perissonotus Fisher
 Pteraster tessellatus Ives

Order - FORCIPULATA

Suborder - BRISINGINA

Family - BRISINGIDAE

Craterobrisinga synaptoma Astrocles actinodetus Fisher
 Fisher
 Freyella microplax (Fisher)

Suborder - ASTERIADINA

Family - ASTERIIDAE

Stylasterias forreri (de Loriol) Leptasterias hexactis (Stimpson)
 Lethasterias nanimensis Leptasterias hexactis vancouveri
 (Verrill) (Perrier)
 Orthasterias koehleri (de Loriol) Leptasterias polaris katherinae
 (Gray)
 Pycnopodia helianthoides Pisaster brevispinus (Stimpson)
 (Brandt)
 Evasterias troschelii (Stimpson) Pisaster giganteus (Stimpson)
 Leptasterias aequalis (Stimpson) Pisaster ochraceus (Brandt)
 Leptasterias alaskensis mul- Stenasterias macropora (Verrill)
 tispina Fisher

Class - OPHUROIDEA

Order - EURYALAE

Family - ASTEROZYCHIDAE

Asteronyx loveni Müller & Troschel

Family - GORGONOCEPHALIDAE

Gorgonocephalus caryi (Lyman)

Order - OPHIURAE

Family - OPHIACANTHIDAE

Ophiacantha normani Lyman

Family - OPHIACTIDAE

Ophiopholis aculeata (Linnaeus) Ophiopholis bakeri Clendon
 Ophiopholis aculeata var.
 Kennerlyi (Lyman)

Family - AMPHIURIDAE
 Amphiodia occidentalis (Lyman) Amphiodia irtica (Lyman)
 Amphiodia peloria Bush Amphipholis pugetana (Lyman)
 Amphiodia strongyloplax Clark Amphipholis squamata (Delle Chiaja)

Family - OPHIOLEPIDAE
 Amphiophiura superba Lütken & Ophiura lütkenii (Lyman)
 Mortensen
 Ophiocten pacificum Lütken & Ophiura sarsii Lütken
 Mortensen
 Ophiura leptoctenia Clark

Class - ECHINOIDEA

Order - CENTRECHINOIDA

Family - STRONGYLOCENTROTIDAE
 Strongylocentrotus purpuratus Strongylocentrotus droebachiensis Agassiz
 Stimpson
 Strongylocentrotus franciscanus Agassiz

Order - CLYPEASTROIDA

Family - SCUTELLIDAE
 Echinarachnius parma (Lamarck) Dendroster excentricus
 (Eschscholtz)

Order - SPATANGOIDA

Family - HELMATERIDAE
 Brisaster latifrons Agassiz

Class - HOLOTHURIOIDEA

Order - ASPIDOCCHIROTA

Family - HOLOTHURIIDAE
 ✓ Stichopus californicus (Stimpson)

Order - DENDROCHIROTA

Family - CUCUMARIIDAE
 Cucumaria quinquesemita Seleuka ✓ Cucumaria lubrica Clark
 Cucumaria lissoplaca Clark Cucumaria trachyplaca Clark
 ✓ Cucumaria miniata (Brandt) Cucumaria vegae Theel
 Cucumaria piperata (Stimpson) Psolus chitinoides Clark
 Cucumaria populifera (Stimpson) Psolidium bullatum Ohshima

Order - APCDA

Family - SYNAPTIDAE
 Chiridota laevis (Fabricius) Leptosynapta clarki Heding
 Chiridota albatrossi Edwards Leptosynapta transgressor Heding
 Chiridota nanaimensis Heding Leptosynapta roxtona Heding
 ✓ Molpadia intermedia (Ludwig) Leptosynapta inhaerens (Müller)

Phylum - MOLLUSCA

Class - PELECYPODA

Order - NUCULACEA

Family - SOLEMYACIDAE

Solemya johnsoni Dall

Family - NUCULIDAE

Nucula tenuis Montagu

Nucula charlottensis Dall

Nucula tenuis expansa Reeve

Nucula castrensis (Hinds)

Nucula linki Dall

Family - LEDIDAE

Leda cellulita Dall

Yoldia montereyensis Dall

Leda minuta (Fabricius)

Yoldia myalis (Gouthouy)

Leda acuta Conrad

Yoldia limatula (Say)

Leda penderi Dall

Yoldia scissurata Dall

Leda fossa Baird

Yoldia ensifera Dall

Leda extenuata Dall

Yoldia seminuda Dall

Yoldia thraciaeformis (Storer)

Yoldia lanceolata Sowerby

Yoldia beringiana Dall

Malletia faba Dall

Yoldia vancouverensis Smith

Tindaria gibbsii (Dall)

Yoldia martyris Dall

Order - ARCACEA

Family - ARCIDAE

Glycymeris subobsoleta

Glycymeris migueliana Dall

Carpenter

Family - PHILOBRYIDAE

Philobrya setosa (Carpenter)

Order - OSTREACEA

Family - LIMIDAE

Lima subauriculata (Montagu)

Family - OSTREIDAE

Ostrea lurida Carpenter

Ostrea gigas Thunberg

Ostrea virginica Linnaeus

Order - PECTINACEA

Family - PECTINIDAE

✓ *Pecten caurinus* (Gould)

Pecten islandicus (Müller)

Pecten vancouverensis Whiteaves

Pecten hericius (Gould)

Pecten hindsii (Carpenter)

Pecten alaskensis Dall

Pecten hindsii navarchus Dall

Hinnites giganteus Gray

Order - ANOMIACEA

Family - ANOMIIDAE

Pododesmus macroschisma (Deshayes)

Pelecypoda

Order - MYTILACEA *muscle*

Family - MYTILIDAE

- | | |
|----------------------------------|-------------------------------|
| Mytilus californianus Conrad | Modiolaria nigra (Gray) |
| Mytilus edulis Linnaeus | Modiolaria cerrugata Stimpson |
| Modiolus modiolus Linnaeus | Modiolaria taylcri Dall |
| Modiolus flabellatus Gould | Modiolaria marmorata (Forbes) |
| Botula californiensis (Philippi) | Crenella columbiana Dall |
| Modiolaria laevigata (Gray) | Crenella decussata (Montagu) |

Order - PANDORACEA

Family - THRACIIDAE

- | | |
|----------------------------|--------------------------|
| Thracia curta Conrad | Thracia challisiana Dall |
| Thracia trapezoides Conrad | Thracia beringi Dall |

Family - PANDORIDAE

- | | |
|--------------------------|-------------------------|
| Pandora filosa Carpenter | Pandora bilirata Conrad |
| Pandora grandis Dall | Pandora punctata Conrad |
| Pandora glacialis Leach | |

Family - LYONSIIDAE

- | | |
|----------------------------|-----------------------------|
| Lyonsia pugetensis Dall | Lyonsia inflata (Conrad) |
| Lyonsia californica Conrad | Lyonsia scammoni (Dall) |
| Lyonsia gouldii Dall | Mytilimeria nutallii Conrad |
| Lyonsia saxicola (Baird) | |

Order - SEPTIBRANCHIA

Family - CUSPIDARIIDAE

- | | |
|----------------------------------|---------------------------|
| Cuspidaria californica Dall | Cuspidaria cidroydi Dall |
| Cuspidaria pectinata (Carpenter) | Cuspidaria planetica Dall |
| Cuspidaria beringensis Dall | |

Order - LUCINACEA

Family - ASTARTIDAE

- | | |
|----------------------------|--------------------------|
| Astarte compacta Carpenter | Astarte fabula Reeve |
| Astarte alaskensis Dall | Astarte esquimalti Baird |

Family - CARDITIDAE

- | | |
|-------------------------------|-------------------------------|
| Cardita subquadrata Carpenter | Venericardia ventricosa Gould |
| Venericardia prolongata Car- | Oalyptogena pacifica Dall |
| penter | |

Family - THYASIRIDAE

- | | |
|---------------------------------|-----------------------------|
| Axinopsis sericatus (Carpenter) | Thyasira gouldii (Philippi) |
|---------------------------------|-----------------------------|

Family - LUCINIDAE

- | | |
|---------------------------|-------------------------|
| Phacoides annulatus Reeve | Phacoides tenuisculptus |
| | Carpenter |

Family - DIPLODONTIDAE

- | |
|--------------------------|
| Diplodonta orbella Gould |
|--------------------------|

Order - LEPTONACEA

Family - LEPTONIDAE

- | | |
|---|---|
| <i>Kellia laperousii</i> (Deshayes) | <i>Pseudopythina rugifera</i> (Carpenter) |
| <i>Kellia laperousii</i> var. <i>chironii</i> Carpenter | <i>Pseudopythina compressa</i> Dall |
| <i>Kellia suborbicularis</i> (Montagu) | <i>Lasaea rubra</i> (Montagu) |
| <i>Rochefortia tumida</i> Carpenter | <i>Turtonia minuta</i> (Fabricius) |

Order - CARDIACEA

Family - PETRICOLIDAE

Petricola carditoides Conrad

Family - CARDIIDAE

- | | |
|---------------------------------------|--|
| <i>Cardium corbis</i> Martyn | <i>Serripes groenlandicus</i> (Gmelin) |
| <i>Cardium californiense</i> Deshayes | <i>Protocardia centifilosa</i> Carpenter |
| <i>Cardium fucanum</i> Dall | <i>Protocardia centifilosa richardsoni</i> Whiteaves |

Order - VENERACEA

Family - VENERIDAE

- | | |
|---------------------------------------|--|
| <i>Saxidomus giganteus</i> Deshayes | <i>Psephidia tantilla</i> (Gould) |
| <i>Venus kenicottii</i> Dall | <i>Psephidia lordi</i> (Baird) |
| <i>Marcia kennerleyi</i> (Reeve) | <i>Paphia staminea</i> (Conrad) |
| <i>Marcia subdiaphana</i> (Carpenter) | <i>Paphia staminea ruderata</i> Deshayes |
| <i>Liocyma scammoni</i> Dall | <i>Paphia staminea orbella</i> Carpenter |
| <i>Gemma gemma</i> Totten | <i>Paphia tenerrima</i> Carpenter |

Order - TELLINACEA

Family - TELLINIDAE

- | | |
|-------------------------------------|--------------------------------------|
| <i>Macoma brota</i> Dall | <i>Macoma secta</i> Conrad |
| <i>Macoma calcarea</i> (Gmelin) | <i>Macoma liotricha</i> Dall |
| <i>Macoma nasuta</i> Conrad | <i>Macoma carlottensis</i> Whiteaves |
| <i>Macoma inquinata</i> (Deshayes) | <i>Macoma moesta</i> Deshayes |
| <i>Macoma balthica</i> Linnaeus | <i>Tellina salmonea</i> (Carpenter) |
| <i>Macoma inflatula</i> Dall | <i>Tellina modesta</i> (Carpenter) |
| <i>Macoma yoldiformis</i> Carpenter | <i>Tellina carpenteri</i> Dall |
| <i>Macoma alaskana</i> Dall | <i>Tellina buttoni</i> Dall |
| <i>Macoma quandrana</i> Dall | <i>Tellina bodegensis</i> Hinds |

Family - COOPERELLIDAE

Cooperella subdiaphana Carpenter

Family - SEMELIDAE

Semele rubropicta Dall

Family - MACTRIDAE

- | | |
|---------------------------------|---|
| <i>Spisula alaskana</i> Dall | <i>Spisula falcata</i> Gould |
| <i>Spisula planulata</i> Conrad | <i>Schizothaerus nuttallii</i> (Conrad) |

Order - SOLENACEA

	Family - SOLENIDAE	
Solen sicarius Gould		Siliqua patula nuttallii Conrad
Siliqua patula Dixon		

Family - SAXICAVIDAE

Panope generosa Gould		Saxicava pholadis (Linnaeus)
Saxicava arctica (Linnaeus)		

Order - MYACEA

Family - PSALMOBIIDAE

Psammobia californica Conrad	
------------------------------	--

Family - MYACIDAE

Mya arenaria Linnaeus		Cryptomya californica (Conrad)
Mya truncata Linnaeus		Sphenia fragilis (Carpenter)

Order - PHOLADACEA

Family - PHOLADIDAE

Zirfaea gabbi Tryon		Pholadidea ovoidea Gould
Pholadidea penita (Conrad)		Pholadidea rostrata Valenciennes
Pholadidea penita sagitta Stearns		Xylophaga washingtona Bartsch

Family - TEREDINIDAE

Bankia setacea Tryon	
----------------------	--

Class - SCAPHOPODA

Family - DENTALIIDAE

Dentalium rectius Carpenter		Cadulus tolmiei Dall
Dentalium pretiosum Sowerby		Cadulus tolmiei newcombei Pilsbry & Sharp
Cadulus hepburni Dall		Cadulus stearnsii Pilsbry & Sharp
Cadulus aberrans Whiteaves		

Class - GASTROPODA

Order - TECTIBRANCHIA

Family - CAVOLINIIDAE

Clio occidentalis Dall	
------------------------	--

Family - ACTEONIDAE

Acteon punctocoelata vancouverensis Oldroyd	
---	--

Family - ACTEOCINIDAE

Acteocina culcitella (Gould)		Retusa harpa (Dall)
Acteocina eximia Baird		Volvulella cylindrica (Carpenter)
Acteocina oldroydi Dall		

	Family - CHRYSODOMIDAE
Beringius crebricostatus undatus (Dall)	Chrysodomus tabulatus Baird
Beringius kennicottii Dall	Chrysodomus liratus (Martyn)
Exilia rectirostris Carpenter	Chrysodomus phoenicius Dall
Colus morditus Dall	Chrysodomus smirnius Dall
Colus jerdani Dall	Chrysodomus pribiloffensis Dall
Colus dalmasius Dall	Searlesia dira (Reeve)
Colus halimeris Dall	Mohnia frielei Dall
Colus roseus Dall	

	Family - BUCCINIDAE
Buccinum planeticum Dall	Buccinum baeri mörchianum Fisher
Buccinum plectrum Stimpson	Volutharpa ampullacea Middendorff

	Family - ALECTRIONIDAE
Alectron fessatus Gould	Alectrion mendicus Gould

	Family - COLUMBELLIDAE
Columbella tuberosa (Carpenter)	Columbella carinata californica Gaskoin
Columbella tuberosa major Oldroyd	Columbella permodesta Dall
Columbella gausapata Gould	Nitidella gouldii Carpenter
Columbella carinata Hinds	Amphissa columbiana Dall

	Family - MURICIDAE
Purpura foliata Martyn	Trophon multicoelatus Eschscholtz
Tritonalia lurida (Middendorff)	Trophon dalli Kobelt
Tritonalia lurida aspera Baird	Trophon orpheus Gould
Tritonalia lurida munda Carpenter	Trophon stuarti Smith
Tritonalia fraseri Oldroyd	Trophon tenuisculptus Car- penter
Tritonalia interfossa Carpenter	Thais lamellosa Gmelin
Tritonalia barbarentis Gabb	Thais lamellosa hormica Dall
Tritonofusus Jordani Dall	Thais canaliculata (Lucas)
Trophon macouni Dall	Thais emarginata (Deshayes)
Trophon pacificus Dall	<u>Thais lima (Martyn)</u>

	Order - PECTINIBRANCHIA
	Family - EPITONIDAE
Epitonium indianum (Carpenter)	Epitonium crebricostatum (Carpenter)
Epitonium subcrotatum Carpenter	Epitonium wroblewskii (Moerch)
Epitonium samanoi Dall & Bartsch	Epitonium sawinae (Dall)
Epitonium acrostephanum (Dall)	

Family - MELANELLIDAE

Melanella micans Carpenter	Melanella randolphi Vanatta
Melanella micans borealis Bartsch	Melanella columbiana Bartsch
Melanella rutila Carpenter	Melanella macra Bartsch
Melanella oldroydi Bartsch	Melanella comoxensis Bartsch
Melanella ptilocrinicola Bartsch	

Family - PYRAMIDELLIDAE

Turbonilla engbergi Bartsch	Odostomia spreadboroughi (Dall & Bartsch)
Turbonilla vancouverensis (Baird)	Odostomia vancouverensis (Dall & Bartsch)
Turbonilla barkleyensis Bartsch	Odostomia cypria Dall & Bartsch
Turbonilla stylina Carpenter	Odostomia hypatia Dall & Bartsch
Turbonilla victoriana (Dall & Bartsch)	Odostomia barkleyensis (Dall & Bartsch)
Turbonilla newcombei (Dall & Bartsch)	Odostomia cassandra Bartsch
Turbonilla taylori (Dall & Bartsch)	Odostomia angularis (Dall & Bartsch)
Turbonilla aurantia Carpenter	Odostomia columbiana Dall & Bartsch)
Turbonilla pugetensis Bartsch	Odostomia oregonensis Dall & Bartsch
Turbonilla talma (Dall & Bartsch)	Odostomia cumshewaensis Bartsch
Turbonilla valdezi (Dall & Bartsch)	Odostomia tenuisculpta (Carpenter)
Turbonilla pedroana Dall & Bartsch	Odostomia skidegatensis Bartsch
Turbonilla lyalli Dall & Bartsch	Odostomia inflata Dall & Bartsch
Turbonilla macouni (Dall & Bartsch)	Odostomia willetti Bartsch
Turbonilla pesa (Dall & Bartsch)	Odostomia stephensae (Dall & Bartsch)
Turbonilla rinella (Dall & Bartsch)	Odostomia deliciosa (Dall & Bartsch)
Turbonilla lordi (Smith)	Odostomia valdezi (Dall & Bartsch)
Turbonilla eschscholtzi (Dall & Bartsch)	Odostomia kennerleyi (Dall & Bartsch)
Turbonilla serrae (Dall & Bartsch)	Odostomia canfieldi (Dall)
Odostomia pharcida Dall & Bartsch	Odostomia talpa Dall & Bartsch
Odostomia montereyensis Dall & Bartsch	Odostomia enbergi Bartsch
Odostomia quadrae (Dall & Bartsch)	Odostomia grippiana Bartsch
Odostomia youngi (Dall & Bartsch)	

Family - CYMATUDAE

Argobuccinum oregonensis (Redfield)

Family - CERITHIOPSIDAE
Cerithiopsis stephensae Bartsch
Cerithiopsis charlottensis Bartsch
Cerithiopsis onealensis Bartsch
Cerithiopsis signa Bartsch
Cerithiopsis stejneri Dall
Cerithiopsis stejneri dina Bartsch
Cerithiopsis willeti Bartsch
Cerithiopsis fraseri Bartsch
Cerithiopsis columna Carpenter

Family - CERITHIIDAE
Bittium eschrichtti (Middendorff)
Bittium vancouverense Dall & Bartsch
Bittium attenuatum (Carpenter)
Bittium munitum (Carpenter)
Bittium attenuatum boreale Bartsch
Bittium quadrifiliatum Carpenter

Family - TRICHOTROPIDAE
Trichotropis borealis Gould
Trichotropis costellata Couthouy
Trichotropis cancellata Hinds

Family - CAECIDAE
Micranellum barkleyense Bartsch
Micranellum oregonense Bartsch
Fartulum occidentale Bartsch
Caecum crebricinctum Carpenter

Family - VERMETIDAE
Bivoria compacta Carpenter

Family - TURRITELLIDAE
Tachyrhynchus lecteolus (Carpenter)
Turritellopsis acicula Stimpson
Tachyrhynchus reticulatus (Mighels)
 son Dall

Family - LITTORINIDAE
Littorina scutulata Gould
Littorina sitchana Philippi
Littorina rudis (Donovan)

Family - LACUNIDAE
Lacuna porrecta Carpenter
Lacuna divaricata (Fabricius)
Lacuna unifasciata Carpenter
Lacuna solidula Carpenter
Lacuna vineta Montagu
Lacuna carinata Gould
Lacuna variegata Carpenter

Family - FOSSARIDAE
Iselica fenestrata (Carpenter)
Iselica obtusa laxa Dall

Family - PLANAXIDAE
Diala marmorea Carpenter
Diala acuta Carpenter

- Family - RISSOIDAE
 Barleëia sanjuanensis Bartsch Alvania sanjuanensis Bartsch
 Barleëia oldroydi Bartsch Alvania montereyensis Bartsch
 Barleëia haliotiphila Carpenter Alvania compacta (Carpenter)
 Alvania burrardensis Bartsch Alvania filosa Carpenter
- Family - RISSOINIDAE
 Rissolina newcombei Dall
- Family - SYNCERATIDAE
 Syncera translucens (Carpenter)
- Family - HIPPONICIDAE
 Hipponix antiquatus cranioides Carpenter
- Family - CREPIDULIDAE
 Crepidula adunca Sowerby Crepidula nummaria (Gould)
 Crepidula orbiculata Dall Crepidula dorsata Broderip
 Crepidula fimbriata Reeve Crepidula nivea Adams
- Family - CALYPTRAEIDAE
 Calyptraea fastigiata Gould
- Family - NATICIDAE
 Natica clausa Broderip & Sowerby Polinices lewisii Gould
 Natica aleutica Dall Polinices groenlandica (Beck)
 Polinices pallida (Broderip & Sowerby) Polinices draconis Dall
- Family - VELUTINIDAE
 Velutina prolongata Carpenter Velutina laevigata (Linnaeus)
- Family - LAMELLARIIDAE
 Lamellaria stearnsii Dall
- Family - LEPETIDAE
 Lepeta caecoides Carpenter
- Order - ASPIDOBANCHIA
 Family - LEPETIDAE
 Lepeta concentrica (Middendorff)
- Family - ACMAEIDAE *Limpeta*
 Acmaea mitra Eschscholtz Acmaea scutum patina (Eschscholtz)
 Acmaea mitra funiculata Car- Acmaea scutum pintadina Gould
 penter
 Acmaea cassis Eschscholtz Acmaea scutum eribraria Carpenter
 Acmaea cassis pelta (Eschscholtz) Acmaea digitalis Eschscholtz
 Acmaea cassis olympica Dall Acmaea rosacea Carpenter
 Acmaea scutum Eschscholtz Acmaea instabilis Gould
 Acmaea triangularis Carpenter

Family - PHASIANELLIDAE
Phasianella lurida Dall
Phasianella pulloides Carpenter

Family - TURBINIDAE
Astrea inaequalis (Martyn)
Leptothyra carpenteri Pilsbry
Leptothyra bacula (Carpenter)

Family - COCCULINIDAE
Cocculina agassizii Dall

Family - LIOTIIDAE
Molleria quadrae Dall

Family - TROCHIDAE
Ealystylus subpupcoideus (Tryon)
Tegula funebre Adams
Tegula pullige (Martyn)
Tegula pullige taylori Oldroyd
Calliostoma annulatum (Martyn)
Calliostoma variegatum Carpenter
Calliostoma costatum (Martyn)
Calliostoma canaliculatum
 (Martyn)
Cidarina cidaris (Adams)
Cidarina carletta Dall
Solariella peramabilis Carpenter
Solariella varicosa (Mighels & Adams)
Solariella obscura (Couthouy)
Margarites pupilla (Gould)
Margarites parcipicta (Carpenter)
Margarites lirulata (Carpenter)
Margarites lirulata conica
 (Carpenter)
Margarites helicina (Phipps)
Margarites inflatula Dall

Family - VITRINELLIDAE
Vitrinella columbiana Bartsch

Family - SCISSURELLIDAE
Scissurella kelseyi Dall

Family - EALICTIDAE
Ealictis kantschatkana Jones

Family - PUSURELLIDAE
Megatebenrus bimaculatus (Dall)
Diadora aspera Eschscholtz
Puncturella galeata Gould
Puncturella cucullata Gould
Puncturella cooperi Carpenter
Puncturella major Dall

Order - NUDIBRANCHIATA

Section - SACOGLOSSA

Tribe - HOLOHEPATICA

Family - DUVAUCELIIDAE
Sphaerostoma diomedea (Bergh)
Sphaerostoma exsulans (Bergh)
Sphaerostoma tetraquetra (Pallas)
Sphaerostoma undulata O'Donoghue

Family - DORIDIGITATIDAE

Doridigitata maculata O'Donoghue Rostanga pulchra McFarland
 Archidoris montereyensis (Cooper) Diaulula sandiegensis (Cooper)
 Anisodoris nobilis (McFarland) Cadlina flavomaculata McFarland
 Discodoris heathi McFarland Cadlina marginata McFarland
 Discodoris fulva O'Donoghue

Family - EUPHURIDAE

Triopha aurantiaca Cockerell Polycera zosterae O'Donoghue
 Laila cockerelli McFarland

Family - ONCHIDORIDIDAE

Acanthodoris brunnea McFarland Acanthodoris pilosa var.
 albescens Bergh
 Acanthodoris hudsoni McFarland Acanthodoris pilosa var.
 purpurea Bergh
 Acanthodoris nanaimoensis O'Donoghue Acanthodoris armata O'Donoghue
 Acanthodoris atrogriseata O'Donoghue Onchidoris fusca (Müller)
 Acanthodoris pilosa (Abildgaard)

Family - OKENIIDAE

Okenia vancouverensis (O'Donoghue)

Family - AEGIRITIDAE

Aegires albopunctatus McFarland

Tribe - CLADOHEPATICA

Family - ARMINIDAE

Armina californica (Cooper) Armina columbiana O'Donoghue
 Armina vancouverensis (Bergh)

Family - DENDRONOTIDAE

Dendronotus frondosus (Ascanius) Dendronotus giganteus O'Donoghue
 Dendronotus dalli Bergh Dendronotus rufus O'Donoghue

Family - DIRONIDAE

Dirona albilineata McFarland

Family - FIMBRIIDAE

Melibe leonina (Gould)

Family - ZEPHYRINIDAE

Janolus fuscus O'Donoghue

Family - FLABELLINIDAE

Coryphella fusca O'Donoghue Coryphella trilineata O'Donoghue
 Coryphella longicaudata O'Donoghue Eubranchius clivaceus O'Donoghue

Family - AECLIDIIDAE
Cratena columbiana (O'Donoghue) *Aeclidia papillosa* (Linnaeus)
Cuthona concinna O'Donoghue *Hermissenda crassicornis*
 (Eschscholtz)

Family - IDULIIDAE
Idulia columbiana (O'Donoghue)

Section - ASCOGLOSSA
 Family - HERMAEDIDAE
Hermaea vancouverensis O'Donoghue

Order - PULMONATA
 Suborder - BASSOMATOPHORA
 Family - SIPHONARIDAE
Siphonaria tersites Carpenter

Class - PLACOPHORA

Order - POLYPLACOPHORA
 Suborder - EOPLACOPHORA
 Family - LEPIDOPLEURIDAE
Lepidopleurus cancellatus (Sowerby) *Lepidopleurus mesogonus* Dall
Lepidopleurus internexus Carpenter *Lepidopleurus rugatus* (Carpenter)

Suborder - MESOPLACOPHORA
 Family - ISCHNOCHITONIDAE
Ischnochiton fallax Carpenter *Ischnochiton radians* Carpenter
Ischnochiton retiporosus (Carpenter) *Ischnochiton mertensii* (Middendorff)
Ischnochiton retiporosus punctatus Whiteaves *Ischnochiton trifidus* Carpenter
Ischnochiton interstinctus (Gould)

Family - MOPALIIDAE
Mopalia ciliata (Sowerby) *Mopalia muscosa kernerlyi* Carpenter
Mopalia ciliata wcnnessenski (Middendorff) *Mopalia muscosa hindsii* (Reeve)
Mopalia ciliata elevata Pilsbry *Mopalia impercata* Carpenter
~~*Mopalia muscosa* (Gould)~~ *Mopalia sinuata* Carpenter
Mopalia muscosa lignosa Gould *Placiphorella velata* Carpenter
Mopalia muscosa swanii Carpenter

Family - ACANTHOCHITONIDAE
Katherina tunicata (Wood)

Family - CRYPTOCHITONIDAE
Cryptochiton setleri (Middendorff)

Suborder - TELEOPLACOPHORA

Family - LEPIDochITONIDAE

- | | |
|--|---|
| Lepidochitona submarmorea
(Middendorff) | Lepidochitona flectens
(Carpenter) |
| Lepidochitona lineata (Wood) | Lepidochitona raymondi Pilsbry |
| Lepidochitona ruber (Linnaeus) | Lepidochitona hartwegii (Carpenter) |
| Lepidochitona alba (Linnaeus) | Lepidochitona hartwegii nuttallii (Carpenter) |
| Lepidochitona dentiens (Gould) | Nuttallina californica Reeve |

Class - CEPHALOPODA

Order - DIBRANCHIATA

Family - POLYPODIDAE

- | | |
|-------------------------------|-------------------------|
| Polypus hongkongensis (Hoyle) | Polypus leioderma Berry |
|-------------------------------|-------------------------|

Family - SEPIOLIDAE

- | |
|-----------------------|
| Rossia pacifica Berry |
|-----------------------|

Family - LOLIGINIDAE

- | |
|-------------------------|
| Loligo opalescens Berry |
|-------------------------|

Family - OMMASTREPHIDAE

- | |
|-----------------------------------|
| Ommastrephes sagittatus (Lamarck) |
|-----------------------------------|

Family - GONATIDAE

- | |
|---------------------------------|
| Gonatus fabricii (Lichtenstein) |
|---------------------------------|

Family - ONYCHOTEUPHIDAE

- | |
|-------------------------------|
| Onychoteuthis fusiformis Gabb |
|-------------------------------|

Phylum - ARTHROPODA

Class - CRUSTACEA

Subclass - BRANCHIOPODA

Order - CLADOCERA

Family - POLYPHENIDAE

- | | |
|-------------------------|------------------------------|
| Evadne nordmanni Lovén | Podon polyphemoides Leuckart |
| Evadne tergestina Claus | Podon leuckarti Sars |

Subclass - OSTRACODA

Order - MYODOCOPA

Family - CYPRIDINIDAE

- | | |
|----------------------------|----------------------------------|
| Philomedes longiseta Juday | Philomedes trituberculatus Lucas |
|----------------------------|----------------------------------|

Family - CYTHERIDAE

Cythere lutea Müller	Cythereis filoplumosa Lucas
Cythere dunelmensis Normann	Cytherura clathrata Sars
Cythereis longiductus Skogsberg	Macrocythere rostrata Lucas
Cythereis glauca Skogsberg	Xestolebris dispar Müller
Cythereis pacifica Skogsberg	Xestolebris depressa Sars
Cythereis aurita Skogsberg	Loxconcha fragilis Sars
Cythereis montereyensis Skogsberg	Argilloecia cylindrica Sars
Cythereis polita Skogsberg	Argilloecia conoidea Sars
Cythereis arachis Lucas	Cytherois pusilla Sars
Cythereis obesa Lucas	Paradoxostoma cuneata Lucas

Subclass - COPEPODA

Order - EUCOPEPODA

Suborder - CALANOIDA

Family - CALANIDAE

Calanus cristatus Krøyer	Calanus finmarchius (Gunner)
Calanus tonsus Brady	

Family - EUCALANIDAE

Eucalanus elongatus (Dana)

Family - PARACALANIDAE

Paracalanus parvus (Claus)

Family - PSEUDOCALANIDAE

Pseudocalanus elongatus (Boeck) Microcalanus pusillus Sars

Family - AETIDEIDAE

Aetideus armatus (Boeck)	Gaidius pungens Giesbrecht
Chiridius tenuispinus Sars	Euchirella rostrata (Claus)
Gaetanus intermedius Campbell	

Family - EUCHAETIDAE

Euchaeta japonica Marukawa

Family - CENTROPAGIDAE

Centropages memurricchi Willey

Family - TEMORIDAE

Eurytemora hirundoides (Nordquist)	Eurytemora transversalis Campbell
------------------------------------	-----------------------------------

Family - METRIDIIDAE

Metridia longa (Lubbock) Metridia lucens Boeck

Family - CANDACIDAE

Candacia columbiae Campbell

Family - PONTELLIDAE

Paralabidocera amphitrites McMurrich

Family - ACARTIIDAE

Acartia longiremis (Lilljeborg) Tortanus discaudatus (Thompson
& Scott)

Acartia clausi Giesbrecht

Suborder - HARPACTICOIDA

Family - ECTINOSOMIDAE

Microsetella rosea (Dana)

Family - HARPACTICIDAE

Harpacticus uniremis Krøyer Zaus caeruleus Campbell
Tigriopus triangulus Campbell

Family - IDYIDAE

Idya furcata (Baird)

Family - DIOSACCIDAE

Diosaccus spinatus Campbell Amphiascus phyllopus Sars

Suborder - CYCLOPOIDA

Family - CYCLOPIDAE

Oithona spinirostris Claus Oithona helgolandica Claus

Family - ASCOMYZANTIDAE

Ascomyzon rubrum Campbell

Family - CORYCAEIDAE

Corycaeus affinis McMurrich Corycaeus anglicus Lubbock

Family - LICHOMOLOGIDAE

Macrocheiron bargassi Sars

Family - ONCAEIDAE

Oncaea subtilis Giesbrecht Oncaea borealis Sars

Family - ERGASILIDAE

Ergasilus turgidus Fraser Bomalochus cuneatus Fraser

Family - ARGULIDAE

Argulus borealis Wilson Argulus pugettensis Dana

Family - CALIGIDAE

Caligus gurnardi Krøyer Lepeophtheirus salmonis (Krøyer)

Lepeophtheirus nanaimoensis Wilson Lepeophtheirus bifidus Fraser

Lepeophtheirus parvicruris Fraser Lepeophtheirus breviventris Fraser

Lepeophtheirus parviventris Wilson Lepeophtheirus hospitalis Fraser

Lepeophtheirus pravipes Wilson Echthrogaleus coleoptratus (Guerin)

Family - CHONDRACANTHIDAE

Chondracanthus palpifer Wilson Chondracanthus gracilis Fraser
Chondracanthus pinguis Wilson Chondracanthus irregularis
Fraser
Chondracanthus deltoideus Fraser Chondracanthus rectangularis
Fraser Fraser

Family - LERNAEOPODIDAE

Charopinus dentatus (Wilson) Clavellopsis robusta (Wilson)
Clavella parva Wilson Nectobrachia indivisa Fraser
Clavella uncinata (Muller)

Family - LERNAEIDAE

Haemobaphes cycloptertina (Muller)

Family - HERPYLLOBIIDAE

Herpyllobius arcticus Steenstrup & Lütken

Subclass - CIRRIPIEDIA

Order - THORACICA

Family - SCALPELLIDAE

Scalpellum columbianum Pilsbry Scalpellum gruevianum Pilsbry
Scalpellum aurivillii incertum
Pilsbry

Family - LEPADIDAE

Lepas anatifera Linnaeus Conchoderma auritum (Linnaeus)
Lepas hillii Leach Mitella polymerus (Sowerby)
Lepas fascicularis Ellis & Solander

Family - CHTHAMALIDAE

Chthamalus dalli Pilsbry

Family - BALANIDAE

Subfamily - BELANINAE

Balanus balanus (Linnaeus) Balanus rostratus eurostratus
Broch
Balanus cariosus (Pallas) Balanus rostratus heteropus
Pilsbry
Balanus crenatus Bruguière Balanus hesperius Pilsbry
Balanus glandula Darwin Balanus engbergi Pilsbry
Balanus tintinnabulum (Linnaeus) Balanus trigonus Darwin
Balanus nubilus Darwin

Subfamily - CORONULINAE

Coronula diadema (Linnaeus) Coronula regina Darwin
Xenobalanus globicipites Steenstrup

Order - ACROTHORACICA

Mycetomorpha vancouverensis Potts

Order - RHIZOCEPHALA

Family - SACCULINIDAE

Loxothylacus panopaei (Gisslen)

Family - SYLONIDAE

Sylon hippolytes Sars

Subclass - MALACOSTRACA

Order - NEBALIACEA

Family - NEBALIIDAE

Nebalia bipes (Fabricius)

Order - CUMACEA

Family - CHALAROSTYLIDAE

Hemilamprops gracilis Hart

Family - LEUCONIDAE

Leucon fulvus Sars

Eudorella tridentata Hart

Eudorella emarginata (Krøyer)

Eudorella biplicata Calman

Eudorella pacifica Hart

Family - DIASTYLIDAE

Diastylis bidentata Calman

Diastylis pellucida Hart

Diastylis koreana Calman

Diastylopsis dawsoni Smith

Diastylis paraspinulosa Zimmer

Family - LAMPROPIDAE

Lamprops carinata Hart

Lamprops quadriplicata Smith

Lamprops fuscata Sars

Lamprops serrata Hart

Family - NANNASTACIDAE

Cumella vulgaris Hart

Family - CAMPYLASPIDIDAE

Campylaspis rufa Hart

Order - ISOPODA

Suborder - TANOIDEA

Family - TANAIIDAE

Tanaïs loricatus Bate

Paratanais nanaimoensis Fee

Tanaïs normani Richardson

Heterotanaïs melacephala Fee

Leptochelia dubia (Krøyer)

Leptognathia longiremis Sars

Leptochelia filum (Stimpson)

Suborder - CYMOTHOIDEA

Family - LIMNORIIDAE

Limnoria lignorum (Rathke)

Family - CIROLANIDAE

Cirolana chiltoni var. vane

Cirolana harfordi (Lockington)

couverensis Fee

Family - AEGIDAE

- | | |
|--------------------------------|---------------------------------|
| Aega symmetrica Richardson | Rocinela propodialis Richardson |
| Rocinela bellicepts (Stimpson) | Rocinela angustata Richardson |

Family - CYMOTHOIDAE

- Livoneca californica Schoidte & Meinert

Family - SPHAEROMIDAE

- Exosphaeroma oregonensis (Dana)

Suborder - IDOTHECIDEA

Family - IDOTHEIDAE

- | | |
|----------------------------|----------------------------------|
| Idothea ochotensis Brandt | Pentidotea resecata (Stimpson) |
| Idothea fewkesi Richardson | Pentidotea vosnesenskii (Brandt) |
| Idothea rufescens Fee | Synidotea nodulosa (Kröyer) |

Suborder - ASELOIDEA

Family - JANIRIDAE

- Jaera wakishiana Bate Janira maculosa Leach

Family - MUNNIDAE

- Munna kroyeri Goodsir

Suborder - BOPYROIDEA

Family - BOPYRIDAE

- | | |
|------------------------------|----------------------------------|
| Pseudicne galacanthae Hansen | Munidion parvum Richardson |
| Phryxus abdominalis (Kröyer) | Phyllodorus abdominalis Stimpson |
| Ione breviceuda Bonnier | Argeia pugettensis Dana |
| Ione cornuta Bate | Bopyroides hippolytes (Kröyer) |

Suborder - ONISCOIDEA

Family - LIGYDIDAE

- Ligyda pallasii (Brandt)

Family - TRICHONISCIDAE

- Trichoniscus papillicornis Richardson

Order - AMPHIPODA

Suborder - HYPERIIDAE

Family - HYPERIIDAE

- | | |
|----------------------------|----------------------------|
| Hyperia galba (Montagu) | Themisto abyssorum (Boeck) |
| Hyperia medusarum (Muller) | |

Family - PHROSINIIDAE

- Euprimno macropus Guerin

Family - OXYCEPHALIDAE

- Oxycephalus clausi Bovallius

- Suborder - GAMMARIDAE
- Family - LYSIANASSIDAE
Opisa eschrichti Kröyer *Anonyx nugax* (Phipps)
Cyphocaris challenger Stebbing *Orchomenella pinguis* (Boeck)
- Family - AMPELISCIDAE
Ampelisca eschrichti Kröyer - *Haplocops tubicula* Lilljeborg
Ampelisca macrocephala Lilljeborg
- Family - PHAXOCEPHALIDAE
Harpinia affinis Holmes - *Harpinia oculata* Holmes
- Family - LEUCOCHOIDAE
Leucochoe spinicarpa (Abildgaard)
- Family - PARDALISCIDAE
Nicippe tumida (Bruzellius)
- Family - OEDICERATIDAE
Westwoodilla caecula Bate *Monoculodes carinata* Bate
- Family - CALLIOPEIDAE
Calliopus laeviusculus (Kröyer)
- Family - PARAMPHITHOIDAE
Paramphithoe pugettensis (Dana) *Paramphithoe pacifica* Walker
- Family - MELPHIDIPPIDAE
Melphidippa goesi Stebbing
- Family - EUSIRIDAE
Eusirus leptocarpus Sars *Rhachotropis helleri* (Boeck)
Rhachotropis inflata (Sars)
- Family - PONTOGENEIIDAE
Pontogeneia inermis (Kröyer)
- Family - GAMMARIDAE
Melita palmata (Montagu) *Gammarus locusta* (Linnaeus)
Melita dentata (Kröyer) *Gammarus confervicolus* (Stimpson)
Melita fresneli (Audouin) *Gammarus pribilofensis* Pearce
Maera dubia Calman
- Family - TALITRIDAE
Orchestoidea corniculata Staut *Orchestia traskiana* Stimpson
- Family - AORIDAE
Aoroides columbiae Walker

Family - PHOTIDAE

Eurystheus tenuicornis (Holmes) Podoceropsis excavata (Bate)
Eurystheus thompsoni (Walker)

Family - AMPHITHOIDEAE

Amphithoe humeralis Stimpson Amphithoe rubella Dana
Amphithoe lacertosa (Bate) Amphithoe rubricata (Montagu)

Family - JASSIDAE

Ischyrocerus minutus (Lilljeborg)

Family - COROPHIIDAE

Corophium spinicorne Stimpson

Suborder - CAPRELLIDEA

Family - CAPRELLIDAE

Caprella kennerleyi Stimpson Caprella scaura Templeton

Order - EUPHAUSIACEA

Family - EUPHAUSIIDAE

Euphausia pacifica Hansen Thysanoessa raschii Sars
Thysanoessa longipes Brandt Thysanoessa inermis (Kroyer)
Thysanoessa spinifera Holmes Tessarabrachion oculatum Hansen

Order - MYSIDACEA

Family - MYSIDAE

Holmesiella anomala Ortmann Neomysis kadiakensis Ortmann
Pseudomma truncatum Smith Neomysis mercedis Holmes
Pseudomma berkeleyi Tattersall Neomysis columbiae Tattersall
Metherythrops robusta Smith Neomysis macropsis Tattersall
Stelomysis grandis (Goes) Neomysis pseudomacropsis
Tattersall
Neomysis rayii (Murdock) Neomysis sculpta Tattersall
Neomysis franciscorum Holmes Proneomysis waillesi Tattersall

Order - DECAPODA

Suborder - NATANTIA

Family - PENEIDEA

Tribe - PENEIDAE

Gennadus borealis Rathbun

Order - DECAPODA

Suborder - NATANTIA

Family - PASIPHAEIDAE

Tribe - CARIDES

Pasiphaea pacifica Rathbun

Family - OPLOPHORIDAE

Hymenodora frontalis Rathbun

Family - PANDALIDAE

Pandalus borealis Krøyer	Pandalus hypsinotus Brandt
Pandalus goniurus Stimpson	Pandalus stenolepis Rathbun
Pandalus jordani Rathbun	Pandalus danae Stimpson
Pandalus montagui tridens Rathbun	Pandalopsis dispar Rathbun
Pandalus platyceros Brandt	

Family - HIPPOLYTIDAE

Hippolyte californiensis Holmes	Spirontocaris stylus (Stimpson)
Spirontocaris prionota (Stimpson)	Spirontocaris amabilis (Lenz)
Spirontocaris macrondonta Hart	Spirontocaris biunguis Rathbun
Spirontocaris groenlandica (Fabricius)	Spirontocaris paludicola (Holmes)
Spirontocaris lamellicornis (Dana)	Spirontocaris moseri Rathbun
Spirontocaris snyderi Rathbun	Spirontocaris layi (Owen)
Spirontocaris bispinosa Holmes	Spirontocaris suckleyi (Stimpson)
Spirontocaris phippisii (Krøyer)	Spirontocaris kincaidi Rathbun
Spirontocaris murchisoni Rathbun	Spirontocaris townsendi Rathbun
Spirontocaris arcuata Rathbun	Spirontocaris macrophthalma Rathbun
Spirontocaris spina (Sowerby)	Spirontocaris sitchensis (Brandt)
Spirontocaris barbata Rathbun	Spirontocaris avina Rathbun
Spirontocaris gracilis (Stimpson)	Spirontocaris brevirostris (Dana)
Spirontocaris tridens Rathbun	

Family - CRAGONIDAE

Crago franciscorum angustimana (Rathbun)	Crago munitella (Walker)
Crago nigricauda Stimpson	Sclerocrangon alata Rathbun
Crago alaskensis (Lockington)	Nectocrangon lar (Owen)
Crago alaskensis elongata (Rathbun)	Nectocrangon dentata Rathbun
Crago alba (Holmes)	Nectocrangon alaskensis Kingsley
Crago abyssorum (Rathbun)	Nectocrangon crassa Rathbun
Crago intermedia (Stimpson)	Nectocrangon levior Rathbun
Crago stylirostris (Holmes)	Paracrangon echinata Dana
Crago munita (Dana)	

Suborder - REPTANTIA

Family - GALATHEIDAE

Tribe - ANCMURA

Munida quadrispina Benedict

Family - PORCELLANIDAE

Petrolisthes cinctipes (Randall)	Pachycheles rudis Stimpson
Petrolisthes eriomerus Stimpson	

Family - CALLIANASSIDAE

Upogebia pugettensis (Dana) Callianassa gigas Dana
 Callianassa californiensis Dana

Family - PAGURIDAE

Pagurus alaskensis (Benedict) Pagurus setosus (Benedict)
 Pagurus aleuticus (Benedict) Pagurus hirsutiussculus (Dana)
 Pagurus ochotensis Brandt Pagurus granosimanus (Stimpson)
 Pagurus brandti (Benedict) Pagurus tenuimanus (Dana)
 Pagurus dalli (Benedict) Pagurus splendescens Owen
 Pagurus cornutus (Benedict) Paguristes turgidus (Stimpson)
 Pagurus gilli (Benedict) Parapagurus mertensii (Brandt)
 Pagurus beringanus (Benedict) Orthopagurus minimus (Holmes)
 Pagurus kennerlyi (Stimpson) Orthopagurus schmitti (Stevens)

Family - LITHODIDAE

Hapalogaster mertensii Brandt Lopholithodes foraminatus
 (Stimpson)
 Oedignathus inermis (Stimpson) Rhinolithodes wosnessenskii
 Brandt
 Acantholithodes hispidus Paralithodes rostrifalcatus
 (Stimpson) MacKay
 Placetron wosnessenskii Paralithodes camtschatica
 Schalfeew Tilesius
 Cryptolithodes sitchensis Brandt Paralomis multispina (Benedict)
 Cryptolithodes typicus Brandt Phyllolithodes papillosus
 Lopholithodes mandtii Brandt Brandt

Tribe - BRACHYURA

Superfamily - OXYRHYNCHA

Family - INACHIDAE (MAIIDAE)

Subfamily - INACHINAE

Oregonia gracilis Dana

Subfamily - ACANTHONYCHINAE

Pugettia producta Randall
 Pugettia gracilis Dana

Pugettia richii Dana
 Mimulus foliatus Stimpson

Subfamily - PISINAE

Scyra acutifrons Dana
 Chorilia longipes Dana
 Chionoecetes bairdi Rathbun

Chionoecetes angulatus Rathbun
 Hyas lyratus Dana

Superfamily - BRACHYRHYNCHA

Family - ATELECYCLIDAE

Telmessus cheiragonus (Tilesius)

Family - CANCRIDAE

Cancer productus Randall
 Cancer branneri Rathbun
 Cancer gracilis Dana

Cancer magister Dana
 Cancer oregonensis (Dana)

Family - XANTHIDAE
Lophopanopeus bellus (Stimpson)

Family - PINNOTHERIDAE
Subfamily - PINNOTHERINAE
Pinnotheres pugettensis Holmes Pinnotheres taylori Rathbun
Pinnotheres concharum (Rathbun) Fabia subquadrata Dana

Subfamily - PINNOTHERELIINAE
Pinnixa faba (Dana) Pinnixa schmitti Rathbun
Pinnixa littoralis Holmes Pinnixa tubicola Holmes
Pinnixa occidentalis Rathbun Scleroplax granulata Rathbun

Family - GRAPSIDAE
Hemigrapsus nudus (Dana) Hemigrapsus oregonensis (Dana)

Class - INSECTA

Order - DIPTERA

Family - TIPULIDAE
Dicranomyia signipennis Coquillett

Family - CHIRONOMIDAE
Camptocladius pacificus Saunders Camptocladius clavicornis
Saunders
Camptocladius marinus Saunders Paraclunio alaskensis (Coquillett)

Family - DOLICHOPODIDAE
Aphrosylus praedator Wheeler

Family - PHORIDAE
Megaselida ursina Malloch

Family - GEOMYZIDAE
Tethina rostrata Hendel

Family - EPHYDRIDAE
Scatella stagnalis Fallen

Family - HELOMYZIDAE
Heteromyza glauca Coquillett

Family - ANTHOMYIDAE
Fucellia fucorum Fallen

Order - COLEOPTERA

Family - STAPHYLINIDAE
Liparcephalus brevipennis Dialote densissima Casey
Maklin

Phylum - CHORDATA

Subphylum - TUNICATA

Order - ASCIDIACEA

Family - PEROPHORIDAE

Perophora annectens Ritter

Family - AGENSIIDAE

Agnesia septentrionalis Huntsman

Family - CIONIDAE

Ciona intestinalis (Linnaeus)

Family - PHALLUSIIDAE

Ascidiopsis columbiana Huntsman Ascidiopsis nanaimoensis
Huntsman

Ascidiopsis paratropa Huntsman Phallusia ceratodes Huntsman

Family - CHELYOSOMATIDAE

Corella willmeriana Herdman

Chelyosoma productum Stimpson

Corella rogusa Huntsman

Chelyosoma columbianum Huntsman

Corella inflata Huntsman

Family - CAESIRIDAE

Caesira apoploa Huntsman

Caesira cooperi Huntsman

Caesira hecateia Huntsman

Rhizomolgula globularis (Pallas)

Caesira pacifica Huntsman

Family - STYELIDAE

Metandrocarpa dermatina Huntsman Styela yakutatensis Ritter

Metandrocarpa taylori Huntsman Styela gibbsii (Stimpson)

Katatropa vancouverensis
Huntsman

Goniocarpa coccodes Huntsman

Katatropa ucluelensis
HuntsmanPelonaia corrugata Goodsir &
Forbes

Styela montereyensis (Dall)

Cnemidocarpa joannae (Herdman)

Class - ARACHNOIDEA

Order - PYCNOGONIDA

Family - PHOXICHILIDIIDAE

Phoxichilidium femoratum (Rathke)

Family - PYCNOGONIDAE

Pycnogonum stearnsi Ives

Family - HALOCYNTHIIDAE

Holtenia arctica (Hartmeyer)

Halocynthia aurantium (Pallas)

Halocynthia villosa (Stimpson)

Halocynthia washingtonia Ritter

Halocynthia haustor (Stimpson)

Halocynthia igaboja (Oka)

Order - THALIACEA

Family - SALPIDAE

Cyclosalpa affinis (Chamisso) Salpa fusiformis Cuvier
 Cyclosalpa pinnata (Forsk.) Salpa maxima Forskal
 Iasis zonaria (Pallas) Salpa mucronata Forskal
 Thetys vagina Tilesius

Phylum - ENTEROPNEUSTA

Order - BALANOGLOSSIDA

Glossobalanus berkeleyi Willey

Subphylum - VERTEBRATA

Class - MARSIPOBRANCHII

Order - HYPEROTRETA

Family - EPTATRETIDAE

Pelistotrema stouti (Lockington)

Order - HYPEROARTIA

Family - PETROMYZONIDAE

Erteosphenus tridentatus (Cairdner)

Class - PLASMOBRANCHII

Subclass - SELACHII

Order - NOTIDANI

Family - HEXANCHIDAE

Hexanchus griseus (Bonnaterre) Nectorhynchus maculatus Ayres

Order - EUSELACHII

Family - SCYLLICRHINIDAE

Scylliorhinus brunneus (Gilbert)

Family - GALEIDAE

Prionace glauca (Linnaeus) Galeorhinus zyopterus Jordan & Gilbert

Family - LAMNIDAE

Lamna nasus (Bonnaterre)

Order - TECTOSPONDYLI

Family - SQUALIDAE

Squalus suckleyi (Girard)

Family - SOMNISCIDAE

Somniosus microcephalus (Bloch & Schneider)

Order - BATOIDEI

Suborder - SARCURA

Family - RAJIDAE

Raja rhina Jordan & Gilbert Raja stellulata Jordan & Gilbert
Raja binoculata Girard Raja abyssicola Gilbert

Suborder - Narcaciontes

Family - TORPEDINIDAE

Tetranarce californica (Ayres)

Suborder - MASTICURA

Family - DASYATIDAE

Dasyatis depterura Jordan & Gilbert

Subclass - HOLOCEPHALI

Order - CHIMAEROIDEI

Family - CHIMAERIDAE

Hydrolagus colliei (Lay & Bennett)

Class - TELEOSTOMI

Subclass - ACTINOPTERI

Superorder - GANOIDEI

Order - GLANIOSTOMI

Family - ACIPENSERIDAE

Acipenser acutirostris Ayres Acipenser transmontanus
Richardson

Superorder - TELEOSTEI

Order - ISOSPONDYLI

Suborder - CLUPECIDEI

Family - CLUPEIDAE

Clupea pallasii Cuvier & Alosa sapidissima (Wilson)
Valenciennes
Sardinops caerulea (Girard)

Family - ENGRAULIDAE

Engraulis mordax Girard

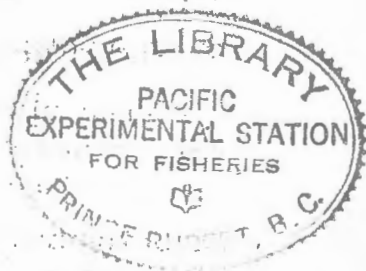
Suborder - SALMONOIDEI

Family - SALMONIDAE

Oncorhynchus gorbusha (Walbaum) Salmo salar Linnaeus
Oncorhynchus keta (Walbaum) Salmo trutta Linnaeus
Oncorhynchus kisutch (Walbaum) Salmo clarkii Richardson
Oncorhynchus nerka (Walbaum) Salmo gairdneri Richardson
Oncorhynchus tshawytscha Salvelinus malma spectabilis
(Walbaum) (Girard)

Family - OSMERIDAE

Mallotus villosus (Müller) Hypomesus pretiosus (Girard)
Thaleichthys pacificus (Richardson)



Family - BATHYLAGIDAE

Bathylagus milleri Jordan & Gilbert

Suborder - STOMIATICIDEI

Family - CHAULIODONTIDAE

Chauliodus macouni Bean

Order - APODES

Family - NEMICHTHYIDAE

Nemichthys avocetta Jordan and Gilbert

Order - INIOLI

Family - MYCTOPHIDAE

Lampanyctus nanochir Gilbert Myctophum californiense Eigenmann
& EigenmannDiaphus theta Eigenmann & Tarletonbeania crenularis (Jordan
& Eigenmann & Gilbert)

Family - ALEPISAURIDAE

Alepisaurus borealis (Gill)

Order - SYMPTOGNATHI

Family - SCOMBERESOCIDAE

Colclabis saira (Brevoort)

Order - ANACANTHINI

Family - MACROURIDAE

Dolba cyclolepis (Gilbert) Chalinura filifera Gilbert
Coryphaenoides acrolepis (Bean)

Family - GADIDAE

Theragra chalcogramma (Pallas) Gadus macrocephalus Tilesius
Microgadus proximus (Girard) Antimora microlepis Bean

Family - MERLUCIIDAE

Merluccius productus (Ayres)

Order - ALLOTRIOPHATHI

Family - TRACHYPTERIDAE

Trachypterus rex-salmonorum Jordan & Gilbert

Order - HETEROSOMATA

Family - BOTHIDAE

Citharichthys sordidus (Girard) Citharichthys stigmaeus Jordan
& Gilbert

Family - HIPPOGLOSSIDAE

Atheresthes stomias (Jordan & Gilbert) Lycopsetta exilis (Jordan &
& Gilbert) Gilbert)Hippoglossus hippoglossus (Linnaeus) Hippoglossoides elassodon Jordan
& Gilbert

Psettichthys melanostictus Girard Eopsetta jordani (Lockington)

Family - PLEURONECTIDAE
 Pleuronichthys decurrens Jordan Isopsetta isolepis (Lockington)
 & Gilbert
 Pleuronichthys coenosus Girard Limanda aspera (Pallas)
 Parophrys vetulus Girard Microstomus pacificus (Lockington)
 Platichthys stellatus (Pallas) Errex zachirus (Lockington)
 Lepidopsetta bilineata (Ayres)

Superorder - ACANTHOPTERYGII

Order - THORACOSTEI

Suborder - HEMIBRANCHII

Family - GASTEROSTEIDAE

Gasterosteus aculeatus Linnaeus

Family - AULORHYNCHIDAE

Aulorhynchus flavidus Gill

Suborder - LOPHOBRANCHII

Family - SYNGNATHIDAE

Syngnathus griseolineatus Ayres

Order - PERCOMORPHI

Suborder - PERCESOCES

Family - SPHYRAENIDAE

Sphyraena argentea Girard

Suborder - RHEGNOPTERI

Family - SCOMBRIDAE

Pneumatophorus diego (Ayres) Sarda chilensis (Cuvier & Valenciennes)

Family - TRICHIURIDAE

Benthodesmus atlanticus Goode & Bean

Family - BRAMIDAE

Brama raii (Bleek)

Family - STROMATEIDAE

Peprilus simillimus (Ayres)

Family - ICOSTEIDAE

Icosteus aenigmaticus Lockington

Family - ACROTIDAE

Acrotus willoughbyi Bean

Family - SCIAENIDAE

Atractoscion nobilis (Ayres)

Family - TRICHODONTIDAE

Trichodon trichodon (Tilesius)

Order - CATAPHRACTI

Family - SCORPAENIDAE

Sebastocobus alascarus Bean	Sebastodes diploproa (Gilbert)
Sebastodes paucispinis (Ayres)	Sebastodes ruberrimus Cramer
Sebastodes malanops (Girard)	Sebastodes elongatus (Ayres)
Sebastodes pinniger (Gill)	Sebastodes auriculatus (Girard)
Sebastodes proriger (Jordan & Gilbert)	Sebastodes caurinus (Richardson)
Sebastodes brevispinis (Beans)	Sebastodes maliger (Jordan & Gilbert)
Sebastodes wilsoni Gilbert	Sebastodes nebulosus (Ayres)
Sebastodes alutus (Gilbert)	Sebastodes nigrocinctus (Ayres)
Sebastodes saxicola (Gilbert)	

Family - HEXAGRAMMIDAE

Subfamily - ANOPLOPCOMIDAE

Anoplomena fibraria (Pallas)	Erilepis zonifer (Lockington)
------------------------------	-------------------------------

Subfamily - HEXAGRAMMIDAE

Chiropsis decagrammus (Pallas)	Hexagrammos stelleri Tilesius
Hexagrammos superciliosus (Pallas)	

Subfamily - OPHIODONTIDAE

Ophiodon elongatus Girard

Subfamily - OXYLEBIIDAE

Oxylebius pictus Gill

Subfamily - ZANIOLEPIDAE

Zaniolepis latipinnis Girard

Family - COTTIDAE

Subfamily - JORDANIINAE

Jordania zenope Starks

Subfamily - ICELINAE

Chitonctus pugetensis (Steindachner)	Artedius lateralis (Girard)
Tarandichthys filamentosus (Gilbert)	Triglops beari Gilbert
Tarandichthys tenuis (Gilbert)	Stelgidonctus latifrons Gilbert & Thompson
Icelinus borealis Gilbert	Radulinus asprellus Gilbert
Astrolytes fenestralis (Jordan & Gilbert)	Prionistius macellus Bear
Pterygocottus maccuri Bean & Weed	Hemilepidctus hemilepidctus (Tilesius)
Axyrius harringtoni Starks	Aspicottus bison Girard

Subfamily - BLEPSIINAE

Blepsias cirrhosus (Pallas)	Nautichthys oculofasciatus (Girard)
-----------------------------	-------------------------------------

Subfamily - SCORPAENICHTHYINAE

Scorpaenichthys marmoratus (Ayres)

Subfamily - COTTINAE

Cottus asper Richardson

Oligocottus maculosus Girard

Cottus aleuticus Gilbert

Dialarchus snyderi (Greeley)

Myxoccephalus polyacanthocephalus

(Pallas)

Oxycottus acuticeps (Gilbert)

Malacocottus zonurus Bean

Allcottus embryum (Jordan & Starks)

Malacocottus kincaidii Gilbert
& Thompson

Rusciculus rimensis Greeley

Leptocottus armatus Girard

Blennicottus globiceps (Girard)

Asemichthys taylori Gilbert

Dasycottus setiger Bean

Subfamily - ASCELICHTHYINAE

Ascelichthys rhodorus Jordan & Gilbert

Subfamily - PSYCHROLUTINAE

Psychrolutes paradoxus Gunther

Gilbertidia sigclutes (Jordan & Starks)

Subfamily - SYNCHIRINAE

Synchirus gilli Bean

Family - RHAMPHOCOTTIDAE

Rhamphocottus richardsoni Gunther

Family - AGONIDAE

Hypsagonus quadricornis (Cuvier
& Valenciennes)Asterotheca pentacantha
(Gilbert)

Pallasina aix Starks

Asterotheca alascana (Gilbert)

Podothecus acipenserinus
(Tilesius)Asterotheca infraspinata
(Gilbert)Averruncus emmelane Jordan &
Starks

Xenopyxis latifrons (Gilbert)

Bathyagonus nigripinnis Gilbert

Odontopyxis trispinosus (Lockington)

Xeneretmus triacanthus (Gilbert)

Bothragonus swanii (Steindach-

Xystes axinophrys Jordan & Starks

ner)

Family - ASPIDOPHOROIDIDAE

Aspidophoroides inermis Gunther

Family - CYCLOPTERIDAE

Eumicrotremus orbis (Gunther)

Family - LIPARIDAE

Polypera greeni (Jordan & Starks)

Liparis pulchellus Ayres

Liparis rutteri (Gilbert & Snyder)

Careproctus ovigerum (Gilbert)

Liparis callyodon (Pallas)

Careproctus gilberti Burke

Liparis cyclopus Gunther

Careproctus melanurus Gilbert

Liparis fucensis Gilbert

Paraliparis deani Burke

Liparis dennyi Jordan & Starks

Order - **HOLCONOTI**
 Family - **EMBICTOCIDAE**

Cymatogaster aggregatus Gibbons *Phanerodon furcatus* Girard
Brachyistius frenatus Gill *Damalichthys vacca* Girard
Taeniotoxa lateralis (Agassiz)

Order - **GOBLOIDEA**

Family - **GOBIIDAE**

Rhinogobio nichielsii (Bean) *Gillichthys mirabilis* Cooper
Lepidogobius lepidus (Girard) *Clevelandia ios* (Jordan & Gilbert)

Order - **DISCOCEPHALI**

Family - **ECHENEIDAE**

Echeneis remora Linnaeus

Order - **JUGULARES**

Family - **AMMODYTIDAE**

Ammodytes tobianus personatus Girard

Family - **BATHYMASTERIDAE**

Bathymaster signatus Cope *Ronquilus jordani* (Gilbert)

Family - **ZAPRORIDAE**

Zaprora silenus Jordan

Family - **CLINIDAE**

Gibbensia elegans (Cooper) *Heterostichus rostratus* Girard

Family - **BLENNIDAE**

Subfamily - **PHOLIDAE**

Bryostemma nugarator Jordan & Williams *Pholis ornatus* (Girard)

Bryostemma decoratum Jordan & Snyder *Ancplarchus purpureus* Gill

Apodichthys flavidus Girard *Plectobranhus evides* Gilbert

Xerorpes fucorum (Jordan & Gilbert) *Allolumpenus hypochromus* Hubbs & Schultz

Subfamily - **XIPHISTERIDAE**

Xiphister muccus (Girard) *Phytichthys phirus* (Jordan & Gilbert)

Epigeichthys atropurpureus (Kittlitz)

Family - **LUMPENIDAE**

Peroclinus rothrocki Bean *Lumpenus anguillaris* (Pallas)

Family - **PTILICHTHYIDAE**

Ptilichthys goodei Bean

Family - **CRYPTACANTHODIDAE**

Delclepis giganteus Kittlitz

Family - ANARRHICHTHYIDAE
Anarrhichthys ocellatus Ayres

Family - ZOARCIDAE
Lycodopsis pacificus (Collett) Furcimanus diapterus (Gilbert)
Lycodes brevipes Bean Lycogramma brunnea (Bean)
Lycodalepis polaris (Sabine) Bothrocara mollis Bean
Lycodapus fierasfer Gilbert

Family - DEREPODICHTHYIDAE
Derepodichthys alepidotus Gilbert

Family - BATRACHOIDIDAE
Porichthys notatus Girard

Order - XENOPTERYGII
Family - GOBIESOCIDAE
Caularchus maeandricus (Girard)

Order - PLECTOGNATHI
Family - MOLIDAE
Mola mola (Linnaeus)

Class - REPTILIA
Order - TESTUDINATA
Family - DERMOCHELIDAE
Dermochelys schlegelli Garman

Class - AVES
Family - GAVIIDAE
Gavia immer ellason Bishop Gavia arctica viridigularis
Dwight
Gavia adamsi (Gray) Gavia stellata (Pontoppidan)
Gavia arctica pacifica (Lawrence)

Family - COLYMBIDAE
Colymbus grisegena holboelli Aechmophorus occidentalis
(Reinhardt) (Lawrence)
Colymbus auritus Linnaeus Podilymbus podiceps podiceps
(Linnaeus)

Family - DIOMEDEIDAE
Diomedea nigripes Audubon Diomedea albatrus Pallas

Family - PROCELLARIIDAE
Puffinus tenuirostris (Temminck) Puffinus creatopus Coues
Puffinus griseus (Gmelin) Fulmarus glacialis rogersi
Cassin
Puffinus opisthomelas Coues

Family - HYDROBATIDAE

Oceanodroma furcata (Gmelin) Oceanodroma leucorhoa beali
Emerson

Family - PELICANIDAE

Pelecanus erythrorhynchos Gmelin Pelecanus occidentalis calif-
ornicus Ridgway

Family - PHALACROCORACIDAE

Phalacrocorax auritus cincinatus Phalacrocorax pelagicus pela-
(Brandt) gicus Pallas
Phalacrocorax auritus alboci- Phalacrocorax pelagicus res-
liatus Ridgway plendens Audubon
Phalacrocorax penicillatus (Brandt)

Family - ARDEIDAE

Ardea herodias fannini Chapman

Subfamily - BOTAURINAE

Botaurus lentiginosus (Montagu)

Family - ANATIDAE

Subfamily - CYGNINAE

Cygnus columbianus (Ord) Cygnus buccinator Richardson

Subfamily - ANSERINAE

Branta canadensis canadensis Branta nigricans (Lawrence)
(Linnaeus)
Branta canadensis occidentalis Philacte canagica (Sevastianoff)
(Baird)
Branta canadensis leucopareia Anser albifrons albifrons
(Brandt) (Scopoli)
Branta canadensis minima Chen hyperborea hyperborea
Ridgway (Pallas)
Branta bernicla hrota (Muller) Chen rossi (Cassin)

Subfamily - DENDROCYGNINAE

Dendrocygna bicolor helva Wetmore & Peters

Subfamily - ANATINAE

Anas platyrhynchos platyrhynchos Nettion carolinense (Gmelin)
Linnaeus
Chaulelasmus streperus (Linnaeus) Querquedula discors (Linnaeus)
Mareca penelope (Linnaeus) Querquedula cyanoptera (Viellot)
Mareca americana (Gmelin) Spatula clypeata (Linnaeus)
Dafila acuta tzitzihua (Viellot) Aix sponsa (Linnaeus)

Subfamily - NYROCINAE
 Nyroca americana (Eyton) Charitonetta albeola (Linnaeus)
 Nyroca collaris (Donovan) Clangula hyemalis (Linnaeus)
 Nyroca valisineria (Wilson) Histrionicus histrionicus
 pacificus Brooks
 Nyroca marila (Linnaeus) Melanitta deglandi (Bonaparte)
 Nyroca affinis (Eyton) Melanitta perspicillata
 (Linnaeus)
 Glaucionetta clangula ameri- Oidemia americana Swainson
 cana (Bonaparte)
 Glaucionetta islandica (Gmelin)

Subfamily - ERISMATURINAE
 Erismatura jamaicensis rubida (Wilson)

Subfamily - MERGINAE
 Lophodytes cucullatus (Linnaeus) Mergus serrator Linnaeus
 Mergus merganser americanus Cassin

Family - GRUIDAE
 Grus canadensis canadensis Grus canadensis tabida (Peters)
 (Linnaeus)

Family - RALLIDAE
 Rallus limicola limicola Vieillot Porzana carolina (Linnaeus)

Subfamily - FULICINAE
 Fulica americana americana Gmelin

Family - HAEMATOPODIDAE
 Haematopus bachmani Audubon

Family - CHARADRIIDAE
 Subfamily - CHARADRIINAE
 Charadrius semipalmatus Pluvialis dominica fulva
 (Bonaparte) (Gmelin)
 Oxyechus vociferus vociferus Squatarola squatarola
 (Linnaeus) (Linnaeus)
 Pluvialis dominica dominica (Müller)

Subfamily - APHRIZINAE
 Aphriza virgata (Gmelin)

Subfamily - ARENARIINAE
 Arenaria interpres interpres Arenaria melanocephala
 (Linnaeus) (Vigors)
 Arenaria interpres morinella
 (Linnaeus)

Family - SCOLOPACIDAE
 Subfamily - SCOLOPACINAE
 Capella delicata (Ord)

Subfamily - NUMENIINAE

Numenius americanus occidentalis Woodhouse	Tringa solitaria cinnamomea (Brewster)
Phaeopus hudsonicus (Latham)	Heteroscelus incanus (Gmelin)
Batramia longicauda (Bechstein)	Catoptrophorus semipalmatus inornatus (Brewster)
Actitis macularia (Linnaeus)	Totanus melanoleucus (Gmelin)
Tringa solitaria solitaria Wilson	Totanus flavipes (Gmelin)

Subfamily - CALIDRIDIINAE

Calidris canutus rufus (Wilson)	Limnodromus griseus scolopaceus (Say)
Arquatella ptilocnemis couesi Ridgway	Ereunetes pusillus (Linnaeus)
Pisobia acuminata (Horsfield)	Ereunetes maurii Cabanis
Pisobia melanotos (Viellot)	Tryngites subruficollis (Viellot)
Pisobia bairdi (Coues)	Limosa fedoa (Linnaeus)
Pisobia minutilla (Viellot)	Crocethia alba (Pallas)
Pelidna alpina sakhalina (Viellot)	

Subfamily - RECURVIROSTRIDAE

Recurvirostra americana Gmelin

Family - PHALAROPODIDAE

Phalaropus fulicarius (Linnaeus) Lobipes lobatus (Linnaeus)

Family - STERCORARIIDAE

Stercorarius pomarinus
(Temminck) Stercorarius longicaudus Viellot
Stercorarius parasiticus
(Linnaeus) Catharacta chilensis (Bonaparte)

Family - LARIDAE

Larus hyperboreus Gunnerus Larus canus brachyrhynchus
Richardson
Larus glaucescens Naumann Larus philadelphia (Ord)
Larus occidentalis occidentalis Larus heermanni Cassin
Audubon
Larus argentatus smithsonianus Rissa tridactyla pollicaris
Coues Ridgway
Larus argentatus thayéri Brooks Xema sabini (Sabine)
Larus argentatus vegea Palmen Sterna hirundo hirundo Linnaeus
Larus californicus Lawrence Sterna paradisea Brunnich
Larus delawarensis Ord Childonias nigra surinamensis
(Gmelin)

Family - ALCIDAE

Subfamily - ALCINAE

Uria aalge californica (Bryant) Synthliboramphus antiquus (Gmelin)
Cepphus columba Pallas Ptychoramphus aleutica (Pallas)
Brachyramphus marmoratus Cerorhinca monocerata (Pallas)
(Gmelin)

Subfamily - FRATERCULINAE

Fratercula corniculata (Naumann) *Lunda cirrhata* (Pallas)

Class - MAMMALIA

Order - CETACEA

Family - DELPHINIDAE

Delphinus delphis Linnaeus *Globiocephalus scammonii* Cope
Phocaena phocaena (Linnaeus) *Orcinus rectipinna* (Cope)
Lagenorhynchus obliquidens Gill *Orcinus ater* (Cope)

Family - PHYSETERIDAE

Physeter macrocephalus Linnaeus

Family - BALAENIDAE

Balaenoptera velifera Cope *Balaena sieboldii* Gray
Balaenoptera davidsoni Scammon *Rhachianectes glaucus* (Cope)
Balaenoptera borealis Lesson *Megaptera versabilis* Cope
Balaenoptera sulphureus (Cope)

Order - PINNIPEDIA

Family - PHOCIDAE

Phoca richardii (Gray)

Family - OTURIIDAE

Callorhinus alascanus Jordan *Eumetopius stelleri* (Lesson)
 & Clark

Family - MUSTELIDAE

Enhydra lutris (Linnaeus)

Division - THALLOPHYTA

Class - DIATOMALES

Order - CENTRICEAE

Suborder - DISCOIDEAE

Family - COSCINODISCEAE

<i>Melosira moniliformis</i> (Müller)	<i>Thalassiosira subtilis</i> (Ostenfeld)
<i>Melosira juergensi</i> Agardh	<i>Cyclotella striata</i> (Kützting)
<i>Melosira nummuloides</i> (Dillwyn)	<i>Ethmodiscus zodiacus</i> Ehrenberg
<i>Melosira sulcata</i> (Ehrenberg)	<i>Coscinodiscus excentricus</i> Ehrenberg
<i>Melosira dubia</i> Kützting	<i>Coscinodiscus curvatulus</i> Grunow
<i>Melosira sol</i> (Ehrenberg)	<i>Coscinodiscus angstii</i> Gran
<i>Melosira undulata</i> (Ehrenberg)	<i>Coscinodiscus angstii</i> var. <i>granulomarginata</i> Gran
<i>Hyalodiscus subtilis</i> Bailey	<i>Coscinodiscus stellaris</i> Roper
<i>Hyalodiscus stelliger</i> Bailey	<i>Coscinodiscus radiatus</i> Ehrenberg
<i>Stephanopyxis palmeriana</i> (Greville)	<i>Coscinodiscus centralis</i> var. <i>pacifica</i> Gran

	Family - COSCINODISCEAE (Cont'd.)
Stephanopyxis nipponica Gran & Yendo	Coscinodiscus granii Gough
Skeletonema costatum (Greville)	Coscinodiscus subbuliens Joergensen
Cosinosira polychorda (Gran)	Coscinodiscus concinnus (Smith)
Thalassiosira nordenskiöldi Cleve	Coscinodiscus wailesi Gran
Thalassiosira aestivalis Gran	Coscinodiscus divinus Grunow
Thalassiosira decipiens (Grunow)	Coscinodiscus kutzingi Schmidt
Thalassiosira pacific Gran	Coscinodiscus rothii (Ehrenberg)
Thalassiosira rotula Meunier	Coscinodiscus marginatus Ehrenberg
Thalassiosira condensata Cleve	Coscinodiscus perforatus Ehrenberg
Thalassiosira bioculata (Grunow)	Planktoniella sol (Wallich)
Thalassiosira gravida Cleve	

	Family - ACTINODISCEAE
Arachnidiscus ehrenbergi Bailey	Actinoptychus undulatus (Bailey)
Asteromphalus heptactis (Brébisson)	Actinoptychus splendens (Shadbolt)
Asteromphalus (Brébisson)	

	Family - EUPODISCEAE
Aulacodiscus oregonus Harvey & Bailey	Actinocyclus ehrenbergi Ralfs
Auliscus sculptus (Smith)	Actinocyclus subtilis (Gregory)

	Family - SOLENIACEAE
Corethron hystrix Hensen	Rhizosolenia stouterfothi Peragallo
Lauderia annulata Cleve	Rhizosolenia stylifornis Brightwell
Dactyliosolen mediterraneus Peragallo	Rhizosolenia semispina Hensen
Leptocylindrus danicus Cleve	Rhizosolenia setigera Brightwell
Leptocylindrus minimus Gran	Rhizosolenia alata Brightwell
Rhizosolenia fragilissima Bergon	Rhizosolenia hebetata (Bailey)
Rhizosolenia delicatula Cleve	

Suborder - BIDDULPHIODEAE

	Family - CHAETOCERAE
Bacteriastrum delicatulum Cleve	Chaetoceros diadema (Ehrenberg)
Chaetoceros atlanticus Cleve	Chaetoceros seiracanthus Gran
Chaetoceros eibenii (Grunow)	Chaetoceros affinis Lauder
Chaetoceros convolutus Cast-racane	Chaetoceros pseudocrinitus Ostenfeld
Chaetoceros densus Cleve	Chaetoceros debilis Cleve
Chaetoceros concavicornis Mangin	Chaetoceros curvisetus Cleve
Chaetoceros danicus Cleve	Chaetoceros radicans Schütt
Chaetoceros decipiens Cleve	Chaetoceros crucifer Gran

- Family - CHAETOCERAE (Cont'd.)
- | | |
|--------------------------------|---|
| Chaetoceros lorenzianus Grunow | Chaetoceros scolopendra Cleve |
| Chaetoceros teres Cleve | Chaetoceros anastomosans var.
externa Gran |
| Chaetoceros compressus Lauder | Chaetoceros cinotus Gran |
| Chaetoceros similis Cleve | Chaetoceros socialis Lauder |
| Chaetoceros didymus Ehrenberg | Chaetoceros gracilis Schütt |
| Chaetoceros lacinosus Schütt | Chaetoceros dictyota Ehrenberg |
| Chaetoceros approximatus Gran | Chaetoceros borealis Bailey |
| Chaetoceros vanheurckii Gran | Chaetoceros crinitus Schütt |
| Chaetoceros subtilis Cleve | Chaetoceros saltans Cleve |
- Family - BIDDULPHIEAE
- | | |
|----------------------------------|---------------------------------|
| Isthmia nervosa Kützing | Biddulphia roperiana Greville |
| Eucampia zodiacus Ehrenberg | Biddulphia laevis Ehrenberg |
| Ditylum brightwelli (West) | Biddulphia pulchella Gray |
| Lithodesmium undulatum Ehrenberg | Biddulphia arctica (Brightwell) |
| Cerataulina bergoni Peragallo | Biddulphia granulata Roper |
| Biddulphia mobiliensis (Bailey) | Biddulphia polymorpha (Grunow) |
| Biddulphia longiciruris Greville | Biddulphia rhombus (Ehrenberg) |
| Biddulphia aurita (Lyngbye) | Cerataulus turgidus Ehrenberg |
- Family - ANAULEAE
- Eunotogramma bivittatum Grunow
- Order - PENNATAE
- Suborder - FRAGILLARIOIDEAE
- Family - TABELLARIACEAE
- | | |
|----------------------------------|---|
| Rhabdonema minutum Kützing | Grammatophora maxima Grunow |
| Rhabdonema arcuatum (Lyngbye) | Grammatophora oceanica Ehrenberg |
| Rhabdonema adriaticum Kützing | Grammatophora angulosa var.
hamulifera Kützing |
| Striatella unipunctata (Lyngbye) | Grammatophora marina (Lyngbye) |
| Tabellaria flocculosa (Roth) | Grammatophora serpentina (Ralfs) |
| Grammatophora japonica Grunow | |
- Family - MERIDIONACEAE
- | | |
|---------------------------------|-------------------------------|
| Licmophora anglica (Kützing) | Licmophora lyngbyei (Kützing) |
| Licmophora gracilis (Ehrenberg) | Licmophora flabellata (Carm) |
| Licmophora paradoxa (Lyngbye) | |
- Family - FRAGILARIACEAE
- | | |
|-----------------------------------|---|
| Daitoma vulgare Bory | Thalassiothrix nitzschoides
(Grunow) |
| Plagiogramma gregorianum Greville | Synedra affinis var. tabulata
(Grunow) |
| Fragilaria striatula Lyngbye | Synedra gallionii (Bory) |
| Fragilaria capueina Desm. | Synedra ulna (Nitzsch) |
| Fragilaria islandica Grunow | Synedra undulata (Bailey) |

Family - FRAGILARIACEAE (Cont'd.)

Dimerogramma marinum (Gregory)	Synedra investiens Smith
Dimerogramma minus (Gregory)	Asterionella japonica Cleve
Glyphodesmis williamsoni (Smith)	Asterionella kariana Grunow
Thalassiothrix longissima Cleve & Grunow	

Suborder - NAVICULOIDEAE

Family - ACHNANTHACEAE

Roicosphenia curvata var. marina (Smith)	Cocconeis granulifera Grunow
Achnanthes brevipes Agardh	Cocconeis grata Smith
Achnanthes longipes Agardh	Cocconeis interrupta Grunow
Achnanthes subsessilis Ehren- berg	Cocconeis molesta Kützing
Achnanthes parvula Kützing	Cocconeis costata Gregory
Campyloneis grevillei var. argus Grunow	Cocconeis pinnata Gregory
Cocconeis scutellum Ehrenberg	Cocconeis pseudomarginata Gregory
Cocconeis disrupta Gregory	Cocconeis grevillei Smith
Cocconeis distans Smith	Cocconeis pellucida var. lineata Grunow

Family - CYMBELLACEAE

Amphora ovalis var. marina (Van Heurok)	Amphora macilentata Gregory
Amphora angusta Gregory	Amphora acutiuscula Kützing
Amphora arenicola Grunow	Amphora eunotia Cleve
Amphora binodis Gregory	Amphora turgida Gregory
Amphora dubia Gregory	Amphora arcus Gregory
Amphora pusio Cleve	Amphiprora alata Kützing
Amphora prateus Gregory	Tropidoneis lepidoptera (Gregory)
Amphora cymbifera Gregory	Tropidoneis antarctica var. polyplasta Gran

Family - NAVICULACEAE

Pleurosigma angulatum Smith	Navicula palpebralis Brébisson
Pleurosigma angulatum var. delicatulum (Smith)	Navicula brevis Gregory
Pleurosigma rigidum Smith	Navicula ambigua Ehrenberg
Pleurosigma formosum Smith	Navicula lyra Ehrenberg
Pleurosigma intermedium Smith	Navicula smithii Brébisson
Pleurosigma decerum Smith	Navicula cancellata Donkin
Pleurosigma strigosum Smith	Navicula directa Smith
Pleurosigma olympianum Terry	Navicula northumbrica Donkin
Pleurosigma longum var. lance- olatum Peragallo	Navicula apiculata Brébisson
Gyrosigma hippocampus (Smith)	Navicula kützingiana Smith
Gyrosigma fasciola (Ehrenberg)	Navicula mollis Smith
Gyrosigma balticum Smith	Navicula rhombica Gregory

Family - NAVICULACEAE (Cont'd.)

Trachyneis aspera Ehrenberg	Navicula cyprinus (Smith)
Caloneis liber (Smith)	Navicula hennedyi Smith
Caloneis formosa (Gregory)	Navicula humerosa Brébisson
Diploneis splendida (Gregory)	Navicula distans (Smith)
Diploneis crabro Ehrenberg	Navicula suborbicularis Gregory
Diploneis crabro var. expleta (Schmidt)	Navicula advena Schmidt
Diploneis bombus (Ehrenberg)	Navicula abrupta Gregory
Diploneis vacillans (Schmidt)	Navicula forcipata Greville
Diploneis didyma (Ehrenberg)	

Suborder - SURIRELLOIDEAE

Family - NITZSCHIAEAE

Nitzschia closterium (Ehrenberg)	Nitzschia constricta (Gregory)
Nitzschia closterium var. recta Gran	Nitzschia insignis Gregory
Nitzschia seriata Cleve	Nitzschia panduriformis Grunow
Nitzschia delicatissima Cleve	Nitzschia punctata (Smith)
Nitzschia paradoxa (Gmelin)	Homoecladia filiformis Smith
Nitzschia longissima (Brébisson)	Homoecladia capitata H.L.S.
Nitzschia angularis Smith	

Family - SURIRELLACEAE

Surirella fastuosa Ehrenberg	Surirella ovata Kützing
Surirella japonica Smith	Surirella pinnata Smith
Surirella lata Smith	Campylodiscus thuretii Brébisson

Class - ALGAE

Subclass - MYXOPHYCEAE

Order - COCCOGONALES

Family - CHAMAESIPHONACEAE

Xenococcus cladophorae (Tilden)	Dermocarpa fucicola Saunders
---------------------------------	------------------------------

Family - RIVULARIACEAE

Rivularia biasoletiana Meneghini

Subclass - CHLOROPHYCEAE

Order - PROTOCOCCALES

Series - ISOKONTAE

Family - PALMELLACEAE

Collinsiella tuberculata Setchell & Gardner

Family - CHLOROCHYTRIACEAE

Chlorochytrium inclusum Kjellman

Order - HETEROCOCCALES

Family - HALOSPHAERACEAE

Halosphaera minor Ostenfeld

Order - SIPHONALES

Family - PROTOSIPHONACEAE

Halicystis ovalis (Lyngbye)

Family - BRYOPSIDACEAE

Bryopsis hypnoides Lamouroux Bryopsis corticulans Setchell

Family - CODIACEAE

Codium fragile (Suringer) Codium ritteri Setchell &
Gardner

Codium setchellii Gardner

Order - SIPHONOCLADIALES

Family - CLADOPHORACEAE

Rhizoclonium kernerii Stockmayer Cladophora laetevirens (Dillwyn)

Rhizoclonium riparium (Roth) Cladophora hutchinsiae (Dillwyn)

Rhizoclonium implexum (Dillwyn) Cladophora hutchinsiae var.

distans (Agardh)

Hormiscia penicilliformis (Roth) Cladophora trichotoma (Agardh)

Hormiscia wormskjoldii (Mertens) Spongomorpha hystrix Stromfelt

Hormiscia vancouveriana (Tilden) Spongomorpha arcta (Dillwyn)

Cladophora glaucescens Spongomorpha saxatilis (Ruprecht)

(Griffiths)

Cladophora stimpsonii Harvey Spongomorpha spinescens Kützing

Cladophora flexuosa (Griffiths) Spongomorpha coalita (Ruprecht)

Cladophora microcladioides

Collins

Order - ULVALES

Family - ULVACEAE

Enteromorpha clathrata (Roth) Enteromorpha intestinalis
(Linnaeus)

Enteromorpha crinita (Roth) Monostroma latissimum (Kützing)

Enteromorpha compressa Monostroma fuscum (Postels &
(Linnaeus) Ruprecht)

Enteromorpha minima Nageli Monostroma zostericola Tilden

Enteromorpha marginata Agardh Ulva latissima Linnaeus

Enteromorpha prolifera (Fl. Dan) Ulva rigida Agardh

Enteromorpha micrococca Kützing Ulva linza Linnaeus

Order - ULOTRICHALES

Family - CHAETOPHORACEAE

Entocladia viridis Reinke Gomontia polyrhiza (Lagerheim)

Subclass - MELANOPHYCEAE

Order - SPHACELARIALES

Series - PHAEOSPOREAE

Family - SPHACELARIACEAE

Sphacelaria subfusca Setchell & Gardner

Order - ECTOCARPALES

Family - ECTOCARPACEAE

- Pylaiella littoralis* (Linnaeus) *Ectocarpus mucronatus* Saunders
Ectocarpus siliculosus (Dillwyn) *Ectocarpus granulatus* (Agardh)
Ectocarpus confervoides (Roth)

Family - MYRIONEMATACEAE

Myrionema strangulans Greville

Family - RALFSIACEAE

Ralfsia deusta Agardh

Family - LEATHESIACEAE

Leathesia difformis (Linnaeus)

Family - ASPEROCOCCACEAE

Soranthera ulvoidea Postels & Ruprecht

Family - SCYTOSIPHONACEAE

Scytosiphon lomentaria (Lyngbye) *Colpomenia sinuosa* (Roth)
Ilea fascia (Mueller)

Family - HETEROCHORDARIACEAE

Heterochordia abietina (Ruprecht)

Order - DESMARESTIALES

Family - MYRIOGLOIACEAE

Myriogloia andersonii (Farlow)

Family - DESMARESTIACEAE

Desmarestia intermedia Postels & Ruprecht *Desmarestia ligulata* (Light-foot)

Order - CHORDARIALES

Family - COILODESMACEAE

Coilodesme californica (Ruprecht)

Order - DICTYOSIPHONALES

Family - DICTYOSIPHONACEAE

Dictyosiphon foeniculaceus (Hudson)

Order - LAMINARIALES

Family - CHORDACEAE

Chorda filum (Linnaeus)

Family - LAMINARIACEAE

Laminaria andersonii Farlow *Pleurophycus gardneri* Setchell & Saunders
Laminaria cuneifolia Agardh *Cymathæra triplicata* Postels & Ruprecht

Family - LAMINARIACEAE (Cont'd.)

Laminaria sinclairii (Harvey) Costaria costata (Turner)
 Laminaria saccharina (Linnaeus) Agarum fimbriatum Harvey
 Laminaria ephemera Setchell Hedophyllum sessile Agardh

Family - LESSONIACEAE

Dictyoneurum californicum Ruprecht Postelsia palmaeformis Ruprecht
 Nereocystis luetkeana (Mertens) Lessoniopsis littoralis Farlow
 Macrocystis pyrifera (Turner) & Setchell

Family - ALARIACEAE

Pterygophora californica Ruprecht Alaria tenuifolia Setchell
 Egregia menziesii (Turner) Alaria nana Schrader
 Alaria valida Kjellman & Setchell

Order - FUCALES

Series - CYCLOSPORAE

Family - FUCACEAE

Fucus evanescens Agardh Pelvetiopsis limitata (Setchell)
 Fucus furcatus Agardh Cystophyllum geminatum Agardh
 Fucus edentalus De la Pylaie Pelvetia fastigiata (Agardh)
 Fucus membranaceus Gardner

Subclass - RHODOPHYCEAE

Order - BANGIALES

Series - BANGIOIDEAE

Family - BANGIACEAE

Bangia fuscopurpurea (Dillwyn) Porphyra abyssicola Kjellman
 Porphyra umbilicalis Setchell & Gardner Porphyra amplissima (Kjellman)
 Porphyra perforata Agardh Porphyra miniata Setchell & Hus.
 Porphyra nereocystis Anderson Porphyra variegata Kjellman
 Porphyra naiadum Anderson Erythrotrichia ceramicola
 (Lyngbye)

Family - HELMINTHOCLADIACEAE

Chantransia moniliformis Rosen- Chantransia macounii Collins
 vinge

Order - NEMALIONALES

Series - FLORIDAE

Family - GELIDEACEAE

Gelidium amansii Lamouroux Endocladia muricata (Harvey)
 Gelidium crinale (Turner)

Order - GIGARTINALES

Family - GIGARTINACEAE

Gymnogongrus norvegicus Turner Callophyllis furcata Farlow
 Gigartina mamillosa (Goodenough & Woodward) Callophyllis flabellutata Harvey
 Gigartina radula (Harvey & Bailey) Callophyllis variegata (Bory)
 Chondrus affinis Harvey Erythrophyllum lesserioides
 Agardh

Family - GIGARTINACEAE (Cont'd.)
 Chondrus crispus Stackhouse Sterroclolex crassior Schmitz
 Iridaea laminarioides Bory Callymenia phyllophora Agardh
 Iridaea cordata Agardh Callymenia ornata Postels and
 Ruprecht
 Ahnfeldtia plicata (Hudson) Callymenia reniformis (Turner)
 Ahnfeldtia concinna Agardh

Family - RHODOPHYLLIDACEAE
 Agardhiella tenera (Agardh) Anatheca furcata Setchell &
 Gardner
 Turnerella mertensiana (Postels & Ruprecht) Euthora fruticulosa (Ruprecht)

Order - RHODYMENIALES

Family - SPHAEROCOCCACEAE
 Gracilaria confervoides (Linnaeus)

Family - RHODYMENIACEAE
 Fauchea lacinata Agardh Chrysomenia pseudodichotoma
 Farlow
 Rhodymenia pertusa (Postels & Ruprecht) Bomentaria ovalis (Turner)
 Rhodymenia palmata (Linnaeus) Plocamium coccineum (Hudson)
 Rhodymenia palmetta (Esper) Plocamium violaceum Farlow
 Rhodymenia corallina (Bory) Plocamium pacificum Kylin
 Rhodymenia flabellifolia Bory Halosaccion glandiforme (Gmelin)

Family - DELESSERIACEAE
 Nitophyllum ruprechtianum Agardh Erythroglossum woodii Agardh
 Nitophyllum latissimum (Harvey) Apoglossum decipiens Agardh
 Nitophyllum violaceum Agardh Pteridium alatum (Hudson)
 Nitophyllum spectabile Eaton Membranoptera dimorpha Gardner

Family - BONNEMAIISONIACEAE
 Bonnemaisonia hamifera Hariot

Family - RHODOMELIACEAE
 Laurencia pinnatifida (Gmelin) Lophosiphonia villum (Agardh)
 Polysiphonia californica Harvey Lophosiphonia obscura (Agardh)
 Polysiphonia urceolata (Light-foot) Rhodomela lycopodioides
 Linnaeus
 Polysiphonia tenuistriata Hooker & Harvey Rhodomela larix (Turner)
 Polysiphonia nigrescens Hudson Odonthalia floccosa (Esper)
 Polysiphonia sublata (Ducl) Odonthalia lyallii (Harvey)
 Polysiphonia strorubescens (Gillwyn) Odonthalia kantschatic
 (Ruprecht)
 Pterosiphonia plumula (Agardh) Odonthalia aleutica (Agardh)

	Family - RHODOMELACEAE (Cont'd.)
Pterosiphonia bipinnata (Postels & Ruprecht)	Odonthalis semicostata (Mertens)
Pterosiphonia dendroidea (Montagne)	Dasyopsis plumosa (Harvey & Bailey)
Pterosiphonia woodii (Harvey)	

	Family - CERAMIACEAE
Griffithsia schousboei Montagne	Platythamnion heteromorphum Agardh
Pleonosporium vancouverianum Agardh	Ceramium rubrum (Hudson)
Callithamnion polyspermum Agardh	Ceramium tenuissimum (Lyngbye)
Ceratothamnion pikeanum (Harvey)	Ceramium strictum Harvey
Ptilota filicina Agardh	Ceramium californicum Agardh
Ptilota hypnoides Harvey	Ceramium codicola Agardh
Ptilota californica	Microcladia borealis Ruprecht
Antithamnion floccosum (Müller)	Microcladia coulteri Harvey
Antithamnion pylaisaei (Montagne)	Microcladia californica Farlow
Antithamnion subulatum (Harvey)	Rhodochorton rothii (Turton)

	Family - GLOIOSIPHONIACEAE
Gloiopeltis furcata (Postels & Ruprecht)	Gloiosiphonia verticillaris Farlow
Gloiosiphonia capillaris (Hudson)	

Order - CRYPTONEMIALES

	Family - GRATELOUPIACEAE
Aeodes nitidissima Agardh	Cryptonemia obovata Agardh
Grateloupia cutleriae (Binder)	Prionitis lanceolata Harvey
Grateloupia pinnata (Postels & Ruprecht)	Prionitis lyallii Harvey

	Family - PUMONTIACEAE
Cryptosiphonia woodii Agardh	Sarcophyllis californica Agardh
Pikea californica Harvey	Sarcophyllis pygmaea Setchell
Farlowia mollis (Harvey & Bailey)	Constantinea subulifera Setchell

	Family - CORALLINACEAE
Lithothamnion californicum Foslíe	Lithophyllum incrustans Foslíe
Lithothamnion reclinatum Foslíe	Lithophyllum vancouveriense Foslíe
Lithothamnion mediocre Foslíe & Nichols	Amphiroa cretacea (Postels & Ruprecht)
Lithothamnion marginatum Setchell & Foslíe	Amphiroa tuberculosa (Postels & Ruprecht)
Lithophyllum muricatum Foslíe	Corallina officinalis Linnaeus

BIBLIOGRAPHY

- Bailey, L.W. An annotated catalogue of the diatoms of Canada, showing their geographical distribution. Contr. Canad. Biol. 2(2):31-67. 1924.
- Bailey, L.W. and A.H.MacKay. Diatoms from the eastern coast of Vancouver island. Trans.Roy.Soc.Can. 3rd ser., 9(4):141-174. 1916.
- Bartsch, Paul. A new parasitic mollusk of the genus *Eulima*. Proc. U.S.Nat. Mus. 32: 555-556. 1907.
- Bartsch, Paul. The recent and fossil mollusks of the genus *Cerithiopsis* from the west coast of America. Proc.U.S.Nat.Mus. 40: 327-367. 1911.
- Bartsch, Paul. The recent and fossil mollusks of the genus *Bittium* from the west coast of America. Proc. U.S.Nat.Mus. 40:383-414. 1911.
- Bartsch, Paul. Additions to the west American Pyramidellid Mollusk fauna, with descriptions of new species. Proc.U.S.Nat.Mus. 42:261-289. 1912.
- Bartsch, Paul. A zoogeographic study based on the Pyramidellid mollusks of the west coast of America. Proc. U.S. Nat.Mus.42:297-349. 1912.
- Bartsch, Paul. Descriptions of new west American marine mollusks and notes on previously described forms. Proc. U.S.Nat.Mus. 52:637-681. 1917.
- Bartsch, Paul. A monograph of west American Melanellid mollusks. Proc. U.S.Nat.Mus. 53:295-356. 1917.
- Bartsch, Paul. The west American mollusks of the families Rissoellidae and Synceratidae, and the Rissoid genus *Barleeia*. Proc. U.S.Nat.Mus. 58:159-176. 1921.
- Bartsch, Paul. A new classification of shipworms and descriptions of some new wood boring mollusks. Proc. Biol.Soc.Wash. 34:25-32. 1921.
- Bartsch, Paul. New marine mollusks from the west coast of America. Proc.Biol.Soc.Wash. 34:35-40. 1921.
- Bean, B.A. and A.C.Weed. Notes on a collection of fishes from Vancouver island, British Columbia. Trans.Roy. Soc.Can.Ser. 3, 13(5):69-83. 1919.

- Bean, T.H. Description of a new cottoid fish from British Columbia. Proc. U.S.Nat.Mus. 12:641-642. 1890.
- Berkeley, Alfreda A. A preliminary list of the ophiurans of the Nanaimo district. Contr.Canad.Biol. 3(11): 317-322. 1927.
- Berkeley, Alfreda A. The commercial shrimps of British Columbia. Vanc.Mus.Art Notes 4(3):109-115. 1929.
- Berkeley, C. Symbiosis of Berce and a flagellate. Contr.Canad. Biol. 6(2):13-21. 1930.
- Berkeley, C. The green bodies of the intestinal wall of certain Chaetopteridae. Quart.J.Micro.Sci. 73(3):465-476. 1930.
- Berkeley, Edith. Polychaetous annelids from the Nanaimo district. I. Syllidae to Segalionidae. Contr.Canad. Biol. 1(11):203-218. 1923.
- Berkeley, Edith. Polychaetous annelids from the Nanaimo district. II. Phyllodoceidae to Nereidae. Contr. Canad.Biol. 2(12):285-293. 1924.
- Berkeley, Edith. On a new case of commensalism between echinoderm and annelid. Canad. Field-Nat. 38(10): 193. 1924.
- Berkeley, Edith. Polychaetous annelids from the Nanaimo district. III. Leedidae to Spionidae. Contr.Canad. Biol. 3(17):405-422. 1927.
- Berkeley, Edith. A new genus of Chaetopteridae from the N.E. Pacific: with some remarks on allied genera. Proc. Zool.Soc.Lond. (2):441-445. 1927.
- Berkeley, Edith. Polychaetous annelids from the Nanaimo district. IV. Chaetopteridae to Maldanidae. Contr. Canad.Biol. 4(22):305-316. 1929.
- Berkeley, Edith. Polychaetous annelids from the Nanaimo district. V. Ammocharidae to Myzostomidae: with an appendix on some pelagic forms from the strait of Georgia and the west coast of Vancouver island. Contr.Canad.Biol. 6(5):65-77. 1930.
- Berkeley, E. and C. On a collection of littoral Polychaeta from the west coast of Vancouver island. Contrib. Canad.Biol.Fish. 7(24):310-318. 1932.

- Berry, S. Stillman. A review of the cephalopods of western North America. Bull. U.S. Bur. Fish. 30:269-336. 1912.
- Bigelow, H.B. Halimmedusa, a new genus of Anthomedusae. Trans. Roy. Soc. Can. 10:91-95. 1916.
- Broch, Hj. Studies on Pacific cirripedes. Papers from Th. Mortensen's Pacific Expedition, 1914-16. Saertryk af Vidensk. Medd. fra Dansk. Nat. Foren. 73:215-358. 1922.
- Campbell, Mildred H. A preliminary quantitative study of the zooplankton in the strait of Georgia. Trans. Roy. Soc. Can. Ser. 3, 23(5):1-28. 1929.
- Campbell, Mildred H. Some free-swimming copepods of the Vancouver island region. Trans. Roy. Soc. Can. Ser. 3, 23(5):303-331. 1929.
- Campbell, Mildred H. Some free-swimming copepods of the Vancouver island region. II. Trans. Roy. Soc. Can. Ser. 3, 24(5):177-182. 1930.
- Carpenter, P.P. Report on the present state of our knowledge with regard to the Mollusca of the west coast of North America. Rept. Br. Assoc. (1856). 1857.
- Carpenter, P.P. Supplementary report on the present state of our knowledge with regard to the Mollusca of the west coast of North America. Rept. Br. Assoc. (1863). 1864.
- Clark, H.L. Catalogue of recent ophiurans. Mem. Mus. Comp. Zool. Harvard Coll. 25(4):165-376. 1915.
- Clark, H.L. Some holothurians from British Columbia. Canad. Field-Nat. 38(3):54-57. 1924.
- Collins, F.S. The marine Algae of Vancouver island. Victoria Memorial Mus., Bull. I, Geol. Sur. Can. 95-137. 1913.
- Connell, Robert. Notes on marine Algae collected at Departure bay, B.C. Canad. Field-Nat. 42(4):99-100. 1928.
- Cornwall, Ira E. Rock-borers and tide-pools. Canad. Field-Nat. 37(8):144-45. 1923.
- Cornwall, Ira E. Some littoral barnacles from William Head, British Columbia. Canad. Field-Nat. 38(3):41-43. 1924.

- Cornwall, Ira E. A review of the Cirripedia of the coast of British Columbia, with glossary, and key to genera and species. *Contrib. Canad. Biol.* 2(18):469-502. 1925.
- Cornwall, Ira E. Some north Pacific whale barnacles. *Contr. Canad. Biol.* 3(23):501-517. 1927.
- Cornwall, Ira E. Collecting at Cachalot Whaling Station. *Canad. Field-Nat.* 42(1):9-12. 1928.
- Cornwall, Ira E. A barnacle (*Scalpellum columbianum* from Departure bay, B.C. *Contr. Canad. Biol.* 5(9):213-217. 1930.
- Dall, W.H. Report on the limpets and chitons of the Alaskan and Arctic regions, with descriptions of genera and species believed to be new. *Proc. U.S. Nat. Mus.* 1:281-344. 1879.
- Dall, W.H. Synopsis of the family Tellinidae and of the North American species. *Proc. U.S. Nat. Mus.* 23:285-326. 1901.
- Dall, W.H. Synopsis of the family Cardiidae and of the North American species. *Proc. U.S. Nat. Mus.* 23:381-392. 1901.
- Dall, W.H. Illustrations and descriptions of new unfigured or imperfectly known shells, chiefly American. *Proc. U.S. Nat. Mus.* 24:499-566. 1902.
- Dall, W.H. Synopsis of the family Veneridae and of the North American recent species. *Proc. U.S. Nat. Mus.* 26:335-412. 1903.
- Dall, W.H. Diagnosis of new shells from the Pacific Ocean. *Proc. U.S. Nat. Mus.* 45:587-597. 1913.
- Dall, W.H. Notes on the species of the molluscan subgenus *Nucella* inhabiting the north-west coast of America and adjacent regions. *Proc. U.S. Nat. Mus.* 49:557-572. 1916.
- Dall, W.H. Notes on the shells of the genus *Epitonium* and its allies of the Pacific coast of America. *Proc. U.S. Nat. Mus.* 53:471-488. 1917.
- Dall, W.H. Descriptions of new species of mollusks of the family Turritidae from the west coast of America and adjacent regions. *Proc. U.S. Nat. Mus.* 56:1-86. 1920.

- Dall, W.H. Descriptions of new species of Mollusca from the North Pacific Ocean in the collection of the United States National Museum. Proc. U.S. Nat. Mus. 56:293-371. 1920.
- Dall, W.H. Annotated list of the recent Brachiopoda in the collection of the United States National Museum, with descriptions of thirty-three new forms. Proc. U.S. Nat. Mus. 57:261-377. 1921.
- Dall, W.H. and Paul Bartsch. New species of mollusks from the Atlantic and Pacific coasts of Canada. Dept. Mines, Geol. Sur. Can. Vict. Mem. Mus. Bull. 1:139-144. 1913.
- Dall, W.H. and Paul Bartsch. New species of shells collected by Mr. John Macoun at Barkley sound, Vancouver island, British Columbia. Dept. Mines, Geol. Sur. Can. Mem. 14-N, 5-22. 1910.
- Dymond, J.R. Another prowfish (*Zoprora silenus*) record. Copeia, 169:88-89. 1928.
- Dymond, J.R. The trout of British Columbia. Trans. Amer. Fish Soc. 58:71-77. 1929.
- Fee, A.R. The Isopoda of Departure bay and vicinity with descriptions of new species, variations and colour notes. Contr. Canad. Biol. 3(2):13-46. 1926.
- Fisher, W.K. Asteroidea of the north Pacific and adjacent waters. Part 1. Phanerozonia and Spinulosa. Smith. Inst. U.S. Nat. Mus. Bull. 76:1-406. 1911.
- Fisher, W.K. Asteroidea of the north Pacific and adjacent waters. Part 2. Forcepulata (Part). Smith. Inst. U.S. Nat. Mus. Bull. 76:1-161. 1928.
- Foerster, R.E. The Hydromedusae of the west coast of North America, with special reference to those of the Vancouver island region. Contr. Canad. Biol. 1(12):219-277. 1923.
- Fraser, C.M. The hydroids of the west coast of North America. Bull. Lab. Nat. Hist., State Univ. Iowa, 1-91. 1911.
- Fraser, C.M. Hydroids from Vancouver island. Bull. Lab. Nat. Hist., State Univ. Iowa, 147-155. 1913.
- Fraser, C.M. Some hydroids of the Vancouver island region. Trans. Roy. Soc. Can. Ser. 3, 8(5):99-216. 1914.

- Fraser, C.M. Ichthyological notes. Trans.Roy.Canad.Inst. 109-118. 1916.
- Fraser, C.M. Monobrachium parasitum and other west coast Hydroids. Trans.Roy.Soc.Can.Ser.3, 12(4):131-138. 1918.
- Fraser, C.M. Migration of marine animals. Trans.Roy.Soc.Can. Ser.3, 12(4):139-143. 1918.
- Fraser, C.M. Copepods parasitic on fish from Vancouver island region. Trans.Roy.Soc.Can. 3, 13(5):45-67. 1920.
- Fraser, C.M. Some apparent effects of severe weather on the marine organisms in the vicinity of Departure bay, B.C. Contr.Canad.Biol., 1918-1920; 29-33. 1921.
- Fraser, C.M. Association, commensalism and parasitism among marine animals in the strait of Georgia. Canad. Field-Nat., 25:48-50. 1921.
- Fraser, C.M. A new Hydractina and other west coast hydroids. Contr.Canad.Biol. 1(7):95-100. 1922.
- Fraser, C.M. Ichthyological notes. Contr.Canad.Biol.1(14): 285-296. 1923.
- Fraser, C.M. Acaulis primarius Stimpson. Trans.Roy.Soc.Can. Ser.3, 18(5):167-173. 1924.
- Fraser, C.M. Modifications due to human agencies in the marine life of the Pacific coast. Sc.Monthly, 22:151-157. 1926.
- Fraser, C.M. A comparison of the marine fauna of the Nanaimo region with that of the San Juan Archipelago. Trans.Roy.Soc.Can., XXVI, Series, V. 1932.
- Gardner, N.L. The genus Fucus on the Pacific coast of North America. Univ.Cal.Pub.Bot.10(1):1-180. 1922.
- Gardner, N.L. New Rhodophyceae from the Pacific coast of North America. I. Univ.Cal.Pub.Bot. 13(11):205-226. 1926.
- Gilbert, Charles H. A preliminary report on fishes collected by the steamer Albatross on the Pacific coast of North America during the year 1889, with descriptions of 12 new genera and 92 new species. Proc. U.S.Nat.Mus. 13:49-126. 1890.

- Gilbert, Charles H. A new genus and species of cottid fish from Departure Bay, Vancouver, island, B.C. Contr. Canad. Biol. 1906-1910; 215-216. 1912.
- Gran, H.H. and E.C. Angst. Plankton diatoms of Puget Sound. Pub. Puget Sd. Biol. Sta. 7:417-519. 1931.
- Green, Ashdown H. Notes on the occurrence of new and rare fish in British Columbia. Bull. Nat. Hist. Soc. B.C. 1893.
- Grinnel, J. A systematic list of the mammals of California. Univ. Cal. Pub. Zool. 21(10):313-324. 1923.
- Haddon, Kathleen. *Hersilia* (*Clausidium*) *vancouverensis*, n.s. Ann. and Mag. Nat. Hist., Ser. 8; 10:84-86. 1912.
- Hart, J.L. and G.H. Wailes. The food of the pilchard, *Sardinops caerulea* (Girard) off the coast of British Columbia. Contr. Canad. Biol. 7(19):245-254. 1932.
- Hart, Josephine, F.L. Some Gumacea of the Vancouver island region. Contr. Canad. Biol. 6(3):23-40. 1930.
- Heding, S. Papers from Dr. Th. Mortensen's Pacific Exped. 1914-16, 46, Synaptidae. Vidensk. Medd. fra Dansk. Nat. Foren. 85:105-323. 1928.
- Hickson, S.J. On a specimen of *Osteocella septentrionalis*. Mem. & Proc. Manchester Lit. & Phil. Soc. 55, pt. 3. 1911.
- Hickson, S.J. Some Alcyonaria and a *Stylaster* from the west coast of North America. Proc. Zool. Soc. London, 54:557. 1915.
- Hickson, S.J. West coast corals. Bionomical Leaflets, McGill Univ. 6:21-24. 1917.
- Hubbs, Carl L. A check-list of the marine fishes of Oregon and Washington. Journ. Pan-Pac. Res. Inst. 3(3):9-16. 1928.
- Hubbs, Carl L. and Leonard P. Schultz. A new blenny from British Columbia with records of two other fishes new to the region. Contrib. Canad. Biol. 7(25):319-324. 1932.
- Huntsman, A.G. *Holosomatous* ascidians from the coast of Western Canada. Contr. Canad. Biol. 1906-1910; 103-185. 1912.

- Kuitunen-Ekbaum, E. *Philonema oncorhynchi* nov. gen. et spec.
Contrib. Can. Biol., n. s., vol. VIII, no. 4, series
A, general, no. 31. 1933.
- Lambe, L.M. Sponges from the Pacific coast of Canada and
Behring Sea. Trans. Roy. Soc. Can. 10:67-68. 1892.
- Lambe, L.M. Sponges from the Pacific coast of Canada. Trans.
Roy. Soc. Can. 11:25-43. 1893.
- Lambe, L.M. Sponges from the Western coast of North America.
Trans. Roy. Soc. Can., 12:113-138. 1894.
- Lambe, L.M. Catalogue of the recent sponges of Canada and
Alaska. Ottawa Nat. 14(9):153-172. 1900.
- Lambe, L.M. A new recent marine sponge (*Esperella bella-*
bellensis) from the Pacific coast of Canada.
Ottawa Nat. 19(1):14-15. 1905.
- Laubenfels, M.W. de. The marine and fresh-water sponges of
California. Proc. U.S. Nat. Mus. no. 2927, vol.
81. 1932.
- Lucas, Verna Z. Some Ostracoda of the Vancouver island region.
Contr. Canad. Biol. 6(17):397-416. 1931.
- MacKay, Donald C.G. An additional Brachyuran crab from northern
British Columbia. Canad. Field-Nat. 46(7):153.
1932.
- MacKay, Donald C.G. Description of a new species of crab of the
genus *Paralithodes*. Contr. Canad. Biol. 7(24):335-
340. 1932.
- MacKay, Donald C.G. Notes on the Brachyuran crabs of northern
British Columbia. Canad. Field-Nat. 45(8):187-189.
1931.
- Mann, Albert. Report on the diatoms of the Albatross voyages in
the Pacific ocean, 1888-1904. Contrib. U.S. Nat.
Herb. vol. 10, 5. 1907.
- McMurrich, J.P. On two new actinians from the coast of British
Columbia. Proc. Zool. Soc. London, 963-972. 1913.
- McMurrich, J.P. Notes on the plankton of the British Columbia
coast. Trans. Roy. Soc. Can. Ser. 3, 10(5):75-89.
1916.

- Mortensen, Th. Studies on the development of crinoids. Papers Dept. Mar. Biol. Carn. Inst. Wash. 16:1-94. 1920.
- Mortensen, Th. Studies of the development and larval forms of Echinoderms, Copenhagen. 1921.
- Mortensen, Th. Two new Ctenophores. Papers from Dr. Th. Mortensen's Pacific Expedition 1914-16, 39. Videns. Medd. fra Dansk. Nat. Foren, 83:277-288. 1927.
- Munro, J.A. and W.A. Clemens. Water fowl in relation to the spawning of herring in British Columbia. Biol. Bd. Can. Bull. 17:1-46. 1931.
- Newcombe, C.F. List of Crustacea (Brachyura and part of Anomura) in the Provincial Museum of B.C. with notes on their distribution. Bull. Nat. Hist. Soc. B.C. 1893.
- Newcombe, C.F. Report on the marine shells of British Columbia. Bull. Nat. Hist. Soc. B.C. 1893.
- Nielsen, Eigil. Ophiurans from the gulf of Panama, California, and the strait of Georgia. Papers from Dr. Th. Mortensen's Pacific Expedition 1914-16, 59. Videns. Medd. fra Dansk. Nat. Foren. 91:241-346. 1932.
- O'Donoghue, C.H. Nudibranchiate Mollusca from the Vancouver island region. Trans. Roy. Canad. Inst. 13(1): 147-209. 1921.
- O'Donoghue, C.H. and Elsie O'Donoghue. Notes on the nudibranchiate Mollusca from the Vancouver island region, I-III. Trans. Roy. Canad. Inst. 14:123-167. 1922.
- O'Donoghue, C.H. and Elsie O'Donoghue. A preliminary list of Bryozoa (Polyzoa) from the Vancouver island region. Contr. Canad. Biol. 1(10):143-201. 1923.
- O'Donoghue, C.H. On the summer migration of certain starfish in Departure bay, B.C. Contr. Canad. Biol. 1(25): 455-472. 1924.
- O'Donoghue, C.H. Notes on the nudibranchiate Mollusca from the Vancouver island region. Trans. Roy. Canad. Inst. 15(33):1-33. 1924.

- O'Donoghue, C.H. A list of the nudibranchiate Mollusca recorded from the Pacific coast of North America, with notes on their distribution. Trans.Roy. Canad.Inst. 15(34) part 2:199-247. 1926.
- O'Donoghue, C.H. and Elsie O'Donoghue. A second list of the Bryozoa (Polyzoa) from the Vancouver island region. Contr.Canad.Biol. 3(3):47-131. 1926.
- O'Donoghue, C.H. Notes on the nudibranchiate Mollusca from the Vancouver island region. V. Two new species and one new record. Trans.Roy.Canad.Inst.16 (35):1-12. 1927.
- Oldroyd, Ida S. New species of West coast shells. Nautilus 33(4):135-136. 1920.
- Oldroyd, Ida S. Marine shells of Puget sound and vicinity. Pub. Puget Sd. Biol.Sta. 4:1-272. 1924.
- Oldroyd, Ida S. The marine shells of the west coast of North America. Stanford Univ.Pub.Geol.Sc. 1(1), 1924. II (I, II, III). 1927.
- Pixell, H.L.M. Two new species of the Phoronidea from Vancouver island. Quart.Journ.Microsc.Sci. 58, pt. 2, 257-284. 1912.
- Pixell, H.L.M. Polychaeta from the Pacific coast of North America pt. 1, Serpulidae. Proc.Zool.Soc.London, 784-805. 1912.
- Potts, F.A. Stolon formation in certain species of Trypanosyllis. Quart.Journ.Microsc.Sci. 58, pt. 3, 411-446. 1913.
- Potts, F.A. Mycetomorpha, a new Rhizocephalan. Zool.Jahrb. 33; 575-594. 1912.
- Potts, F.A. Polychaeta from the north-eastern Pacific. The Chaetopteridae. Proc.Zool.Soc.London, 955-994. 1914.
- Pritchard, A.L. A Rag fish (*Icosteus enigmaticus*) from the Queen Charlotte islands, B.C. Copeia, 171, 38. 1929.
- Province of British Columbia. Preliminary check list marine shells of British Columbia, Victoria. 1893.

Provincial Museum. A preliminary catalogue of the collections of natural history and ethnology in the Provincial Museum, Victoria, British Columbia, Victoria. 1898.

Ramsay, L.N.E. On the annelids of the family Nereidae collected by Mr. F.A. Potts in the northeast Pacific in 1911. Proc. Zool. Soc. London, 237-250. 1914.

Rathbun, M.J. Decapod crustaceans of the northwest coast of North America. Harriman Alaska Expedition, 1-90. 1904.

Rathbun, M.J. The Grapsoid crabs of America. U.S. Nat. Mus. Bull. 97. 1917.

Rathbun, M.J. The Spider crabs of America. U.S. Nat. Mus. Bull. 129. 1925.

Rathbun, M.J. The Cancroid crabs of America of the families Euryalidae, Portunidae, Atelecyclidae, Cancridae and Xanthidae. U.S. Nat. Mus. Bull. 152. 1930.

Richardson, Harriet. Key to the isopods of the Pacific coast of North America, with descriptions of twenty-two new species. Proc. U.S. Nat. Mus. 21:815-872. 1899.

Richardson, Harriet. A monograph of the isopods of North America. Bull. U.S. Nat. Mus. 54:1-727. 1905.

Richardson, Harriet. Isopods collected in the northwest Pacific by the U.S. Bureau of Fisheries steamer "Albatross" in 1906. Proc. U.S. Nat. Mus. 37:75-129. 1909.

Saunders, L.G. Some marine insects of the Pacific coast of Canada. Ann. Entom. Soc. Amer. 21(4):521-545. 1928.

Schmitt, Waldo L. The marine Decapod Crustacea of California. Univ. Calif. Pub. Zool. 23:1-470. 1921.

Setchell, W.A. and N.L. Gardner. The marine Algae of the Pacific coast of North America. Part I. Myxophyceae. Univ. Calif. Pub. Bot. 8(1):1-38. 1919.

- Setchell, W.A. and N.L.Gardner. The marine Algae of the Pacific coast of North America. Part II, Chlorophyceae. Univ.Cal.Pub.Bot. 8(2):139-325. 1920.
- Setchell, W.A. and N.L.Gardner. The marine Algae of the Pacific coast of North America. Part III, Melanophyceae. Univ.Cal.Pub. Bot. 8(3):387-739. 1925.
- Setchell, W.A. and N.L.Gardner. Algae of northwestern America. Univ.Cal.Pub.Bot. 1(3):165-418. 1903.
- Smith, Gertrude M. Notes on the distribution of some decapod Crustacea collected near Sidney, B.C. Canad. Field-Nat. 42(7):163-175. 1928.
- Smith, S.I. Notes on Crustacea from the Queen Charlotte and Vancouver islands. Geol. Survey Canad., Rept. Prog. 1878-9. 1880.
- Tattersall, W.M. Euphausiacea and Mysidacea from western Canada. Contrib. Can.Biol. 1933.
- Taylor, W. Preliminary catalogue of the marine Mollusca of the Pacific coast of Canada, with notes upon their distribution. Trans.Roy.Soc.Can. 1(5):17-100. 1895.
- Taylor, G.W. Preliminary list of one hundred and twenty-nine species of B.C. Decapod Crustaceans. Contr.Canad. Biol. 1906-1910. 187-214. 1912.
- Verrill, A.E. Monograph of the shallow water starfishes of the north Pacific coast from the Arctic ocean to California. Smith.Inst., Harriman Alaska Exped. Ser. 14:1-408. 1914.
- Wailles, G.H. Rhizopoda and Heliozoa from British Columbia. Contr.Canad.Biol. 2(20):507-518. 1925.
- Wailles, G.H. Tintinnidae from the strait of Georgia, B.C. Contr.Canad.Biol. 2(22):531-540. 1925.
- Wailles, G.H. Some new or rare Protozoa from British Columbia. Ann.Mag.Nat.Hist.Ser. 9, 16, 40-48. 1925.
- Wailles, G.H. Dinoflagellates from British Columbia with descriptions of new species. Part II. Vanc.Mus. Art.Notes 3(2):27-35. 1928.

- Wailles, G.H. Fresh-water and marine Protozoa from British Columbia, with descriptions of new 1928 species. Vanc.Mus.Art Notes 3(3):25-37; (4):28-31. 1928.
- Wailles, G.H. The marine zoo-plankton of British Columbia. Vanc.Mus.Art Notes 4(4):159-165. 1929.
- Wailles, G.H. Amphipoda from British Columbia. Vanc.Mus.Art Notes 6(1):40-41. 1931.
- Wailles, G.H. Dinoflagellates from British Columbia with descriptions of new species. Part I. Vanc.Mus.Art Notes 3(1):20-25. 1928.
- Wailles, G.H. Marine ciliates of the genus Laboea from British Columbia with description of a new species. Ann. Protist. 2, fasc. 2-3, 125-126. 1929.
- Wailles, G.H. Description of new species of Protozoa from British Columbia. Contr.Canad.Biol. 7(17):213-219. 1932.
- Wardle, R.A. The Cestoda of Canadian fishes. I. The Pacific coast region. Contr.Canad.Biol. 7(18):221-243. 1932.
- Wardle, R.A. The Cestoda of Canadian fishes. III. Additions to the Pacific coast fauna. Contr.Can.Biol. n.s., vol. VIII, no. 5, series A, general, no. 32. 1933.
- Whiteaves, J.F. On some marine invertebrata from the west coast of North America. Can.Nat. 8(8):464-471. 1878.
- Whiteaves, J.F. On some marine invertebrata from the Queen Charlotte islands. Geol.Survey Canad.Rept.Prog. 1878-9. 1880.
- Whiteaves, J.F. On some marine invertebrata dredged or otherwise collected by Dr. G.M.Dawson in 1885 in the northern part of the strait of Georgia, etc. Trans.Roy.Soc.Can. 3(4):111-137. 1886.
- Whiteaves, J.F. Notes on some marine invertebrata from the coast of British Columbia. Ottawa Nat. 7(9): 133-137. 1893.
- Willey, A. Glossobalanus berkeleyi a new enteropneust from the west coast. Trans.Roy.Soc.Can. 25(5). 1931.

Williamson, C.H. Notes on the occurrence of various animals on the fishing grounds on the coast of British Columbia. Canad. Field-Nat. 44(7):153-156. 1930.

Wilson, C.B. Parasitic copepods from Nanaimo, British Columbia, including eight species new to science. Contr. Canad. Biol. 1906-1910, 85-102. 1912.