

Chapter 10. Biodiversity of Prince William Sound

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10A. Summary

Basic taxonomic, biogeographic, and habitat information for 1876 species of marine plants and animals of Prince William Sound were compiled into structured data sets. This species inventory is intended as a baseline from which biodiversity responses to future environmental changes can be assessed measured. The data sets include 39 possibly undescribed species, 89 range extensions, and 17 nonindigenous species. Two hundred thirty-one marine plant species, mostly algae, are present. Twenty invertebrate phyla are represented, and Annelida, Mollusca, and Crustacea account for over 60% of the invertebrates. Vertebrates include 175 fish, 14 mammal, and 113 bird species. The fauna and flora of Prince William Sound is a mixture of species with biogeographic affinities that overlap the northeastern and northwestern Pacific as well as the Arctic and Atlantic regions.

10B. Purpose

A single inventory of Prince William Sound biodiversity is currently lacking. This gap in taxonomic and biogeographic knowledge is an impediment to efforts to monitor environmental change, to understand the diversity of plant and animal life and to clarify biogeographic relationships among the living organisms in the rich waters of Prince William Sound and the adjacent shelf of the northern Gulf of Alaska. (Hines et al. 2000) The purpose of this report is to compile a database for the plant and animal species of Prince William Sound. The project is one component of a research project on potential introductions of nonindigenous species into Prince William Sound, especially through the discharge of ballast water from oil tankers traveling into Port Valdez. Annotated species lists were developed for the project to help taxonomic experts establish a current baseline for the status of nonindigenous species in Prince William (Hines et al. 2000).

Working versions of the data sets were compiled by M. Fry and expanded by N. Foster with assistance by M. Hoberg, and review by K. Coyle (zooplankton), J. Goddard (opisthobranch gastropods), J. Kudenov (polychaete annelids), G. Lambert (urochordates), P. Lambert (echinoderms), C. Mecklenberg (fishes), C. Mills (Cnidaria and Ctenophora), J. Norenburg (nemertean) and others. Additional polychaete identifications were accomplished for this report by J. Kudenov. The draft versions of the data sets were included in the final project report (Hines et al. 2000).

10C. Scope

Taxonomic

The data sets list free-living macrophytes and animals. Protists and most endoparasites are outside the scope of the project.

Geographic

Prince William Sound waters are well-defined We have used literature and collecting records from Port Bainbridge east to Orca Inlet, and south and east to the outer coasts of

Montague and Hinchinbrook islands. However, for some taxa, (e.g. Bryozoa), the fauna of adjacent areas (northeastern Gulf of Alaska and Kodiak Island waters) are better documented and some records for those areas are included. Migratory birds and marine mammals that inhabit Prince William Sound waters seasonally are included in the data set. Planktonic Cnidaria and Crustacea from the northern Gulf of Alaska listed in the data sets occur in Prince William Sound rarely, with their presence dependent on oceanographic conditions.

10D. Methods

Literature sources

A large number of species included in the data sets are based on their listing in the environmental surveys of the Gulf of Alaska, Prince William Sound, and Port Valdez in the late 1970's and early 80's. We compiled species lists from Cooney et al. (1973) and Cooney and Coyle (1988):plankton, Feder et al. (1976):sediments, Feder and Bryson-Schwafel (1988):the intertidal zone, Feder and Jewett(1987):subtidal benthos, Feder and Keiser (1980):intertidal biology, Feder and Matheke (1980):benthic infauna, Feder et al. (1979):benthos of Resurrection and Aialik bays, Feder and Paul (1973):the intertidal zone, Feder and Paul (1980):Cook Inlet, Hoberg (1986):benthic infauna, Jewett and Feder (1977):Port Valdez, and Rogers et al. (1986):nearshore fishes.

Species names from field guides and taxonomic revisions of characteristic northeastern Pacific taxa have been added, for example Banse and Hobson (1968) (benthic errantiate polychaetes), Barnard (1969) (gammaridean amphipods), Butler (1980) (shrimp), Coan et al. (2000) (bivalve mollusks), Dick and Ross (1988) (Bryozoa), Lambert (1981, 1997) (sea stars and sea cucumbers), and Schultz (1969) (isopods). For detailed information on the geographical ranges, we have relied on the same taxonomic revisions and regional publications. However, this information in a consistent format has been difficult to obtain for many species. When specific reference to a species' occurrence in Prince William Sound was not available, we used Austin (1985). We have also deleted inaccurate records that have crept into the literature, and have made changes in nomenclature based on reviews and taxonomic revisions accomplished after the environmental surveys mentioned above.

Biogeographic analyses presented here use conventions based on a global system developed by the World Conservation Union and described in Kelleher et al. (1995) (Figures 10.1 and 10.2). The biogeographic summaries are based on numbers of species for which we have confident identifications, leaving out unidentified or undescribed species. Some of the analyses exclude birds, because the migratory habits of some species fit poorly into the bioregional classification used for algae, invertebrates and fishes.

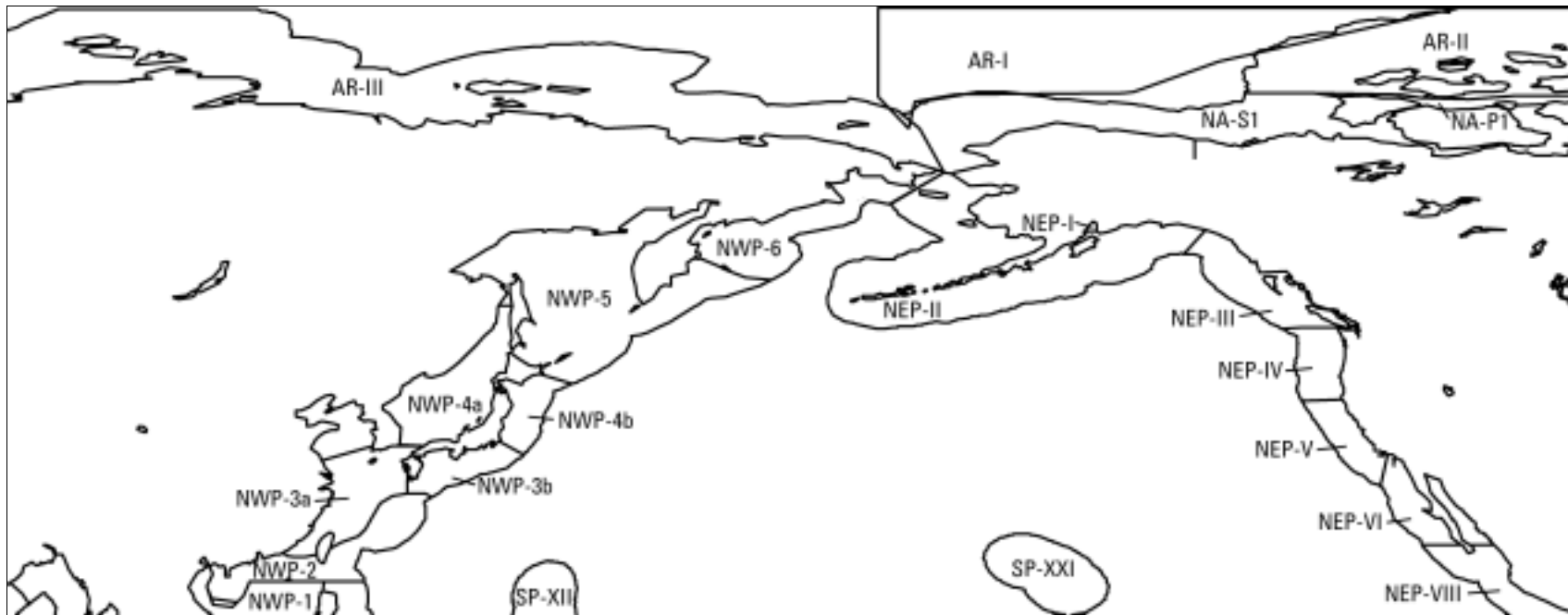


Figure 10.1. Biogeographic areas of the North Pacific.



Figure 10.2. Biogeographic areas of the North Atlantic.

Specimens and observations

The second major source for names of Prince William Sound species is the collections of the University of Alaska Museum (UAM). Names of algae, mollusks, bryozoans, and fishes were entered from specimen catalogues. Voucher specimens for many of the species listed in the environmental studies are in the UAM Aquatic Collection, but may not be catalogued. A large number of specimens was also collected in 1990-1995 by Dr. Stephen Jewett as part of damage assessment after the 1989 Exxon Valdez oil spill. While not accessioned into the UAM, these specimens were available for this study. Each species entry should be traceable to a specimen identified to the species level by an expert. Citing specimens from other museum collections, however, goes beyond the scope of the project.

Rapid community assessments, focal taxonomic collections, and fouling plate surveys in Prince William Sound in 1998 and 1999 were intended to detect well-established nonindigenous species, especially in areas at risk for invasion (Hines and Ruiz 2000). Taxonomic experts who participated in the field work in Prince William Sound and the Kenai Peninsula contributed names and distribution information for marine plants (G. Hansen), Cnidaria and Ctenophora (C. Mills), opisthobranch gastropods (J. Goddard), polychaete annelids (J. Kudenov), Crustacea (J. Chapman and J. Cordell), Bryozoa (J. Winston), and urochordates (G. and C. Lambert).

*Results**The data sets*

The data sets comprising the bulk of this report are in the form of separate Excel™ worksheets for algae and vascular plants, Cnidaria and Ctenophora, Annelida, Mollusca, Arthropoda, Bryozoa, Echinodermata, miscellaneous invertebrate taxa, fishes, birds, mammals (Tables 10.1 – 10.11). Data are presented in tabular form, one species per row.

The following data fields, as columns, are common to all data sets:

- **Family, Genus, Species**
An attempt has been made to use the currently accepted name
- **Other Name**
The column contains family, genus or species names under which the taxon has appeared in the cited literature, museum catalogs, or specimens labels, which may not reflect revisions made in the past 20 years.
- **A Source** for the name
UAM specimen available in the University of Alaska Museum Aquatic Collection
EVOS specimen archived as part of Exxon Valdez oil spill damage assessment studies
Other sources are in Literature Cited section of this report.
- **Habitat**
For most invertebrates the following conventions are used:
I intertidal Inf infauna P plankton
ST subtidal Epi epifauna

Abbreviations used in the fish, bird and mammal sections will be given with the Summary Information for those taxa.

- **Bioregion**

An “x” marks the presence of a species in the large scale bioregions: Northwestern Pacific (NWP), Arctic (AR), and Northeastern Atlantic (NWA) (Figures 1, 2). Occurrence of each species within the northeastern Pacific bioregion is further designated by Roman numerals denoting a small scale bioregion (Figure 3).

- **Origin**

For species that represent a new collecting record or nonindigenous species, “origin” indicates the area closest to Prince William Sound from which the species is likely to have spread.

- **NIS status**

nr	range extension within Alaska to Prince William Sound
NR	new record for Alaska
C	cryptogenic
definite	definite nonindigenous species
possible	likely a nonindigenous species

- **Reference to Distribution**

Literature source for distributional information.

Summary information for major taxa

Marine Plants

Red, brown, and green algae account for over 90% of the 231 marine plants listed in the data set (Table 10.1). Ten taxa could not be determined to the species level. The non-vascular plant species lists is based on G. Hansen’s (2000) report and cataloged UAM specimens. Records of Chrysophyta and Ascomycota are based on Feder and Keiser 1980, and Feder and Bryson-Schwafel 1988. Additional distribution information is derived from Scagel et al. 1986 and Lindstrom 1977. Ten vascular plants species are included. The surfgrasses and eelgrass are obvious vascular plants, but a few other species are included because of their presence in the upper intertidal and splash zones. Sources used are Scheel et al. 1997; Hulten 1968, and Hansen 2000. Hansen (2000) found 17 new distributional records for marine plants in Prince William Sound. There is one undescribed species, a *Coilodesme* and six species are possibly introduced.

Table 10.1. Marine plants.

PHYLUM	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	COMMUNI TY	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Ascomycota	Verrucaricaea	<i>Verrucaria</i>	<i>mucosa</i>		Feder and Bryson-Schwafel 1988	I	II III IV	x		x		C	Hansen 2000
Ascomycota	Verrucaricaea	<i>Verrucaria</i>	<i>maura</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Chlorophyta	Acrosiphoniaceae	<i>Acrosiphonia</i>	<i>saxitilis</i>	<i>Spongomorpha</i>	Hansen 2000	I	II III IV	x					Hansen 2000
Chlorophyta	Acrosiphoniaceae	<i>Acrosiphonia</i>	<i>arcta</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Chlorophyta	Acrosiphoniaceae	<i>Acrosiphonia</i>	<i>coalita</i>		Hansen 2000	I	II III IV						Hansen 2000
Chlorophyta	Acrosiphoniaceae	<i>Urospora</i>	<i>penicilliformis</i> ?		Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Capsosiphonaceae	<i>Capsosiphon</i>	<i>fulvescens</i>		Hansen 2000	I	II III IV	x		x	BC	NR, C	Hansen 2000
Chlorophyta	Chlorocystidaceae	<i>Halochlorococcum</i>	<i>moorei</i>		Hansen 2000	I	II III IV	x		x	BC	NR, C	Hansen 2000
Chlorophyta	Cladophoraceae	<i>Chaetomorpha</i>	<i>capillaris/ cannabina</i>		Hansen 2000	I	II III IV	x		x			Hansen 2000
Chlorophyta	Cladophoraceae	<i>Chaetomorpha</i>	<i>recurva</i>		Hansen 2000	I	II III IV				WA	NR	Hansen 2000
Chlorophyta	Cladophoraceae	<i>Cladophora</i>	<i>sericea</i>	<i>C. gracilis</i>	Hansen 2000	I	II III IV					C	Hansen 2000
Chlorophyta	Cladophoraceae	<i>Cladophora</i>	<i>albida</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Chlorophyta	Cladophoraceae	<i>Cladophora</i>	<i>hutchinsiae</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Chlorophyta	Cladophoraceae	<i>Cladophora</i>	<i>stimpsonii</i>		Hansen 2000	I	II III IV						Hansen 2000
Chlorophyta	Cladophoraceae	<i>Rhizoclonium</i>	<i>implexum</i>	<i>R. implexum</i>	Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Cladophoraceae	<i>Rhizoclonium</i>	<i>riparium</i>		Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Cladophoraceae	<i>Rhizoclonium</i>	<i>tortuosum</i>		Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Codiaceae	<i>Codium</i>	<i>fragile</i> subsp. <i>fragile</i>		Hansen 2000	I	II III IV V VI				SE Alaska	nr	Hansen 2000
Chlorophyta	Codiaceae	<i>Codium</i>	<i>fragile</i> subsp. <i>tomentosoides</i> ? <i>fragile</i>		Hansen 2000	I	x	x		x	WA	probable	Hansen 2000
Chlorophyta	Collinsiellaceae	<i>Collinsiella</i>	<i>tuberculata</i>		Feder and Bryson-Schwafel 1988	I	II III IV						Scagel et al. 1986
Chlorophyta	Gayraliaceae	<i>Gayralia</i>	<i>oxyspermum</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Chlorophyta	Monostromataceae	<i>Monostroma</i>	<i>fractum</i>		Hansen 2000	I	II III IV				WA	NR	Hansen 2000
Chlorophyta	Monostromataceae	<i>Monostroma</i>	<i>grevillei/arcticum</i>	<i>M. arcticum</i>	Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Chlorophyta	Ulotrichaceae	<i>Ulothrix</i>	<i>flacca</i>	<i>U. pseudoflacca</i>	Feder and Bryson-Schwafel 1988	I	II III IV	x		x		C	Scagel et al. 1986
Chlorophyta	Ulotrichaceae	<i>Ulothrix</i>	<i>implexa</i> (non <i>flacca</i>)		Hansen 2000	I	II III IV			x		C	Scagel et al. 1986
Chlorophyta	Ulvaceae	<i>Blidingia</i>	<i>chadefauldi</i>		Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Ulvaceae	<i>Blidingia</i>	<i>marginata</i>		Hansen 2000	I	x	x		x	BC	NR, C	Hansen 2000
Chlorophyta	Ulvaceae	<i>Blidingia</i>	<i>minima</i>		Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Ulvaceae	<i>Blidingia</i>	<i>subsalsa</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Chlorophyta	Ulvaceae	<i>Enteromorpha</i>	<i>compressa</i>		Feder and Bryson-Schwafel 1988	I	x	x		x		C	Scagel et al. 1986
Chlorophyta	Ulvaceae	<i>Enteromorpha</i>	<i>clathrata</i>	<i>E. crinita</i>	Hansen 2000	I	x	x		x		C	Scagel et al. 1986
Chlorophyta	Ulvaceae	<i>Enteromorpha</i>	<i>intestinalis</i>		Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Ulvaceae	<i>Enteromorpha</i>	<i>linza</i>		Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Ulvaceae	<i>Enteromorpha</i>	<i>prolifera/torta</i>		Hansen 2000	I	x	x		x		C	Hansen 2000
Chlorophyta	Ulvaceae	<i>Kormmannia</i>	<i>leptoderma</i>		Hansen 2000	I/epilithic	II III IV	x		x	North Atlantic	NR, C	Hansen 2000

Table 10.1. Continued.

PHYLUM	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	COMMUNI TY	BIOREGION				NIS STATUS	REFERENCE to DISTRIBUTION	
							NEP	NWP	AR	NWA			
Chlorophyta	Ulviceae	<i>Kornmannia</i>	<i>zostericola</i>		Hansen 2000	I/epiphytic	II III IV	x		x		C	Hansen 2000
Chlorophyta	Ulviceae	<i>Ulva</i>	<i>fenestrata</i>	<i>U. lactuca</i>	Feder and Bryson-Schwafel 1988	I	II III IV	x					Scagel et al. 1986
Chlorophyta	Ulviceae	<i>Ulva</i>	<i>fenestrata/expansa/lactuca</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000
Chlorophyta	Ulviceae	<i>Ulvaria</i>	<i>obscura</i>	<i>Monostroma fuscum</i>	Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Chlorophyta	Ulvellaceae	<i>Ulvella</i>	<i>setchelli</i>		Hansen 2000	I/epiphytic/epndophytic	II III IV V VI	x				C	Hansen 2000
Chlorophyta	Cladophoraceae	<i>Percursaria</i>	<i>percursa</i>		Hansen 2000	brack/I	x	x	x	x		C	Hansen 2000
Cyanophyta		<i>Calothryx</i>	<i>crustacea</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000
Cyanophyta		<i>Rivularia</i>	<i>atra</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000
Phaeophyta	Alariaceae	<i>Alaria</i>	<i>prelonga/marginata taeniata/augusta/crispa</i>		Hansen 2000	I/ST	II III IV V	x					Hansen 2000
Phaeophyta	Alariaceae	<i>Alaria</i>	<i>tenuifolia/pylarii/membranacea</i>		Hansen 2000	I/ST	II III IV	x					Hansen 2000
Phaeophyta	Chordaceae	<i>Chorda</i>	<i>filum</i>		Hansen 2000	I/ST	II III IV	x		x			Hansen 2000
Phaeophyta	Chordariaceae	<i>Chordaria</i>	<i>flagelliformis</i>		Hansen 2000	I/ST	II III IV	x		x	x	C	Hansen 2000
Phaeophyta	Chordariaceae	<i>Chordaria</i>	<i>gracilis</i>		Hansen 2000	I/ST	II III IV	x				C	Hansen 2000
Phaeophyta	Chordariaceae	<i>Eudesme</i>	<i>virescens</i>		Hansen 2000	I	II III IV	x		x			Hansen 2000
Phaeophyta	Chordariaceae	<i>Saundersella</i>	<i>simplex</i>		UAM	I/epiphytic	II III IV	x					Scagel et al. 1986
Phaeophyta	Coilodesmaceae	<i>Coilodesme</i>	<i>bulligera</i>	<i>C. polygnampta</i>	Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Phaeophyta	Coilodesmaceae	<i>Coilodesme</i>	<i>californica</i>		Hansen 2000	I/ST/epiphytic	II III IV V VI						Hansen 2000
Phaeophyta	Coilodesmaceae	<i>Coilodesme</i>	undescribed		Hansen 2000	I	II III			x			Hansen 2000
Phaeophyta	Cystoseiraceae	<i>Cystoceria</i>	<i>germinata</i>		Hansen 2000	I/ST	II III IV	x					Hansen 2000
Phaeophyta	Desmarestiaceae	<i>Desmarestia</i>	<i>lingulata</i>		UAM	I/ST	II III IV V VI						Scagel et al. 1986
Phaeophyta	Desmarestiaceae	<i>Desmarestia</i>	<i>viridis</i>	<i>D. media</i>	UAM	I/ST	II III IV V VI	x		x		C	Scagel et al. 1986
Phaeophyta	Desmarestiaceae	<i>Desmarestia</i>	<i>viridis</i>		Hansen 2000	I/ST	II III IV V VI	x		x			Hansen 2000
Phaeophyta	Desmarestiaceae	<i>Desmarestia</i>	<i>aculeata</i>	<i>D. intermedia</i>	UAM	I/ST	II III IV	x		x		C	Hansen 2000
Phaeophyta	Dictyosiphonaceae	<i>Dictyosiphon</i>	<i>foeniculaceus</i>		Hansen 2000	I	II III IV			x	x	C	Hansen 2000
Phaeophyta	Dictyosiphonaceae	<i>Dictyosiphon</i>	<i>sinicola</i>		UAM	I	II III IV						Scagel et al. 1986
Phaeophyta	Ectocarpaceae	<i>Ectocarpus</i>	<i>parvus</i>		Hansen 2000	I	II III IV V VI						Hansen 2000
Phaeophyta	Ectocarpaceae	<i>Ectocarpus</i>	<i>siliculosus</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000
Phaeophyta	Ectocarpaceae	<i>Ectocarpus</i>	<i>acutus</i>		Hansen 2000	I	II III IV V						Hansen 2000
Phaeophyta	Ectocarpaceae	<i>Ectocarpus</i>	<i>dimorpha</i>	<i>E. dimorphus</i>	Hansen 2000	I	II III IV V						Hansen 2000
Phaeophyta	Ectocarpaceae	<i>Ectocarpus</i>	sp. (<i>Acinetospora?</i>)		Hansen 2000	I	II III IV V						Hansen 2000
Phaeophyta	Ectocarpaceae	<i>Pilayella</i>	<i>littoralis</i>		Hansen 2000	I	x	x	x	x			Hansen 2000

Table 10.1. Continued.

PHYLUM	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	COMMUNI TY	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Phaeophyta	Ectocarpaceae	<i>Pilayella</i>	<i>littoralis/washingtoniensis</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000
Phaeophyta	Ectocarpaceae	<i>Pilayella</i>	unidentified		Hansen 2000	I/epiphytic	II						Hansen 2000
Phaeophyta	Ectocarpaceae	<i>Spongonema</i>	<i>tomentosum</i>		Hansen 2000	I/epiphytic	II III IV V VI	x	x	x		C	Hansen 2000
Phaeophyta	Elachistaceae	<i>Elachista</i>	<i>fucicola</i>		Hansen 2000	I/epiphytic	II III IV V	x		x			Hansen 2000
Phaeophyta	Elachistaceae	<i>Elachista</i>	<i>lubrica/gardneri/distichus/evanensis</i>		Hansen 2000	I/epiphytic	II III		x	x			Hansen 2000
Phaeophyta	Fucaceae	<i>Fucus</i>	<i>evanensis</i>		Hansen 2000	I	II III IV V					C	Hansen 2000
Phaeophyta	Fucaceae	<i>Fucus</i>	<i>cottoni</i>		Hansen 2000	I	II III IV	x		x	North Atlantic	probable	Hansen 2000
Phaeophyta	Fucaceae	<i>Fucus</i>	<i>spiralis</i>		UAM	I	II III IV					C	Hansen 2000
Phaeophyta	Heterochordariaceae	<i>Analipus</i>	<i>japonicus</i>		UAM	I	II III IV V	x					Scagel et al. 1986
Phaeophyta	Laminariaceae	<i>Agarum</i>	<i>clathratum (cribrosum)</i>		Hansen 2000	ST	II III IV	x		x		C	Hansen 2000
Phaeophyta	Laminariaceae	<i>Costaria</i>	<i>costata</i>		Hansen 2000	I	II III IV	x					Hansen 2000
Phaeophyta	Laminariaceae	<i>Cymathere</i>	<i>triplicata</i>		Hansen 2000	ST	II III IV	x					Hansen 2000
Phaeophyta	Laminariaceae	<i>Hedophyllum</i>	<i>sessile</i>		UAM	I	II III IV V						Scagel et al. 1986
Phaeophyta	Laminariaceae	<i>Laminaria</i>	<i>groenlandica "groenlandica"/bongardiana</i>		Feder and Bryson-Schwafel 1988	I/ST	II III IV						Scagel et al. 1986
Phaeophyta	Laminariaceae	<i>Laminaria</i>	<i>bongardiana</i>		Hansen 2000	ST	II III IV	x		x			Hansen 2000
Phaeophyta	Laminariaceae	<i>Laminaria</i>	<i>dentigera</i>		UAM	ST	II III IV	x					Scagel et al. 1986
Phaeophyta	Laminariaceae	<i>Laminaria</i>	<i>longipes</i>		UAM	I/ST	II III IV	x					Scagel et al. 1986
Phaeophyta	Laminariaceae	<i>Laminaria</i>	<i>yezoensis</i>		Hansen 2000	I	II III IV	x					Hansen 2000
Phaeophyta	Laminariaceae	<i>Laminaria</i>	<i>saccharina</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Phaeophyta	Laminariaceae	<i>Pleurophycus</i>	<i>gardneri</i>		UAM	ST	II III IV V						Scagel et al. 1986
Phaeophyta	Leathesiaceae	<i>Leathesia</i>	<i>difformis</i>		Feder and Bryson-Schwafel 1988	I	x	x	x	x		C	Scagel et al. 1986
Phaeophyta	Leathesiaceae	<i>Leathesia</i>	<i>nana</i>		Hansen 2000	I	II III IV V VI						Hansen 2000
Phaeophyta	Lessoniaceae	<i>Macrocystis</i>	<i>integrifolia</i>		UAM	ST	II III IV V VI				SE Alaska	definate	Hansen 2000
Phaeophyta	Lessoniaceae	<i>Nereocystis</i>	<i>leutkeana</i>		UAM	ST	II III IV V						Scagel et al. 1986
Phaeophyta	Punctariaceae	<i>Delamarea</i>	<i>attenuata</i>		Hansen 2000	I	II III IV	x		x	Commander Islands	NR, C	Hansen 2000
Phaeophyta	Punctariaceae	<i>Myelophycus</i>	<i>intestinalis latifolia (Desmotrichium)</i>	<i>Melanosiphon</i>	Feder and Bryson-Schwafel 1988	I	II III IV	x		x		C	Scagel et al. 1986
Phaeophyta	Punctariaceae	<i>Punctaria</i>	<i>lobata</i>		Hansen 2000	ST	II III IV	x		x	SE Alaska	nr	Hansen 2000
Phaeophyta	Punctariaceae	<i>Punctaria</i>	<i>lobata</i>		Hansen 2000	E/ST/epiphytic	II III IV						Hansen 2000
Phaeophyta	Punctariaceae	<i>Punctaria</i>	<i>plantagenea</i>		Hansen 2000	I	II III IV	x		x	Japan	NR, C	Hansen 2000

Table 10.1. Continued.

PHYLUM	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	COMMUNI TY	BIOREGION					ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA				
Phaeophyta	Punctariaceae	<i>Punctaria</i>	<i>tenuimissima</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000	
Phaeophyta	Punctariaceae	<i>Soranthera</i>	<i>ulvoidea</i>		Hansen 2000	I	II III IV	x				C	Hansen 2000	
Phaeophyta	Punctariaceae	<i>Soranthera</i>	<i>ulvoidea</i> f. <i>difformis</i>		Hansen 2000	I/epiphytic	II III IV	x				C	Hansen 2000	
Phaeophyta	Ralfsiaceae	<i>Microspongium</i>	<i>globosum</i>		Hansen 2000	I/epiphytic	II III IV	x		x	Japan	probable	Hansen 2000	
Phaeophyta	Ralfsiaceae	<i>Ralfsia</i>	<i>fungiformis</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000	
Phaeophyta	Scytosiphonaceae	<i>Colpomenia</i>	<i>peregrina</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000	
Phaeophyta	Scytosiphonaceae	<i>Colpomenia</i>	<i>bullosa</i>		Hansen 2000	I/epiphytic	II III IV	x				C	Hansen 2000	
Phaeophyta	Scytosiphonaceae	<i>Petalonia</i>	<i>fascia</i>		Hansen 2000	I/ST	x	x	x	x		C	Hansen 2000	
Phaeophyta	Scytosiphonaceae	<i>Scytosiphon</i>	<i>lomentaria</i>		Feder and Bryson-Schwafel 1988	I	x	x	x	x		C	Scagel et al. 1986	
Phaeophyta	Scytosiphonaceae	<i>Scytosiphon</i>	<i>simplicissima</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000	
Phaeophyta	Sphacelariaceae	<i>Sphacelaria</i>	<i>racemosa</i>		Hansen 2000	I/ST	II III IV	x		x		C	Hansen 2000	
Phaeophyta	Sphacelariaceae	<i>Sphacelaria</i>	<i>rigidula</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000	
Rhodophyta	Acrochaetiaceae	<i>Acrochaetium</i>	unidentified		UAM	I						C		
Rhodophyta	Acrochaetiaceae	<i>Audouinella</i>	<i>membranaceum</i>	<i>Rhodochorton membranaceum</i>	UAM	I	x	x	x	x		C	Scagel et al. 1986	
Rhodophyta	Acrochaetiaceae	<i>Audouinella</i>	<i>purpurea</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Bangia</i>	<i>atropurpurea</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	<i>cuneiformis</i>		Hansen 2000	I/ST	II III IV					C	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	<i>miniata</i>		Hansen 2000	I/ST	II III IV	x		x	Commander Islands	NR	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	<i>mumfordii</i>		Hansen 2000	I/ST	II III IV					C	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	<i>nereocystis</i>		Hansen 2000	ST/epiphytic	II III IV					C	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	<i>perforata</i>		Hansen 2000	I	II III IV	x				C	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	<i>purpureo-violacea?</i>		Hansen 2000	I/ST	II III IV	x		x	North Atlantic	NR, C	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	<i>rediviva</i>		Hansen 2000	I	II III IV				WA	NR	Hansen 2000	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	cf. <i>P. thuretti</i>		Feder and Bryson-Schwafel 1988	I	II III IV					C	Scagel et al. 1986	
Rhodophyta	Bangiaceae	<i>Porphyra</i>	<i>torta/abbottae</i>		Hansen 2000	I	II III IV	x				C	Hansen 2000	
Rhodophyta	Ceramiaceae	<i>Antithamnion</i>	<i>dendroideum</i>		UAM	ST	II III IV V VI VII VIII IX					C	Scagel et al. 1986	
Rhodophyta	Ceramiaceae	<i>Antithamnionella</i>	<i>pacifica</i>		Hansen 2000	ST/epiphytic	II III IV					C	Hansen 2000	
Rhodophyta	Ceramiaceae	<i>Antithamnionella</i>	<i>spirographidis</i>		Hansen 2000	I	II III IV	x	x	x		C	Scagel et al. 1986	
Rhodophyta	Ceramiaceae	<i>Callithamnion</i>	<i>acutum</i>		Hansen 2000	I	II III IV					C	Hansen 2000	
Rhodophyta	Ceramiaceae	<i>Callithamnion</i>	<i>pikeanum</i> v. <i>laxum</i>		Hansen 2000	I	II III IV					C	Hansen 2000	
Rhodophyta	Ceramiaceae	<i>Callithamnion</i>	<i>pikeanum</i> v. <i>pikeaum</i>		Hansen 2000	I	II III IV					C	Hansen 2000	

Table 10.1. Continued.

PHYLUM	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	COMMUNI TY	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Rhodophyta	Ceramiaceae	<i>Callophyllis</i>	unidentified		Feder and Bryson-Schwafel 1988	I	II III IV						
Rhodophyta	Ceramiaceae	<i>Ceramium</i>	<i>gardneri</i>		Hansen 2000	I	II III IV						Hansen 2000
			<i>pacificum/</i>										
Rhodophyta	Ceramiaceae	<i>Ceramium</i>	<i>washingtoniensis</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Ceramiaceae	<i>Ceramium</i>	<i>rubrum/kondoii</i>		Hansen 2000	I	x	x	x	x			Hansen 2000
Rhodophyta	Ceramiaceae	<i>Ceramium</i>	<i>cimbricum</i>		Hansen 2000	I	II III IV	x		x			Hansen 2000
Rhodophyta	Ceramiaceae	<i>Ceramium</i>	<i>sinicola ?</i>		Hansen 2000	I	II III IV				CA	probable	Hansen 2000
Rhodophyta	Ceramiaceae	<i>Ceramium</i>	<i>rubrum</i>		UAM	I	x	x	x	x			Scagel et al. 1986
Rhodophyta	Ceramiaceae	<i>Hollenbergia</i>	unidentified		UAM	I/ST							Scagel et al. 1986
Rhodophyta	Ceramiaceae	<i>Hollenbergia</i>	<i>subulata</i>		UAM	I/ST	II III IV V						Scagel et al. 1986
Rhodophyta	Ceramiaceae	<i>Microcladia</i>	<i>borealis</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Ceramiaceae	<i>Neoptilota</i>	<i>asplenioides</i>		Hansen 2000	I/ST	II III IV	x					Hansen 2000
Rhodophyta	Ceramiaceae	<i>Platythamnion</i>	<i>pectinatum</i>		Hansen 2000	ST	II III IV						Hansen 2000
Rhodophyta	Ceramiaceae	<i>Plenosporium</i>	cf. <i>P. vancouverianum</i>		Hansen 2000	ST	II III IV	x					Hansen 2000
Rhodophyta	Ceramiaceae	<i>Ptilota</i>	<i>serrata</i> (incl. <i>pectinata</i>)		Hansen 2000	I/ST	II III IV	x		x		C	Hansen 2000
Rhodophyta	Ceramiaceae	<i>Ptilota</i>	<i>californica</i>		UAM	I/ST	II III IV	x				C	Scagel et al. 1986
Rhodophyta	Ceramiaceae	<i>Ptilota</i>	<i>plumosa</i>	<i>P. p v. filicina</i>	UAM	I/ST	II III IV V VI	x				C	Abbott and Hollenberg 1976
Rhodophyta	Ceramiaceae	<i>Ptilota</i>	<i>filicina</i>	<i>P. tenuis</i>	Hansen 2000	I/ST	II III IV						Hansen 2000
Rhodophyta	Ceramiaceae	<i>Scagiella</i>	<i>americana</i>		Hansen 2000	I	II III IV	x		x		C	Hansen 2000
Rhodophyta	Choreocolacaceae	<i>Leachiella</i>	<i>pacifica</i>		Hansen 2000	I	II III IV V VI	x					Hansen 2000
Rhodophyta	Cladophoraceae	<i>Chroodactylon</i>	<i>ramosus</i>		Hansen 2000	I	II III IV	x		x	CA	probable	Hansen 2000
Rhodophyta	Corallinaceae	<i>Bossiella</i>	<i>chiloensis</i>		UAM	I/ST	II III IV						Scagel et al. 1986
Rhodophyta	Corallinaceae	<i>Bossiella</i>	<i>cretacea</i>		UAM	I/ST	II III IV	x					Scagel et al. 1986
Rhodophyta	Corallinaceae	<i>Bossiella</i>	<i>plumosa</i>		UAM	I	II III IV						Scagel et al. 1986
Rhodophyta	Corallinaceae	<i>Calliarthron</i>	unidentified		UAM	I							Scagel et al. 1986
Rhodophyta	Corallinaceae	<i>Clathromorphum</i>	<i>reclinatum</i>			I/epiphytic	II III IV V VI	x					Scagel et al. 1986
Rhodophyta	Corallinaceae	<i>Corallina</i>	<i>frondescens</i>		Hansen 2000	I	II III IV						Hansen 2000
							II III IV V VI						
Rhodophyta	Corallinaceae	<i>Corallina</i>	<i>officinalis</i> v. <i>chilensis</i>		Hansen 2000	I/ST	VII VII VIII IX	x					Hansen 2000
Rhodophyta	Corallinaceae	<i>Corallina</i>	<i>vancouverensis</i>		UAM	I	II III IV						Scagel et al. 1986
Rhodophyta	Corallinaceae	<i>Lithophyllum</i>	<i>dispar</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Corallinaceae	<i>Lithothamnion</i>	unidentified			I							Scagel et al. 1986
Rhodophyta	Corallinaceae	<i>Mesophyllum</i>	<i>lamellatum</i>		Scagel 1986	I	II III IV V VI						Scagel et al. 1986
Rhodophyta	Delesseriaceae	<i>Delesseria</i>	<i>decipiens</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Delesseriaceae	<i>Phycodrys</i>	<i>riggii</i>		Hansen 2000	I/ST	II III IV	x					Hansen 2000
Rhodophyta	Delesseriaceae	<i>Tokidadendron</i>	<i>kurilensis</i>	<i>T. bullata</i>	Hansen 2000	I	II III IV	x					Hansen 2000

Table 10.1. Continued.

PHYLUM	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	COMMUNI TY	BIOREGION					NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA	ORIGIN		
Rhodophyta	Dumontiaceae	<i>Cryptosiphonia</i>	<i>woodii</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Dumontiaceae	<i>Weeksia</i>	<i>coccinea</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Dumontiaceae	<i>Constantinea</i>	<i>subulifera</i>		Hansen 2000	I	II III IV	x					Hansen 2000
Rhodophyta	Dumontiaceae	<i>Constantinea</i>	<i>simplex</i>		Feder and Bryson-Schwafel 1988	I	II III IV V						Scagel et al. 1986
Rhodophyta	Dumontiaceae	<i>Dumontia</i>	<i>simplex</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Dumontiaceae	<i>Dumontia</i>	<i>contorta</i>	<i>D. incrassata</i>	Hansen 2000	I	II III IV	x	x			C	Hansen 2000
Rhodophyta	Dumontiaceae	<i>Farlowia</i>	<i>mollis</i>		UAM	I/ST	II III IV V VI	x					Scagel et al. 1986
Rhodophyta	Dumontiaceae	<i>Neodilsea</i>	unidentified		UAM	I							Hansen 2000
Rhodophyta	Endocliadiaceae	<i>Endocladia</i>	<i>muricata</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Endocliadiaceae	<i>Gloiopeltis</i>	<i>furcata</i>		Hansen 2000	I	II III IV	x					Hansen 2000
Rhodophyta	Erythropeltidaceae	<i>Erythrotrichia</i>	<i>carnea</i>		Hansen 2000	I	x	x	x	x			Hansen 2000
Rhodophyta	Erythropeltidaceae	<i>Smithoria</i>	<i>naiadum</i>		Hansen 2000	ST/epiphytic	II III IV						Hansen 2000
Rhodophyta	Gigartinaeae	<i>Gigartina</i>	unidentified		UAM	I/ST							Hansen 2000
Rhodophyta	Gigartinaeae	<i>Iridaea</i>	<i>cordata</i>		UAM	I/ST	II III IV	x					Scagel et al. 1986
Rhodophyta	Gigartinaeae	<i>Iridaea</i>	<i>cornucopiae</i>		Feder and Bryson-Schwafel 1988	I	II III IV	x					Scagel et al. 1986
Rhodophyta	Gigartinaeae	<i>Rhodoglossum</i>	<i>latissimum</i>		UAM	I	II III IV						Scagel et al. 1986
Rhodophyta	Halemeniaceae	<i>Cryptonemia</i>	<i>obovata</i>		Hansen 2000	I	II III IV	x					Hansen 2000
Rhodophyta	Halemeniaceae	<i>Cryptonemia</i>	<i>borealis</i>		Hansen 2000	I	II III IV	x					Hansen 2000
Rhodophyta	Helminthocliadiaceae	<i>Nemalion</i>	<i>helminthoides</i>		Hansen 2000	I	x	x	x	x			Hansen 2000
Rhodophyta	Hildenbrandiaceae	<i>Hildenbrandia</i>	<i>rubra</i>	<i>H. prototypus</i> <i>N. americana</i> / <i>Schizymenia</i>	Hansen 2000	I	x	x	x	x			Scagel et al. 1986
Rhodophyta	Nemastomataceae	<i>Neodilsea</i>	<i>borealis</i>		UAM	I	II III IV						Scagel et al. 1986
Rhodophyta	Palmariaceae	<i>Devaleraea</i>	<i>ramentacea</i>		Hansen 2000	I	II III IV	x		x			Hansen 2000
Rhodophyta	Palmariaceae	<i>Halosaccion</i>	<i>glandiforme</i>		Hansen 2000	I	II III IV	x					Hansen 2000
Rhodophyta	Palmariaceae	<i>Halosaccion</i>	<i>firmum</i>		Hansen 2000	I	II III IV			x			Hansen 2000
Rhodophyta	Palmeriaceae	<i>Palmaria</i>	<i>mollis/palmata</i> <i>calophylloides</i> / <i>stenogona</i>		Hansen 2000	I	II III IV	x		x			Hansen 2000
Rhodophyta	Palmeriaceae	<i>Palmaria</i>	<i>hecatensis</i>		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Petrocelidaceae	<i>Mastocarpus</i>	cf. <i>M. pacificus</i> ?		Hansen 2000	I	II III IV	x					Hansen 2000
Rhodophyta	Petrocelidaceae	<i>Mastocarpus</i>	<i>papillatus</i> complex		Hansen 2000	I	II III IV						Hansen 2000
Rhodophyta	Petrocelidaceae	<i>Mastocarpus</i>	<i>papillatus</i>	<i>Gigartina cristata</i>	UAM	I	II III IV V VI VII VIII IX						Scagel et al. 1986
Rhodophyta	Phylloporaceae	<i>Ahnfeltia</i>	<i>plicata</i>		UAM	I	II III IV			x	x		Scagel et al. 1986
Rhodophyta	Phylloporaceae	<i>Ahnfeltia</i>	<i>fastigata</i>		Hansen 2000	I	x	x	x	x			Hansen 2000
Rhodophyta	Phylloporaceae	<i>Ahnfeltiopsis</i>	<i>gigartinoides</i>	<i>Arnfeltia</i>	Hansen 2000	I	II III IV						Hansen 2000

Table 10.1. Continued.

PHYLUM	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	COMMUNI TY	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION	
							NEP	NWP	AR	NWA				
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>brodiaei</i>		Hansen 2000	I	x	x	x	x		C	Hansen 2000	
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>eastwoodae</i>		Hansen 2000	I	II III IV						Hansen 2000	
			<i>hendryi</i> v.											
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>deliquescens</i>		Hansen 2000	I	II III IV						Hansen 2000	
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>hendryi</i> v. <i>hendryi</i>		Hansen 2000	I	II III IV						Hansen 2000	
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>hendryi</i> v. <i>luxurians</i>		Hansen 2000	I	II III IV						Hansen 2000	
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>hendryi</i> v. <i>pacifica</i>		Hansen 2000	I	II III IV						Hansen 2000	
			<i>pacifica</i> v.											
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>determinata?</i>		Hansen 2000	I/ST	II III IV						Hansen 2000	
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>pacifica</i> v. <i>pacifica</i>		Hansen 2000	I/ST	II III IV						Hansen 2000	
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>pungens</i>		Hansen 2000	I	II III IV						Hansen 2000	
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>hendryi</i>	<i>P. collinsii</i>	UAM	I	II III IV				x		Scagel et al. 1986	
					Feder and Bryson-Schwafel 1988	I	II III IV						Scagel et al. 1986	
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>senticulosa</i>		Hansen 2000	I	II III IV					SE Alaska	nr	Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>stricta</i> (<i>ureceolata</i>)		Hansen 2000	I	II III IV		x		x			Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Polysiphonia</i>	<i>ureceolata</i>		Hansen 2000	I	x		x		x			Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Pterosiphonia</i>	<i>bipinnata</i>		Hansen 2000	I	II III IV		x					Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Rhodomela</i>	<i>lycopodioides</i>		Hansen 2000	I	II III IV		x		x		C	Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Neorhodomela</i>	<i>larix</i>	<i>Rhodomela</i>	Hansen 2000	I/ST	II III IV		x					Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Neorhodomela</i>	<i>aculaeta</i>		Hansen 2000	I/ST	II III IV		x					Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Neorhodomela</i>	<i>oregona</i>		Hansen 2000	I/ST	II III IV		x					Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Odonthalia</i>	<i>floccosa</i>		Hansen 2000	I	II III IV							Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Odonthalia</i>	<i>kamtschatica</i>		Hansen 2000	I	II III IV		x					Hansen 2000
Rhodophyta	Rhodomelaceae	<i>Odonthalia</i>	<i>setacea</i>		Hansen 2000	I	II III IV		x					Hansen 2000
Rhodophyta	Rhodymeniaceae	<i>Rhodymenia</i>	<i>pertusa</i>		Hansen 2000	I	II III IV				x			Hansen 2000
Rhodophyta	Solieriaceae	<i>Opuntia</i>	<i>californica</i>		Hansen 2000	ST	II III IV							Hansen 2000
Rhodophyta	Gigartinaeae	<i>Mazzaella</i>	<i>heterocarpa</i>		Hansen 2000	I	II III IV							Hansen 2000
Rhodophyta	Gigartinaeae	<i>Mazzaella</i>	<i>phylocarpa</i>		Hansen 2000	I	II III IV		x					Hansen 2000
Rhodophyta	Gigartinaeae	<i>Mazzaella</i>	<i>splendescens</i>		Hansen 2000	I	II III IV							Hansen 2000
Xanthophyta		<i>Vaucheria</i>	<i>longicaulis</i> (?)		Hansen 2000	I	II III IV		x		x	BC	NR	Hansen 2000
vascular plant	Caryophyllaceae	<i>Honchneya</i>	<i>peplodes</i>		Scheel et al. 1997	I	II III IV		x					Hulten 1968
vascular plant	Cyperaceae	<i>Carex</i>	unidentified		Feder and Bryson-Schwafel	I								Hulten 1968
vascular plant	Gramineae	<i>Puccinellia</i>	<i>nutkaensis</i>		Scheel et al. 1997	I	II III IV							Hulten 1968
vascular plant	Gramineae	<i>Puccinellia</i>	<i>plumila</i>		Hulten 1968	I	II III IV							Hulten 1968
vascular plant	Primulaceae	<i>Glaux</i>	<i>maritima</i>		Scheel et al. 1997	I	II III IV		x		x			Hulten 1968
vascular plant	Rosaceae	<i>Potentilla</i>	unidentified		Feder and Bryson-Schwafel	I								Hulten 1968
vascular plant	Sparganiaceae	<i>Phyllospadix</i>	<i>scouleri</i>		Hansen 2000	I/ST	II III IV							Hulten 1968
vascular plant	Sparganiaceae	<i>Phyllospadix</i>	<i>serrulatus</i>		Hansen 2000	I/ST	II III IV							Hulten 1968
vascular plant	Sparganiaceae	<i>Zostera</i>	<i>marina</i>		Hansen 2000	I/ST	II III IV		x		x			Hulten 1968

Table 10.2 continued.

PHYLUM/ CLASS	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Cnidaria:													
Hydrozoa	Pandeidae	<i>Catablema</i>	<i>multicirrata</i>		Mills 2000	ST/Epi	II III IV	x					Austin 1985
Cnidaria:													
Hydrozoa	Pandeidae	<i>Halitholus</i>	unidentified		Mills 2000	ST							
Cnidaria:													
Hydrozoa	Pandeidae	<i>Leuckartiara</i>	<i>breviconis</i>	<i>Neoturris</i>	Cooney 1987	P	II III IV						Austin 1985
Cnidaria:				<i>Catablema</i>									
Hydrozoa	Pandeidae	<i>Leuckartiara</i>	<i>nobilis</i>	<i>nodulosa</i>	Cooney 1987	P	II III IV						Austin 1985
Cnidaria:													
Hydrozoa	Pandeidae	<i>Leuckartiara</i>	<i>octona</i>		Cooney 1987	P	II III IV						Austin 1985
Cnidaria:													
Hydrozoa	Pandeidae	<i>Leuckartiara</i>	unidentified		Mills 2000	I/ST/Epi							
Cnidaria:													
Hydrozoa	Pandeidae	<i>Neoturris</i>	<i>breviconis</i>		Wrobel and Mills 1998	P	II III IV V						Wrobel and Mills 1998
Cnidaria:													
Hydrozoa	Pandeidae	<i>Perigonimus</i>	unidentified		Cooney:SEA	P							
Cnidaria:													
Hydrozoa	Pandeidae	<i>Stomotoka</i>	<i>atra</i>		Wrobel and Mills 1998	P	II III						Wrobel and Mills 1998
Cnidaria:													
Hydrozoa	Periphyllidae	<i>Periphylla</i>	<i>periphylla</i>	<i>P. hyacinthina</i>	Cooney 1987	P	II III IV V VI				x		Wrobel and Mills 1998
Cnidaria:													
Hydrozoa	Phialellidae	<i>Campanulina</i>	<i>rugosa</i>		Mills 2000	ST	II III IV						Austin 1985
Cnidaria:													
Hydrozoa	Phialellidae	<i>Opercularella</i>	<i>lacerata</i>		Mills 2000	ST	II	x		x			Austin 1985
Cnidaria:													
Hydrozoa	Polyorchidae	<i>Polyorchis</i>	<i>penicillatus</i>		Wrobel and Mills 1998	P	II III IV V VI						Wrobel and Mills 1998
Cnidaria:													
Hydrozoa	Prayidae	<i>Nectopyramis</i>	<i>diomedea</i>		Cooney 1987	P	II III IV V VI				x		Austin 1985
Cnidaria:													
Hydrozoa	Prayidae	<i>Praya</i>	<i>reticulata</i>	<i>Nectodroma</i>	Cooney 1987	P	II III IV V VI VII VIII						Austin 1985
Cnidaria:													
Hydrozoa	Proboscoidactylidae	<i>Proboscoidactyla</i>	<i>flavicirrata</i>		Mills 2000	I/ST/Epi	II	x		x		SE Alaska nr	Wrobel and Mills 1998
Cnidaria:													
Hydrozoa	Protohydrae	<i>Protohydra</i>	unidentified		Feder and Bryson-Schwafel 1988								
Cnidaria:													
Hydrozoa	Rathkeidae	<i>Rathkea</i>	<i>jaschnowi</i>		Cooney:SEA	P	II	x				Bering Sea nr?	Naumov 1960
Cnidaria:													
Hydrozoa	Rathkeidae	<i>Rathkea</i>	<i>octopunctata</i>	<i>R. blumenbachii</i>	Cooney 1987	P	II III IV	x		x			Wrobel and Mills 1998
Cnidaria:													
Hydrozoa	Rathkeidae	<i>Rathkea</i>	unidentified		Cooney:SEA	P							
Cnidaria:													
Hydrozoa	Rhopalonematidae	<i>Aglantha</i>	<i>digitale</i>		Cooney and Coyle 1988	P/ST	II III IV	x		x			Wrobel and Mills 1998
Cnidaria:													
Hydrozoa	Rhopalonematidae	<i>Pantachogon</i>	<i>haekeli</i>		Cooney 1987	P	II III IV				x		Austin 1985
Cnidaria:													
Hydrozoa	Sertulariidae	<i>Sertularia</i>	<i>robusta</i>		Mills 2000	ST	II	x		x			Austin 1985
Cnidaria:													
Hydrozoa	Tubularidae	<i>Hybocodon</i>	<i>prolifer</i>		Cooney 1987	P	II III				x		Austin 1985
Cnidaria:													
Hydrozoa	Tubularidae	<i>Plotocnide</i>	<i>borealis</i>		Cooney:SEA	P	II III IV	x		x			Austin 1985
Cnidaria:													
Hydrozoa	Tubularidae	<i>Tubularia</i>	<i>prolifera</i>		Cooney:SEA	P	II	x		x	x		Austin 1985
Cnidaria:													
Scyphozoa	Cyaneidae	<i>Cyanea</i>	<i>capillata</i>		Mills 2000	ST	II	x			x		Wrobel and Mills 1998
Cnidaria:													
Scyphozoa	Pelagiidae	<i>Chrysaora</i>	<i>melangaster</i>		Cooney 1987	P	II III IV V VI	x					Wrobel and Mills 1998
Cnidaria:													
Scyphozoa	Ulmaridae	<i>Aurelia</i>	<i>aurita</i>		Mills 2000	ST	II	x			x		Wrobel and Mills 1998
Cnidaria:													
Scyphozoa	Ulmaridae	<i>Aurelia</i>	<i>labiata</i>		Mills 2000	ST	II III IV	x					Wrobel and Mills 1998
Cnidaria:													
Scyphozoa	Ulmaridae	<i>Aurelia?</i>	unidentified		Mills 2000	P							
Cnidaria:													
Scyphozoa	Ulmaridae	<i>Phacellophora</i>	<i>camtschatica</i>	<i>Catablema</i>	Cooney:SEA	P	II III IV V VI	x			x		Wrobel and Mills 1998
Ctenophora	Beroidae	<i>Beroe</i>	unidentified		Cooney 1987	P	II III IV V VI						
Ctenophora	Bolinopsidae	<i>Bolinopsis</i>	<i>infundibulum</i>		Mills 2000	ST	II	x			x		Wrobel and Mills 1998
Ctenophora	Mertensiidae	<i>Mertensia</i>	sp. (<i>ovum</i>)		Cooney and Coyle 1988	P	II	x			x		Austin 1985
Ctenophora	Pleurobranchiidae	<i>Hormiphora</i>	<i>cucumis</i>		Wrobel and Mills 1998	P	II III	x					Wrobel and Mills 1998
Ctenophora	Pleurobranchiidae	<i>Pleurobrachia</i>	<i>bachei</i>		Mills 2000	ST	II III IV						Wrobel and Mills 1998

Annelida

The region’s polychaete annelid fauna is particularly rich, with 233 species in 46 families. Kudenov (2000) has noted three range extensions, for *Phyllodoce medipapillata*, *Chaetozone senticosa*, and *Rhynchospio glutaea*. Some species of *Eumida*, *Scoloplos*, *Exogone*, *Nephtys*, *Glycera*, and the archaeannelid *Polygordius* are likely to be undescribed. Seven taxa, including members of the Spirorbidae have not been identified below the generic level. Nineteen new records from the UAM collection and Exxon Valdez oil spill specimens represent range extensions.

Hirudinea and Oligochaeta are not included in the data sets (Table 10.3), because we lack reliable identifications for specimens found in Prince William Sound. At least one species of marine leech is present in UAM samples from the adjacent Gulf of Alaska. Kozloff (1987) lists 14 leech species with distributions from Oregon north. Oligochaetes have been collected, but no effort has been made to identify them to family or lower taxon. Austin (1985) lists eight oligochaete species whose ranges include Alaska or southeast Alaska.

Information on distribution, habitat, and nomenclatural changes have been drawn from Austin (1985), Banse and Hobson (1968), Berkeley and Berkeley (1948, 1952), Hobson and Banse (1981), Kudenov (2000) and Ushakov (1955).

Table 10.3. Annelida.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Ampharete</i>	<i>acutifrons</i>		EVOS	ST/Inf	II III IV						Austin 1985
<i>Ampharete</i>	<i>finmarchia</i>	<i>A. arctica</i>	Feder et al. 1979	ST/Inf	II III IV	x	x	x			Austin 1985
<i>Amphicteis</i>	<i>gunneri</i>		Feder and Matheke 1980	ST/Inf	II III IV	x					Ushakov 1955
<i>Amphicteis</i>	<i>scaphobranchiata</i>		Feder et al. 1979	ST/Inf	II III IV						Austin 1985
<i>Anobothrus</i>	<i>gracilis</i>		Feder et al. 1979	ST/Inf	II III IV			x			Austin 1985
<i>Lysippe</i>	<i>labiata</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Melinna</i>	cf. <i>M. cristata</i>		Feder et al. 1979	ST/Inf	II III IV			x			Austin 1985
<i>Melinna</i>	<i>cristata</i>		Feder and Matheke 1980	ST/Inf	II III IV			x			Austin 1985
<i>Melinna</i>	<i>elisabethae</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Pseudosabellides</i>	<i>lineata</i>	<i>Asabellides</i>	EVOS	ST/Inf	II III IV			x			Austin 1985
<i>Pseudosabellides</i>	<i>sibirica</i>	<i>Asabellides littoralis</i>	UAM	ST/Inf	II III IV						Austin 1985
<i>Sosanela</i>	unidentified		UAM								
<i>Aphrodita</i>	<i>japonica</i>		UAM	ST/Inf	II III IV	x					Austin 1985
<i>Drilonereis</i>	<i>falcata minor</i>		Feder and Matheke 1980	ST/Inf	II III IV				British Columbia	NR	Austin 1985
<i>Drilonereis</i>	<i>longa</i>		UAM	ST/Inf	II	x		x	British Columbia	NR	Austin 1985
<i>Abarenicola</i>	<i>pacifica</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV	x					Austin 1985
<i>Barantolla</i>	<i>americana</i>		EVOS	I/ST/Inf	II III IV					C	Austin 1985
<i>Capitella</i>	<i>capitata</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II	x	x	x		C	Austin 1985
<i>Heteromastus</i>	<i>filiformis</i>		EVOS	ST/Inf	II III IV V		x	x		possible	Austin 1985
<i>Mediomastus</i>	unidentified		EVOS	I/ST/Inf							
<i>Mesochaetopterus</i>	<i>taylori</i>		EVOS	ST/Inf	II III IV				British Columbia	NR	Austin 1985
<i>Spiochaetopterus</i>	<i>costarum</i>		Feder and Matheke 1980	ST/Inf	x	x	x	x			Austin 1985

Table 10.3 continued.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Chrysopetalium</i>	<i>occidentale</i>		Kudenov 2000		II III IV V VI	x					Kudenov 2000
<i>Chaetozone</i>	<i>senticososa</i>		Kudenov 2000	ST/Inf	II IV V				California	NR	Kudenov 2000
<i>Chaetozone</i>	<i>setosa</i>		Feder and Matheke 1980	ST/Inf	x	x	x	x			Austin 1985
<i>Cirratulus</i>	<i>cingulatus</i>		Kudenov 2000	ST/Inf	II III IV						Kudenov 2000
<i>Cirratulus</i>	<i>cirratulus</i>		EVOS	ST/Inf	x	x	x	x	British Columbia	NR	Austin 1985
<i>Tharyx</i>	<i>monilaris</i>		Feder and Bryson-Schwafel 1988	ST/Inf	II III IV						Austin 1985
<i>Tharyx</i>	<i>multifilis</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV						Austin 1985
<i>Tharyx</i>	<i>parvus</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Tharyx</i>	<i>secundus</i>		EVOS	ST/Inf	II III IV				British Columbia	NR	Austin 1985
<i>Cossura</i>	<i>longocirrata</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Dorvillea</i>	<i>rudolphi</i>		EVOS	ST/Inf	II III IV						Austin 1985
<i>Dorvillea</i>	<i>pseudorubrovittata</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Protodorvillea</i>	<i>gracilis</i>		EVOS	ST/Inf	II III IV						Austin 1985
<i>Schistomeringos</i>	unidentified		UAM	ST							
<i>Eunice</i>	<i>valens</i>	<i>E. kobiensis</i>	UAM	ST/Inf	II III IV	x					Austin 1985
<i>Brada</i>	<i>granulata</i>		Feder and Matheke 1980	ST/Inf	II III IV	x					Austin 1985
<i>Flabelligera</i>	<i>affinis</i>		EVOS	ST/Inf	II III IV		x				Austin 1985
<i>Pherusa</i>	<i>plumosa</i>		EVOS	I/ST/Inf	II III IV		x				Austin 1985
<i>Pherusa</i>	<i>papillata</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Glycera</i>	sp. undescribed		Kudenov 2000								Kudenov 2000
<i>Glycera</i>	cf. <i>G. nana</i>		Kudenov 2000								
<i>Glycera</i>	<i>nana</i>	<i>G. capitata</i>	Feder and Bryson-Schwafel 1988	ST/Inf	II III IV	x					Austin 1985
<i>Hemipodus</i>	<i>borealis</i>		EVOS	I/ST/Inf	II III IV						Austin 1985
<i>Glycinde</i>	<i>armigera</i>		EVOS	ST/Inf	II III IV	x					Austin 1985
<i>Glycinde</i>	<i>picta</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV						Austin 1985
<i>Goniada</i>	<i>annulata</i>		Feder and Jewett 1988	ST/Inf	II III IV						Austin 1985
<i>Goniada</i>	<i>maculata</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Microphthalmus</i>	<i>sczelkowi</i>		Feder and Bryson-Schwafel 1988	ST/Inf	II	x		x	California	NR	Austin 1985
<i>Micropodarke</i>	<i>dubia</i>		EVOS	ST/Inf	II III IV						Austin 1985
<i>Podarkeopsis</i>	<i>glabrus</i>	<i>Gyptis brevipalpa</i>	Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Pelagobia</i>	<i>longicirrata</i>		Cooney 1987	P	II III IV V VI	x		x			Austin 1985
<i>Lumbrineris</i>	<i>latreilli</i>		Feder et al. 1979	ST/Inf	II III IV V VI						Austin 1985
<i>Lumbrineris</i>	<i>limicola</i>		UAM	ST/Inf	VII VIII IX	x			SE Alaska	nr	Austin 1985
<i>Lumbrineris</i>	<i>luti</i>		Feder and Jewett 1988	ST/Inf	II III IV				British Columbia	NR	Austin 1985
<i>Lumbrineris</i>	<i>similabris</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Lumbrineris</i>	<i>zonata</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV						Austin 1985
<i>Ninoe</i>	<i>gemmea</i>		Feder and Matheke 1980	ST/Inf	II III IV						Austin 1985
<i>Ninoe</i>	<i>simpla</i>		Feder et al. 1979	ST/Inf	II III IV						Austin 1985
<i>Magelona</i>	<i>berkeleyi</i>		EVOS	ST/Inf	II III IV				British Columbia	NR	Austin 1985
<i>Magelona</i>	<i>hobsonae</i>	<i>M. pitekai</i>	Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV				British Columbia	NR	Austin 1985

Table 10.3 continued.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Metasychis</i>	<i>disparidentata</i>	<i>Asychis</i>	Feder et al. 1979	ST/Inf	II III IV	x				Austin 1985	
<i>Nicomache</i>	<i>personata</i>		UAM	ST/Inf	II III IV					Austin 1985	
<i>Notoproctus</i>	<i>pacificus</i>		Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Petaloproctus</i>	<i>borealis</i>	<i>P. tenuis</i>	EVOS	ST/Inf	II III IV		x			Austin 1985	
<i>Praxillella</i>	<i>praetermissa</i>		EVOS	ST/Inf	II III IV	x				Austin 1985	
<i>Praxillella</i>	<i>gracilis</i>		Feder and Jewett 1988	ST/Inf	II III IV					Austin 1985	
<i>Praxillella</i>	<i>pacifica</i>	<i>P. affinis</i>	Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Rhodine</i>	<i>bitorquata</i>		Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Aglophamus</i>	<i>rubella anops</i>		Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Nephtys</i>	<i>cornuta cornuta</i>		UAM	ST/Inf	II III IV					Austin 1985	
<i>Nephtys</i>	<i>ferruginea</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Nephtys</i>	<i>punctata</i>		Feder and Jewett 1988	ST/Inf	II III IV		x			Austin 1985	
<i>Nephtys</i>	<i>caeca</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV V	x	x	x		Austin 1985	
<i>Nephtys</i>	<i>ciliata</i>		EVOS	I/ST/Inf	II	x		x		Austin 1985	
<i>Nephtys</i>	<i>cornuta</i>		Feder and Matheke 1980	I/ST/Inf	II III IV					Austin 1985	
<i>Nephtys</i>	<i>cornuta franciscana</i>		Feder and Matheke 1980	I/ST/Inf	II III IV					Austin 1985	
<i>Nephtys</i>	sp. undescribed		Kudenov 2000								
<i>Chelonereis</i>	<i>cyclus</i>		Kudenov 2000	ST/Inf	II III IV V	x				Austin 1985	
<i>Nereis</i>	<i>grubei</i>		UAM	I/ST/Inf	II III IV	x				Austin 1985	
<i>Nereis</i>	<i>pelagica</i>		UAM	I/ST/Inf	II III IV					Austin 1985	
<i>Nereis</i>	<i>procera</i>		Feder and Matheke 1980	ST/Inf	II III IV V VI					Austin 1985	
<i>Nereis</i>	<i>vexillosa</i>		Feder and Bryson-Schwafel 1988	I/inf	II III IV V VI					Austin 1985	
<i>Nereis</i>	<i>zonata</i>		Feder and Matheke 1980	ST/Inf	II III IV V VI		x			Austin 1985	
<i>Platynereis</i>	<i>bicanaliculata</i>	<i>P. agassizi</i>	EVOS	I/ST/Inf	II III IV					Austin 1985	
<i>Onuphis</i>	<i>iridescens</i>		UAM	ST/Inf	II III IV	x				Austin 1985	
<i>Onuphis</i>	<i>conchylega</i>		Feder and Matheke 1980	ST/Inf	II III IV	x				Banse and Hobson 1968	
<i>Onuphis</i>	<i>geophiliformis</i>		Feder and Matheke 1980	ST/Inf	II III IV	x				Austin 1985	
<i>Onuphis</i>	<i>parva</i>		Feder and Matheke 1980	ST/Inf	II III IV	x				Banse and Hobson 1968	
<i>Onuphis</i>	<i>stigmatis</i>			ST/Inf	II III IV					Austin 1985	
<i>Armandia</i>	<i>brevis</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Ophelia</i>	<i>limacina</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	x	x	x	x		Austin 1985	
<i>Ophelina</i>	<i>acuminata</i>	<i>Amnotrypane aulogaster</i>	Feder and Matheke 1980	ST/Inf	II III IV V VI			x		Austin 1985	
<i>Travisia</i>	<i>forbesii</i>		Feder et al. 1979	ST/Inf	II	x	x	x		Austin 1985	
<i>Leitoscoloplos</i>	<i>panamensis</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV					Austin 1985	
<i>Leitoscoloplos</i>	<i>pugettensis</i>	<i>L. elongatus</i>	Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Naineris</i>	<i>dendritica</i>		Kudenov 2000	ST/Inf	II III IV V					Austin 1985	
<i>Naineris</i>	<i>drenitica</i>	<i>N. laevigata</i>	UAM	ST/Inf	II III IV					Austin 1985	
<i>Naineris</i>	<i>uncinata</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Naineris</i>	unidentified		Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Scoloplos</i>	<i>acmeiceps</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Scoloplos</i>	<i>armiger</i>		EVOS	ST/Inf	II III IV	x	x			Austin 1985	
<i>Scoloplos</i>	sp. undescribed		Kudenov 2000								
<i>Myriochele</i>	<i>oculata</i>	<i>M. heeri</i>	Feder and Matheke 1980	ST/Inf	II III IV		x			Austin 1985	
<i>Owenia</i>	<i>fusiformis</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV	x	x			Austin 1985	
<i>Aricidea</i>	<i>ramosa</i>		EVOS	ST/Inf	II III IV	x				Austin 1985	

Table 10.3 continued.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Aricidea</i>	<i>lopezi</i>		Feder and Jewett 1988	ST/Inf	II III IV	x				Austin 1985	
<i>Aricidea</i>	<i>neosuecica</i>		Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Aricidea</i>	<i>nolani</i>	<i>A. suecica</i>	UAM	ST/Inf	II III IV					Austin 1985	
<i>Cirrophoras</i>	<i>lyra</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Cirrophoras</i>	<i>branchiatus</i>		UAM	ST/Inf	II III IV					Austin 1985	
<i>Paraonis</i>	<i>gracilis</i>		Feder and Matheke 1980	ST/Inf	II III IV	x	x			Austin 1985	
<i>Amphictene</i>	<i>moorei</i>	<i>A. auricoma</i>	Feder and Matheke 1980	I/ST/Inf	II III IV		x			Austin 1985	
<i>Cistenides</i>	<i>granulata</i>	<i>C. brevicoma</i>	Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV			x		Austin 1985	
<i>Pectinaria</i>	<i>californiensis</i>		UAM	ST/Inf	II III IV					Austin 1985	
<i>Pholoides</i>	<i>asperus</i>	Polyodontidae: <i>Peisidice</i>	Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Anaitides</i>	<i>groenlandica</i>	<i>Phyllodoce</i>	UAM	ST/Inf	II III IV	x	x			Austin 1985	
<i>Anaitides</i>	<i>mucosa</i>		Feder and Matheke 1980	ST/Inf	II III IV			x		Austin 1985	
<i>Anaitides</i>	<i>maculata</i>		Feder and Matheke 1980	ST/Inf	II III IV	x				Austin 1985	
<i>Eteone</i>	<i>longa</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV	x			C	Austin 1985	
<i>Eulalia</i>	<i>viridis</i>		UAM	ST/Inf	II III IV	x				Austin 1985	
<i>Eumida</i>	sp. undescribed		Kudenov 2000	ST/Inf	II III IV						
<i>Hypoeulalia</i>	<i>bilineata</i>	<i>Eulalia</i>	UAM	ST/Inf	II III IV	x	x			Austin 1985	
<i>Mysta</i>	<i>barbata</i>		UAM	ST/Inf	II	x	x	Chukchi Sea	nr	Ushakov 1955	
<i>Nereiphylla</i>	<i>castanea</i>	<i>Phyllodoce, Genetylus</i>	UAM	ST/Inf	II III IV	x				Austin 1985	
<i>Notophyllum</i>	<i>tectum</i>		UAM	ST/Inf	II III IV					Austin 1985	
<i>Phyllodoce</i>	<i>medipapillata</i>		Kudenov 2000	ST/Inf	II III IV V			California	NR	Kudenov 2000	
<i>Ancistrosyllis</i>	<i>hamata</i>		Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Polygordius</i>	sp. undescribed		UAM	ST/Inf	II III IV					Kudenov 2000	
<i>Antinoella</i>	<i>sarsi</i>		Feder and Matheke 1980	ST/Inf	II III IV	x	x			Ushakov 1955	
<i>Arcteobia</i>	<i>spinelytris</i>		Feder and Matheke 1980	ST/Inf	II III IV	x				Austin 1985	
<i>Byglides</i>	<i>macrolepidus</i>	<i>Antinoella</i>	Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Eunoe</i>	<i>depressa</i>		UAM	ST/Inf	II III IV	x				Austin 1985	
<i>Eunoe</i>	<i>oerstedii</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Eunoe</i>	<i>senta</i>		UAM	ST/Inf	II III IV					Austin 1985	
<i>Gattyana</i>	<i>ciliata</i>		Feder and Matheke 1980	ST/Inf	II III IV	x				Austin 1985	
<i>Gattyana</i>	<i>cirrosa</i>		Feder and Matheke 1980	ST/Inf	II III IV	x	x			Austin 1985	
<i>Gattyana</i>	<i>treadwellii</i>		Feder and Matheke 1980	ST/Inf	II III IV		x			Austin 1985	
<i>Halosydna</i>	<i>brevisetosa</i>		UAM	ST/Inf	II III IV					Austin 1985	
<i>Harmothoe</i>	<i>extenuata</i>		UAM	ST/Inf	II III IV	x	x			Austin 1985	
<i>Harmothoe</i>	<i>imbricata</i>		EVOS	I/ST/Inf	II III IV	x	x		C	Austin 1985	
<i>Hesperonoe</i>	<i>complanata</i>		Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985	
<i>Lepidonotus</i>	<i>helotypus</i>		UAM	ST/Inf	II III IV					Ushakov 1955	
<i>Lepidonotus</i>	<i>squamatus</i>		Feder and Matheke 1980	ST/Inf	x	x	x	x		Austin 1985	
<i>Nemida</i>	<i>tamarae</i>		UAM	ST/Inf	II			Bering Sea	nr	Ushakov 1955	
<i>Polynoe</i>	<i>canadensis</i>		Feder et al. 1979	ST/Inf	II III IV		x			Austin 1985	
<i>Idanthyrus</i>	<i>armatus</i>		Feder and Matheke 1980	ST/Inf	II III IV V VI VII VIII IX					Austin 1985	
<i>Idanthyrus</i>	<i>ornamentatus</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Chone</i>	<i>magna</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Chone</i>	<i>cincta</i>		UAM	ST/Inf	II III IV	x				Austin 1985	
<i>Euchone</i>	<i>hancocki</i>		EVOS	ST/Inf	II III IV					Austin 1985	
<i>Euchone</i>	<i>longifissuirata</i>		UAM	ST/Inf	II III IV	x	x			Ushakov 1955	
<i>Euchone</i>	<i>analis</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV	x	x			Ushakov 1955	
<i>Fabricia</i>	<i>sabella</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II	x		x		Austin 1985	

Table 10.3 continued.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Sphaerosyllis</i>	<i>erinaceus</i>		Feder and Bryson-Schwafel 1988	ST/Inf	II III IV	x					Banse and Hobson 1968
<i>Syllis</i>	<i>armillaris</i>	<i>Typosyllis</i>	Feder and Matheke 1980	ST/Inf	II III IV V VI	x	x	x			Austin 1985
<i>Syllis</i>	<i>fasciata</i>	<i>Typosyllis</i>	EVOS	ST/Inf	II III IV				British Columbia	NR	Austin 1985
<i>Syllis</i>	<i>harti</i>	<i>Typosyllis</i>	EVOS	ST/Inf	II III IV				British Columbia	NR	Austin 1985
<i>Syllis</i>	<i>harti armillaris</i>	<i>Typosyllis</i>	Feder and Matheke 1980	ST/Inf	II III IV						
<i>Syllis</i>	<i>harti unguicula</i>	<i>Typosyllis</i>	UAM	ST/Inf	II III IV				British Columbia	NR	
<i>Syllis</i>	<i>heterochaeta</i>	<i>Langerhansia cornuta</i>	Feder and Matheke 1980	ST/Inf	II III IV	x					Austin 1985
<i>Syllis</i>	<i>hyalina</i>	<i>Typosyllis</i>	Kudenov 2000	I/ST/Inf	x	x	x	x			Austin 1985
<i>Trypanosyllis</i>	<i>gemmipara</i>		Kudenov 2000		II III IV V						Austin 1985
<i>Typosyllis</i>	<i>stuarti</i>		Kudenov 2000		II III						Austin 1985
<i>Typosyllis</i>	<i>alternata</i>		Kudenov 2000	I/ST/Inf	II III IV	x					Austin 1985
<i>Amphitrite</i>	<i>cirrata</i>		Kudenov 2000		II III IV V			x		C	Austin 1985
<i>Artacama</i>	<i>conifera</i>		UAM	ST/Inf	II III IV						Austin 1985
<i>Artacama</i>	<i>proboscidea</i>		Feder et al. 1979	ST/Inf	II III IV			x			Austin 1985
<i>Lanassa</i>	<i>venusta</i>		EVOS	ST/Inf	II III IV	x	x				Austin 1985
<i>Laphania</i>	<i>boeckii</i>		EVOS	ST/Inf	II	x		x			Austin 1985
<i>Leana</i>	<i>abranchiata</i>		UAM	ST/Inf	II III IV	x	x				Austin 1985
<i>Lysilla</i>	<i>loveni</i>		Feder and Matheke 1980	ST/Inf	II	x		x			Austin 1985
<i>Pista</i>	<i>cristata</i>		Feder and Matheke 1980	ST/Inf	II	x		x			Austin 1985
<i>Pista</i>	<i>vinogradovi</i>	<i>P. pacifica</i>	Feder and Jewett 1988	ST/Inf	II III IV	x					Austin 1985
<i>Polycirrus</i>	<i>medusa</i>		UAM	ST/Inf	II	x		x			Austin 1985
<i>Proclea</i>	<i>graffii</i>		UAM	ST/Inf	II III IV						Austin 1985
<i>Terbellides</i>	<i>stroemi</i>		Feder and Jewett 1988	ST/Inf	x	x	x	x			Austin 1985
<i>Tomopteris</i>	<i>septentrionalis</i>		Cooney 1987	P	x	x		x			Austin 1985
<i>Tomopteris</i>	<i>pacificus</i>		Cooney 1987	P	II III IV V	x					Austin 1985
<i>Tomopteris</i>	unidentified		Cooney and Coyle 1988	P							
<i>Trichobranchus</i>	<i>glacialis</i>		Feder and Matheke 1980	ST/Inf	II	x	x	x			Austin 1985
<i>Disoma</i>	<i>carica</i>	Disomidae:Trichochaeta	UAM	ST/Inf	II III IV	x					Austin 1985
<i>Disoma</i>	<i>multisetosum</i>	Disomidae:Trichochaeta	UAM	ST/Inf	II III IV	x					Austin 1985
<i>Typhloscolex</i>	<i>mulleri</i>		Cooney: SEA	ST	II III IV	x		x	NE Pacific	NR?	Austin 1985

Mollusca

Three hundred fifteen mollusk species, representing all classes except monoplacophorans, are included in the data set (Table 10.4). There is one aplacophoran, and 108 bivalves, 179 gastropods, 17 polyplacophorans, three scaphopods, and eight cephalopods. Mollusks in the UAM comprise one of the chief sources for the data set. Information on nomenclature and distribution derives from Austin (1985), Baxter (1987), Behrens (1991), Coan et al. (2000), and Turgeon et al. (1998).

The shelled fauna is quite well known, but opisthobranchs, because they require special techniques to collect and preserve, have not been adequately documented in Alaska. It is not surprising to find potentially undescribed species and geographical range extensions within the Prince William Sound fauna. A paper describing range extensions for 11 species of opisthobranchs is in preparation by J. Goddard and N. Foster.

Table 10.4. Mollusca.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Chaetoderma</i>	<i>robustum</i>		UAM	ST/Inf	II III IV						Baxter 1987
<i>Pododesmus</i>	<i>macroschisma</i>		UAM	ST/Epi	II III IV						Coan et al. 2000
<i>Astarte</i>	<i>borealis</i>		UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Astarte</i>	<i>compacta</i>	<i>A. polaris</i>	UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Astarte</i>	<i>elliptica</i>	<i>A. alaskensis</i>	UAM	ST/Inf	II	x		x			Coan et al. 2000
<i>Astarte</i>	<i>esquimaulti</i>		UAM	ST/Inf	II III	x					Coan et al. 2000
<i>Astarte</i>	<i>ovata</i>	<i>A. borealis</i>	UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Clinocardium</i>	<i>blandum</i>	<i>C. fucanum</i>	Coan et al. 2000	I/ST/Inf	II III IV						Coan et al. 2000
<i>Clinocardium</i>	<i>californiense</i>		UAM	I/ST/Inf	II III IV	x					Coan et al. 2000
<i>Clinocardium</i>	<i>ciliatum</i>		UAM	I/ST/Inf	II	x	x	x			Coan et al. 2000
<i>Clinocardium</i>	<i>nuttallii</i>		UAM	I/ST/Inf	II III IV	x					Coan et al. 2000
<i>Serripes</i>	<i>groenlandicus</i>		UAM	I/ST/Inf	II	x	x	x			Coan et al. 2000
<i>Serripes</i>	<i>laperousii</i>		UAM	I/ST/Inf	II	x	x	x			Coan et al. 2000
<i>Serripes</i>	<i>notabilis</i>		UAM	ST/Inf	II III IV	x					Coan et al. 2000
<i>Cyclocardia</i>	<i>crebricosta</i>		UAM	ST/Inf	II III IV	x					Coan et al. 2000
<i>Cyclocardia</i>	<i>ventricosa</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Miodontiscus</i>	<i>prolongata</i>		Coan et al. 2000	ST/Inf	II III IV	x					Coan et al. 2000
<i>Cardiomya</i>	<i>behringensis</i>		Coan et al. 2000	ST/Inf	II III IV	x					Coan et al. 2000
<i>Cardiomya</i>	<i>pectinata</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Cardiomya</i>	<i>planetica</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Glycymeris</i>	<i>septentrionalis</i>		EVOS	ST/Inf	II III IV						Coan et al. 2000
<i>Hiatella</i>	<i>arctica</i>		UAM	I/ST/Epi/Inf	x	x	x	x			Coan et al. 2000
<i>Panomya</i>	<i>ampla</i>		Coan et al. 2000	ST/Inf	II III IV	x					Coan et al. 2000
<i>Panomya</i>	<i>norvegica</i>	<i>P. arctica</i>	UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Kellia</i>	<i>suborbicularis</i>	<i>Kelliidae</i>	Coan et al. 2000	ST/Inf	II III IV						Coan et al. 2000
<i>Mysella</i>	<i>planata</i>		Coan et al. 2000	ST/Inf	II III IV	x					Coan et al. 2000
<i>Neaeromya</i>	<i>compressa</i>	<i>Pseudopythina</i>	UAM	I/ST/Inf	II III IV						Coan et al. 2000
<i>Rochefordia</i>	<i>tumida</i>	<i>Mysella</i>	UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Limatula</i>	<i>attenuata</i>	<i>L. subauriculata</i>	Coan et al. 2000	ST/Epi	II III IV	x					Coan et al. 2000
<i>Lucina</i>	<i>tenuisculpta</i>	<i>Parvilucina</i>	UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Lucinoma</i>	<i>annulatum</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Entodesma</i>	<i>navicula</i>	<i>E. saxicola</i>	UAM	I/Epi/Inf	II III IV	x					Coan et al. 2000
<i>Lyonsia</i>	<i>bracteata</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Mactromeris</i>	<i>polynyma</i>		UAM	I/ST/Inf	II			x			Coan et al. 2000
<i>Tresus</i>	<i>capax</i>		Coan et al. 2000	I/ST/Inf	II III IV						Coan et al. 2000
<i>Tresus</i>	<i>nuttallii</i>		UAM	I/ST/Inf	II III IV						Coan et al. 2000
<i>Malletia</i>	<i>pacifica</i>	<i>M. cuneata</i>	UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Cryptomya</i>	<i>californica</i>		Coan et al. 2000	I/ST/Inf	II III IV	x					Coan et al. 2000
<i>Mya</i>	<i>arenaria</i>		UAM	I/Inf	II III IV				x	N Atlantic	definite
<i>Mya</i>	<i>truncata</i>		UAM	I/ST/Inf	II	x	x	x			Coan et al. 2000
<i>Crenella</i>	<i>decussata</i>		UAM	I/ST/Epi	II	x	x	x			Coan et al. 2000
<i>Dacrydium</i>	<i>vitreum</i>		UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Modiolus</i>	<i>modiolus</i>		UAM	ST/Inf	II	x		x			Coan et al. 2000
<i>Musculus</i>	<i>discors</i>		UAM	ST/Inf	II	x		x			Coan et al. 2000
<i>Musculus</i>	<i>glacialis</i>	<i>M. corrugatus</i>	UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Musculus</i>	<i>niger</i>		UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Mytilus</i>	<i>trossulus</i>	<i>M. edulis</i>	UAM	I/ST/Epi	II III IV						Coan et al. 2000
<i>Solamen</i>	<i>columbianun</i>	<i>Megacrenella</i>	Coan et al. 2000	ST/Inf	II III IV	x					Coan et al. 2000
<i>Vilasina</i>	<i>seminuda</i>	<i>Musculus</i>	Coan et al. 2000	ST/Epi	II III IV	x					Coan et al. 2000
<i>Vilasina</i>	<i>vernucosa</i>	<i>Musculus</i>	UAM	ST/Epi	II III IV	x					Coan et al. 2000
<i>Nuculana</i>	<i>conceptionis</i>	<i>Perrisonota</i>	UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Nuculana</i>	<i>minuta</i>		UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Nuculana</i>	<i>navisa</i>		Coan et al. 2000	ST/Inf	II III IV						Coan et al. 2000
<i>Nuculana</i>	<i>pernula</i>	<i>N. fossa</i>	UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Eunucula</i>	<i>tenuis</i>	<i>Nucula</i>	UAM	ST/Inf	II	x		x			Coan et al. 2000
<i>Crassostrea</i>	<i>gigas</i>		UAM	I/ST/Epi	II III IV	x				NW Pacific	definite
<i>Pandora</i>	<i>wardiana</i>	<i>P. grandis</i>	UAM	ST/Inf	II III IV	x					Coan et al. 2000
<i>Pandora</i>	<i>bilirata</i>		Coan et al. 2000	ST/Inf	II III IV	x					Coan et al. 2000
<i>Pandora</i>	<i>filosa</i>		Coan et al. 2000	ST/Inf	II III IV						Coan et al. 2000
<i>Pandora</i>	<i>glacialis</i>		UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Chlamys</i>	<i>rubida</i>		UAM	ST/Epi	II III IV	x					Coan et al. 2000
<i>Crassidoma</i>	<i>gigantea</i>	<i>Hinnites</i>	Coan et al. 2000	ST/Epi	II III IV						Coan et al. 2000
<i>Delectopecten</i>	<i>vancouverensis</i>	<i>D. randolphi</i>	UAM	ST/Epi	II III IV	x					Coan et al. 2000
<i>Parvamussium</i>	<i>alaskense</i>		UAM	ST/Epi	II III IV						Coan et al. 2000
<i>Patinopecten</i>	<i>caurinus</i>		UAM	ST/Epi	II III IV						Coan et al. 2000
<i>Periploma</i>	<i>aleuticum</i>		UAM	ST/Inf	II	x	x	x			Coan et al. 2000
<i>Siliqua</i>	<i>alta</i>	<i>Solenidae: S. sloati</i>	UAM	I/ST/Inf	II III IV	x					Coan et al. 2000
<i>Siliqua</i>	<i>patula</i>	<i>Solenidae</i>	Coan et al. 2000	I/Inf	II III IV						Coan et al. 2000
<i>Philibrya</i>	<i>setosa</i>		Coan et al. 2000	ST/Inf	II III IV						Coan et al. 2000
<i>Penitella</i>	<i>penita</i>		Coan et al. 2000	I/ST/Inf	II III IV						Coan et al. 2000

Table 10.4 continued.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Gari</i>	<i>californica</i>		UAM	I/Inf	II III IV	x					Coan et al. 2000
<i>Macoma</i>	<i>dexioptera</i>		UAM	ST/Inf	II						Coan et al. 2000
<i>Macoma</i>	<i>elimata</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Macoma</i>	<i>moesta</i>		UAM	ST/Inf	II III IV			x x			Coan et al. 2000
<i>Macoma</i>	<i>balthica</i>		UAM	I/Inf	x	x	x x		C		Coan et al. 2000
<i>Macoma</i>	<i>brota</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Macoma</i>	<i>calcareo</i>		UAM	ST/Inf	II	x	x x				Coan et al. 2000
<i>Macoma</i>	<i>carlottensis</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Macoma</i>	<i>expansa</i>		UAM	I/ST/Inf	II III IV						Coan et al. 2000
<i>Macoma</i>	<i>golikovi</i>	<i>M. obliqua</i>	UAM	I/ST/Inf	II III IV						Coan et al. 2000
<i>Macoma</i>	<i>inquinata</i>		UAM	I/ST/Inf	II III IV						Coan et al. 2000
<i>Macoma</i>	<i>lipara</i>		Coan et al. 2000	ST/Inf	II III IV						Coan et al. 2000
<i>Macoma</i>	<i>nasuta</i>		UAM	I/ST/Inf	II III IV						Coan et al. 2000
<i>Tellina</i>	<i>modesta</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Bankia</i>	<i>setacea</i>		UAM	ST/Inf	II III IV	x					Coan et al. 2000
<i>Thracia</i>	<i>challisiana</i>		Coan et al. 2000	ST/Inf	II III IV						Coan et al. 2000
<i>Thracia</i>	<i>condoni</i>		Coan et al. 2000	ST/Inf	II III IV						Coan et al. 2000
<i>Thracia</i>	<i>myopsis</i>		UAM	ST/Inf	II	x	x x				Coan et al. 2000
<i>Thracia</i>	<i>trapeziodes</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Adontorhina</i>	<i>cyelia</i>		UAM	I/ST/Inf	II III IV	x					Coan et al. 2000
<i>Axinopsida</i>	<i>serricata</i>		UAM	I/ST/Inf	II	x	x x				Coan et al. 2000
<i>Conchocoele</i>	<i>bisecta</i>	<i>Thyasira</i>	Coan et al. 2000	ST/Inf	II III IV	x					Coan et al. 2000
<i>Mendicula</i>	<i>ferruginosa</i>	<i>Odontogena borealis</i>	UAM	ST/Inf	II	x	x x				Coan et al. 2000
<i>Thyasira</i>	<i>flexuosa</i>		UAM	ST/Inf	II	x	x x				Coan et al. 2000
<i>Turtonia</i>	<i>minuta</i>		UAM	I/Inf	II			x			Coan et al. 2000
<i>Diplodonta</i>	<i>impolita</i>		UAM	I/Inf	II III IV						Coan et al. 2000
<i>Compsomyax</i>	<i>subdiaphana</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Humilaria</i>	<i>kennerleyi</i>		UAM	I/ST/Inf	II III IV						Coan et al. 2000
<i>Liocyma</i>	<i>fluctuosa</i>		UAM	ST/Inf	II	x	x x				Coan et al. 2000
<i>Nutricola</i>	<i>lordi</i>	<i>Psephidia ovalis</i>	UAM	I/Inf	II III IV						Coan et al. 2000
<i>Nutricola</i>	<i>tantilla</i>	<i>Tranzenella</i>	UAM	I/ST/Inf	II III IV						Coan et al. 2000
<i>Protothaca</i>	<i>staminea</i>		UAM	I/ST/Inf	II III IV	x					Coan et al. 2000
<i>Saxidomus</i>	<i>gigantea</i>		UAM	I/Inf	II III IV						Coan et al. 2000
<i>Yoldia</i>	<i>hyperborea</i>	<i>Y. amygdalea</i> <i>Megayoldia martyria</i> / <i>M. secunda</i> / <i>M. beringiana</i>	UAM	ST/Inf	II	x	x x				Coan et al. 2000
<i>Yoldia</i>	<i>montereyensis</i>		UAM	ST/Inf	II III IV						Coan et al. 2000
<i>Yoldia</i>	<i>myalis</i>		UAM	ST/Inf	II			x			Coan et al. 2000
<i>Yoldia</i>	<i>seminuda</i>	<i>Y. scissurata</i>	UAM	ST/Inf	II III IV	x					Coan et al. 2000
<i>Yoldia</i>	<i>thraciaeformis</i>	<i>Megayoldia</i>	UAM	ST/Inf	II	x	x x				Coan et al. 2000
<i>Gonatus</i>	unidentified		Feder and Jewett 1988	P							
<i>Benthoctopus</i>	<i>leioderma</i>		Scheel- possible for PWS	ST/Epi	II III IV						Austin 1985
<i>Octopus</i>	<i>dofleini</i>	<i>Enteroctopus</i>	Scheel et al. 1997	ST/Epi	II III IV						Austin 1985
<i>Octopus</i>	<i>rubescens</i>		Scheel- observation	ST/Epi	II III IV						Austin 1985
<i>Rossia</i>	<i>pacifica</i>		UAM	ST/Epi	II III IV	x					Austin 1985
<i>Chiroteuthis</i>	<i>veranayi</i>	<i>C. calyx</i>	Cooney 1987	P	VI						Austin 1985
<i>Gliteuthis</i>	<i>armata</i>	<i>G. phyllura</i>	Cooney 1987	P	II III IV V VI	x					Austin 1985
<i>Acanthodoris</i>	<i>hudsoni</i>		Lee and Foster 1985	I/ST/Epi	II III IV						Lee and Foster 1985
<i>Acanthodoris</i>	<i>nanaimoensis</i>		Goddard 2000	I/ST/Epi	II III IV						Lee and Foster 1985
<i>Acanthodoris</i>	<i>pilosa</i>		Lee and Foster 1985	I/ST/Epi	II	x		x			Behrens 1991
<i>Acmaea</i>	<i>mitra</i>		UAM	I/Epi	II III IV						Austin 1985
<i>Aeolidia</i>	<i>papillosa</i>		Lee and Foster 1985	I/ST/Epi	x	x	x x				Behrens 1991
<i>Aglaja</i>	<i>ocelligera</i>	<i>Melanochlamys</i>	Goddard 2000	I/ST/Epi	II III IV						Lee and Foster 1985
<i>Melanochlamys</i>	<i>diomedea</i>	<i>Aglaja</i>	Feder and Bryson- Schwafel 1988	I/ST/Epi	II III IV				SE Alaska	nr	Lee and Foster 1985

Table 10.4 continued.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Archidoris</i>	<i>montereyensis</i>		Lee and Foster 1985	I/ST/Epi	II III IV						Lee and Foster 1985
<i>Archidoris</i>	<i>odhneri</i>		Lee and Foster 1985	I/ST/Epi	II III IV						Lee and Foster 1985
<i>Armina</i>	<i>californica</i>		Lee and Foster 1985	ST/Epi	II III IV						Lee and Foster 1985
<i>Haminoea</i>	<i>vesicula</i>		Foster 2000	I/ST/Epi	II III IV						Lee and Foster 1985
<i>Haminoea</i>	<i>virescens</i>		Baxter 1987	I/ST/Epi	II III IV						Lee and Foster 1985
<i>Barleeia</i>	<i>subtenuis</i>		UAM	I/Inf	II III IV						Baxter 1987
<i>Barleeia</i>	<i>haliotiphila</i>		Baxter 1987	I/Inf	II III IV						Baxter 1987
<i>Pseudodiala</i>	<i>acuta</i>	<i>Barleeia</i>	UAM	I/Inf	II III IV				British Columbia	NR	Baxter 1987
<i>Ancistrolepis</i>	<i>eucosmuis</i>		UAM	ST/Epi	II III IV						Baxter 1987
<i>Beringius</i>	<i>kennicotti</i>		UAM	ST/Epi	II III IV						Austin 1985
<i>Buccinum</i>	<i>baerii</i>		UAM	I/Epi	II III IV						Austin 1985
<i>Buccinum</i>	<i>plectrum</i>		UAM	ST/Epi	II III IV			x x			Austin 1985
<i>Colus</i>	<i>aphelus</i>	<i>C. hypolisus</i>	UAM	ST/Epi	II III IV			x x			Turgeon et al. 1998
<i>Colus</i>	<i>halli</i>		UAM	ST/Epi	II III IV						Austin 1985
<i>Lirabuccinum</i>	<i>dira</i>	<i>Searlesia</i>	UAM	I/ST/Epi	II III IV						Baxter 1987
<i>Lussivoluptosius</i>	<i>filosa</i>	<i>Voluptosius</i>	UAM	I/ST/Epi	II III IV						Baxter 1987
<i>Neptunea</i>	<i>lyrata</i>		UAM	ST/Epi	II III IV			x x			Austin 1985
<i>Neptunea</i>	<i>pribiloffensis</i>		UAM	ST/Epi	II III IV	x					Austin 1985
<i>Pyrulofusus</i>	<i>harpa</i>	<i>Voluptosius</i>	UAM	I/ST/Epi	II III IV						Austin 1985
<i>Voluptosius</i>	undescribed sp.		Baxter 1987	I/ST/Epi	II III IV						Turgeon et al. 1998
<i>Caecum</i>	<i>crebricinctum</i>	<i>Micranellum</i>	UAM	I/ST/Inf	II III IV						Baxter 1987
<i>Caecum</i>	<i>occidentale</i>	<i>Fartulum</i>	UAM	I/Inf	II III IV						Baxter 1987
<i>Calliostoma</i>	<i>ligatum</i>	Trochidae	UAM	I/ST/Epi	II III IV						Baxter 1987
<i>Calyptraea</i>	<i>fastigiata</i>		UAM	I/ST/Epi	II III IV						Baxter 1987
<i>Crepidula</i>	<i>perforans</i>		Baxter 1987	I/ST/Epi	II III IV						Austin 1985
<i>Crepidula</i>		<i>Calyptraea fastigiata/</i>									
<i>Crepidipatella</i>	<i>lingulata</i>	<i>Crepidipatella dorsata</i>	UAM	I/ST/Epi	II III IV						Baxter 1987
<i>Admete</i>	<i>viridula</i>	<i>A. couthouyi</i>	UAM	ST/Inf	II	x		x x			Baxter 1987
<i>Neadmete</i>	<i>modesta</i>		UAM	ST/Inf	II III IV						Baxter 1987
<i>Trichotropis</i>	<i>borealis</i>	Trichotropidae	UAM	I/ST/Epi	II	x					Baxter 1987
<i>Trichotropis</i>	<i>cancellata</i>	Trichotropidae	UAM	I/ST/Epi	II III IV						Baxter 1987
<i>Trichotropis</i>	<i>insignis</i>	Trichotropidae	UAM	I/ST/Epi	II III IV	x					Baxter 1987
<i>Styidium</i>	<i>eschrichi</i>	<i>Bittium</i>	Baxter 1987	I/Inf	II III IV						Austin 1985
<i>Cadlina</i>	<i>luteomarginata</i>		Rosenthal 1977	ST/Epi	II III IV V				SE Alaska	nr	Behrens 1991
<i>Clione</i>	<i>limacina</i>		Cooney and Coyle 1988	P	x	x		x x			Wrobel and Mills 1998
<i>Cocculina</i>	<i>baxteri</i>		UAM	ST/Epi	II III						Baxter 1987
<i>Alia</i>	<i>carinata</i>	<i>Mitrella</i>		I/ST/Epi	II III IV						Baxter 1987
<i>Amphissa</i>	<i>columbiana</i>		UAM	I/ST/Inf	II III IV						Baxter 1987
<i>Amphissa</i>	<i>reticulata</i>		UAM	ST/Epi	II III IV						Baxter 1987
<i>Astrys</i>	<i>gauspata</i>	<i>Alia</i>	UAM	I/ST/Inf	II III IV						Baxter 1987
<i>Grantotoma</i>	<i>incisula</i>	Turridae: <i>Oenopota</i>	UAM	ST/Inf	II			x			Baxter 1987
<i>Kurtziella</i>	<i>plumbea</i>	Turridae	EVOS	I/ST/Epi	II III IV						Austin 1985
<i>Oenopota</i>	<i>bicarinata</i>	Turridae	UAM	ST/Inf	II			x			Austin 1985
<i>Oenopota</i>	<i>excurvata</i>	Turridae	UAM	ST/Inf	II III IV						Austin 1985
<i>Oenopota</i>	<i>krausei</i>	Turridae	UAM	ST/Inf	II III IV						Austin 1985
<i>Oenopota</i>	<i>rugulata</i>	Turridae	UAM	ST/Inf	II			x			Austin 1985
<i>Oenopota</i>	<i>turricula</i>	Turridae	UAM	ST/Inf	II			x			Austin 1985
<i>Oenopota</i>		Turridae: <i>Oenopota</i>									
<i>Propebela</i>	<i>arctica</i>	<i>viridula</i>	UAM	ST/Inf	II			x			Baxter 1987
<i>Pseudotaranis</i>	<i>strongi</i>	Turridae: <i>Tarais</i>	EVOS	ST/Epi	II III IV						Austin 1985
<i>Doridella</i>	<i>steinbergi</i>	<i>Suhinia</i>	EVOS	ST/Epi	II III IV						Behrens 1991
<i>Flabellina</i>	<i>trophina</i>	<i>F. fusca</i>	Lee and Foster 1985	ST/Epi	II III IV						Lee and Foster 1985
<i>Flabellina</i>	<i>salmonacea</i>		Lee and Foster 1985	ST/Epi	II	x		x x			Lee and Foster 1985
<i>Euclio</i>	<i>pyramidata</i>	<i>Clio</i>	Cooney 1987	P	x	x		x x			Austin 1985
<i>Granulina</i>	<i>margaritula</i>	<i>Marginellidae</i>	UAM	I/ST/Epi	II III IV						Baxter 1987

Table 10.4 continued.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Dendronotus</i>	<i>albus</i>		Lee and Foster 1985	ST/Epi	II III IV						Behrens 1991
<i>Dendronotus</i>	<i>frondosus</i>		Lee and Foster 1985	ST/Epi	II			x			Behrens 1991
<i>Dendronotus</i>	<i>iris</i>		Lee and Foster 1985	ST/Epi	II III IV						Behrens 1991
<i>Diaphana</i>	<i>minuta</i>		Lee and Foster 1985	ST/Inf	II				x		Turgeon et al. 1998
<i>Diaphana</i>	<i>brunnea</i>		UAM		II III IV						Lee and Foster 1985
<i>Dirona</i>	<i>albolineata</i>		Lee and Foster 1985	ST/Epi	II III IV						Behrens 1991
<i>Dirona</i>	<i>aurantia</i>		Lee and Foster 1985	ST/Epi	II III IV						Behrens 1991
<i>Anisodoris</i>	<i>lentigenosa</i>		Lee and Foster 1985	ST/Epi	II III IV						Behrens 1991
<i>Anisodoris</i>	<i>nobilis</i>		Lee and Foster 1985	ST/Epi	II III IV						Behrens 1991
<i>Dialula</i>	<i>sandiegensis</i>		Lee and Foster 1985	ST/Epi	II III IV						Behrens 1991
<i>Geitodoris</i>	<i>heathi</i>		Goddard 2000	ST/Epi	II III IV				British Columbia	NR	Behrens 1991
<i>Eubranchus</i>	<i>olivaceus</i>		Goddard 2000	ST/Epi	II III IV				SE Alaska	nr	Behrens 1991
<i>Melanella</i>	<i>columbiana</i>	<i>Vitreolina</i>	UAM		II III IV						Baxter 1987
<i>Melanella</i>	<i>micrans</i>	<i>Balcis</i>	UAM	ST/Epi	II III IV						Baxter 1987
<i>Hermisenda</i>	<i>crassicornis</i>		Goddard 2000	I/ST/Epi	II III IV						Behrens 1991
<i>Diadora</i>	<i>aspera</i>		Baxter 1987	I/ST/Epi	II III IV						Austin 1985
<i>Puncturella</i>	<i>cooperi</i>		UAM	ST/Epi	II III IV						Austin 1985
<i>Puncturella</i>	<i>galeata</i>		UAM	ST/Epi	II III IV						Austin 1985
<i>Puncturella</i>	<i>noachina</i>		UAM	ST/Epi	II III IV				x	x	Austin 1985
<i>Gastroteron</i>	<i>pacificum</i>		Feder and Bryson-Schwafel 1988	I/Epi	II III IV						Behrens 1991
<i>Ancula</i>	<i>pacifica</i>		Goddard 2000	ST/Epi	II III IV				SE Alaska	nr	Behrens 1991
<i>Alderia</i>	<i>modesta</i>		Goddard 2000	ST/Epi	II				British Columbia	NR	Behrens 1991
<i>Cryptobranchia</i>	<i>alba</i>		UAM	I/ST/Epi	II III IV	x					Baxter 1987
<i>Cryptobranchia</i>	<i>concentrica</i>		UAM	I/ST/Epi	II III IV	x					Baxter 1987
<i>Lepeta</i>	<i>caeca</i>		UAM	ST/Epi	II III IV	x					Baxter 1987
<i>Limacina</i>	<i>helicina</i>		Cooney and Coyle 1988	P	x	x	x	x			Wrobel and Mills 1998
<i>Lacuna</i>	<i>carinata</i>	<i>Lacunidae</i>	UAM	I/ST/Epi	II III IV						Austin 1985
<i>Lacuna</i>	<i>marmorata</i>	<i>Lacunidae</i>	Baxter 1987	I/ST/Epi	II III IV						Baxter 1987
<i>Lacuna</i>	<i>variegata</i>	<i>Lacunidae</i>	Baxter 1987	I/ST/Epi	II III IV						Baxter 1987
<i>Lacuna</i>	<i>vincta</i>	<i>Lacunidae</i>	UAM	I/ST/Epi	II				x		Austin 1985
<i>Littorina</i>	<i>scutulata</i>		UAM	I/Epi	II III IV						Austin 1985
<i>Littorina</i>	<i>sitkana</i>		UAM	I/Epi	II III IV						Austin 1985
<i>Lottia</i>	<i>borealis</i>		UAM	I/Epi	II III IV						Austin 1985
<i>Lottia</i>	<i>instabilis</i>		Baxter 1987	I/ST/Epi	II III IV						Austin 1985
<i>Lottia</i>	<i>ochracea</i>		UAM	I/ST/Epi	II III IV						Baxter 1987
<i>Lottia</i>	<i>pelta</i>		UAM	I/ST/Epi	II III IV						Austin 1985
<i>Lottia</i>	<i>triangularis</i>		Baxter 1987	I/ST/Epi	II III IV						Austin 1985
<i>Lottia</i>	<i>digitalis</i>		UAM	I/Epi	II III IV						Baxter 1987
<i>Tectura</i>	<i>fenestrata</i>		UAM	I/Epi	II III IV						Austin 1985
<i>Tectura</i>	<i>persona</i>		UAM	I/Epi	II III IV						Austin 1985
<i>Tectura</i>	<i>scutum</i>		UAM	I/ST/Epi	II III IV						Austin 1985
<i>Tectura</i>	<i>testudinalis</i>		Baxter 1987	I/ST/Epi	II					x	Austin 1985
<i>Boreotrophon</i>	<i>clathratus</i>		UAM	I/ST/Epi	II	x	x	x			Baxter 1987
<i>Boreotrophon</i>	<i>multicostata</i>		UAM	I/ST/Epi	II III IV						Turgeon et al. 1998
<i>Boreotrophon</i>	<i>truncatus</i>	<i>B. pacificus/ B. beringi</i>	UAM	I/ST/Epi	II	x	x	x			Turgeon et al. 1998
<i>Nucella</i>	<i>canaliculata</i>		UAM	I/Epi	II III IV						Baxter 1987
<i>Nucella</i>	<i>lamellosa</i>		UAM	I/Epi	II III IV						Austin 1985
<i>Nucella</i>	<i>lima</i>		UAM	I/Epi	II III IV	x					Baxter 1987
<i>Ocenebrina</i>	<i>interfossa</i>	<i>Ocenebra</i>	UAM	I/Epi	II III IV						Baxter 1987
<i>Ocenebrina</i>	<i>lurida</i>	<i>Ocenebra</i>	UAM	I/Epi	II III IV						Austin 1985
<i>Scabrotrophon</i>	<i>maltzan</i>	<i>Trophonopsis lasius</i>	UAM	I/Epi	II III IV						Baxter 1987

Table 10.4 continued.

GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
					NEP	NWP	AR	NWA			
<i>Tritonia</i>	<i>diomedea</i>		Lee and Foster 1985	ST/Epi	II III IV	x				Lee and Foster 1985	
<i>Tritonia</i>	<i>festiva</i>		Lee and Foster 1985	ST/Epi	II III IV					Lee and Foster 1985	
<i>Trochuina</i>	<i>tetraquetra</i>		Lee and Foster 1985	ST/Epi	II III IV	x				Lee and Foster 1985	
<i>Cidarina</i>	<i>cidaris</i>		UAM	ST/Epi	II III IV					Baxter 1987	
<i>Lirularia</i>	<i>succincta</i>		UAM	I/Inf	II III IV					Austin 1985	
<i>Margarites</i>	<i>beringensis</i>		UAM	I/Inf	II III IV					Baxter 1987	
<i>Margarites</i>	<i>helacinus</i>		UAM	ST/Inf	II	x	x	x		Austin 1985	
<i>Margarites</i>	<i>pupillus</i>		UAM	ST/Inf	II III IV					Austin 1985	
<i>Solariella</i>	<i>varicosa</i>		UAM	ST/Inf	II			x		Baxter 1987	
<i>Solariella</i>	<i>obscura</i>		UAM	ST/Inf	II			x		Austin 1985	
<i>Spiromoellaria</i>	<i>kachemakens</i>		UAM	I/ST/Epi	II III IV					Baxter 1987	
<i>Aforia</i>	<i>circinata</i>		UAM	ST/Inf	II III IV					Baxter 1987	
<i>Tachyrhynchus</i>	<i>erosus</i>		Baxter 1987	ST/Inf	II			x		Austin 1985	
<i>Tachyrhynchus</i>	<i>reticulatus</i>		Baxter 1987	ST/Inf	II III IV					Austin 1985	
<i>Velutina</i>	<i>plicatilis</i>		Baxter 1987	ST/Epi	II			x		Austin 1985	
<i>Velutina</i>	<i>prolongata</i>		Baxter 1987	ST/Epi	II III IV					Austin 1985	
<i>Velutina</i>	<i>rubra</i>		Foster 2000	I/Epi	II III IV					Austin 1985	
<i>Velutina</i>	<i>undata</i>		Baxter 1987	ST/Epi	II	x	x	x		Austin 1985	
<i>Volumitra</i>	<i>alaskana</i>		UAM	ST/Epi	II III IV					Baxter 1987	
<i>Arctomelon</i>	<i>steamsii</i>		UAM	ST/Epi	II III IV					Austin 1985	
<i>Janolus</i>	<i>fuscus</i>		Goddard 2000	ST/Epi	II III IV				SE Alaska	nr Goddard 2000	
<i>Clio</i>	<i>pyramidata</i>		Cooney 1987	P	x	x		x		Turgeon et al. 1998	
<i>Cryptochiton</i>	<i>stelleri</i>		UAM	I/ST/Epi	II III IV					Baxter 1987	
<i>Lepidozona</i>	<i>interstincta</i>	<i>Ischnochiton</i>	UAM	ST/Epi	II III IV					Baxter 1987	
<i>Stenonemus</i>	<i>albus</i>	<i>Ischnochiton</i>	UAM	ST/Epi	II			x		Baxter 1987	
<i>Leptochiton</i>	<i>rugatus</i>		UAM	I/ST/Epi	II III IV	x				Austin 1985	
<i>Katherina</i>	<i>tunicata</i>		UAM	I/Epi	II III IV					Baxter 1987	
<i>Mopalia</i>	<i>laevior</i>		UAM	I/ST/Epi	II III IV					Austin 1985	
<i>Mopalia</i>	<i>lignosa</i>		UAM	I/ST/Epi	II III IV					Baxter 1987	
<i>Mopalia</i>	<i>ciliata</i>		UAM	I/ST/Epi	II III IV					Baxter 1987	
<i>Mopalia</i>	<i>cirrata</i>		UAM	I/ST/Epi	II III IV					Baxter 1987	
<i>Mopalia</i>	<i>mucosa</i>		UAM	I/ST/Epi	II III IV					Baxter 1987	
<i>Mopalia</i>	<i>spectabilis</i>		Baxter 1987	I/ST/Epi	II III IV					Baxter 1987	
<i>Mopalia</i>	<i>swanii</i>		UAM	I/ST/Epi	II III IV					Austin 1985	
<i>Placiphorella</i>	<i>rufa</i>		UAM	I/ST/Epi	II III IV					Austin 1985	
<i>Schizoplax</i>	<i>brandtii</i>		UAM	I/Epi	II III IV	x				Austin 1985	
<i>Tonicella</i>	<i>insignis</i>	Ischnochitonidae	Foster 2000	I/ST/Epi	II III IV					Baxter 1987	
<i>Tonicella</i>	<i>lineata</i>	Ischnochitonidae	UAM	I/ST/Epi	II III IV					Baxter 1987	
<i>Tonicella</i>	<i>rubra</i>	Ischnochitonidae	UAM	I/ST/Epi	II			x		Baxter 1987	
<i>Rhabdus</i>	<i>rectius</i>	<i>Dentalium dalli</i>	UAM	ST/Inf	II III IV					Baxter 1987	
<i>Pulsellum</i>	<i>salishorum</i>		UAM	ST/Inf	II III IV					Baxter 1987	
<i>Polyschides</i>	<i>tolmei</i>	<i>Cadulus steamsi</i>	UAM	ST/Inf	II III IV					Baxter 1987	

Arthropoda

Chelicerata and Pycnogonida are relatively scarce in Prince William Sound compared to Crustacea. Seven of the ten pycnogonid species are included in the data set based on UAM specimens, One Acarina and one pseudoscorpion are frequently observed in the high intertidal zone of southeastern and south-central Alaska.

Crustacea make up about 28% of the animal species listed in the data set (Table 10.5). We list 172 copepods, (including planktonic species from the Gulf of Alaska which may be present occasionally in Prince William Sound), 105 decapods, 105 amphipods, 21 cumacean, 19 isopods, and smaller numbers of others.

Several taxa (e.g. Ostracoda) are probably very much under-counted. Six copepods, one amphipod, and two ostracods are identified to the family level, and no further. A large number of small crustacea, mostly harpacticoid copepods and amphipods have not been identified to species. Two species, the amphipod *Jassa* sp./*marmorata* and the copepod *Leimia vaga* are possible NIS, but this number probably represents an underestimate. Cordell (2000) pointed out that “Harpacticoid copepods may be particularly likely to be transported and introduced because as a group they have successfully occupied almost all benthic and epibenthic habitats. ... The paucity of studies of harpacticoid taxonomy in the northeastern Pacific makes it nearly impossible to determine whether or not a given species has been introduced without extensive distribution or genetic studies.” We have not included an inventory of parasitic cirripedia or isopods, but several species of these were recorded by Hines et al. (2000).

Sources for information of Crustacea include Barnard 1969 (amphipods), Butler 1980 (shrimp), Hart 1982 (crabs), and Schultz 1969 and Squires and Figueria 1974 (isopods). J. Chapman (2000) contributed to the information on Pericarida, and J. Cordell (2000) to our knowledge of the harpacticoid Copepoda. Records for the planktonic crustacea derive from unpublished data compiled from T. Cooney’s Sound Ecosystem Analysis project of 1994-1998. We found eleven new records for the occurrence of Crustacea.

The third major group of Arthropoda, marine and brackish water insects, have not been surveyed in any detail in the area. For insects, Austin (1985) lists eight Coleoptera, and 12 Diptera with ranges that include Alaska.

Table 10.5. Arthropoda.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	REFERENCE to NIS STATUS DISTRIBUTION
							NEP	NWP	AR	NWA		
Arachnida: Acarina		<i>Nemolagus</i>	<i>littoralis</i>		Foster/Hoberg-observation	I/Epi						
Arachnida: Pseudoscorpionida		unidentified	unidentified		UAM	I/epi						
Crustacea: Amphipoda	Acanthonotozomatidae	<i>Odius</i>	<i>carinatus</i>		EVOS	ST/Epi	II			x		Austin 1985
Crustacea: Amphipoda	Ampeliscidae	<i>Ampelisca</i>	<i>birulai</i>		Feder and Matheke 1980	I/ST/Inf	II III IV	x		x		Coyle and Highsmith 1994
Crustacea: Amphipoda	Ampeliscidae	<i>Ampelisca</i>	<i>brevisimulata</i>		EVOS	ST	II III IV					Austin 1985
Crustacea: Amphipoda	Ampeliscidae	<i>Ampelisca</i>	<i>caryei</i>		EVOS	ST	II III IV					Austin 1985
Crustacea: Amphipoda	Ampeliscidae	<i>Ampelisca</i>	<i>pugetica</i>		EVOS	ST	II III IV					Austin 1985
Crustacea: Amphipoda	Ampeliscidae	<i>Ampelisca</i>	<i>eschrichti</i>		Feder and Matheke 1980	ST/Inf	II III IV	x				Austin 1985
Crustacea: Amphipoda	Ampeliscidae	<i>Ampelisca</i>	<i>macrocephala</i>	<i>A. careyi</i>	Feder and Matheke 1980	ST/Inf	II III IV					Austin 1985
Crustacea: Amphipoda	Ampeliscidae	<i>Haploops</i>	<i>tubicola</i>		Feder and Matheke 1980	ST/Inf	II	x		x		Austin 1985
Crustacea: Amphipoda	Amphitoidae	<i>Ampithoe</i>	<i>kussakini</i>		Chapman 2000	I/Inf	II III IV	x				Chapman 2000
Crustacea: Amphipoda	Amphitoidae	<i>Ampithoe</i>	<i>sectimanus</i>		Chapman 2000	I/Inf	II III IV					Chapman 2000
Crustacea: Amphipoda	Amphitoidae	<i>Ampithoe</i>	<i>simulans</i>		Feder and Bryson-Schwafel 1988	I/ST	x	x	x	x		Austin 1985
Crustacea: Amphipoda	Amphitoidae	<i>Peramphithoe</i>	<i>eoae</i>	<i>Ampithoe mea</i>	Chapman 2000	I/Inf	II III IV					Chapman 2000
Crustacea: Amphipoda	Amphitoidae	<i>Peramphithoe</i>	<i>humeralis</i>	<i>Ampithoe</i>	Chapman 2000	I/Inf	II III IV					Chapman 2000
Crustacea: Amphipoda	Anisogammaridae	<i>Anisogammarus</i>	<i>pugettensis</i>		EVOS	ST/Epi	II III IV	x				Chapman 2000
Crustacea: Amphipoda	Anisogammaridae	<i>Eogammarus</i>	<i>confervicolus</i>	<i>Anisogammarus</i>	Chapman 2000	I/Inf	II III IV					Chapman 2000
Crustacea: Amphipoda	Anisogammaridae	<i>Eogammarus</i>	<i>oclairi</i>		Chapman 2000	I/Inf	II III IV					Chapman 2000
Crustacea: Amphipoda	Anisogammaridae	<i>Eogammarus</i>	unidentified		Chapman 2000	I/ST						
Crustacea: Amphipoda	Anisogammaridae	<i>Locustogammarus</i>	<i>locustoides</i>		Chapman 2000	I/Inf	II III IV					Chapman 2000
Crustacea: Amphipoda	Anisogammaridae	<i>Spinulogammarus</i>	<i>subcarinatus</i>		Chapman 2000	I?	II III IV					Chapman 2000
Crustacea: Amphipoda	Aoridae	<i>Aoroides</i>	<i>columbiae</i>		EVOS	ST	II III IV	x				Austin 1985
Crustacea: Amphipoda	Atylidae	<i>Atylus</i>	<i>collingi</i>		EVOS	ST	II III IV	x				Austin 1985
Crustacea: Amphipoda	Calliopiidae	<i>Calliopiella</i>	unidentified	<i>Paracalliopiella</i>	Chapman 2000	I/Inf						

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Amphipoda	Calliopiidae	<i>Calliopi</i>	<i>behringi</i>		Cooney 1987	I/ST	II III	x	x	x			Gur'yanova 1951, 1962
Crustacea: Amphipoda	Calliopiidae	<i>Calliopi</i>	<i>carinatus?</i>		Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Calliopiidae	<i>Calliopi</i>	<i>laeviuscula</i>		Cooney 1987	P	III IV V VI	x		x			Austin 1985
Crustacea: Amphipoda	Caprellidae	<i>Caprella</i>	<i>drepanochir</i>		Chapman 2000	I/Inf	II III IV	x			C		Chapman 2000
Crustacea: Amphipoda	Caprellidae	<i>Caprella</i>	<i>laeviuscula</i>		Chapman 2000	I/Inf	II III IV	x					Chapman 2000
Crustacea: Amphipoda	Caprellidae	<i>Caprella</i>	unidentified		Chapman 2000	I/Inf							
Crustacea: Amphipoda	Caprellidae	<i>Metacaprella</i>	<i>kennerlyi</i>		Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Corophidae	<i>Neohela</i>	unidentified		Feder and Matheke 1980	ST/Inf							
Crustacea: Amphipoda	Corophidae	<i>Americorophium</i>	<i>brevis</i>	<i>Corophium</i>	Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Corophidae	<i>Americorophium</i>	<i>salmonis</i>	<i>Corophium</i>	Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Corophidae	<i>Americorophium</i>	<i>spinicore</i>	<i>Corophium</i>	Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Corophidae	<i>Corophium</i>	unidentified		EVOS	ST							
Crustacea: Amphipoda	Corophidae	<i>Monocorophium</i>	<i>carlottensis?</i>		Chapman 2000	I/Inf	II III IV				C		Chapman 2000
Crustacea: Amphipoda	Dexamidae	<i>Guernea</i>	unidentified		EVOS	ST							
Crustacea: Amphipoda	Eusiridae	<i>Eusiriella</i>	<i>multicalceola</i>	<i>Gracilipes</i>	Cooney 1987	P	II III						Austin 1985
Crustacea: Amphipoda	Eusiridae	<i>Pontogeneia</i>	unidentified		EVOS	ST							
Crustacea: Amphipoda	Eusiridae	<i>Rhachotropis</i>	<i>natator</i>		Cooney 1987	P	II III IV V			x			Austin 1985
Crustacea: Amphipoda	Gammaridae	<i>Lagunogammarus</i>	<i>setosus</i>		Chapman 2000	I/Inf	II III IV			x			Chapman 2000
Crustacea: Amphipoda	Haustoriidae	<i>Erichthonius</i>	<i>hunteri</i>	<i>E. rubricornis</i>	Feder and Matheke 1980	I/ST/Inf	II	x		x			Austin 1985
Crustacea: Amphipoda	Hyalellidae	<i>Najna</i>	unidentified	<i>Najnidae</i>	EVOS	I/St							
Crustacea: Amphipoda	Hyalidae	<i>Allorchestes</i>	<i>angusta</i>		Chapman 2000	I/Inf	II III IV	x					Chapman 2000
Crustacea: Amphipoda	Hyalidae	<i>Hyale</i>	<i>frequena</i>		Chapman 2000	I/Inf	II III IV						Chapman 2000

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Amphipoda	Hyalidae	<i>Hyale</i>	<i>plumulosa</i>		Chapman 2000	I/Inf	II II III IV V VI VII VIII IX	x		x		C	Chapman 2000
Crustacea: Amphipoda	Hyperiididae	<i>Euprimno</i>	<i>macropa</i>	<i>Primno abyssalis</i>	Cooney: SEA	P		x		x			Austin 1985
Crustacea: Amphipoda	Hyperiididae	<i>Euprimno</i>	unidentified	<i>Primno</i>	Cooney 1987	P							
Crustacea: Amphipoda	Hyperiididae	<i>Hyperia</i>	<i>medusarum hystrix</i>		Cooney 1987	P	II III IV V VI			x			Austin 1985
Crustacea: Amphipoda	Hyperiididae	<i>Hyperia</i>	unidentified		Cooney 1987	P							
Crustacea: Amphipoda	Hyperiididae	<i>Hyperoche</i>	<i>medusarum</i>		Cooney 1987	P	II III IV V VI			x			Austin 1985
Crustacea: Amphipoda	Hyperiididae	<i>Hyperoche</i>	unidentified		Cooney 1987	P							
Crustacea: Amphipoda	Hyperiididae	<i>Parathemisto</i>	<i>gracilipes</i>	<i>Thermisto</i>	Cooney 1987	P	II III	x		x			Austin 1985
Crustacea: Amphipoda	Hyperiididae	<i>Parathemisto</i>	<i>libellula</i>	<i>Thermisto</i>	Cooney 1987	P	II III IV V			x			Austin 1985
Crustacea: Amphipoda	Hyperiididae	<i>Parathemisto</i>	<i>pacifica</i>	<i>Thermisto</i>	Cooney 1987	P	II III IV	x					Austin 1985
Crustacea: Amphipoda	Isaeidae	<i>Photis</i>	unidentified		EVOS	ST/Inf							
Crustacea: Amphipoda	Ischyroceridae	<i>Ischyrocerus</i>	unidentified		EVOS	I/ST/Inf							
Crustacea: Amphipoda	Ischyroceridae	<i>Jassa</i>	sp./ <i>J. marmorata</i>		Chapman 2000	I/Inf	II					possible	Austin 1985
Crustacea: Amphipoda	Ischyroceridae	<i>Jassa</i>	<i>staudel?</i>		Chapman 2000	I/Inf	II III IV					C	Chapman 2000
Crustacea: Amphipoda	Ischyroceridae	<i>Protomeдея</i>	unidentified		Feder and Matheke 1980	I/ST/Inf							
Crustacea: Amphipoda	Lanceolidae	<i>Lanceola</i>	<i>pacifica</i>		Cooney 1987	P	II III	x		x			Gur'yanova 1951, 1962
Crustacea: Amphipoda	Lycaeidae	<i>Tryphana</i>	<i>malmii</i>		Cooney 1987	P	II III IV V						Austin 1985
Crustacea: Amphipoda	Lysianassidae	<i>Andaniexis</i>	<i>subabyssis</i>		Cooney 1987	P	II III IV	x					Gur'yanova 1951, 1962
Crustacea: Amphipoda	Lysianassidae	<i>Anonyx</i>	unidentified		Feder and Matheke 1980	I/ST/Inf							
Crustacea: Amphipoda	Lysianassidae	<i>Crybelocephalus</i>	unidentified		Feder and Matheke 1980	P	x	x	x	x			
Crustacea: Amphipoda	Lysianassidae	<i>Cyphocaris</i>	<i>anonyx</i>	<i>C. micronyx</i>	Cooney 1987	P	II III IV V VI VII VIII			x			Austin 1985

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Amphipoda	Lysianassidae	<i>Cyphocaris</i>	<i>challengeri</i>		Cooney and Coyle 1988	S/P	x	x	x	x			Austin 1985
Crustacea: Amphipoda	Lysianassidae	<i>Hippomedon</i>	<i>kurilicus</i>	<i>H. abyssi</i>	UAM	ST	II III IV	x					Gur'yanova 1951, 1962
Crustacea: Amphipoda	Lysianassidae	<i>Koroga</i>	<i>megalops</i>		Cooney 1987	P	II III	x	x	x			Austin 1985
Crustacea: Amphipoda	Lysianassidae	<i>Lepidepecerium</i>	unidentified		EVOS	ST							
Crustacea: Amphipoda	Lysianassidae	<i>Onismius</i>	unidentified		EVOS	ST							
Crustacea: Amphipoda	Lysianassidae	<i>Orchomene</i>	<i>obtusa</i>		Cooney: SEA	ST	II III IV V VI VII						Gur'yanova 1951, 1962
Crustacea: Amphipoda	Lysianassidae	<i>Orchomene</i>	<i>pacifica</i>		EVOS	ST	II III IV	x					Austin 1985
Crustacea: Amphipoda	Lysianassidae	<i>Orchomene</i>	unidentified		EVOS	ST							
Crustacea: Amphipoda	Lysianassidae	<i>Paracallisoma</i>	<i>alberti</i>		Cooney 1987	P	II III	x					Gur'yanova 1951, 1962
Crustacea: Amphipoda	Melitidae	<i>Maera</i>	<i>loveni</i>	<i>M. danae</i>	Feder and Matheke 1980	ST/Inf	II	x		x			Austin 1985
Crustacea: Amphipoda	Melitidae	<i>Melita</i>	<i>dentata</i>		EVOS	ST	II III IV	x					Austin 1985
Crustacea: Amphipoda	Melphidippidae	unidentified	unidentified		Cooney: SEA	ST	II III			x	NE Pac	NR?	Austin 1985
Crustacea: Amphipoda	Oedicerotidae	<i>Aceroides</i>	<i>latipes</i>		Feder and Matheke 1980	I/ST/Inf	II III IV		x				Austin 1985
Crustacea: Amphipoda	Oedicerotidae	<i>Bathymedon</i>	unidentified		EVOS	ST/Inf							
Crustacea: Amphipoda	Oedicerotidae	<i>Monoculodes</i>	<i>diamesus</i>		Feder and Matheke 1980	I/ST/Inf	II III IV						Gur'yanova 1951, 1962
Crustacea: Amphipoda	Oedicerotidae	<i>Synchelidium</i>	<i>rectipalmatum</i>		EVOS	ST/Inf	II III IV						Austin 1985
Crustacea: Amphipoda	Oedicerotidae	<i>Westwoodillia</i>	<i>rectangulata?</i>	<i>W. caecula</i>	Cooney 1987	P	II	x					Gur'yanova 1951, 1962
Crustacea: Amphipoda	Oxycephalidae	<i>Streesia</i>	unidentified		Cooney 1987	P							
Crustacea: Amphipoda	Paraphronimidae	<i>Paraphronima</i>	<i>crassipes</i>		Cooney 1987	P	II III IV V VI VII			x			Austin 1985
Crustacea: Amphipoda	Pardaliscidae	<i>Nicippe</i>	<i>tumida</i>		Feder and Matheke 1980	I/ST/Inf	II III IV	x					Austin 1985
Crustacea: Amphipoda	Phoxocephalidae	<i>Harpiniopsis</i>	<i>sanpedroensis</i>	<i>Harpinia</i>	Feder and Matheke 1980	I/ST/Inf	II III IV						Austin 1985
Crustacea: Amphipoda	Phoxocephalidae	<i>Paraphoxus</i>	<i>homilis</i>		EVOS	ST/Inf	II III IV						Austin 1985
Crustacea: Amphipoda	Phoxocephalidae	<i>Paraphoxus</i>	<i>similis</i>		EVOS	ST/Inf	II III IV						Austin 1985
Crustacea: Amphipoda	Phronimidae	<i>Phronima</i>	<i>sedentaria</i>		Cooney 1987	P	II III IV V VI			x			Austin 1985

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Amphipoda	Phrosinidae	<i>Primno</i>	<i>macropa</i>	<i>P. abyssalis</i>	Cooney 1987	P	II III IV V VI	x		x			Austin 1985
Crustacea: Amphipoda	Pleustidae	<i>Pleustes</i>	<i>cataphractus</i>		EVOS	I/Inf	x	x		x			Austin 1985
Crustacea: Amphipoda	Pontogeneiidae	<i>Megamoreia</i>	<i>subiener</i>		Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Pontogeneiidae	<i>Paramoera</i>	<i>bousfieldi</i>		Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Pontogeneiidae	<i>Paramoera</i>	<i>columbiana</i>		Feder and Bryson-Schwafel 1988	I/Inf	II III IV						Austin 1985
Crustacea: Amphipoda	Pontogeneiidae	<i>Paramoera</i>	<i>mohri</i>		Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Pontogeneiidae	<i>Pontogeneia</i>	<i>ivanovae</i>	<i>P. ivanovi</i>	Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Pontogeneiidae	<i>Pontogeneia</i>	<i>rostrata</i>		Chapman 2000	I/Inf	II III IV				C		Chapman 2000
Crustacea: Amphipoda	Pontoporeiidae	<i>Pontoporeia</i>	<i>femorata</i>		Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Amphipoda	Proscinidae	<i>Proscina</i>	<i>birsteini</i>		Cooney 1987	P	II	x					Gur'yanova 1951, 1962
Crustacea: Amphipoda	Scinidae	<i>Scina</i>	<i>borealis</i>		UAM	I/ST/Inf	II III IV V VI	x		x			Austin 1985
Crustacea: Amphipoda	Scinidae	<i>Scina</i>	<i>rattayi</i>		Cooney 1987	P	II III IV			x			Austin 1985
Crustacea: Amphipoda	Scinidae	<i>Scina</i>	unidentified		Cooney: SEA	P							
Crustacea: Amphipoda	Scinidae	<i>Scina</i>	<i>stebbingi</i>		Cooney 1987	P	II	x					Gur'yanova 1951, 1962
Crustacea: Amphipoda	Stenothoidae	<i>Metopa</i>	unidentified		Feder and Matheke 1980	I/ST/Inf							
Crustacea: Amphipoda	Stenothoidae	<i>Metopelloides</i>	<i>erythrophthalmus</i>		EVOS		II III IV						Austin 1985
Crustacea: Amphipoda	Synopiidae	<i>Syrrhoe</i>	<i>crenulata</i>		Feder and Matheke 1980	I/ST/Inf	II	x		x			Austin 1985
Crustacea: Amphipoda	Synopiidae	<i>Tiron</i>	<i>biocellata</i>		EVOS		II III IV						Austin 1985
Crustacea: Amphipoda	Talitridae	<i>Talitrus</i>	unidentified		Feder and Bryson-Schwafel 1988	I/Inf							
Crustacea: Amphipoda	Urothoidae	<i>Urothoe</i>	<i>denticulata</i>		Feder and Matheke 1980	I/ST/Inf	II III IV						Gur'yanova 1951, 1962
Crustacea: Amphipoda	Vibiliidae	<i>Viblia</i>	<i>australis</i>		Cooney 1987	P	II III IV II III IV V			x			Austin 1985
Crustacea: Cladocera	Podonidae	<i>Evadne</i>	<i>nordmanni</i>		Cooney 1987	P	VI	x	x	x			Austin 1985
Crustacea: Cladocera	Podonidae	<i>Evadne</i>	unidentified		Cooney 1987	P							

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Cladocera	Podonidae	<i>Evadne</i>	<i>tergistina</i>	<i>Pseudevadne</i>	Cooney 1987	P	II III IV V VI					Austin 1985	
Crustacea: Cladocera	Podonidae	<i>Podon</i>	<i>leuckarti</i>		Cooney 1987	P	II III IV V VI	x		x		Austin 1985	
Crustacea: Cladocera	Podonidae	<i>Podon</i>	<i>polyphmoies</i>		Cooney 1987	P	II III IV V VI	x	x	x		Austin 1985	
Crustacea: Cladocera	Podonidae	<i>Podon</i>	unidentified		Cooney 1987	P							
Crustacea: Copepoda: Calanoida	Acartiidae	<i>Acartia</i>	<i>cf. A. clausi</i>		Cordell 2000	P	II III IV					Cordell 2000	
Crustacea: Copepoda: Calanoida	Acartiidae	<i>Acartia</i>	<i>longiremis</i>		Cooney and Coyle 1988	P	II	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Acartiidae	<i>Acartia</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Acartiidae	<i>Acartia</i>	<i>tumida</i>		Cooney and Coyle 1988	P	II III IV V VI	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Aetideus</i>	<i>divergens</i>	<i>A. armatus</i>	Cooney 1987	P	II III IV V VI					Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Aetideus</i>	<i>pacificus</i>		Cooney 1987	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Aetideus</i>	unidentified		Cooney 1987	P							
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Bradyidius</i>	<i>saanichi</i>		Cooney 1987	P	II III IV					Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Chiridiella</i>	unidentified		Cooney and Coyle 1988	P							
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Chiridius</i>	<i>gracilis</i>		Cooney 1987	P	II III	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Chiridius</i>	<i>poppei</i>		Cooney 1987	P	II	x				Brodsky 1950	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Chiridius</i>	unidentified		Cooney and Coyle 1988	P							
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Gaetanus</i>	<i>intermedius</i>	<i>Gaidius</i>	Cooney 1987	P	II III IV					Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Gaidius</i>	<i>tenuispinus</i>	<i>G. minutus</i>	Cooney 1987	P	II III IV					Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Gaidius</i>	<i>variabilis</i>		Cooney 1987	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Pseudochirella</i>	<i>sarsi</i>	Euchaetidae: <i>Euchaeta</i>	Cooney 1987	P	II III IV					Austin 1985	
Crustacea: Copepoda: Calanoida	Aetideidae	<i>Pseudochirella</i>	unidentified		Cooney 1987	P							
Crustacea: Copepoda: Calanoida	Aetideidae	unidentified	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Augaptilidae	<i>Haloptilus</i>	<i>pseudooxycephalus</i>		Cooney 1987	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Augaptilidae	<i>Pachyptilis</i>	<i>pacificus</i>		Cooney 1987	P	II III	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Calanidae	<i>Calanus</i>	<i>glacialis</i>	<i>E. marshallae</i>	Cooney 1987	P	II III IV	x				Austin 1985	

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Copepoda: Calanoida	Calanidae	<i>Calanus</i>	<i>marshallae</i>	<i>C. glacialis</i>	Cooney and Coyle 1988	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Calanidae	<i>Calanus</i>	<i>pacificus</i>		Cooney 1987	P	II III IV					Austin 1985	
Crustacea: Copepoda: Calanoida	Calanidae	<i>Neocalanus</i>	<i>cristatus</i>		Cooney 1987	P	II III IV V	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Calanidae	<i>Neocalanus</i>	<i>flemingeri</i>		Cooney: SEA	P	II III IV					Miller 1988	
Crustacea: Copepoda: Calanoida	Calanidae	<i>Neocalanus</i>	<i>plumchrus</i>		Cooney and Coyle 1988	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Calanidae	<i>Neocalanus</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Candaciidae	<i>Candacia</i>	<i>bipinnata</i>		Cooney: SEA	P	II III IV V	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Candaciidae	<i>Candacia</i>	<i>columbiae</i>		Cooney and Coyle 1988	P	II III IV	x				Cooney 1987	
Crustacea: Copepoda: Calanoida	Centropagidae	<i>Centropages</i>	<i>abdominalis</i>		Cooney and Coyle 1988	P	II III IV	x				Cordell 2000	
Crustacea: Copepoda: Calanoida	Clausocalanidae	<i>Clausocalanus</i>	<i>arcuicornis</i>		Cooney 1987	P	II III IV					Austin 1985	
Crustacea: Copepoda: Calanoida	Clausocalanidae	<i>Clausocalanus</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Clausocalanidae	<i>Mesocalanus</i>	<i>tenuicornis</i>		Cooney 1987	P	II	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Clausocalanidae	<i>Microcalanus</i>	unidentified		Cooney 1987	P							
Crustacea: Copepoda: Calanoida	Clausocalanidae	<i>Pseudocalanus</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Corycaeidae	<i>Corycaeus</i>	<i>anglicus</i>		Cooney 1987	P	II III IV V			x		Austin 1985	
Crustacea: Copepoda: Calanoida	Corycaeidae	<i>Corycaeus</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Ectinosomatidae	<i>Microsetella</i>	<i>rosea</i>		Cooney 1987	P	II III VI V VI	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Ectinosomatidae	<i>Microsetella</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Eucalanidae	<i>Eucalanus</i>	<i>bungii</i>		Cooney and Coyle 1988	P	II III IV					Austin 1985	
Crustacea: Copepoda: Calanoida	Euchaetidae	<i>Euchaete</i>	<i>elongata</i>		Cooney and Coyle 1988	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Heterhabdidae	<i>Heterorhabdus</i>	<i>compactus</i>		Cooney 1987	P	II	x		x		Brodsky 1950 Gardner and Szabo 1982	
Crustacea: Copepoda: Calanoida	Heterhabdidae	<i>Heterorhabdus</i>	<i>robustoides</i>		Cooney 1987	P	II III	x					
Crustacea: Copepoda: Calanoida	Heterhabdidae	<i>Heterorhabdus</i>	<i>tanneri</i>		Cooney 1987	P	II III IV	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Heterhabdidae	<i>Heterostylites</i>	<i>longicornis</i>		Cooney: SEA	P	III VI V VI			x		Austin 1985	
Crustacea: Copepoda: Calanoida	Heterhabdidae	<i>Heterostylites</i>	<i>major</i>		Cooney 1987	P	II III IV			x		Austin 1985	
Crustacea: Copepoda: Calanoida	Lucicutiidae	<i>Lucicutia</i>	<i>flavicornis</i>		Cooney 1987	P	II III IV V VI			x		Austin 1985	

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Copepoda: Calanoida	Lucicutiidae	<i>Lucicutia</i>	<i>ovalis</i>		Cooney 1987	P	II III IV			x		Austin 1985	
Crustacea: Copepoda: Calanoida	Lucicutiidae	<i>Lucicutia</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Metridiidae	<i>Metridia</i>	<i>curticauda</i>		Cooney and Coyle 1988	P	II III IV			x		Austin 1985	
Crustacea: Copepoda: Calanoida	Metridiidae	<i>Metridia</i>	<i>okhotensis</i>	<i>M. longa</i>	Cooney and Coyle 1988	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Metridiidae	<i>Metridia</i>	<i>pacifica</i>		Cooney and Coyle 1988	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Metridiidae	<i>Metridia</i>	<i>princeps</i>		Cooney and Coyle 1988	P	II III IV V VI			x x		Austin 1985	
Crustacea: Copepoda: Calanoida	Metridiidae	<i>Metridia</i>	unidentified		Cooney and Coyle 1988	P							
Crustacea: Copepoda: Calanoida	Metridiidae	<i>Pleuromamma</i>	<i>robusta</i>		Cooney 1987	P	II III IV			x		Austin 1985	
Crustacea: Copepoda: Calanoida	Metridiidae	<i>Pleuromamma</i>	<i>scutullata</i>		Cooney 1987	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Monstrillidae	<i>Cymbasoma</i>	<i>rigidum</i>		Cooney 1987	P	II III			x		Austin 1985	
Crustacea: Copepoda: Calanoida	Monstrillidae	<i>Monstrilla</i>	<i>canadensis</i>		Cooney 1987	P	II III IV			x		Gardner and Szabo 1982	
Crustacea: Copepoda: Calanoida	Monstrillidae	<i>Monstrilla</i>	<i>helgolandica</i>		Cooney 1987	P	II III IV			x		Gardner and Szabo 1982	
Crustacea: Copepoda: Calanoida	Monstrillidae	<i>Monstrilla</i>	<i>longiremus</i>		Cooney 1987	P	II III IV					Gardner and Szabo 1982	
Crustacea: Copepoda: Calanoida	Monstrillidae	<i>Monstrilla</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Calanoida	Monstrillidae	<i>Monstrilla</i>	<i>wandlii</i>		Cooney 1987	P	II III IV			x		Gardner and Szabo 1982	
Crustacea: Copepoda: Calanoida	Paracalanidae	<i>Paracalanus</i>	<i>parvus</i>		Cooney 1987	P	II III IV V VI	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Paracalanidae	<i>Paracalanus</i>	unidentified		Cordell 2000	P							
Crustacea: Copepoda: Calanoida	Phaennidae	<i>Gaetanus</i>	unidentified		Cooney and Coyle 1988	P							
Crustacea: Copepoda: Calanoida	Pontelliidae	<i>Epilabidocera</i>	<i>longipedata</i>	<i>E. amphitrites</i>	Cooney 1987	P	II III IV	x				Austin 1985	
Crustacea: Copepoda: Calanoida	Pseudocalanidae	<i>Pseudocalanus</i>	unidentified		Cordell 2000	P							
Crustacea: Copepoda: Calanoida	Scolecitrichidae	<i>Lophothrix</i>	<i>frontalis</i>		Cooney 1987	P	II III IV V VI			x		Austin 1985	
Crustacea: Copepoda: Calanoida	Scolecitrichidae	<i>Racovitzanus</i>	<i>antarcticus</i>		Cooney 1987	P	III IV	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Scolecitrichidae	<i>Scaphocalanus</i>	<i>brevicornis</i>		Cooney 1987	P	II III IV	x		x		Austin 1985	
Crustacea: Copepoda: Calanoida	Scolecitrichidae	<i>Scaphocalanus</i>	<i>magnus</i>		Cooney 1987	P	II III IV	x		x		Austin 1985	

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Copepoda: Calanoida	Scolecitrichidae	<i>Scolecithricella</i>	<i>minor</i>		Cooney 1987	P	II	x		x			Austin 1985
Crustacea: Copepoda: Calanoida	Scolecitrichidae	<i>Scolecithricella</i>	<i>ovata</i>	<i>S. subdentata</i>	Cooney: SEA	P	II III IV V VI						Austin 1985
Crustacea: Copepoda: Calanoida	Spinocalanidae	<i>Spinocalanus</i>	<i>brevicaudatus</i>		Cooney 1987	P	II III	x		x			Austin 1985
Crustacea: Copepoda: Calanoida	Temoridae	<i>Eurytemora</i>	<i>americana</i>		Cooney 1987	P	II III	x					Austin 1985
Crustacea: Copepoda: Calanoida	Temoridae	<i>Eurytemora</i>	<i>herdmani</i>	<i>E. pacifica</i>	Cordell 2000	P	II III IV	x					Austin 1985
Crustacea: Copepoda: Calanoida	Temoridae	<i>Eurytemora</i>	unidentified		Cooney 1987	P							
Crustacea: Copepoda: Calanoida	Tharydidae	<i>Undinella</i>	unidentified		Cooney 1987	P							
Crustacea: Copepoda: Calanoida	Tortanidae	<i>Tortanus</i>	<i>discaudata</i>		Cooney and Coyle 1988	P	II	x		x			Austin 1985
Crustacea: Copepoda: Calanoida		<i>Amalothryx</i>	<i>inornata</i>			P							
Crustacea: Copepoda: Cyclopoida	Cyclopidae	<i>Euryte</i>	unidentified		Cordell 2000	P							
Crustacea: Copepoda: Cyclopoida	Cyclopidae	<i>Halicyclops</i>	unidentified		Cordell 2000	P							
Crustacea: Copepoda: Cyclopoida	Cyclopinidae	<i>Cyclopina</i>	unidentified		Cooney 1987	P							
Crustacea: Copepoda: Cyclopoida	Cyclopinidae	unidentified	unidentified		Cordell 2000	P							
Crustacea: Copepoda: Cyclopoida	Oithonidae	<i>Oithona</i>	<i>similis</i>		Cordell 2000	P	x	x	x	x			Cordell 2000
Crustacea: Copepoda: Cyclopoida	Oithonidae	<i>Oithona</i>	unidentified		Cooney: SEA	P							
Crustacea: Copepoda: Cyclopoida	Oithonidae	<i>Oithona</i>	<i>spinirostris</i>		Cordell 2000	P	x	x	x	x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Ameiridae	<i>Ameira</i>	<i>longipes</i>		Cordell 2000	I/Inf	II	x		x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Ameiridae	<i>Ameira</i>	sp. 1		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Ameiridae	<i>Ameira</i>	sp. 2		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Ameiridae	unidentified	sp. 1		Cordell 2000	I/Inf							

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Copepoda: Harpacticoida	Ancorabilidae	<i>Arthrotyllus</i>	<i>serratus</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Canthocamptidae	<i>Mesochra</i>	<i>pygmaea</i>		Feder and Bryson-Schwafel 1988	I/Inf	II	x	x	x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Canthocamptidae	<i>Mesochra</i>	sp. 1		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Canthocamptidae	unidentified	incertae sedis		Cordell 2000		II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Cletodidae	<i>Acrenhydrosoma</i>	unidentified		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Cletodidae	<i>Leimia</i>	<i>vaga</i>		Cordell 2000	I/Inf	II	x		x		possible	Cordell 2000
Crustacea: Copepoda: Harpacticoida	Cletodidae	<i>Nannopus</i>	<i>palustris</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II	x		x			Austin 1985
Crustacea: Copepoda: Harpacticoida	Cletodidae	<i>Rhizothrix</i>	unidentified		Feder and Bryson-Schwafel 1988	I/ST/Inf							
Crustacea: Copepoda: Harpacticoida	Danielsseniidae	<i>Danielsennia</i>	<i>typica</i>		Feder and Bryson-Schwafel 1988	I/Inf	II	x		x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Amonardia</i>	<i>normani</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Amonardia</i>	<i>perturbata</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Amphiascoides</i>	cf. <i>D. debilis</i>		Cordell 2000	I/Inf	II	x		x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Amphiascoides</i>	sp. 1		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Amphiascopis</i>	<i>cinctus</i>		Cordell 2000	I/Inf	II	x		x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Amphiascus</i>	<i>minutus</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Amphiascus</i>	sp. 1		Cordell 2000	I/Inf							

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	REFERENCE to	
							NEP	NWP	AR	NWA		NIS STATUS	DISTRIBUTION
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Diosaccus</i>	sp. 1		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Diosaccus</i>	<i>spinatus</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Robertsonia</i>	unidentified		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Stenhelia</i>	<i>peniculata</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Diosaccidae	<i>Stenhelia</i>	unidentified		Feder and Bryson- Schwafel 1988	I/ST/Inf							
Crustacea: Copepoda: Harpacticoida	Ectinosomatidae	<i>Ectinosoma</i>	unidentified		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Ectinosomatidae	<i>Halectinosoma</i>	<i>finmarchium</i>		Feder and Bryson- Schwafel 1988	I/ST/Inf	II	x		x			Austin 1985
Crustacea: Copepoda: Harpacticoida	Ectinosomatidae	<i>Halectinosoma</i>	<i>gothiceps</i>		Feder and Bryson- Schwafel 1988	I/ST/Inf	II	x		x			Austin 1985
Crustacea: Copepoda: Harpacticoida	Ectinosomatidae	<i>Halectinosoma</i>	sp. 1		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Ectinosomatidae	<i>Halectinosoma</i>	sp. 2		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Ectinosomatidae	<i>Halectinosoma</i>	sp. 3		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Ectinosomatidae	<i>Microarthridion</i>	<i>norvegica</i>		Cordell 2000	I/Inf	x	x	x	x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Harpacticidae	<i>Harpacticus</i>	<i>compressus</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Harpacticidae	<i>Harpacticus</i>	<i>septentrionalis</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Harpacticidae	<i>Harpacticus</i>	sp.- <i>obscurus</i> group 1		Cordell 2000	I/Inf	II III IV						Cordell 2000

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Copepoda: Harpacticoida	Harpacticidae	<i>Harpacticus</i>	sp.- <i>obscurus</i> group 2		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Harpacticidae	<i>Harpacticus</i>	sp.- <i>uniremis</i> group 1		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Harpacticidae	<i>Harpacticus</i>	<i>superflexus</i>		Feder and Bryson- Schwafel 1988	I/ST/Inf	II III						Cooney 1987
Crustacea: Copepoda: Harpacticoida	Harpacticidae	<i>Harpacticus</i>	<i>uniremis</i>		Feder and Bryson- Schwafel 1988	I/ST/Inf	II	x		x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Harpacticidae	<i>Zaus</i>	unidentified		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Echinolaophonte</i>	unidentified		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Heterolaophonte</i>	<i>discophora</i>		Cordell 2000	I/Inf	II	x		x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Heterolaophonte</i>	<i>longisetigera</i>		Cordell 2000	I/Inf	II	x		x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Heterolaophonte</i>	sp. 1		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Heterolaophonte</i>	<i>variabilis</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Laophonte</i>	<i>applanata?</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Laophonte</i>	<i>elongata?</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Laophonte</i>	sp. 1		Cordell 2000	I/Inf							
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Paralaophonte</i>	cf. <i>L. congenera</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Paralaophonte</i>	<i>hyperborea</i>		Cordell 2000	I/Inf	II	x		x			Cordell 2000
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Paralaophonte</i>	<i>pacifica</i>		Cordell 2000	I/Inf	II III IV						Cordell 2000
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Paralaophonte</i>	<i>perplexa</i>		Feder and Bryson- Schwafel 1988	I/ST/Inf	II III IV			x			Cordell 2000

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	REFERENCE to NIS STATUS DISTRIBUTION
							NEP	NWP	AR	NWA		
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Paralaophonte</i>	sp. 1		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Laophontidae	<i>Pseudonychocamptus</i>	<i>spinifer</i>		Cordell 2000	I/Inf	II III IV					Cordell 2000
Crustacea: Copepoda: Harpacticoida	Longipediidae	<i>Longipedia</i>	unidentified		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Parasthenelliidae	<i>Parasthenelia</i>	sp. 1		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Parasthenelliidae	<i>Parasthenelia</i>	sp. 2		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Tachidiidae	<i>Microarthridion</i>	<i>littorale</i>		Feder and Bryson-Schwafel 1988	I/Inf	II	x		x		Cordell 2000
Crustacea: Copepoda: Harpacticoida	Tegastidae	<i>Tegestes</i>	sp. 1		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Tegastidae	<i>Tegestes</i>	sp. 2		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Dactylopausia</i>	<i>cf. D. glacialis</i>	<i>Dactylopodia</i>	Cordell 2000	I/Inf	II	x		x		Cordell 2000
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Dactylopausia</i>	<i>glacialis</i>	<i>Dactylopodia</i>	Cordell 2000	I/Inf	II	x		x		Cordell 2000
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Dactylopausia</i>	<i>paratisboides</i>	<i>Dactylopodia</i>	Cordell 2000	I/Inf	II III IV					Cordell 2000
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Dactylopausia</i>	sp. 1	<i>Dactylopodia</i>	Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Dactylopausia</i>	<i>vulgaris</i>	<i>Dactylopodia</i>	Cordell 2000	I/Inf	II	x		x		Cordell 2000
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Diarthrodes</i>	sp. 2		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Idomene</i>	unidentified		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Paradactylopodia</i>	<i>latipes</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV					Austin 1985

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	REFERENCE to NIS STATUS DISTRIBUTION
							NEP	NWP	AR	NWA		
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Paradactylopodia</i>	<i>latipes</i>		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV					Austin 1985
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Paradactylopodia</i>	sp. 1		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Parathalestris</i>	sp. 1		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Parathalestris</i>	sp. 2		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Thalestridae	<i>Parathalestris</i>	sp. 3		Cordell 2000	I/Inf						
Crustacea: Copepoda: Harpacticoida	Tisbidae	<i>Scutellidium</i>	<i>arthuri</i>		Cordell 2000	I/Inf	II III IV					Cordell 2000
Crustacea: Copepoda: Harpacticoida	Tisbidae	<i>Tisbe</i>	cf. <i>T. furcata</i>		Cordell 2000	I/Inf	II III IV					Cordell 2000
Crustacea: Copepoda: Harpacticoida	Tisbidae	<i>Tisbe</i>	<i>gracilis</i>		Cooney 1987	I/Inf						Cooney 1987
Crustacea: Copepoda: Harpacticoida	Tisbidae	<i>Tisbe</i>	<i>inflata</i> ?		Feder and Bryson-Schwafel 1988	I/ST/Inf	II III IV					Austin 1985
Crustacea: Copepoda: Harpacticoida	Tisbidae	<i>Tisbe</i>	unidentified		Cordell 2000	I/Inf						
Crustacea: Copepoda: Poecilostomatoida	Oncaeidae	<i>Lubbockia</i>	<i>wilsonae</i>		Cooney 1987	P	II III			x		Austin 1985
Crustacea: Copepoda: Poecilostomatoida	Oncaeidae	<i>Oncaea</i>	<i>borealis</i>	Copepoda: Cyclopoida	Cooney 1987	P	II III IV V VI				x	Austin 1985
Crustacea: Copepoda: Poecilostomatoida	Oncaeidae	<i>Oncaea</i>	<i>conifera</i>		Cooney 1987	P	II III IV	x	x	x		Austin 1985
Crustacea: Copepoda: Poecilostomatoida	Oncaeidae	<i>Oncaea</i>	<i>prolata</i>	<i>O. notopus</i>	Cooney 1987	P	II III IV					Austin 1985
Crustacea: Copepoda: Poecilostomatoida	Oncaeidae	<i>Oncaea</i>	unidentified		Cooney: SEA	P						
Crustacea: Copepoda: Poecilostomatoida	Oncaeidae	<i>Pseudolubbockia</i>	<i>dilatata</i>		Cooney 1987	P	II III IV				x	Austin 1985
Crustacea: Copepoda: Poecilostomatoida		unidentified	unidentified	Copepoda: Cyclopoida	Cordell 2000		II III IV V VI					
Crustacea: Cumacea	Bodoptriidae	<i>Vaunthompsonia</i>	<i>pacifica</i>		EVOS	ST						Austin 1985

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Cumacea	Diastylidae	<i>Brachydiastylis</i>	unidentified		Feder and Matheke 1980	I/ST/Inf							
Crustacea: Cumacea	Diastylidae	<i>Diastylis</i>	<i>alaskensis</i>		EVOS	ST	II III IV	x					Austin 1985
Crustacea: Cumacea	Diastylidae	<i>Diastylis</i>	<i>bidentata</i>		EVOS	ST	II III IV	x					Austin 1985
Crustacea: Cumacea	Diastylidae	<i>Diastylis</i>	<i>koreana</i>		EVOS	ST	II III IV	x					Austin 1985
Crustacea: Cumacea	Diastylidae	<i>Diastylis</i>	<i>paraspinusola</i>		Hoberg 1986	ST	II III IV V VI						Austin 1985
Crustacea: Cumacea	Diastylidae	<i>Diastylopsis</i>	<i>dawsoni</i>		Hoberg 1986	ST	II III IV V VI						Austin 1985
Crustacea: Cumacea	Diastylidae	<i>Leptostylis</i>	unidentified		EVOS	ST	II III IV	x		x			Austin 1985
Crustacea: Cumacea	Lampropidae	<i>Lamprops</i>	<i>beringi?</i>		Chapman 2000	I/Inf	II III IV						Chapman 2000
Crustacea: Cumacea	Lampropidae	<i>Lamprops</i>	<i>quadriplicata</i>		EVOS	ST	II	x		x			Chapman 2000
Crustacea: Cumacea	Lampropidae	<i>Lamprops</i>	<i>sarsi</i>		EVOS	ST	II III IV	x					Austin 1985
Crustacea: Cumacea	Leuconiidae	<i>Eudorella</i>	<i>emarginata</i>		Feder and Jewett 1988	ST/Inf	II	x		x			Austin 1985
Crustacea: Cumacea	Leuconiidae	<i>Eudorellopsis</i>	<i>biplicata</i>		EVOS	ST/Inf	II	x		x			Austin 1985
Crustacea: Cumacea	Leuconiidae	<i>Eudorellopsis</i>	<i>deformis</i>		EVOS	ST/Inf	II III IV						Austin 1985
Crustacea: Cumacea	Leuconiidae	<i>Eudorellopsis</i>	<i>dezhavini</i>		EVOS	ST/Inf	II III IV	x					Austin 1985
Crustacea: Cumacea	Leuconiidae	<i>Eudorellopsis</i>	<i>integra</i>		Feder and Matheke 1980	ST/Inf	II	x		x			Austin 1985
Crustacea: Cumacea	Leuconiidae	<i>Leptocuma</i>	unidentified		Feder and Bryson-Schwafel 1988	I/ST							
Crustacea: Cumacea	Leuconiidae	<i>Leucon</i>	<i>nasica</i>		Feder and Matheke 1980	ST/Inf	II	x		x	x		Austin 1985
Crustacea: Cumacea	Leuconiidae	<i>Leucon</i>	<i>nasica orientalis</i>		UAM	ST	II	x		x	x		Austin 1985
Crustacea: Cumacea	Nannastacidae	<i>Campylaspis</i>	<i>rubicunda</i>		UAM		II	x		x	x		Schultz 1969
Crustacea: Cumacea	Nannastacidae	<i>Cumella</i>	<i>vulgaris</i>		Feder and Bryson-Schwafel 1988	I/ST/Epi	II III IV					C	Chapman 2000
Crustacea: Decapoda	Atelecyclidae	<i>Telmessus</i>	<i>cheiragonus</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Callinassidae	<i>Callinassa</i>	unidentified		Hart 1968	I/ST							
Crustacea: Decapoda	Cancriidae	<i>Cancer</i>	<i>branneri</i>		Hart 1968	I/ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Cancriidae	<i>Cancer</i>	<i>gracilis</i>		Hart 1968	I/ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Cancriidae	<i>Cancer</i>	<i>magister</i>		Hart 1968	I/ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Cancriidae	<i>Cancer</i>	<i>oregonensis</i>		Hart 1968	I/ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Cancriidae	<i>Cancer</i>	<i>productus</i>		Hart 1968	I/ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Crangonidae	<i>Argis</i>	<i>alaskensis</i>		UAM	ST/Epi	II III IV						Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Argis</i>	<i>lar</i>		EVOS	ST/Epi	II III IV	x					Butler 1980

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Decapoda	Crangonidae	<i>Argis</i>	<i>dentata</i>		Squires and Figueira 1974	I/ST	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Argis</i>	<i>levior</i>		Squires and Figueira 1974	ST/Epi	II	III	IV				Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Crangon</i>	<i>alaskensis</i>		Cooney 1987	ST/Epi	II	III	IV		VI		Austin 1985
Crustacea: Decapoda	Crangonidae	<i>Crangon</i>	<i>communis</i>		Squires and Figueira 1974	ST/Epi	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Crangon</i>	<i>dalli</i>		Squires and Figueira 1974	ST/Epi	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Crangon</i>	<i>franciscorum</i>		Squires and Figueira 1974	I/ST	II	III	IV				Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Crangon</i>	<i>nigricauda</i>		Squires and Figueira 1974	ST/Epi	II	III	IV				Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Lissocrangon</i>	<i>stylirostris</i>	<i>Crangon</i>	Squires and Figueira 1974	ST/Epi	II	III	IV				Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Mesocrangon</i>	<i>minuitella</i>		EVOS	ST/Epi	II	III	IV				Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Neocrangon</i>	<i>alaskensis</i>	<i>Crangon</i>	Squires and Figueira 1974	ST/Epi	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Paracrangon</i>	<i>echinata</i>		Squires and Figueira 1974	ST/Epi	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Rhynchocrangon</i>	<i>alata</i>		EVOS	ST/Epi	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Crangonidae	<i>Sclerocrangon</i>	<i>boreas</i>		Squires and Figueira 1974	ST/Epi	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Galatheididae	<i>Munida</i>	<i>quadrispina</i>		UAM	ST/Epi	II	III	IV				Butler 1980
Crustacea: Decapoda	Grapsidae	<i>Hemigrapsus</i>	<i>nudus</i>		Hart 1968	I/ST/Epi	II	III	IV				Hart 1968
Crustacea: Decapoda	Grapsidae	<i>Hemigrapsus</i>	<i>oregonensis</i>		Feder and Bryson-Schwafel 1988	I/ST/Epi	II	III	IV				Hart 1968
Crustacea: Decapoda	Hippolytidae	<i>Eualus</i>	<i>fabricii</i>		Squires and Figueira 1974	ST/Epi	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Eualus</i>	<i>macrophthalmus</i>		UAM	ST/Epi	II	III	IV				Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Eualus</i>	<i>suckleyi</i>		UAM	ST/Epi	II	III	IV	x			Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Eualus</i>	<i>avinus</i>		UAM	ST/Epi	II	III	IV				Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Eualus</i>	<i>gaimardii</i>		Squires and Figueira 1974	ST/Epi	II	III	IV	x			Austin 1985

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Decapoda	Hippolytidae	<i>Eualus</i>	<i>pusiolus</i>		Squires and Figueira 1974	ST/Epi	II	x		x			Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Eualus</i>	<i>townsendi</i>		Squires and Figueira 1974	ST/Epi	II III IV	x					Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>decorus</i>		Squires and Figueira 1974	ST/Epi	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>brevirostris</i>		Squires and Figueira 1974	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>camtschaticus</i>		Squires and Figueira 1974	I/ST	II III IV	x					Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>carinatus</i>		Squires and Figueira 1974	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>paludicola</i>		Squires and Figueira 1974	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>pictus</i>		Squires and Figueira 1974	I/ST	II III IV						Austin 1985
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>sitchensis</i>		Squires and Figueira 1974	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>stimpsoni</i>		Squires and Figueira 1974	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>stylus</i>		Squires and Figueira 1974	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Heptacarpus</i>	<i>tridens</i>		Squires and Figueira 1974	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Hippolyte</i>	<i>clarki</i>		Squires and Figueira 1974	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Lebbeus</i>	<i>groenlandicus</i>		Squires and Figueira 1974	I/ST	II III IV	x					Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Spirontocaris</i>	<i>arcuata</i>		UAM	I/ST	II III IV			x			Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Spirontocaris</i>	<i>lamellicornis</i>		UAM	I/ST	II III IV						Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Spirontocaris</i>	<i>ochotensis</i>		Squires and Figueira 1974	I/ST	II III IV	x					Butler 1980
Crustacea: Decapoda	Hippolytidae	<i>Spirontocaris</i>	<i>phippi</i>		Squires and Figueira 1974	I/ST	II	x			x		Austin 1985
Crustacea: Decapoda	Lithodidae	<i>Acantholithodes</i>	<i>hispidus</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Cryptolithodes</i>	<i>sitchensis</i>		Hart 1968	I/ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Cryptolithodes</i>	<i>typicus</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Hapalogaster</i>	<i>cavicauda</i>		Austin 1985	I/ST/Epi	II III IV						Austin 1985
Crustacea: Decapoda	Lithodidae	<i>Hapalogaster</i>	<i>grebnitskii</i>		Hart 1968	I/ST	II III IV	x					Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Hapalogaster</i>	<i>mertensii</i>		Hart 1968	I/ST/Epi	II III IV						Hart 1968

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Decapoda	Lithodidae	<i>Lithodes</i>	<i>aequispina</i>		UAM	ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Lithodes</i>	<i>couesi</i>		UAM	ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Lopholithodes</i>	<i>foraminatus</i>		UAM	ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Oedignathus</i>	<i>inermis</i>		Hart 1968	I/ST/Epi	II III IV	x					Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Paralithodes</i>	<i>camtschatica</i>		UAM	ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Phyllolithodes</i>	<i>papillosus</i>		UAM	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Placetrion</i>	<i>wosnessenskii</i>		UAM	ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Lithodidae	<i>Rhinolithodes</i>	<i>wosnessenskii</i>		UAM	ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Majidae	<i>Chionecetes</i>	<i>bairdi</i>		Feder and Jewett 1988	ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Majidae	<i>Chorilia</i>	<i>longipes</i>		Hart 1968	ST/Epi	II III IV	x					Hart 1968
Crustacea: Decapoda	Majidae	<i>Hyas</i>	<i>lyratus</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Majidae	<i>Oregonia</i>	<i>gracilis</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Majidae	<i>Pugettia</i>	<i>gracilis</i>		Hart 1968	I/ST/Epi	II III IV						Hart 1968
Crustacea: Decapoda	Majidae	<i>Pugettia</i>	<i>producta</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Majidae	<i>Pugettia</i>	<i>richii</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Majidae	<i>Scyra</i>	<i>acutifrons</i>		Hines et al. 2000	I/ST	II III IV	x					Hart 1968
Crustacea: Decapoda	Oplophoridae	<i>Hymenadora</i>	<i>frontalis</i>		Cooney 1987	P	II III IV V VI		x				Austin 1985
Crustacea: Decapoda	Paguridae	<i>Discorsopagurus</i>	<i>schmitti</i>		UAM	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Paguridae	<i>Elassochirus</i>	<i>cavimanus</i>		UAM	ST/Epi	II III IV	x					Hart 1968
Crustacea: Decapoda	Paguridae	<i>Elassochirus</i>	<i>gilli</i>		UAM	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Paguridae	<i>Elassochirus</i>	<i>tenimanius</i>		UAM	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Paguridae	<i>Labidochirus</i>	<i>splendescens</i>		UAM	I/ST	II III IV	x	x				Hart 1968
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>aleuticus</i>		UAM	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>beringanus</i>		UAM	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>capillatus</i>		UAM	I/ST	II III IV						Hart 1968

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>cornutus</i>		UAM	ST/Epi	II	III	IV			Hart 1968	
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>granosimanus</i>		UAM	I/ST	II	III	IV			Hart 1968	
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>hirsutiussculus</i> <i>hirsutiussculus</i>		Feder and Bryson-Schwafel 1988	I/ST	II	III	IV			Hart 1968	
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>kennerleyi</i>		UAM	I/ST	II	III	IV			Hart 1968	
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>samuelis</i>		UAM	I/ST/Epi	II	III	IV			Hart 1968	
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>caurinus</i>		Hart 1968	I/ST	II	III	IV	V		Hart 1968	
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>confragosus</i>		Feder et al. 1979	ST/Epi	II	III	IV			Hart 1968	
Crustacea: Decapoda	Paguridae	<i>Pagurus</i>	<i>ochotensis</i>		Feder and Bryson-Schwafel 1988	I/ST	II	III	IV			Hart 1968	
Crustacea: Decapoda	Pandalidae	<i>Pandalopsis</i>	<i>dispar</i>		Feder and Jewett 1988	ST/Epi	II	III	IV			Butler 1980	
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	<i>danae</i>		Squires and Figueira 1974	I/ST	II	III	IV			Butler 1980	
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	<i>jordani</i>		UAM	ST/Epi	II	III	IV			Butler 1980	
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	unidentified		Cooney: SEA	ST/Epi							
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	<i>borealis</i>		Feder and Jewett 1988	ST/Epi	II			x		x	Butler 1980
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	<i>goniurus</i>		Squires and Figueira 1974	ST/Epi	II	III	IV	x		Butler 1980	
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	<i>hypsinosus</i>		Squires and Figueira 1974	I/ST	II	III	IV	x		Butler 1980	
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	<i>montagui tridens</i>		Squires and Figueira 1974	ST/Epi	II	III	IV			Butler 1980	
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	<i>platyceros</i>		Squires and Figueira 1974	I/ST	II	III	IV	x		Butler 1980	
Crustacea: Decapoda	Pandalidae	<i>Pandalus</i>	<i>stenolepis</i>		Squires and Figueira 1974	ST/Epi	II	III	IV			Butler 1980	
Crustacea: Decapoda	Pasiphaeidae	<i>Pasiphaea</i>	<i>pacifica</i>		UAM	P	II	III	IV	x		Butler 1980	
Crustacea: Decapoda	Pinnotheridae	<i>Pinnixa</i>	<i>littoralis</i>		Hart 1968	I/ST	II	III	IV			Hart 1968	
Crustacea: Decapoda	Pinnotheridae	<i>Pinnixa</i>	<i>occidentalis</i>		Hart 1968	ST/Epi	II	III	IV			Hart 1968	
Crustacea: Decapoda	Pinnotheridae	<i>Pinnixa</i>	<i>schmitti</i>		Feder and Matheke 1980	ST/Epi	II	III	IV			Hart 1968	

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Crustacea: Decapoda	Porcellanidae	<i>Petrolisthes</i>	<i>erimerus</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Decapoda	Sergestidae	<i>Sergestes</i>	<i>similis</i>	<i>Eusergestes</i>	Cooney 1987	P	II III IV V VI	x					Austin 1985
Crustacea: Decapoda	Upogebiidae	<i>Upogebia</i>	<i>pugettensis</i>		Squires and Figueira 1974	I/Inf	II III IV						Hart 1968
Crustacea: Decapoda	Xanthidae	<i>Lophopanopeus</i>	<i>bellus bellus</i>		Hart 1968	I/ST	II III IV						Hart 1968
Crustacea: Euphausiacea	Euphausiidae	<i>Euphausia</i>	<i>pacifica</i>		Cooney 1987	P	II III IV V VI	x					Austin 1985
Crustacea: Euphausiacea	Euphausiidae	<i>Stylocherion</i>	unidentified		Cooney 1987	P							
Crustacea: Euphausiacea	Euphausiidae	<i>Tessarabranichion</i>	<i>oculata</i>		Cooney 1987	P	II III IV V	x					Austin 1985
Crustacea: Euphausiacea	Euphausiidae	<i>Thysanoessa</i>	<i>inermis</i>		Cooney 1987	P	II III IV V VI	x					Austin 1985
Crustacea: Euphausiacea	Euphausiidae	<i>Thysanoessa</i>	<i>longipes</i>		Cooney 1987	P	III IV	x					Austin 1985
Crustacea: Euphausiacea	Euphausiidae	<i>Thysanoessa</i>	<i>spinifera</i>		Cooney 1987	P	II III IV V VI						Austin 1985
Crustacea: Euphausiacea	Euphausiidae	<i>Thysanoessa</i>	<i>inspinata</i>		Cooney 1987	P	II III IV	x					Austin 1985
Crustacea: Euphausiacea	Euphausiidae	<i>Thysanoessa</i>	<i>raschii</i>		Cooney and Coyle 1988	P	II	x		x			Austin 1985
Crustacea: Isopoda	Aegidae	<i>Rocinela</i>	<i>angustana</i>		UAM	ST	II III IV						Schultz 1969
Crustacea: Isopoda	Dajidae	<i>Holophryxus</i>	<i>alascensis</i>		UAM	ST	II III IV						Austin 1985
Crustacea: Isopoda	Gnathiidae	<i>Gnathia</i>	<i>tridens</i>		EVOS	ST	II III IV				California	NR	Schultz 1969
Crustacea: Isopoda	Gnathiidae	<i>Gnathia</i>	unidentified		Feder and Matheke 1980	ST/Inf							Schultz 1969
Crustacea: Isopoda	Idoteidae	<i>Idotea</i>	<i>fewkesi</i>		EVOS	I/ST	II III IV V VI						Schultz 1969
Crustacea: Isopoda	Idoteidae	<i>Idotea</i>	<i>obscura</i>		Chapman 2000	I/Epi	II III IV						Chapman 2000
Crustacea: Isopoda	Idoteidae	<i>Pentidotea</i>	<i>wosnessenskii</i>	<i>Idotea</i>	Feder and Bryson-Schwafel 1988	I/Epi	II III IV						Schultz 1969
Crustacea: Isopoda	Idoteidae	<i>Synidotea</i>	<i>ritteri</i>		UAM	ST/Epi	II III IV V				California	NR	Schultz 1969
Crustacea: Isopoda	Janiroidae	<i>Janiropsis</i>	<i>kincaidi</i>	<i>J. pugettensis</i>	Chapman 2000	I	II III IV						Chapman 2000
Crustacea: Isopoda	Ligiidae	<i>Ligia</i>	<i>pallasii</i>		Chapman 2000	I/Epi	II III IV						Chapman 2000
Crustacea: Isopoda	Limnoriidae	<i>Limnoria</i>	<i>lignorum</i> cf. <i>M.</i>		EVOS	I/ST	II III IV						Schultz 1969
Crustacea: Isopoda	Munnidae	<i>Munna</i>	<i>chromocephala</i>		UAM	ST	II III IV				Washington	NR	Schultz 1969
Crustacea: Isopoda	Munnidae	<i>Munna</i>	<i>ubiquita</i>		EVOS	ST	II III IV				Washington	NR	Schultz 1969
Crustacea: Isopoda	Munnidae	<i>Pleurogonium</i>	unidentified			I/Epi							Schultz 1969
Crustacea: Isopoda	Sphaeromatidae	<i>Dynamenella</i>	<i>sheari</i>		UAM	I/Epi	II III IV						Austin 1985
Crustacea: Isopoda	Sphaeromatidae	<i>Exosphaeroma</i>	<i>amplicauda</i>		UAM	I/Epi	II III IV						Schultz 1969
Crustacea: Isopoda	Sphaeromatidae	<i>Exosphaeroma</i>	unidentified		UAM	I/Epi							Schultz 1969
Crustacea: Isopoda	Sphaeromatidae	<i>Gnorimosphaeroma</i>	<i>lutea</i>	<i>G. insulare</i>	Chapman 2000	I/Epi	II III IV						Chapman 2000

Table 10.5 continued.

HIGHER TAXON	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION	
							NEP	NWP	AR	NWA				
Crustacea: Thoracica	Balanomorpha	<i>Semibalanus</i>	<i>balanoides</i>	<i>Balanus</i>	Feder and Bryson-Schwafel 1988	I/Epi	II	III	IV				Austin 1985	
Crustacea: Thoracica	Balanomorpha	<i>Semibalanus</i>	<i>cariosus</i>	<i>Balanus</i>	Feder and Bryson-Schwafel 1988	I/Epi	II	III	IV	x			Austin 1985	
Crustacea: Thoracica	Chthamalidae	<i>Chthamalus</i>	<i>dalli</i>		EVOS	I/Epi	II	III	IV	x			Austin 1985	
Crustacea: Thoracica	Scalpellidae	<i>Scaphellum</i>	<i>pacificum</i>		Feder and Matheke 1980	ST/Epi	II	III	IV	x			Austin 1985	
Pycnogonida	Ammotheidae	<i>Achelia</i>	<i>alaskensis</i>		Child 1995	ST/Epi	II	III	IV	x			Child 1995	
Pycnogonida	Ammotheidae	<i>Achelia</i>	<i>borealis</i>		UAM	ST/Epi	II	III	IV	x	x		Child 1995	
Pycnogonida	Ammotheidae	<i>Achelia</i>	<i>chaelata</i>		UAM	ST/Epi	II	III	IV			Washington	NR	Austin 1985
Pycnogonida	Ammotheidae	<i>Achelia</i>	<i>gracilipes</i>	<i>Ammothea</i>	UAM	ST/Epi	II	III	IV			British Columbia	NR	Austin 1985
Pycnogonida	Ammotheidae	<i>Achelia</i>	<i>latifrons</i>		Child 1995	ST/Epi	II	III	IV	x			Child 1995	
Pycnogonida	Ammotheidae	<i>Achelia</i>	<i>megova</i>		Child 1995	ST/Epi	II	III	IV				Child 1995	
Pycnogonida	Ammotheidae	<i>Achelia</i>	<i>pribilofensis</i>	<i>Ammothea</i>	UAM	ST/Epi	II	III	IV			Bering Sea	nr	Child 1995
Pycnogonida	Phoxochilidiidae	<i>Phoxichilidium</i>	<i>femoratum</i>		UAM	ST/Epi	II			x	x		Austin 1985	
Pycnogonida	Phoxochilidiidae	<i>Phoxichilidium</i>	<i>quadrodentatum</i>		UAM	ST/Epi	II	III	IV				Austin 1985	
Pycnogonida	Tanystyliidae	<i>Tanystylum</i>	<i>anthostomasti</i>		UAM	ST/Epi	II	III	IV	x			Austin 1985	

Echinodermata

Ninety-nine echinoderm species, representing all five classes are listed (Table 10.6). Principal sources for taxonomic and distributional information are D'yakonov (1954) (ophiuroids), Lambert (1981, 1997) (Asteroidea and Holothuroidea). No range extensions or possibly undescribed species were noted for Prince William Sound.

Table 10.6. Echinodermata.

CLASS	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA	
Asteroidea	Asteriidae	<i>Evasterias</i>	<i>troschellii</i>		Feder and Bryson-Schwafel 1988	I/ST/Epi	II III IV				Lambert 1981
Asteroidea	Asteriidae	<i>Leptasterias</i>	<i>hexactis</i>		UAM	I/ST/Epi	II III IV				Lambert 1981
Asteroidea	Asteriidae	<i>Orthasterias</i>	<i>koehleri</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Asteriidae	<i>Pisaster</i>	<i>ochraceus</i>		UAM	I/ST/Epi	II III IV				Lambert 1981
Asteroidea	Asteriidae	<i>Pycnopodia</i>	<i>helianthoides</i>		Feder and Bryson-Schwafel 1988	I/ST/Epi	II III IV				Lambert 1981
Asteroidea	Asteriidae	<i>Rathbunaster</i>	<i>californianus</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Asteropseidae	<i>Dermasterias</i>	<i>imbricata</i>	Poraniidae	UAM	I/ST/Epi	II III IV				Lambert 1981
Asteroidea	Astropectinidae	<i>Dipsacaster</i>	<i>borealis</i>		UAM	ST	II III IV				Austin 1985
Asteroidea	Astropectinidae	<i>Leptychaster</i>	<i>anomalous</i>		Feder and Matheke 1980	ST	II III IV				Lambert 1981
Asteroidea	Astropectinidae	<i>Leptychaster</i>	<i>arcticus</i>		UAM	ST	II III IV	x	x	x	Lambert 1981
Asteroidea	Astropectinidae	<i>Leptychaster</i>	<i>pacificus</i>		Lambert 1981	ST	II III IV				Lambert 1981
Asteroidea	Benthopectinidae	<i>Luidiaster</i>	<i>dawsoni</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Benthopectinidae	<i>Nearchaster</i>	<i>aciculosus</i>		UAM	ST	II III IV				Austin 1985
Asteroidea	Echinasteridae	<i>Henricia</i>	<i>aspera</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Echinasteridae	<i>Henricia</i>	<i>asthenactis</i>		Lambert 1981	ST	II III IV				Lambert 1981
Asteroidea	Echinasteridae	<i>Henricia</i>	<i>leviuscula</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Echinasteridae	<i>Henricia</i>	<i>longispina</i>		Lambert 1981	ST	II III IV	x			Lambert 1981
Asteroidea	Echinasteridae	<i>Henricia</i>	<i>sanguinolenta</i>		UAM	ST	II III	x	x		Lambert 1981
Asteroidea	Echinasteridae	<i>Poraniopsis</i>	<i>inflata</i>		UAM	ST	II III IV	x			Lambert 1981
Asteroidea	Goniasteridae	<i>Ceramaster</i>	<i>arcticus</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Goniasteridae	<i>Ceramaster</i>	<i>patagonicus</i>		Lambert 1981	ST	II III IV V VI VII VIII IX				Lambert 1981
Asteroidea	Goniasteridae	<i>Gephyreaster</i>	<i>swifiti</i>	Radiasterriidae	Feder and Jewett 1987	ST	II III IV				Lambert 1981
Asteroidea	Goniasteridae	<i>Hippasteria</i>	<i>spinosa</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Goniasteridae	<i>Mediaster</i>	<i>aequalis</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Goniasteridae	<i>Pseudarchaster</i>	<i>parellii</i>		UAM	ST	II	x		x	Lambert 1981
Asteroidea	Gonioplectinidae	<i>Ctenodiscus</i>	<i>crispatus</i>	Ctenodiscidae	UAM	ST	II III III IV V VI VII IX	x	x	x	Lambert 1981
Asteroidea	Luidiidae	<i>Luidia</i>	<i>foliolata</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Pedicellasteridae	<i>Pedicellaster</i>	<i>magister</i>	Heliasteridae	UAM	ST	II III IV	x			Austin 1985
Asteroidea	Pterasteridae	<i>Diplopteraster</i>	<i>multipes</i>		UAM	ST	II III IV V	x	x	x	Lambert 1981
Asteroidea	Pterasteridae	<i>Pteraster</i>	<i>militaris</i>		UAM	ST	II III IV	x			Lambert 1981
Asteroidea	Pterasteridae	<i>Pteraster</i>	<i>tesselatus</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Solasteridae	<i>Crossaster</i>	<i>papposus</i>		UAM	ST	II III IV	x	x	x	Lambert 1981
Asteroidea	Solasteridae	<i>Lophaster</i>	<i>furcilliger</i>		UAM	ST	II III IV				Lambert 1981
Asteroidea	Solasteridae	<i>Solaster</i>	<i>dawsoni</i>		UAM	ST	II III IV	x			Lambert 1981
Asteroidea	Solasteridae	<i>Solaster</i>	<i>endeca</i>		UAM	ST	II III IV V		x	x	Lambert 1981
Asteroidea	Solasteridae	<i>Solaster</i>	<i>paxillatus</i>		UAM	ST	II III IV	x			Lambert 1981
Asteroidea	Solasteridae	<i>Solaster</i>	<i>stimpsoni</i>		Lambert 1981	ST	II III IV	x			Lambert 1981
Crinoidea	Antedonidae	<i>Florometra</i>	<i>serraticissima</i>		Austin 1985	ST	II III IV V				Austin 1985
Crinoidea	Antedonidae	<i>Florometra</i>	<i>asperrima</i>	Helimetra gracilis	UAM	ST	II III IV V	x			Austin 1985
Crinoidea	Antedonidae	<i>Psathyrometra</i>	<i>fragilis</i>		Austin 1985	ST	II III IV V	x			Austin 1985
Crinoidea	Antedonidae	<i>Retiometra</i>	<i>alascana</i>		Austin 1985	ST	II III IV				Austin 1985
Echinoidea	Echinarachnidae	<i>Echinarachnius</i>	<i>pama</i>		Foster and Hines 2000	ST	II III IV	x			Pavloskii 1955
Echinoidea	Schizasteridae	<i>Brisaster</i>	<i>townsendi</i>		Feder and Matheke 1980	ST	II III IV	x			Pavloskii 1955
Echinoidea	Strongylocentrotidae	<i>Alloccentrotus</i>	<i>fragilis</i>		Feder and Jewett 1987	ST	II III IV				Austin 1985
Echinoidea	Strongylocentrotidae	<i>Strongylocentrotus</i>	<i>droebachiensis</i>		Feder and Bryson-Schwafel 1988	I/ST/Epi	II	x		x	Austin 1985
Echinoidea	Strongylocentrotidae	<i>Strongylocentrotus</i>	<i>franciscanus</i>		Rosenthal 1977	ST/Epi	II III IV V				Austin 1985
Holothuroidea	Cucumariidae	<i>Cucumaria</i>	<i>frondosa japonica</i>		Lambert 1997	ST	II III IV				Lambert 1997
Holothuroidea	Cucumariidae	<i>Cucumaria</i>	<i>miniata</i>		Lambert 1997	ST	II III IV				Lambert 1997
Holothuroidea	Cucumariidae	<i>Cucumaria</i>	<i>vegae</i>		Lambert 1997	ST	II III IV	x			Lambert 1997
Holothuroidea	Cucumariidae	<i>Ekmania</i>	<i>diomedeaee</i>		Lambert 1997	ST	II III IV	x			Lambert 1997
Holothuroidea	Cucumariidae	<i>Pentamera</i>	<i>calcigera</i>		UAM	ST	II	x		x	Austin 1985
Holothuroidea	Cucumariidae	<i>Thyonidium</i>	<i>kurilensis</i>		Lambert 1997	ST	II III IV	x			Lambert 1997
Holothuroidea	Molpadiidae	<i>Molpadia</i>	<i>intermedia</i>		UAM	ST	II III IV				Lambert 1997
Holothuroidea	Phylloporidae	<i>Pentamera</i>	<i>populifera</i>		Lambert 1997	ST	II III IV				Lambert 1997
Holothuroidea	Phylloporidae	<i>Thyone</i>	<i>ct. T. benti</i>		UAM	ST	II III IV				Lambert 1997
Holothuroidea	Psolidae	<i>Psolus</i>	<i>chitonoides</i>		Lambert 1997	ST	II III IV				Lambert 1997
Holothuroidea	Psolidae	<i>Psolus</i>	<i>squamatus</i>		Lambert 1997	ST	II	x		x	Lambert 1997
Holothuroidea	Sclerodactylidae	<i>Eupentacta</i>	<i>pseudoquinquesemita</i>		Lambert 1997	ST	II III IV				Lambert 1997
Holothuroidea	Stichopodidae	<i>Parastichopus</i>	<i>californicus</i>		Lambert 1997	ST	II III IV				Lambert 1997
Holothuroidea	Synallactidae	<i>Pseudostichopus</i>	<i>mollis</i>		Lambert 1997	ST	x	x	x	x	Lambert 1997
Holothuroidea	Synallactidae	<i>Synallactes</i>	<i>challengeri</i>		Lambert 1997	ST	x	x	x	x	Lambert 1997
Holothuroidea	Synaptidae	<i>Leptosynapta</i>	<i>clarki</i>		UAM	ST	II III IV	x			Austin 1985
Ophiuroidea	Amphiuridae	<i>Amphipolis</i>	<i>squamata</i>		Feder and Jewett 1987	ST	x	x	x	x	Austin 1985
Ophiuroidea	Amphiuridae	<i>Diamphiodia</i>	<i>craterodmeta</i>	Amphiodia	Feder and Matheke 1980	ST	II III IV	x			D'Yakonov 1954
Ophiuroidea	Amphiuridae	<i>Unioplis</i>	<i>macraspis</i>	Amphioplus	Feder and Matheke 1980	ST	II III IV	x			Austin 1985
Ophiuroidea	Ophiactidae	<i>Ophiopholis</i>	<i>aculeatata</i>	<i>O. caryi</i>	Rosenthal 1977	ST	II III IV			x	Austin 1985
Ophiuroidea	Ophiuridae	<i>Ophiura</i>	<i>sarsi</i>		Feder and Matheke 1980	ST	II	x	x	x	Austin 1985
Ophiuroidea	Ophiuridae	<i>Ophiura</i>	<i>quadrispina</i>		Feder and Matheke 1980	ST	II III IV				D'Yakonov 1954

Bryozoa

Bryozoa are abundant in Alaskan waters and prevalent in the fouling community. The data set consists of 74 species (Table 10.7), which is probably an underestimate. Nineteen identifications are confident only to the generic level. Sources for distribution data include Dick and Ross (1988), Hines and Ruiz (2000), Kluge (1962), as well as cataloged specimens in the UAM collection. J. Winston (2000) contributed the identifications and distributional information for 22 species. *Schizoporella unicornis* is regarded as a nonindigenous species, native to the northwestern Pacific. Ten species are possible new records for Alaska, range extensions from either the Arctic or Pacific region.

Table 10.7. Bryozoa.

ORDER	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Cheilostomata:	Beaniidae	<i>Beania</i>	<i>mirabilis</i>		UAM	ST	II III IV V VI VII VIII IX	x		x	British Columbia	nr?	Austin 1985
Cheilostomata:	Bugulidae	<i>Bugula</i>	<i>californica</i>		Hines and Ruiz 2000	I	II III IV						Austin 1985
Cheilostomata:	Bugulidae	<i>Bugula</i>	<i>pacifica</i>		Hines and Ruiz 2000	I	II III IV						Austin 1985
Cheilostomata:	Bugulidae	<i>Bugula</i>	unidentified		Hines and Ruiz 2000	I							
Cheilostomata:	Bugulidae	<i>Dendrobeania</i>	<i>curvirostrata</i>		Hines and Ruiz 2000	I	II III IV V VI				British Columbia	NR?	Austin 1985
Cheilostomata:	Bugulidae	<i>Dendrobeania</i>	<i>lichenoides</i>		UAM	I	II III IV						Dick and Ross 1988
Cheilostomata:	Bugulidae	<i>Dendrobeania</i>	<i>murrayana</i>		UAM	ST	II	x	x	x			Kluge 1962
Cheilostomata:	Calloporidae	<i>Calloporella</i>	<i>craticula</i>	<i>Callopora</i>	Hines and Ruiz 2000	I/ST	II	x	x	x			Kluge 1962
Cheilostomata:	Calloporidae	<i>Calloporella</i>	<i>lineata</i>	<i>Callopora</i>	UAM	I/ST	II	x	x	x		C	Kluge 1962
Cheilostomata:	Calloporidae	<i>Calloporella</i>	<i>"lineata"</i>		Hines and Ruiz 2000	I/ST	II	x		x			Austin 1985
Cheilostomata:	Calloporidae	<i>Tegella</i>	<i>aquirostris</i>		Hines and Ruiz 2000	I/ST	II III IV	x					Austin 1985
Cheilostomata:	Calloporidae	<i>Tegella</i>	<i>armifera</i>		Hines and Ruiz 2000	I/ST	II III IV	x					Austin 1985
Cheilostomata:	Calloporidae	<i>Tegella</i>	<i>robertsonae</i>		UAM	ST	II III IV V VI	x					Osburn 1950
Cheilostomata:	Cryptosulidae	<i>Cryptosula</i>	<i>okadai</i>		Hines and Ruiz 2000	I	II III IV	x					Dick and Ross 1988
Cheilostomata:	Cryptosulidae	<i>Harmeria</i>	<i>scutulata</i>	Hippothoidae	UAM	I/ST	II	x	x	x	Arctic	nr?	Dick and Ross 1988
Cheilostomata:	Electridae	<i>Cauloramphus</i>	<i>pseudospinifer</i>		Hines and Ruiz 2000	I	II III IV	x					Dick and Ross 1988
Cheilostomata:	Electridae	<i>Electra</i>	unidentified		UAM	I							
Cheilostomata:	Flustridae	<i>Terminoflustra</i>	<i>membranaceotruncata</i>		UAM	I/ST	II	x	x	x			Dick and Ross 1988
Cheilostomata:	Hincksiniidae	<i>Cauloramphus</i>	<i>"variegata"</i>	<i>C. spiniferum</i>	UAM	I/ST	II III IV V	x		x			Austin 1985
Cheilostomata:	Membraniporidae	<i>Conopeum</i>	sp. (<i>chesapeakeensis</i> ?)		Hines and Ruiz 2000	I/ST	II III IV V	x	x	x			Austin 1985
Cheilostomata:	Membraniporidae	<i>Membranipora</i>	<i>membranipora</i>		Hines and Ruiz 2000	I/ST	II III	x	x	x			Kluge 1962
Cheilostomata:	Membraniporidae	<i>Membranipora</i>	<i>serrilamella</i>		UAM	I/ST	x	x	x	x	N Pacific	nr?	Austin 1985
Cheilostomata:	Microporidae	<i>Micropora</i>	unidentified		UAM	I/ST							
Cheilostomata:	Microporinidae	<i>Microporina</i>	<i>articulata</i>		UAM	I	II	x	x	x			Dick and Ross 1988
Cheilostomata:	Scrupariidae	<i>Brettia</i>	unidentified	Bicellaridae/C	UAM	I/ST							
Cheilostomata:	Scrupocellariidae	<i>Scrupocellaria</i>	unidentified	<i>orynoprella</i>	UAM	I/ST							
Cheilostomata:	Scrupocellariidae	<i>Tricellaria</i>	<i>gracilis</i>		UAM	I/ST	II	x	x	x			Kluge 1962
Cheilostomata:	Scrupocellariidae	<i>Tricellaria</i>	<i>occidentalis</i>		UAM	ST	II III IV V VI				British Columbia	nr?	Austin 1985
Cheilostomata:	Scrupocellariidae	<i>Tricellaria</i>	<i>ternata</i>		UAM	I	II	x	x	x			Dick and Ross 1988
Cheilostomata:	Cribriinidae	<i>Cribriolina</i>	<i>annulata</i>		UAM	I/ST	II	x	x	x			Kluge 1962
Cheilostomata:	Cribriinidae	<i>Cribriolina</i>	<i>orbicula</i>		Hines and Ruiz 2000	I	II III IV					C	Austin 1985
Cheilostomata:	Cribriinidae	<i>Cribriolina</i>	unidentified		Hines and Ruiz 2000	I/ST							
Cheilostomata:	Hippoporinidae	<i>Lepralia</i>	unidentified	Hippothoa	UAM	I/ST							
Cheilostomata:	Hippothoidae	<i>Cellepora</i>	<i>craticula</i>	<i>Costazia</i>	Hines and Ruiz 2000	I/ST	x					C	Kluge 1962

Table 10.7 continued.

ORDER	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION		
							NEP	NWP	AR	NWA					
Cheilostomata:	Ascopora	Hippothoidae	<i>Celleeporella</i>	<i>hyalina</i>	<i>Hippothoa</i>	UAM	I/ST	x	x	x	x		C	Dick and Ross 1988	
Cheilostomata:	Ascopora	Hippothoidae	<i>Hippothoa</i>	unidentified		UAM	I								
Cheilostomata:	Ascopora	Microporellidae	<i>Fenestruroides</i>	<i>eopacifica?</i>		Hines and Ruiz 2000	I	II III IV V VI				California	NR?	Soule et al. 1996	
Cheilostomata:	Ascopora	Microporellidae	<i>Microporella</i>	<i>germana</i>		Hines and Ruiz 2000	I	II III IV						Dick and Ross 1988	
Cheilostomata:	Ascopora	Mucronellidae	<i>Cystisella</i>	<i>bicornia</i>		Osburn 1952	ST	II III IV			x			Osburn 1952	
Cheilostomata:	Ascopora	Mucronellidae	<i>Cystisella</i>	<i>saccata</i>		Osburn 1952	ST	II III			x	Arctic	nr?	Osburn 1952	
Cheilostomata:	Ascopora	Mucronellidae	<i>Parasmittina</i>	<i>trispinosa</i>		Smittinidae Hines and Ruiz 2000	I	x	x	x	x		C	Dick and Ross 1988	
Cheilostomata:	Ascopora	Mucronellidae	<i>Porella</i>	<i>acutirostris</i>		Smittinidae UAM	I/ST	II III IV V VI	x	x	x			Dick and Ross 1988	
Cheilostomata:	Ascopora	Mucronellidae	<i>Porella</i>	<i>acutirostris</i>		<i>P. major</i> Smittinidae Hines and Ruiz 2000	ST	II III IV V VI	x	x	x			Osburn 1952	
Cheilostomata:	Ascopora	Mucronellidae	<i>Rhamphostomella</i>	<i>bilaminata</i>		Rhamphostomellidae UAM	I/ST			x	x			Kluge 1962	
Cheilostomata:	Ascopora	Mucronellidae	<i>Rhamphostomella</i>	<i>gigantea</i>		Rhamphostomellidae Hines and Ruiz 2000	ST			x	x	Arctic	nr?	Osburn 1952	
Cheilostomata:	Ascopora	Mucronellidae	<i>Rhamphostomella</i>	<i>hincksi</i>		Rhamphostomellidae Hines and Ruiz 2000	ST	II	x	x				Kluge 1962	
Cheilostomata:	Ascopora	Mucronellidae	<i>Smittina</i>	unidentified		Smittinidae UAM	I/ST								
Cheilostomata:	Ascopora	Reteporidae	<i>Phidolopora</i>	<i>pacifica</i>		<i>P. labiata</i> Hines and Ruiz 2000	I	II III IV						Austin 1985	
Cheilostomata:	Ascopora	Schizoporellidae	<i>Hippodiplosia</i>	unidentified		UAM	I/ST	II		x	x	x		Kluge 1962	
Cheilostomata:	Ascopora	Schizoporellidae	<i>Hippoporina</i>	<i>vulgaris</i>		Hines and Ruiz 2000	I/ST	II							
Cheilostomata:	Ascopora	Schizoporellidae	<i>Schizomavella</i>	<i>porifera</i>		Hines and Ruiz 2000	I/ST	II		x	x	x	Arctic	nr?	Osburn 1952
Cheilostomata:	Ascopora	Schizoporellidae	<i>Schizoporella</i>	<i>"unicornis"</i>		Hines and Ruiz 2000	I	x	x	x	x	NW Pacific	Definate	Hines and Ruiz 2000	
Cheilostomata:	Ascopora	Umbonulidae	<i>Umbonula</i>	unidentified		UAM	I/ST								
Ctenostomata:	Alcyonidiidae	<i>Alcyonidium</i>	<i>hirutum</i>			Hines and Ruiz 2000	I/ST	II		x	x	x	NE Atlantic	NR	Kluge 1962
Ctenostomata:	Alcyonidiidae	<i>Alcyonidium</i>	<i>polynoum</i>			Hines and Ruiz 2000	I/ST	II III IV V	x	x	x		C	Austin 1985	
Ctenostomata:	Alcyonidiidae	<i>Alcyonidium</i>	unidentified			Hines and Ruiz 2000	I/ST	II III IV V VI							
Cyclostomata:	Crisiidae	<i>Crisia</i>	<i>occidentalis</i>			UAM	I/ST	VII VIII IX	x		x	Washington	NR	Austin 1985	
Cyclostomata:	Crisiidae	<i>Crisia</i>	<i>serrulata</i>			Hines and Ruiz 2000	I	II III IV						Austin 1985	
Cyclostomata:	Crisiidae	<i>Filicrisia</i>	<i>fanciscana</i>			Hines and Ruiz 2000	I	II III IV	x					Austin 1985	
Cyclostomata:	Crisiidae	<i>Filicrisia</i>	<i>geniculata</i>			UAM	I/ST	II		x		x		Kluge 1962	
Cyclostomata:	Crisiidae	<i>Filicrisia</i>	<i>smitti</i>			Hines and Ruiz 2000	ST	II III	x	x	x			Kluge 1962	
Cyclostomata:	Diaperoeciidae	<i>Diaperoecia</i>	unidentified			UAM	ST								
Cyclostomata:	Diastoporidae	<i>Diastopora</i>	unidentified			UAM	I/ST								
Cyclostomata:	Heteroporidae	<i>Heteropora</i>	<i>magna</i>			UAM	ST	II III IV				British Columbia	nr?	Austin 1985	
Cyclostomata:	Heteroporidae	<i>Heteropora</i>	<i>pacifica</i>			UAM	ST	II III IV						Austin 1985	
Cyclostomata:	Heteroporidae	<i>Heteropora</i>	unidentified			UAM	I/ST								
Cyclostomata:	Lichenoporidae	<i>Lichenopora</i>	unidentified			UAM	I/ST								
Cyclostomata:	Oncosoeциidae	<i>Oncosuecia</i>	unidentified			UAM	I/ST								
Cyclostomata:	Oncosoeциidae	<i>Stomatopora</i>	<i>granulata</i>			UAM	I/ST	II III IV		x				Kluge 1962	
Cyclostomata:	Tubuliporidae	<i>Idmonea</i>	unidentified			Idmoneidae UAM	I/ST								
Cyclostomata:	Tubuliporidae	<i>Platonea</i>	unidentified			UAM	I/ST								
Cyclostomata:	Tubuliporidae	<i>Tubulipora</i>	<i>flabellaris</i>			UAM	I/ST	II III IV		x				Kluge 1962	
Cyclostomata:	Tubuliporidae	<i>Tubulipora</i>	sp. (<i>tuba?</i>)			Hines and Ruiz 2000	I/ST	II III IV							
Cyclostomata:	Tubuliporidae	<i>Tubulipora</i>	<i>tuba</i>			<i>T. occidentalis,</i> <i>T. fasciculifera</i> Hines and Ruiz 2000	I/ST	II III IV V				British Columbia	NR?	Austin 1985	

Miscellaneous Invertebrates

Ninety-five taxa, representing twelve different phyla make up this data set (Table 10.8). Nemerteans, chaetognaths, brachiopods, and urochordates, and are fairly well-known or have received the attention of the project's taxonomists. (Lambert 2000; Mills 2000). However, it is clear that sponges, flatworms, and nematodes are undercounted. The nonindigenous sponge, *Cliona thosina* was recorded by the fouling community survey (Hines and Ruiz 200).

Phylum	taxa reported in this study
Porifera	4
Platyhelminthes	none identified to species
Nemertea	54
Sipunculida	3
Priapulida	1
Echiuridae	1

Phoronidae none identified to species
 Brachiopoda 3
 Chaetognatha 5
 Tardigrada 1
 Urochordata 28
 Gnathostomulida, Gastrotrichida, Kinorhyncha have not been documented.

Table 10.8. Miscellaneous invertebrates.

PHYLUM/ CLASS	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	Bioregion				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Brachiopoda:	Articulata	Cancellothyrididae	<i>Terebratulina unguicula</i>		UAM	I/ST/Epi	II III IV						Austin 1985
Brachiopoda:	Articulata	Hemithyridae	<i>Hemithiris psittacea</i>		UAM	ST	II III IV	x	x				Austin 1985
Brachiopoda:	Articulata	Laqueidae	<i>Terebratalia transversa</i>		UAM	ST	II III IV				SE Alaska	nr	Austin 1985
Brachiopoda:	Articulata	Laqueidae	<i>Laqueus californianus</i>		UAM	ST	II III IV	x					Austin 1985
Chaetagnatha	Eukrohniidae	<i>Eukrohnia fowleri</i>			Cooney 1987	P	II III IV	x	x	x			Austin 1985
Chaetagnatha	Eukrohniidae	<i>Eukrohnia bathypelagica</i>			Cooney 1987	P	II III IV			x			Austin 1985
Chaetagnatha	Eukrohniidae	<i>Eukrohnia hamata</i>			Cooney and Coyle 1988	P	x	x	x	x			Smith and Johnson 1996
Chaetagnatha	Sagittidae	<i>Sagitta elegans</i>			Cooney and Coyle 1988	P	II III IV						Smith and Johnson 1996
Chaetagnatha	Sagittidae	<i>Sagitta scrippsae echiuris</i>			Cooney 1987	P	II III IV V VI VII VIII	x					Austin 1985
Echiurida	Echiuridae	<i>Echiuris alaskensis</i>			Feder and Bryson-Schwafel 1988	I	II III IV	x					Austin 1985
Nematoda	Nemertea	Amphiporidae	unidentified	unidentified	Feder and Matheke 1980	Inf							
Nemertea	Amphiporidae	<i>Amphiporus angulatus</i>			Coe 1910	I	II III IV V VI			x			Coe 1904
Nemertea	Amphiporidae	<i>Amphiporus bimaculatus</i>			Coe 1910	I	II III IV V VI VII VIII						Coe 1904
Nemertea	Amphiporidae	<i>Amphiporus exilis</i>		<i>A. formidabilis</i>	Coe 1910	I	II III IV V VI						Coe 1904
Nemertea	Amphiporidae	<i>Amphiporus gelatinosus</i>			Austin 1985	I	II III			x			Austin 1985
Nemertea	Amphiporidae	<i>Amphiporus imparispinosus</i>			Austin 1985	I	II III IV V VI VII VIII						Austin 1985
Nemertea	Amphiporidae	<i>Amphiporus lactiflorus</i>				I							
Nemertea	Amphiporidae	<i>Amphiporus leuciodus</i>			Coe 1910	I	III						Coe 1904
Nemertea	Amphiporidae	<i>Amphiporus nebulosus</i>			Coe 1910	I	III						Coe 1904
Nemertea	Amphiporidae	<i>Amphiporus tigrinus</i>			Coe 1910	I	III IV						Coe 1904
Nemertea	Amphiporidae	<i>Zygonemertes albida</i>			Coe 1910	I	III IV V VI						Coe 1904
Nemertea	Amphiporidae	<i>Zygonemertes thalassina</i>			Coe 1910	I	II III						Coe 1904
Nemertea	Amphiporidae	<i>Zygonemertes virescens</i>			Austin 1985	I	II III IV V VI VII VIII IX			x			Austin 1985
Nemertea	Carinonidae	<i>Carinoma griffini</i>		<i>C. mutabilis</i>	Coe 1910	I	VII VIII						Coe 1904
Nemertea	Carinonidae	<i>Carinoma lactea</i>		Tubulanidae	Austin 1985	I	II III IV V VI						Austin 1985
Nemertea	Cephalothricidae	<i>Cephalothrix linearis</i>		<i>Procephalothrix spiralis</i>	Coe 1910	I	II III IV V VI						Coe 1904
Nemertea	Cerebratulidae	<i>Cerebratulus albifrons</i>			Coe 1910	I	III IV V VI						Coe 1904
Nemertea	Cerebratulidae	<i>Cerebratulus herculeus</i>			Coe 1910	I	III IV V VI						Coe 1904
Nemertea	Cerebratulidae	<i>Cerebratulus longiceps</i>			Coe 1910	I	II III IV V						Coe 1904
Nemertea	Cerebratulidae	<i>Cerebratulus marginatus</i>			Coe 1910	I	III						Coe 1904
Nemertea	Cerebratulidae	<i>Cerebratulus montgomeryi</i>			Coe 1910	I	II III IV V						Coe 1904
Nemertea	Cerebratulidae	<i>Cerebratulus occidentalis</i>			Coe 1910	I	II III						Coe 1904
Nemertea	Cerebratulidae	<i>Cerebratulus</i>	unidentified		Feder and Matheke 1980	ST							
Nemertea	Emplectonematidae	<i>Emplectonema buergeri</i>			Coe 1910	I	III						Coe 1904
Nemertea	Emplectonematidae	<i>Emplectonema gracile</i>			Coe 1910	I	II III IV V						Coe 1904
Nemertea	Emplectonematidae	<i>Paranemertes camea</i>			Coe 1910	I	II III IV						Coe 1904
Nemertea	Emplectonematidae	<i>Paranemertes pallida</i>			Coe 1910	I	II III						Coe 1904
Nemertea	Emplectonematidae	<i>Paranemertes peregrina</i>			Feder and Bryson-Schwafel 1988	I	II III IV	x					Austin 1985
Nemertea	Lineidae	<i>Lineus torquatus</i>			Coe 1910	I	II III IV V VI						Coe 1904
Nemertea	Lineidae	<i>Micrura alaskensis</i>			Coe 1910	I	III IV V VI						Coe 1904
Nemertea	Lineidae	<i>Micrura verrilli</i>			Coe 1910	I	VII VIII						Coe 1904
Nemertea	Lineidae	<i>Myoisophagus sanguineus</i>		<i>Lineus socialis/vegetus</i>	Austin 1985	I	II III IV V VI	x			x		Austin 1985
Nemertea	Tetrastemmatidae	<i>Tetrastemma aberrans</i>			Coe 1910	I	II III						Coe 1904
Nemertea	Tetrastemmatidae	<i>Tetrastemma bicolor</i>			Coe 1910	I	II III						Coe 1904
Nemertea	Tetrastemmatidae	<i>Tetrastemma caecum</i>		<i>Amphinemertes</i>	Coe 1910	I/ST	II III						Coe 1904
Nemertea	Tetrastemmatidae	<i>Tetrastemma candidum</i>			Austin 1985	I	II III IV V VI VII VIII	x			x		Austin 1985
Nemertea	Tetrastemmatidae	<i>Tetrastemma nigrifrons</i>			Austin 1985	I	VII VIII IX						Austin 1985
Nemertea	Tubulanidae	<i>Carinella albocinctus</i>		<i>Tubulanus</i>	Austin 1985	ST	II III IV V VI						Austin 1985
Nemertea	Tubulanidae	<i>Carinella annulatus</i>		<i>Tubulanus</i>	Austin 1985	I	II III			x			Austin 1985
Nemertea	Tubulanidae	<i>Carinella capistrata</i>		<i>Tubulanus capistratus?</i>	Coe 1910	I	II						Coe 1904
Nemertea	Tubulanidae	<i>Carinella cingulatus</i>		<i>Tubulanus</i>	Austin 1985	I	II III IV V VI						Austin 1985
Nemertea	Tubulanidae	<i>Carinella dinema</i>		<i>Tubulanus sexlineatus</i>	Coe 1910	I	II III						Coe 1904
Nemertea	Tubulanidae	<i>Carinella frenatus</i>		<i>Tubulanus</i>	Austin 1985	I	II III IV V VI						Austin 1985
Nemertea	Tubulanidae	<i>Carinella nothus</i>		<i>Tubulanus</i>	Austin 1985	I	II III			x			Austin 1985
Nemertea	Tubulanidae	<i>Carinella speciosa</i>		<i>Tubulanus polymorphus</i>	Coe 1910	I	II III						Coe 1904
Nemertea	Valenciiniidae	<i>Taenicosoma princeps</i>		<i>Baseodiscus</i>	Coe 1910	I	II III IV						Coe 1904
Phoronida		unidentified	unidentified		Feder and Matheke 1980	ST							

Table 10.8 continued.

PHYLUM/ CLASS	FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	Bioregion				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
							NEP	NWP	AR	NWA			
Platyhelminthes		unidentified	unidentified		Feder and Bryson-Schwafel 1988	Inf							
Porifera	Myxillidae	<i>Myxilla</i>	<i>incrustans</i>		UAM	ST	II III IV	x					Austin 1985
Porifera	Subertidae	<i>Suberites</i>	<i>ficus</i>		Scheel, Foster, and Hough, 1997	I/ST/Epi boring	II III IV						Austin 1985
Porifera	Spirastrellidae	<i>Clicona</i>	<i>thosina</i>		Hines et al. 2000	Epi	II				unkown	definate	Austin 1985
Porifera	Spirastrellidae	<i>Clicona</i>	<i>celata</i>		Rosenthal 1977	Epi	II III IV V						Austin 1985
Priapulida	Priapulidae	<i>Priapulus</i>	<i>caudatus</i>		Feder and Matheke 1980	ST	II	x	x	x			Austin 1985
Sipunculida	Golfingiidae	<i>Golfingia</i>	<i>margaritacea</i>		Feder and Matheke 1980	I/ST/Inf	II	x		x			Austin 1985
Sipunculida	Golfingiidae	<i>Golfingia</i>	<i>vulgaris</i>		Feder and Matheke 1980	ST	II	x		x			Austin 1985
Sipunculida	Golfingiidae	<i>Phascolon</i>	<i>strombi</i>		Feder and Matheke 1980	ST	x	x	x	x			Austin 1985
Sipunculida	Phascosomatidae	<i>Phascolosoma</i>	<i>agassizii</i>		Fisher 1952	I/ST/Inf	II III IV V VI VIII IX						Austin 1985
Tardigrada	Hypsibiidae	<i>Hypsibius</i>	<i>appeloeffi</i>		Feder and Bryson-Schwafel 1988	ST	x	x	x	x			Schuster and Grigarick 1965
Urochordata: Ascidiacea	Ascidiidae	<i>Ascidia</i>	<i>adhaerens</i>		Lambert 2000	I	II	x		x			Lambert 2000
Urochordata: Ascidiacea	Ascidiidae	<i>Ascidia</i>	<i>columbiana</i>	<i>A. callosa</i>	Lambert 2000	I	II III IV	x					Lambert 2000
Urochordata: Ascidiacea	Ascidiidae	<i>Ascidia</i>	unidentified		Lambert 2000	I/ST/Epi							
Urochordata: Ascidiacea	Clavelinidae	<i>Distaplia</i>	<i>alaskensis</i>		Lambert 2000	ST/Epi						possible	Lambert 2000
Urochordata: Ascidiacea	Clavelinidae	<i>Distaplia</i>	sp. undescribed		Lambert 2000	ST/Epi							
Urochordata: Ascidiacea	Corellidae	<i>Chelysoma</i>	<i>columbiana</i>		Austin 1985	ST/Epi	II III IV						Austin 1985
Urochordata: Ascidiacea	Corellidae	<i>Chelysoma</i>	<i>productum</i>		Lambert 2000	ST/Epi	II III IV V VI						Austin 1985
Urochordata: Ascidiacea	Corellidae	<i>Corella</i>	<i>inflata</i>		Lambert 2000	I	II III IV						Austin 1985
Urochordata: Ascidiacea	Corellidae	<i>Corella</i>	unidentified		Lambert 2000	I							
Urochordata: Ascidiacea	Corellidae	<i>Corella</i>	<i>willmeriana</i>		Lambert 2000	I	II III IV						Austin 1985
Urochordata: Ascidiacea	Molgulidae	<i>Molgula</i>	<i>retortiformis</i>		Lambert 2000	I	II	x		x			Austin 1985
Urochordata: Ascidiacea	Polyclinidae	<i>Ritterella</i>	unidentified		Lambert 2000	I							
Urochordata: Ascidiacea	Pyruridae	<i>Boltenia</i>	<i>echinata</i>		EVOS	ST/Epi	II III IV	x					Austin 1985
Urochordata: Ascidiacea	Pyruridae	<i>Boltenia</i>	<i>ovifera</i>		UAM	ST/Epi	II III IV	x					Pavloskii 1955
Urochordata: Ascidiacea	Pyruridae	<i>Halocynthia</i>	<i>igoboja</i>		UAM	ST/Epi	II III IV	x					Austin 1985
Urochordata: Ascidiacea	Pyruridae	<i>Halocynthia</i>	<i>auranticum</i>	<i>Tethyum</i>	Scheel, Foster, and Hough, 1997	ST/Epi	II III IV	x					Austin 1985
Urochordata: Ascidiacea	Pyruridae	<i>Pyura</i>	<i>haustor</i>		Lambert 2000	ST/Epi	II III IV V VI						Austin 1985
Urochordata: Ascidiacea	Styelidae	<i>Botrylloides</i>	<i>violaceus</i>		Lambert 2000	ST/Epi		x			Japan	definate	
Urochordata: Ascidiacea	Styelidae	<i>Cnemidocarpa</i>	<i>finmarkiensis</i>	<i>Stylea</i>	Rosenthal 1977	ST/Epi	II III IV V	x		x			Austin 1985
Urochordata: Ascidiacea	Styelidae	<i>Metandrocarpa</i>	<i>taylori</i>		Rosenthal 1977	ST/Epi	II III IV V						Austin 1985
Urochordata: Ascidiacea	Styelidae	<i>Styela</i>	<i>truncata</i>		Lambert 2000	I	II III IV						Austin 1985
Urochordata: Ascidiacea	Clavelinidae	<i>Distaplia</i>	<i>occidentalis</i>		Lambert 2000	ST/Epi	III IV V VI				British Columbia	NR	Austin 1985
Urochordata: Larvacea	Fritillariidae	<i>Fritillaria</i>	<i>borealis</i>		Cooney 1987	P	II III IV V VI	x	x	x			Austin 1985
Urochordata: Larvacea	Fritillariidae	<i>Fritillaria</i>	unidentified		Cooney; SEA	P							
Urochordata: Larvacea	Oikopleuridae	<i>Oikopleura</i>	<i>labradorensis</i>		Cooney 1987	P	II III IV V	x	x	x			Wrobel and Mills 1998
Urochordata: Larvacea	Oikopleuridae	<i>Oikopleura</i>	unidentified		Cooney and Coyle 1988	P							
Urochordata: Larvacea	Oikopleuridae	<i>Oikopleura</i>	<i>vanhoeffeni</i>		Cooney 1987	P	II III	x	x	x			Wrobel and Mills 1998
Urochordata: Oikopleuridae	Oikopleuridae	<i>Oikopleura</i>	<i>dioica</i>		Cooney 1987	P	II III IV V VII VIII IX						Wrobel and Mills 1998
Urochordata: Salpida	Salpida	<i>Salpa</i>	<i>fusiformis</i>		Cooney 1987	P	II III IV V VI VII VIII IX	x		x			Wrobel and Mills 1998
Urochordata: Salpida	Salpida	<i>Salpa</i>	<i>maxima</i>		Cooney 1987	P	II III IV V VI VII VIII IX	x		x			Wrobel and Mills 1998

Fishes

The 175 species we list represent 33 families (Table 10.9). The fish data set uses records for fish specimens catalogued in the University of Alaska Museum, as well as published and manuscript sources. (Baxter unpublished manuscript, Hart 1973). Name changes derive from and Humann (1996). Two species, the American shad, *Alosa sapidissima*, and the Atlantic Salmon, *Salmo salar* are nonindigenous.

Mecklenberg, (letter of 10/30/00) recognizes an undescribed cottid, possibly a *Malacocottus*. It has been identified incorrectly as *Thecopterus aleuticus*.

The following habitat descriptors used in the data sets are based on usage in Eschmeyer et al (1983)and Eschmeyer (1990) and Hart (1973).

ANA	anadromous	BW	brackish	D	dermesal
E	eelgrass	Epip	epipelagic	Est	estuaries
FW	freshwater	I	intertidal	KB	kelp bed
NS	nearshore	Off	offshore	Pel	pelagic
PB	pebble bottom	RI	rocky intertidal		
RST	rocky subtidal	SAB	sand bottom		
SB	softbottom	ST	subtidal		
SW	saltwater				

Table 10.9. Fishes.

BIOREGION												
FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	NEP	NWP	AR	NWA	ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
Acipenseridae	<i>Acipenser</i>	<i>medirostris</i>		Hart 1973	BW, SW, NS	IV	x	x				Hart 1973
Acipenseridae	<i>Acipenser</i>	<i>transmontanus</i>		Hart 1973	ANA	IV						Hart 1973
Agonidae	<i>Anoplagonus</i>	<i>inemis</i>		UAM	D	IV	x					Hart 1973
Agonidae	<i>Aspidophoroides</i>	<i>bartoni</i>		UAM	SB, SA	IV	x					Baxter 1987ms
Agonidae	<i>Aspidophoroides</i>	<i>olrikii</i>		UAM	SB, SA	IV		x				Baxter 1987ms
Agonidae	<i>Bathyagonus</i>	<i>infraspinata</i>	<i>Asterotheca</i>	UAM	D, SB	IV						Hart 1973
Agonidae	<i>Bathyagonus</i>	<i>nigripinnis</i>		UAM	D, SB	IV	x	x				Hart 1973
Agonidae	<i>Bathyagonus</i>	<i>pentacanthus</i>	<i>Asterotheca</i>	Hart 1973	D, SB	IV						Hart 1973
			<i>Asterotheca</i>			II III						
Agonidae	<i>Bathyagonus</i>	<i>alascanus</i>	<i>alascana</i>	Hart 1973	RST, D	IV						Hart 1973
Agonidae	<i>Bothragonus</i>	<i>swani</i>		Hart 1973	I, ST	IV						Hart 1973
Agonidae	<i>Hypsagonus</i>	<i>quadricornis</i>		Hart 1973	D, SB	IV	x	x				Hart 1973
Agonidae	<i>Occella</i>	<i>verrucosa</i>		Hart 1973	D, SB	IV						Hart 1973
Agonidae	<i>Odontopyxis</i>	<i>trispinosa</i>		UAM	D, SB	IV				SE Alaska	nr	Hart 1973
Agonidae	<i>Podothecus</i>	<i>acipenserinus</i>	<i>Agonus</i>	Hart 1973	D	IV	x					Hart 1973
Ammodytidae	<i>Ammodytes</i>	<i>hexapterus</i>		UAM	I, ST, NS, P	IV	x	x				Hart 1973
Anarhichadidae	<i>Anarhichthys</i>	<i>ocellatus</i>		Hart 1973	RST, D	IV	x					Hart 1973
Anoplopomatidae	<i>Anoplopoma</i>	<i>fimbria</i>		Feder et al. 1979	ST, D	IV	x	x				Hart 1973
					1, ST, SAB, KB,	II III						
Aulorhynchidae	<i>Aulorhynchus</i>	<i>flavidus</i>		UAM	E	IV						Hart 1973
Bathylagidae	<i>Leuroglossus</i>	<i>callorhinus</i>	<i>L. schmidti</i>	UAM	P	IV	x					Hart 1973
Bathymasteridae	<i>Bathylagus</i>	<i>milleri</i>		Hart 1973	P	IV	x					Hart 1973
Bathymasteridae	<i>Bathylagus</i>	<i>ochotensis</i>		Hart 1973	P	IV	x	x				Hart 1973
						II III						Eschmeyer et al. 1983
Bathymasteridae	<i>Bathymaster</i>	<i>caeruleofasciatus</i>		Rogers et al. 1986	RST	IV						Eschmeyer et al. 1983
						II III						Eschmeyer et al. 1983
Bathymasteridae	<i>Bathymaster</i>	<i>leurolepis</i>		Rogers et al. 1986	I/ST	IV	x					Hart 1973
Bathymasteridae	<i>Bathymaster</i>	<i>signatus</i>		UAM	D, SB	IV	x	x				Hart 1973
Bathymasteridae	<i>Ronquilus</i>	<i>jordani</i>		Hart 1973	RST, D	IV						Hart 1973
Bothidae	<i>Citharichthys</i>	<i>sordidus</i>		Hart 1973	D, SAB	IV						Hart 1973
Carcharhinidae	<i>Prionace</i>	<i>glauca</i>		UAM	Epip	x	x	x	x			Hart 1973
Clupeidae	<i>Alosa</i>	<i>sapidissima</i>		UAM	ANA	III IV			x	Atlantic	definate	Hart 1973
Clupeidae	<i>Clupea</i>	<i>pallasii</i>		UAM	P, Est	II	x	x				Hart 1973
Cottidae	<i>Arteidius</i>	<i>fenestralis</i>		Hart 1973	I, ST	IV						Hart 1973
Cottidae	<i>Arteidius</i>	<i>harringtoni</i>		Hart 1973	I, RST	IV						Hart 1973
Cottidae	<i>Arteidius</i>	<i>lateralis</i>		UAM	I, ST	IV						Hart 1973
Cottidae	<i>Blepsias</i>	<i>bilobus</i>		UAM	I, ST	IV	x	x				Hart 1973
Cottidae	<i>Blepsias</i>	<i>cirrhosus</i>		Hart 1973	I, ST	IV	x					Hart 1973
					RI, ST, SAB, E,	II III						
Cottidae	<i>Clinocottus</i>	<i>acuticeps</i>		UAM	KB	IV						Hart 1973
Cottidae	<i>Clinocottus</i>	<i>embryum</i>		UAM	RI	IV						Hart 1973
Cottidae	<i>Clinocottus</i>	<i>globiceps</i>		Hart 1973	RI	IV						Hart 1973
Cottidae	<i>Dasycottus</i>	<i>setiger</i>		UAM	SB	IV	x					Hart 1973
Cottidae	<i>Enophrys</i>	<i>bison</i>		Hart 1973	RST, SB	IV						Hart 1973
Cottidae	<i>Gymnocanthus</i>	<i>galeatus</i>		UAM	SB, NS	IV						Hart 1973
Cottidae	<i>Hemilepidotus</i>	<i>hemilepidotus</i>		UAM	I, RST, NS	IV	x					Hart 1973
Cottidae	<i>Hemilepidotus</i>	<i>jordani</i>		UAM	ST	IV	x					Hart 1973
Cottidae	<i>Hemilepidotus</i>	<i>spinosus</i>		Hart 1973	I, ST	IV				SE Alaska	nr	Hart 1973
Cottidae	<i>Icelinus</i>	<i>borealis</i>		UAM	SB	IV						Hart 1973
Cottidae	<i>Icelus</i>	<i>spiniger</i>		Hart 1973	SB	IV	x	x				Hart 1973
Cottidae	<i>Leptocottus</i>	<i>armatus</i>		UAM	I, ST	IV						Hart 1973
Cottidae	<i>Malacocottus</i>	<i>kincaidi</i>		UAM	SB	IV	x					Hart 1973
Cottidae	<i>Malacocottus</i>	<i>zonurus</i>		UAM	SB	IV	x					Hart 1973
Cottidae	<i>Myoxocephalus</i>	<i>polycanthocephalus</i>		Hart 1973	I, NS, SB, SAB	IV	x					Hart 1973
						II III						
Cottidae	<i>Myoxocephalus</i>	<i>scorpius?</i>	<i>M. groenlandicus?</i>	Rogers et al. 1986	ST	IV	x	x				Baxter 1987ms

Table 10.9 continued.

											BIOREGION					
FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	NEP	NWP	AR	NWA	ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION				
Cottidae	<i>Myoxocephalus</i>	<i>verrucosus?</i>		UAM	ST	IV	x					Baxter 1987ms				
Cottidae	<i>Nautichthys</i>	<i>oculofasciatus</i>		Hart 1973	RST	IV	x	x				Hart 1973				
Cottidae	<i>Oligocottus</i>	<i>maculosus</i>		Hart 1973	I, RST	IV	x	x				Hart 1973				
Cottidae	<i>Oligocottus</i>	<i>rimensis</i>		UAM	I, RST	IV						Hart 1973				
Cottidae	<i>Psychrolutes</i>	<i>paradoxus</i>		Hart 1973	NS, RST, SB	IV	x	x				Hart 1973				
Cottidae	<i>Psychrolutes</i>	<i>sigalutes</i>	<i>Gilbertidia</i>	Hart 1973	RST, NS, SB	IV						Hart 1973				
Cottidae	<i>Radulinus</i>	<i>asprellus</i>		UAM	NS	IV						Hart 1973				
Cottidae	<i>Rhamphocottus</i>	<i>richardsoni</i>		UAM	I, RST, SAB	IV						Hart 1973				
			<i>Thecopterus aleuticus</i>													
Cottidae	<i>Malacocottus</i>	sp.		UAM	RST	II				Bering Sea	nr	Baxter 1987ms				
Cottidae	<i>Tnglops</i>	<i>macellus</i>		Hart 1973	D	IV						Hart 1973				
Cottidae	<i>Tnglops</i>	<i>pingelii</i>		UAM	D	II	x	x	x			Hart 1973				
Cryptacanthodidae	<i>Delolepis</i>	<i>giganteus</i>		Hart 1973	SB	IV						Hart 1973				
Cryptacanthodidae	<i>Lyconectes</i>	<i>aleutensis</i>		UAM	ST, NS, SAB	IV						Hart 1973				
Cyclopteridae	<i>Aptocyclus</i>	<i>ventricosus</i>		Hart 1973	I, ST	IV	x	x				Hart 1973				
Cyclopteridae	<i>Careproctus</i>	<i>colletti</i>		UAM	SB, SA	II	x					Hart 1973				
Cyclopteridae	<i>Careproctus</i>	<i>gilberti</i>		Hart 1973	SB, SA	IV						Hart 1973				
Cyclopteridae	<i>Careproctus</i>	<i>melanurus</i>		UAM	ST, SB, SAB	IV						Hart 1973				
Cyclopteridae	<i>Eumicrotremus</i>	<i>orbis</i>		UAM	I, RST	IV	x					Hart 1973				
Cyclopteridae	<i>Liparis</i>	<i>callyodon</i>		Hart 1973	I	IV						Hart 1973				
Cyclopteridae	<i>Liparis</i>	<i>cyclopus</i>		Hart 1973	NS	IV						Hart 1973				
Cyclopteridae	<i>Liparis</i>	<i>dennyi</i>		UAM	SB, SA	IV						Hart 1973				
Cyclopteridae	<i>Liparis</i>	<i>florae</i>		UAM	I	IV						Hart 1973				
Cyclopteridae	<i>Liparis</i>	<i>pulchellus</i>		Hart 1973	SB	IV	x					Hart 1973				
Cyclopteridae	<i>Liparis</i>	<i>rutteri</i>		Hart 1973	I, ST	IV						Hart 1973				
Cyclopteridae	<i>Nectoliparis</i>	<i>pelagicus</i>		UAM	P	IV	x					Hart 1973				
Cyclopteridae	<i>Paraliparis</i>	<i>deani</i>		UAM	D	IV	x	x		SE Alaska	nr	Hart 1973				
Gadidae	<i>Eleginus</i>	<i>gracilis</i>		UAM	P, D	IV	x					Hart 1973				
Gadidae	<i>Gadus</i>	<i>macrocephalus</i>		UAM	P, D	IV	x	x				Hart 1973				
Gadidae	<i>Merluccius</i>	<i>productus</i>		Hart 1973	P, D	IV	x					Hart 1973				
Gadidae	<i>Microgadus</i>	<i>proximus</i>		UAM	D	IV						Hart 1973				
Gadidae	<i>Theragra</i>	<i>chalcogramma</i>		UAM	Off, D	IV	x	x				Hart 1973				
Gasterosteidae	<i>Gasterosteus</i>	<i>aculeatus</i>		Hart 1973	FW/SW, NS	II	x					Hart 1973				
Hexagrammidae	<i>Hexagrammos</i>	<i>decagrammus</i>		Hart 1973	RST, KB, SAB	IV						Hart 1973				
Hexagrammidae	<i>Hexagrammos</i>	<i>lagocephalus</i>		Hart 1973	RST	IV	x					Hart 1973				
Hexagrammidae	<i>Hexagrammos</i>	<i>octogrammus</i>		UAM	RST	IV	x	x				Hart 1973				
Hexagrammidae	<i>Hexagrammos</i>	<i>stelleri</i>		UAM	RST, NS, E	IV	x	x				Hart 1973				
					NS, RST, SB, SAB	II III										
Hexagrammidae	<i>Ophiodon</i>	<i>elongatus</i>		Hart 1973	SAB	IV						Hart 1973				
Lamnidae	<i>Cetorhinus</i>	<i>maximus</i>		Hart 1973	Epip, P, NS	x	x	x	x			Hart 1973				
Lamnidae	<i>Lamna</i>	<i>ditropus</i>		Hart 1973	Off, Epip, NS	IV	x	x				Hart 1973				
Osmeridae	<i>Hypomesus</i>	<i>pretiosus pretiosus</i>		Hart 1973	NS	IV	x					Hart 1973				
Osmeridae	<i>Mallotus</i>	<i>villosus</i>		Hart 1973	Oceanic	II	x	x	x			Hart 1973				
Osmeridae	<i>Spirinchus</i>	<i>thaleichthys</i>		Hart 1973	ANA	IV						Hart 1973				
Osmeridae	<i>Thaleichthys</i>	<i>pacificus</i>		UAM	ANA	IV	x					Hart 1973				
Petromyzontidae	<i>Lampetra</i>	<i>japonica</i>		Rogers et al. 1986	ANA	IV						Baxter 1987ms				
Petromyzontidae	<i>Lampetra</i>	<i>tridentata</i>		Hart 1973	ANA	IV	x	x				Hart 1973				
Pholidae	<i>Apodichthys</i>	<i>flavidus</i>		Hart 1973	IVRT	IV						Hart 1973				
Pholidae	<i>Pholis</i>	<i>gilli</i>		UAM	IVRT	IV						Hart 1973				
Pholidae	<i>Pholis</i>	<i>laeta</i>		UAM	I, ST	IV						Hart 1973				
Pleuronectidae	<i>Atheresthes</i>	<i>stomias</i>		UAM	SB, Off	IV						Hart 1973				
Pleuronectidae	<i>Eopsetta</i>	<i>jordani</i>		Hart 1973	SAB	IV						Hart 1973				
Pleuronectidae	<i>Glyptocephalus</i>	<i>zachirus</i>		UAM	SB, SAB	IV						Hart 1973				
Pleuronectidae	<i>Hippoglossoides</i>	<i>elassodon</i>		UAM	SB	IV	x	x				Hart 1973				
						II III						Eschmeyer et al. 1983				
Pleuronectidae	<i>Hippoglossus</i>	<i>stenolepis</i>		Rogers et al. 1986	ST, NS	IV	x					Hart 1973				
Pleuronectidae	<i>Iopsetta</i>	<i>ischyra</i>		Hart 1973	NS, Off	IV						Hart 1973				
Pleuronectidae	<i>Limanda</i>	<i>aspera</i>		UAM	NS	IV	x	x				Hart 1973				
Pleuronectidae	<i>Limanda</i>	<i>proboscidea</i>		UAM	SB	IV						Hart 1973				
Pleuronectidae	<i>Microstomus</i>	<i>pacificus</i>		UAM	SB	IV						Hart 1973				
Pleuronectidae	<i>Platichthys</i>	<i>stellatus</i>		UAM	NS, Est	IV	x	x				Hart 1973				
Pleuronectidae	<i>Pleuronectes</i>	<i>bilineata</i>	<i>Lepidoseitta</i>	UAM	NS, Off, PB	IV	x	x				Hart 1973				
Pleuronectidae	<i>Pleuronectes</i>	<i>vetulus</i>	<i>Parophrys</i>	UAM	I, ST	IV						Hart 1973				
Pleuronectidae	<i>Pleuronichthys</i>	<i>decurrens</i>		Feder et al. 1979	SB	IV						Hart 1973				
Pleuronectidae	<i>Psettichthys</i>	<i>melanostictus</i>		Hart 1973	NS	IV						Hart 1973				
Pleuronectidae	<i>Reinhardtius</i>	<i>hippoglossoides</i>		Hart 1973	SAB, PB?	II	x	x	x			Hart 1973				
Rajidae	<i>Bathyraja</i>	<i>kincaidi</i>	<i>Raja</i>	UAM	D	IV						Hart 1973				
Rajidae	<i>Bathyraja</i>	<i>aleutica</i>		Wilimovsky 1958	D	II III	x					Wilimovsky 1958				
						II III						Eschmeyer et al. 1983				
Rajidae	<i>Bathyraja</i>	<i>interrupta</i>		Eschmeyer et al. 1983		IV						Eschmeyer et al. 1983				
						II III						Eschmeyer et al. 1983				
Rajidae	<i>Raja</i>	<i>binoculata</i>		Eschmeyer et al. 1983	D	IV						Eschmeyer et al. 1983				
						II III	x					Eschmeyer et al. 1983				
Rajidae	<i>Raja</i>	<i>parmifera</i>		Eschmeyer et al. 1983	D	II III	x					Hart 1973				
Rajidae	<i>Raja</i>	<i>rhina</i>	<i>Bathyraja</i>	Feder et al. 1979	D	IV						Hart 1973				
Rajidae	<i>Bathyraja</i>	<i>stellulata</i>	<i>Raja</i>	Hart 1973	D	IV						Hart 1973				
Salmonidae	<i>Oncorhynchus</i>	<i>clarki</i>	<i>Salmo clarki</i>	Hart 1973	ANA, FW	IV						Hart 1973				
Salmonidae	<i>Oncorhynchus</i>	<i>gorbuscha</i>		UAM	ANA	IV	x					Hart 1973				
Salmonidae	<i>Oncorhynchus</i>	<i>kela</i>		Hart 1973	ANA	IV	x	x				Hart 1973				

Table 10.9 continued.

FAMILY	GENUS	SPECIES	OTHER NAMES	SPECIMEN or SOURCE	HABITAT	BIOREGION				ORIGIN	NIS STATUS	REFERENCE to DISTRIBUTION
						NEP	NWP	AR	NWA			
Salmonidae	<i>Oncorhynchus</i>	<i>kisutch</i>		Hart 1973	ANA	IV	x					Hart 1973
Salmonidae	<i>Oncorhynchus</i>	<i>mykiss</i>	<i>Salmo gairdnerii</i>	Hart 1973	ANA	IV	x					Hart 1973
Salmonidae	<i>Oncorhynchus</i>	<i>nerka</i>		Hart 1973	ANA	IV	x	x				Hart 1973
Salmonidae	<i>Oncorhynchus</i>	<i>tshawytscha</i>		Hart 1973	ANA	IV	x	x				Hart 1973
Salmonidae	<i>Salmo</i>	<i>salar</i>		Hart 1973	ANA	III	IV		x	British Columbia	definate	Hines et al. 2000
Salmonidae	<i>Salvelinus</i>	<i>malma</i>		Hart 1973	ANA	IV	x	x				Hart 1973
Scorpaenidae	<i>Sarda</i>	<i>chiliensis</i>		Hart 1973	NS	IV	x					Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>aleutianus</i>		UAM	D	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>alutus</i>		UAM	Off	IV	x					Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>auriculatus</i>		Rogers et al. 1986	ST, NS	IV				SE Alaska	nr	Eschmeyer et al. 1983
Scorpaenidae	<i>Sebastes</i>	<i>borealis</i>		UAM	SB	IV	x					Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>brevispinis</i>		Hart 1973	D?	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>caurinus</i>		Hart 1973	RST, SAB, NS	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>ciliatus</i>		Hart 1973	D, NS	IV	x					Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>crameri</i>		Hart 1973	SB	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>diploproa</i>		Hart 1973	Off, SB	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>elongatus</i>		Hart 1973	RST, SB	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>emphaeus</i>		Rogers et al. 1986	ST, NS	IV						Baxter 1987ms
Scorpaenidae	<i>Sebastes</i>	<i>flavidus</i>		Hart 1973	P	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>maliger</i>		Hart 1973	RST, NS	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>melanops</i>		Hart 1973	D, NS, RR	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>mytilinus</i>		Hart 1973	D, RR, KB	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>nebulosus</i>		Rogers et al. 1986	NS, RST, RR	IV				SE Alaska	nr	Baxter 1987ms
Scorpaenidae	<i>Sebastes</i>	<i>nigrocinctus</i>		Rogers et al. 1986	RST	IV				SE Alaska	nr	Baxter 1987ms
Scorpaenidae	<i>Sebastes</i>	<i>paucispinis</i>		Hart 1973	D, RR	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>proriger</i>		Hart 1973	D	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>ruberrimus</i>		Feder et al. 1979	RR	IV						Hart 1973
Scorpaenidae	<i>Sebastes</i>	<i>variegatus</i>		UAM	D	IV						Hart 1973
Scorpaenidae	<i>Sebastsolobus</i>	<i>alascanus</i>		Hart 1973	SB	IV	x					Hart 1973
Scorpaenidae	<i>Sebastsolobus</i>	<i>altivelis</i>		Hart 1973	Off, SB	IV						Hart 1973
Scytaliniidae	<i>Scytalina</i>	<i>cerdale</i>		Hart 1973	I, NS SAB, PB	IV						Hart 1973
Sphyrinaeidae	<i>Sphyræna</i>	<i>argentea</i>		Hart 1973	NS	IV						Hart 1973
Squalidae	<i>Somniosus</i>	<i>pacificus</i>		Hart 1973	I, P, D	IV	x	x				Hart 1973
Squalidae	<i>Squalus</i>	<i>acanthias</i>		Hart 1973	P, D	II	x		x			Hart 1973
Stichaeidae	<i>Anoplarchus</i>	<i>insignis</i>		Hart 1973	RST	IV						Hart 1973
Stichaeidae	<i>Anoplarchus</i>	<i>purpureus</i>		UAM	I, RST	IV						Hart 1973
Stichaeidae	<i>Chirolophus</i>	<i>decoratus</i>		Hart 1973	RST, KB	IV						Hart 1973
Stichaeidae	<i>Chirolophus</i>	<i>nugator</i>		Rogers et al. 1986	RST	IV						Eschmeyer et al. 1983
Stichaeidae	<i>Lumpenella</i>	<i>longirostris</i>		UAM	Off	IV						Hart 1973
Stichaeidae	<i>Lumpenus</i>	<i>maculatus</i>		UAM	SAB	IV		x				Hart 1973
Stichaeidae	<i>Lumpenus</i>	<i>sagitta</i>		UAM	Off, NS	IV	x					Hart 1973
Stichaeidae	<i>Phytichthys</i>	<i>chirus</i>		Hart 1973	I, RST	IV						Hart 1973
Stichaeidae	<i>Poroclinus</i>	<i>rothrocki</i>		Hart 1973	SB, SA	IV						Hart 1973
Stichaeidae	<i>Stichæus</i>	<i>punctatus</i>		UAM	RST, SAB	II	x	x	x			Hart 1973
Stichaeidae	<i>Xiphister</i>	<i>mucosus</i>		UAM	I, RST	IV						Hart 1973
Trichodontidae	<i>Trichodon</i>	<i>trichodon</i>		UAM	NS, SB SAB	IV	x	x				Hart 1973
Zaproridae	<i>Zaprorra</i>	<i>silenus</i>		Hart 1973	D	IV	x	x				Hart 1973
Zoarcidae	<i>Bothrocara</i>	<i>molle</i>		UAM	SB, SA	IV	x					Hart 1973
Zoarcidae	<i>Lycodapus</i>	<i>mandibularis</i>		UAM	P	IV						Hart 1973
Zoarcidae	<i>Lycodes</i>	<i>brevipes</i>		UAM	SB, SAB	IV	x	x				Hart 1973
Zoarcidae	<i>Lycodes</i>	<i>diapterus</i>		UAM	SB	IV	x	x				Hart 1973
Zoarcidae	<i>Lycodes</i>	<i>palearis</i>		UAM	SB- SAB	IV	x					Hart 1973
Zoarcidae	<i>Lycodopsis</i>	<i>pacifica</i>		Feder et al. 1979	P	IV						Hart 1973
Stichaeidae	<i>Xiphister</i>	<i>atropurpureus</i>		Hart 1973	I, RST	IV						Hart 1973

Birds

The rich bird fauna of Prince William Sound, the northern Gulf of Alaska coast and Copper River Delta has been described in detail by Isleb and Kessel (1973, 1989). From their checklist, we have selected 114 species with habitats designated “beaches and tidal flats, rocky shores, and reefs, inshore waters, and offshore waters” (Table 10.10).

The American Ornithologists’ Union’s (1983) Check-list of North American Birds, was used to update common and scientific names. Usage of terms that define status: migrant, visitor, breeder and resident is derived from Isleb and Kessel (1973).

Nsh	nearshore	m	migrant
Pel	pelagic	v	visitor
Int	intertidal	r	rare
		b	breeder

Table 10.10. Birds.

FAMILY	GENUS	SPECIES	COMMON NAME	OTHER NAMES	SOURCE	HABITAT	STATUS
Gaviidae	<i>Gavia</i>	<i>immer</i>	Common Loon		Isleib and Kessel 1973	nsh	r
Gaviidae	<i>Gavia</i>	<i>adamsii</i>	Yellow-billed Loon		Isleib and Kessel 1973	nsh	r
Gaviidae	<i>Gavia</i>	<i>arctica</i>	Arctic Loon		Isleib and Kessel 1973	nsh	r
Gaviidae	<i>Gavia</i>	<i>stellata</i>	Red-throated Loon		Isleib and Kessel 1973	nsh	r
Podicipedidae	<i>Podiceps</i>	<i>griseogen</i>	Red-necked Grebe		Isleib and Kessel 1973	nsh	r
Podicipedidae	<i>Podiceps</i>	<i>auritus</i>	Horned Grebe		Isleib and Kessel 1973	nsh	r
Porcellariidae	<i>Fulmarus</i>	<i>glacialis</i>	Fulmar		Isleib and Kessel 1973	pel	v
Porcellariidae	<i>Puffinus</i>	<i>creatopus</i>	Pink-footed Shearwater		Isleib and Kessel 1973	pel	v
Porcellariidae	<i>Puffinus</i>	<i>carneipes</i>	Pale-footed Shearwater		Isleib and Kessel 1973	pel	v
Porcellariidae	<i>Puffinus</i>	<i>griseus</i>	Sooty Shearwater		Isleib and Kessel 1973	pel	v
Porcellariidae	<i>Puffinus</i>	<i>tenuirostris</i>	Slender-billed Shearwater		Isleib and Kessel 1973	pel	v
Porcellariidae	<i>Oceandroma</i>	<i>furcata</i>	Fork-tailed Storm Petrel		Isleib and Kessel 1973	pel	r
Phalacrocoracidae	<i>Phalacrocorax</i>	<i>auritus</i>	Double-crested Cormorant		Isleib and Kessel 1973	nsh/int	r
Phalacrocoracidae	<i>Phalacrocorax</i>	<i>penicillatus</i>	Brandt's Cormorant		Isleib and Kessel 1973	nsh/int	b
Phalacrocoracidae	<i>Phalacrocorax</i>	<i>pelagicus</i>	Pelagic Cormorant		Isleib and Kessel 1973	nsh/int	r
Phalacrocoracidae	<i>Phalacrocorax</i>	<i>urile</i>	Red-faced Cormorant		Isleib and Kessel 1973	nsh/int	r
Ardeidae	<i>Ardea</i>	<i>herodias</i>	Great blue Heron		Isleib and Kessel 1973	int	r
Anatidae	<i>Cygnus</i>	<i>columbianus</i>	Whistling Swan	<i>Olor</i>	Isleib and Kessel 1973	int	m
Anatidae	<i>Cygnus</i>	<i>buccinator</i>	Trumpeter Swam	<i>Olor</i>	Isleib and Kessel 1973	int	r
Anatidae	<i>Branta</i>	<i>canadensis</i>	Canada Goose		Isleib and Kessel 1973	int	r
Anatidae	<i>Branta</i>	<i>bernicula</i>	Brant	<i>B. nigricans</i>	Isleib and Kessel 1973	int	m
Anatidae	<i>Chen</i>	<i>canagica</i>	Emperor Goose	<i>Philacate</i>	Isleib and Kessel 1973	int	m
Anatidae	<i>Anser</i>	<i>albifrons</i>	Greater White-fronted Goose		Isleib and Kessel 1973	int	m
Anatidae	<i>Chen</i>	<i>caerulescens</i>	Snow Goose	<i>C. hyperborea</i>	Isleib and Kessel 1973	int	m
Anatidae	<i>Anas</i>	<i>platyrhynchos</i>	Mallard		Isleib and Kessel 1973	int	r
Anatidae	<i>Anas</i>	<i>strepera</i>	Gadwall		Isleib and Kessel 1973	int	r
Anatidae	<i>Anas</i>	<i>acuta</i>	Northern Pintail		Isleib and Kessel 1973	int	r
Anatidae	<i>Anas</i>	<i>crecca</i>	Green-winged Teal	<i>A. carolinensis</i>	Isleib and Kessel 1973	int	r
Anatidae	<i>Anas</i>	<i>discors</i>	Blue-winged Teal		Isleib and Kessel 1973	int	m
Anatidae	<i>Anas</i>	<i>penelope</i>	European Widgeon	<i>Mareca</i>	Isleib and Kessel 1973	int	m
Anatidae	<i>Anas</i>	<i>americana</i>	American Widgeon	<i>Mareca</i>	Isleib and Kessel 1973	int	r
Anatidae	<i>Anas</i>	<i>clypeata</i>	Northern Shoveler	<i>Spatula</i>	Isleib and Kessel 1973	int	m/b
Anatidae	<i>Aythya</i>	<i>valisineria</i>	Canvasback		Isleib and Kessel 1973	int	m/b
Anatidae	<i>Aythya</i>	<i>marila</i>	Greater Scaup		Isleib and Kessel 1973	int	r
Anatidae	<i>Bucephala</i>	<i>clangula</i>	Common Goldeneye		Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Bucephala</i>	<i>islandica</i>	Barrow's Goldeneye		Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Bucephala</i>	<i>albeola</i>	Bufflehead		Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Clangula</i>	<i>hymenalis</i>	Oldsquaw		Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Histrionicus</i>	<i>histrionicus</i>	Harlequin Duck		Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Polysticta</i>	<i>stelleri</i>	Steller's Eider		Isleib and Kessel 1973	int/nsh	v
Anatidae	<i>Somateria</i>	<i>mollissima</i>	Common Eider		Isleib and Kessel 1973	int/nsh	v
Anatidae	<i>Somateria</i>	<i>spectabilis</i>	King Eider		Isleib and Kessel 1973	int/nsh	v
Anatidae	<i>Melanitta</i>	<i>fusca</i>	White-winged Scoter	<i>M. deglandi</i>	Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Melanitta</i>	<i>perspicillata</i>	Surf Scoter		Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Melanitta</i>	<i>nigra</i>	Black Scoter	<i>Oidema</i>	Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Lophodytes</i>	<i>cucullatus</i>	Hooded Merganser		Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Mergus</i>	<i>merganser</i>	Common Merganser		Isleib and Kessel 1973	int/nsh	r
Anatidae	<i>Mergus</i>	<i>serrator</i>	Red-breasted Merganser		Isleib and Kessel 1973	int/nsh	r
Accipitridae	<i>Haliaeetus</i>	<i>leucocephalus</i>	Bald Eagle		Isleib and Kessel 1973	int	r
Accipitridae	<i>Circus</i>	<i>cyaneus</i>	Marsh Hawk		Isleib and Kessel 1973	int	r
Accipitridae	<i>Pandion</i>	<i>haliaetus</i>	Osprey	<i>P. rusticolus</i>	Isleib and Kessel 1973	int	r
Accipitridae	<i>Falco</i>	<i>peregrinus</i>	Peregrine Falcon		Isleib and Kessel 1973	int	r
Accipitridae	<i>Falco</i>	<i>columbarius</i>	Merlin		Isleib and Kessel 1973	int	r
Gruidae	<i>Grus</i>	<i>canadensis</i>	Sandhill Crane		Isleib and Kessel 1973	int	r
Hematopodidae	<i>Haematopus</i>	<i>bachmani</i>	Black Oystercatcher		Isleib and Kessel 1973	int	r
Caradriidae	<i>Charadrius</i>	<i>semipalmatus</i>	Semipalmated Plover		Isleib and Kessel 1973	int	m/b
Caradriidae	<i>Charadrius</i>	<i>vociferus</i>	Killdeer		Isleib and Kessel 1973	int	v
Caradriidae	<i>Pluvialis</i>	<i>dominica</i>	American Golder Plover		Isleib and Kessel 1973	int	m/b
Caradriidae	<i>Pluvialis</i>	<i>squatarola</i>	Black-bellied Plover	<i>Squatarola</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Aphriza</i>	<i>virgata</i>	Surfbird		Isleib and Kessel 1973	int	r
Caradriidae	<i>Arinaria</i>	<i>interpres</i>	Ruddy Turnstone		Isleib and Kessel 1973	int	m

Table 10.10 continued.

FAMILY	GENUS	SPECIES	COMMON NAME	OTHER NAMES	SOURCE	HABITAT	STATUS
Caradriidae	<i>Arinaria</i>	<i>melanocephala</i>	Black Turnstone		Isleib and Kessel 1973	int	r
Caradriidae	<i>Galligano</i>	<i>galligano</i>	Common Snipe	<i>Capella</i>	Isleib and Kessel 1973	int	r
Caradriidae	<i>Numenius</i>	<i>phaeopus</i>	Whimbrel		Isleib and Kessel 1973	int	m
Caradriidae	<i>Actitis</i>	<i>macularia</i>	Spotted Sandpiper		Isleib and Kessel 1973	int	m
Caradriidae	<i>Tringa</i>	<i>solitaria</i>	Solitary Sandpiper		Isleib and Kessel 1973	int	m
Caradriidae	<i>Heteroscelus</i>	<i>incanus</i>	Wandering Tattler		Isleib and Kessel 1973	int	m
Caradriidae	<i>Tringa</i>	<i>melanoleuca</i>	Greater Yellowlegs	<i>Tatonus</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Tringa</i>	<i>flavipes</i>	Lesser Yellowlegs	<i>Tatonus</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>canutus</i>	Red Knot		Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>ptilocnemis</i>	Rock Sandpiper	<i>Erolia</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>acuminata</i>	Sharp-tailed Sandpiper	<i>Erolia</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>melanotos</i>	Pectoral Sandpiper	<i>Erolia</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>baridii</i>	Baird's Sandpiper	<i>Erolia</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>minutilla</i>	Least Sandpiper	<i>Erolia</i>	Isleib and Kessel 1973	int	m/b
Caradriidae	<i>Calidris</i>	<i>alpina</i>	Dunlin	<i>Erolia</i>	Isleib and Kessel 1973	int	r
Caradriidae	<i>Limnodromus</i>	<i>griseus</i>	Short-billed Dowitcher		Isleib and Kessel 1973	int	m/b
Caradriidae	<i>Limnodromus</i>	<i>scolopaceus</i>	Long-billed Dowitcher		Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>pusilla</i>	Semipaliated Sandpiper	<i>Ereunetes</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>mauri</i>	Western Sandpiper	<i>Ereunetes</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Limosa</i>	<i>lapponica</i>	Bar-tailed Godwit		Isleib and Kessel 1973	int	m
Caradriidae	<i>Limosa</i>	<i>haemastica</i>	Hudsonian Godwit		Isleib and Kessel 1973	int	m
Caradriidae	<i>Calidris</i>	<i>alba</i>	Sanderling	<i>Crocethia</i>	Isleib and Kessel 1973	int	m
Caradriidae	<i>Phalaropus</i>	<i>fulicarius</i>	Red Phalarope		Isleib and Kessel 1973	int/nsh/pel	m
Caradriidae	<i>Lobipes</i>	<i>lobatus</i>	Northern Phalarope		Isleib and Kessel 1973	int/nsh/pel	m/b
Stercorariidae	<i>Stercorarius</i>	<i>pomarinus</i>	Pomarine Jaeger		Isleib and Kessel 1973	pel	m
Stercorariidae	<i>Stercorarius</i>	<i>parasiticus</i>	Parasitic Jaeger		Isleib and Kessel 1973	pel	m/b
Stercorariidae	<i>Stercorarius</i>	<i>longicaudus</i>	Long-tailed Jaeger		Isleib and Kessel 1973	pel	m
Stercorariidae	<i>Catharacta</i>	<i>skua</i>	Greater Skua		Isleib and Kessel 1973	pel	v
Laridae	<i>Larus</i>	<i>hyperboreus</i>	Glaucus Gull		Isleib and Kessel 1973	int/nsh/pel	r
Laridae	<i>Larus</i>	<i>glaucesens</i>	Glaucous-winged Gull		Isleib and Kessel 1973	int/nsh/pel	r
Laridae	<i>Larus</i>	<i>argentatus</i>	Herring Gull		Isleib and Kessel 1973	int/nsh/pel	r
Laridae	<i>Larus</i>	<i>canus</i>	Mew Gull		Isleib and Kessel 1973	int/nsh/pel	r
Laridae	<i>Larus</i>	<i>philadelphia</i>	Bonaparte's Gulls		Isleib and Kessel 1973	int/nsh/pel	m/b
Laridae	<i>Rissa</i>	<i>tridactyla</i>	Black-legged Kittiwake		Isleib and Kessel 1973	int/nsh/pel	r
Laridae	<i>Xema</i>	<i>sabini</i>	Sabine's Gull		Isleib and Kessel 1973	int/nsh/pel	m
Laridae	<i>Sterna</i>	<i>paradisaea</i>	Arctic Tern		Isleib and Kessel 1973	int/nsh/pel	m/b
Laridae	<i>Sterna</i>	<i>aleutica</i>	Aleutian Tern		Isleib and Kessel 1973	int/nsh/pel	b
Alcidae	<i>Uria</i>	<i>aalge</i>	Common Murre		Isleib and Kessel 1973	nsh/pel	r
Alcidae	<i>Uria</i>	<i>lomvia</i>	Thick-billed Murre		Isleib and Kessel 1973	nsh/pel	r
Alcidae	<i>Cepphus</i>	<i>columba</i>	Pigeon Guillemont		Isleib and Kessel 1973	nsh/pel	r
Alcidae	<i>Brachyramphus</i>	<i>marmoratus</i>	Marbled Murrelet		Isleib and Kessel 1973	nsh/pel	r
Alcidae	<i>Brachyramphus</i>	<i>brevirostis</i>	Kitlitz's Murrelet		Isleib and Kessel 1973	nsh/pel	r
Alcidae	<i>Synthliboramphus</i>	<i>antiquum</i>	Ancient Murrelet		Isleib and Kessel 1973	nsh/pel	r
Alcidae				<i>Synthlibora</i>			
Alcidae	<i>Aethia</i>	<i>psittacula</i>	Parakeet Auklet	<i>mphus</i>	Isleib and Kessel 1973	nsh/pel	b
Alcidae	<i>Aethia</i>	<i>crystalata</i>	Crested Auklet		Isleib and Kessel 1973	nsh/pel	v
Alcidae	<i>Cerorhica</i>	<i>monocrata</i>	Rhinoceros Auklet		Isleib and Kessel 1973	nsh	v/b
Alcidae	<i>Fratercula</i>	<i>corniculata</i>	Horned Puffin		Isleib and Kessel 1973	nsh/pel	r
Alcidae	<i>Lunda</i>	<i>cirrhata</i>	Tufted Puffin		Isleib and Kessel 1973	nsh/pel	r
Alcedinidae	<i>Megaceryle</i>	<i>alcyon</i>	Belted Kingfisher		Isleib and Kessel 1973	int	r
Corvidae	<i>Cyanocitta</i>	<i>stelleri</i>	Steller's Jay		Isleib and Kessel 1973	int	r
Corvidae	<i>Corvus</i>	<i>corax</i>	Common Raven		Isleib and Kessel 1973	int	r
Corvidae	<i>Corvus</i>	<i>caurinus</i>	Northwestern Crow		Isleib and Kessel 1973	int	r

Mammals

Eleven marine mammal species are well known from Prince William Sound. We also include the river otter, and black and brown bear because of their use of marine resources (salmon, intertidal animals) (Table 10.11). Wynne (1992) and UAM mammal collection records were used as a source for species names. Distribution, community, and status are inferred from range maps in Wynne (1992).

Table 10.11. Mammals.

FAMILY	GENUS	SPECIES	COMMON NAME	SPECIMEN or SOURCE	HABITAT	STATUS	BIOREGION				Source
							NEP	NWP	AR	NWA	
Balaenopteridae	<i>Balaenoptera</i>	<i>acutorostrata</i>	Minke Whale	Wynne 1992	nsh/pel	m	x	x	x	x	Wynne 1992
Balaenopteridae	<i>Balaenoptera</i>	<i>physalus</i>	Fin Whale	Wynne 1992	nsh/pel	m	x	x	x	x	Wynne 1992
Balaenopteridae	<i>Megaptera</i>	<i>novaeangliae</i>	Humpback Whale	Wynne 1992	nsh	m	x	x	x	x	Wynne 1992
Delphinidae	<i>Orcinus</i>	<i>orca</i>	Killer Whale	Wynne 1992	nsh/pel	r/m	x	x	x	x	Wynne 1992
Eschrichtiidae	<i>Eschrichtius</i>	<i>robustus</i>	Grey Whale	Wynne 1992	pel	m	II III IV				Wynne 1992
Mustelidae	<i>Enhydra</i>	<i>lutris</i>	Sea Otter	Wynne 1992	int/nsh	r	II III IV x				Hall 1981
Mustelidae	<i>Lontra</i>	<i>canadensis</i>	River Otter	UAM Mammals	int	r	x	x	x	x	Hall 1981
Otariidae	<i>Callorhinus</i>	<i>ursinus</i>	Northern Fur Seal	UAM Mammals	pel	m	II III IV x				Hall 1981
Otariidae	<i>Eumetopias</i>	<i>jubatus</i>	Steller's Sea Lion	UAM Mammals	nsh	r	II III IV x				Hall 1981
Phocidae	<i>Phoca</i>	<i>vitulina</i>	Harbor Seal	UAM Mammals	nsh	r	II III IV				Hall 1981
Phocoenidae	<i>Phocoena</i>	<i>phocoena</i>	Harbor Porpoise	Wynne 1992	nsh	m/r	II	x		x	Wynne 1992
Phocoenidae	<i>Phocoenoides</i>	<i>dalli</i>	Dall's Porpoise	Wynne 1992	nsh/pel	m/r	II III IV x				Wynne 1992
Ursidae	<i>Ursus</i>	<i>americanus</i>	Black Bear	UAM Mammals	int	r	II III				Hall 1981
Ursidae	<i>Ursus</i>	<i>arctos</i>	Brown Bear	UAM Mammals	int	r	II III				Hall 1981

10E. Discussion

The data sets contain entries for 1878 taxa, of which all but 180 are species-level identifications. Thirty-nine species are recognized as possibly undescribed. Eighty-nine species had not previously been reported in Prince William Sound, and represent distributional range extension. (Table 10.12.) These species were probably overlooked in previous environmental surveys, because of their small size, cryptic appearance, similarity to more well-known species, or lack of taxonomic experts to work with them. Eighteen species are likely to represent nonindigenous species. At least 97 species are uncertain in origin (cryptogenic). Over 70% of the animals (1343) are invertebrates. Arthropods 24.3%, mollusks 16.8%, and polychaete annelids 12.4% make up the largest number of total species. (Table 10.13. Figure 10.4).

	Plants	Cnidaria/ Ctenophora	Nemertea	Polychaeta	Mollusca	Arthropoda	Echinodermata	Bryozoa	Urochordata	Other invertebrates	Fishes	Birds	Mammals	TOTALS
probable NIS	5			1		2			1					9
definite NIS	1	1			2			1	1	1	2			9
range extension within Alaska				4	9	1		8		1	8			31
range extension to Alaska	17	2		19	7	10		2	1					58
cryptogenic	68			7	1			6						82
potential new or undescribed species not identified to species	1			6	2				1		1			11
total species-level taxa	10	27	1	7	1	109		19	5	3				182
	231	102	45	233	315	455	68	74	30	23	178	113	14	1881

Table 10.12. Summary of Prince William Sound marine biota by NIS status and identification confidence.

	Plants	Cnidaria/ Ctenophor	Mollusca	Polychaeta	Arthropoda	Echinodermata	Bryozoa	Other invertebrates	Fishes	Birds	Mammals
numer of species	231	102	315	233	455	66	74	98	178	113	14
percent of total fauna		6.2%	19.1%	14.2%	27.7%	4.0%	4.5%	6.0%	10.6%	6.9%	0.9%
percent of total biota	12.3%	5.4%	16.8%	12.4%	24.3%	3.5%	3.9%	5.2%	9.3%	6.0%	0.7%
total invertebrates	1343										
total vertebrates	302										
total plants	233										
total biota considered	1876										

Table 10.13. Summary of the plants and animals considered.

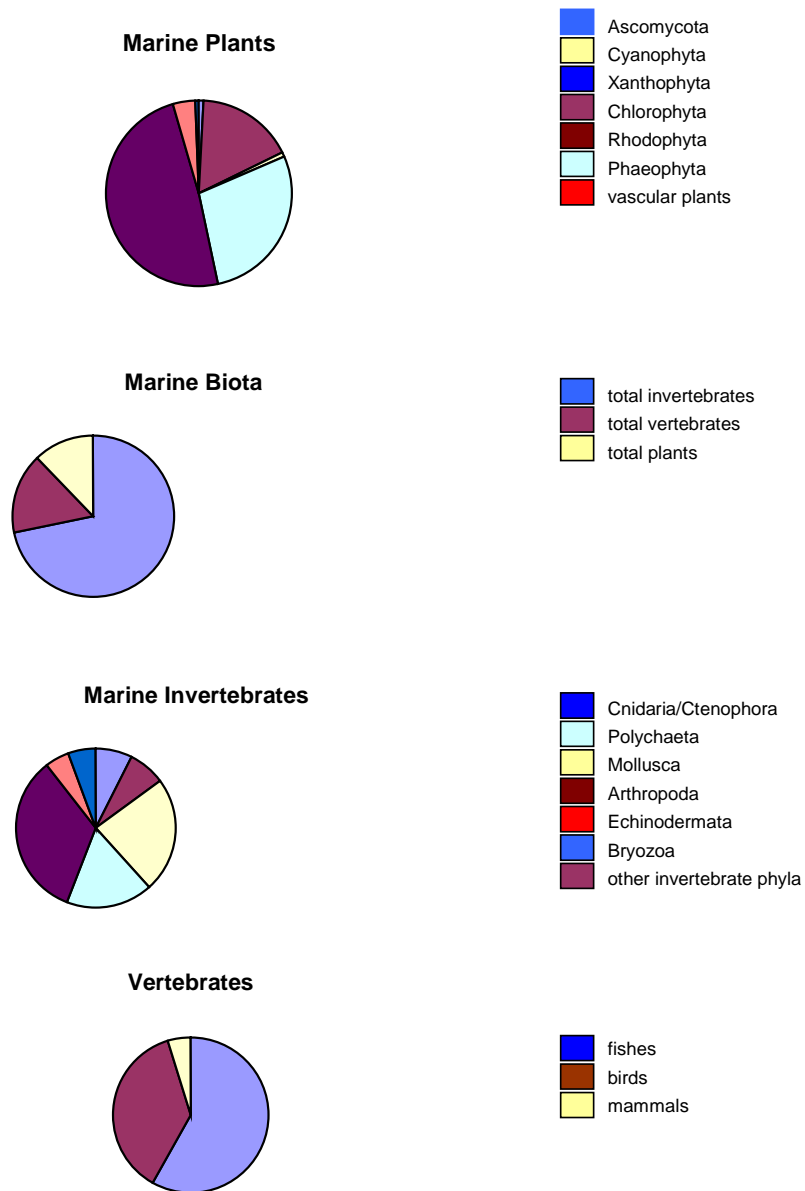


Figure 10.4. Species composition of Prince William Sound marine biota by major taxon.

The marine biota of Prince William Sound is a mix of species with ranges that overlap several biogeographic provinces. Forty-nine percent of the biota for which reliable data are available are northeast Pacific species, not found north or west of Bering Strait. Over one third of the species (43.4 %) have geographic ranges that extend into the northwestern Pacific. Fewer species have distributions that overlap the north Atlantic 19.6.5% and/or Arctic 16.9%. The biogeographic affinities vary greatly among the phyla.

We caution users of these data sets that in spite of our best efforts the information is only as good as our sources. We were unable to obtain data, or found few reliable records, for five major groups of animals: sponges, Anthozoa, Nematoda, Oligochaeta, Hirudinea, Ostracoda and insects. Two factors account for this, lack of taxonomic experts, and the need for specialized collection and preservation techniques. Further, even among several well-known taxonomic groups, we found few sources of authentic information and so we have had to rely on unpublished reports and manuscripts. We hope that using these data sets will not perpetuate erroneous records. In critical situations, users are advised to rely on museum records and consultation with other experts.

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