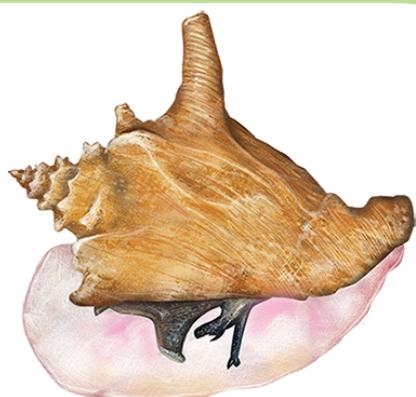


# A FIELD GUIDE TO ALASKAN BENTHIC INVERTEBRATES

## Volume 1: Shelled Invertebrates

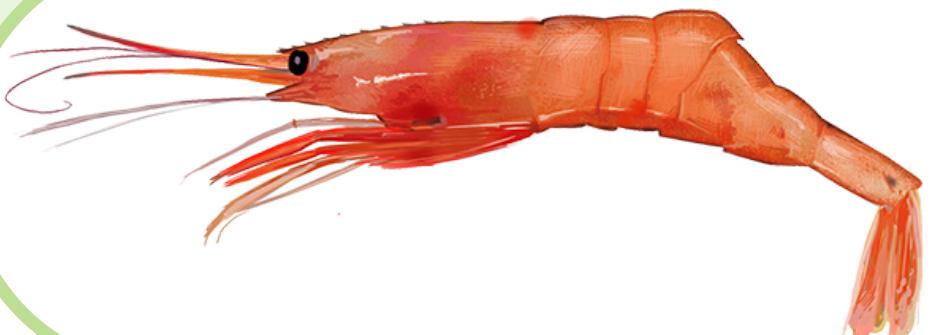
2025



**NOAA**  
**FISHERIES**

Alaska Fisheries Science Center

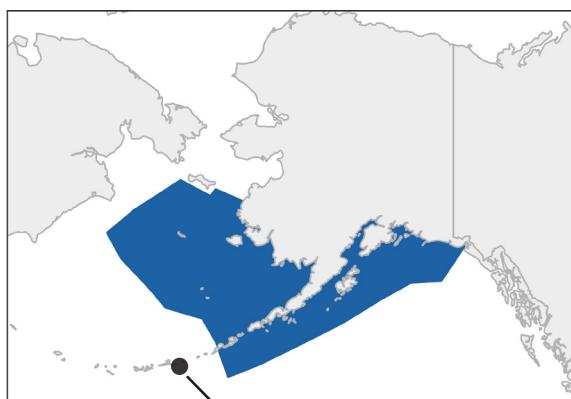
Resource Assessment and  
Conservation Engineering





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■ GAP locality (regional polygon filled from GAP catch records for species)

Outlier GAP records or too few GAP records to draw regional polygon

# A FIELD GUIDE TO ALASKAN BENTHIC MARINE INVERTEBRATES

## VOLUME 1: SHELLED INVERTEBRATES

Updated and Maintained by Staff of the  
Resource Assessment and Conservation Engineering Division  
Alaska Fisheries Science Center / National Marine Fisheries  
Service / NOAA

Last updated February 2025

### DISCLAIMER

This guidebook is meant to serve as a practical guide  
to common species encountered on GAP surveys.

You may encounter species not detailed here.

When in doubt, always photograph and collect voucher  
specimens for expert identification.

BARNACLES &  
CHITONS

Minimum ID:

- Barnacles: Barnacle unid. (65000)
- Chitons: Chiton unid. (70100)

**pelagic gooseneck barnacle**

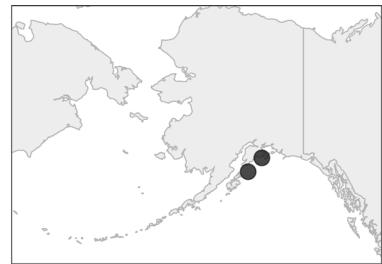
*Lepas* sp.

65101

Small stalked, laterally compressed barnacles; calcareous plates large, smooth; stalk relatively long; color of plates pale blue to white.

RANGE: North Pacific

DEPTH: pelagic SIZE: length to 8cm



**giant barnacle**

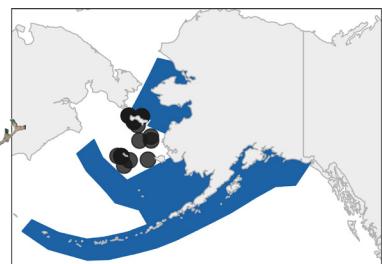
*Chirona evermanni*

65203

Very large barnacles; height about 1.5 to 2 times width; occurring in large, branched clusters; color white.

RANGE: Bering Sea to Gulf of Alaska

DEPTH: 140-490m SIZE: height to 13cm



**beaked barnacle**

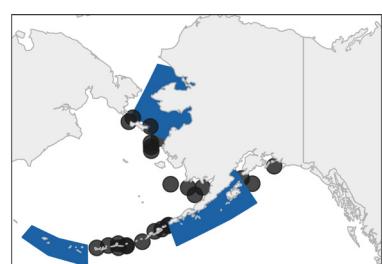
*Balanus rostratus*

65205

Large barnacles; height about 1 to 1.2 times width; occurring in clusters, color white.

RANGE: Bering Sea to Washington

DEPTH: 0-128m SIZE: height to 8cm



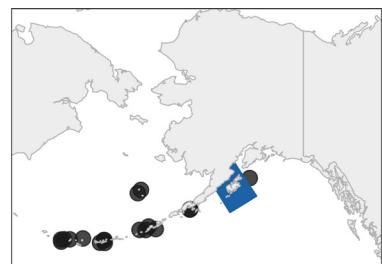
*Balanus nubilus*

65206

Very large barnacles; height about 1 to 1.3 times width; occurring in clusters; color white to yellowish-tan

RANGE: Gulf of Alaska to Mexico

DEPTH: 1-50m SIZE: height to 8cm



**Columbian barnacle**

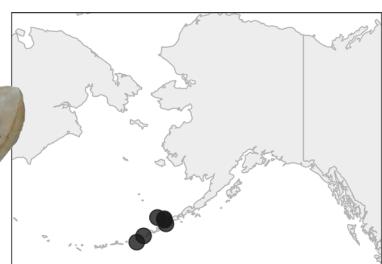
*Hamatoscalpellum columbianum*

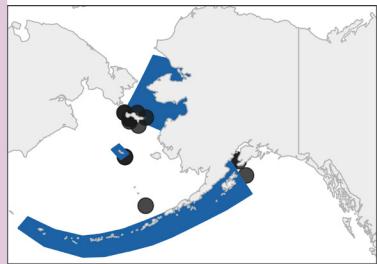
65211

Small, stalked, laterally compressed barnacles; calcareous plates relatively large; stalk short; color light brown, plates white.

RANGE: Gulf of Alaska to Washington

DEPTH: shallow SIZE: length to 3cm





### chiton unid.

#### Polyplacophora

**70100**

Variable in size, with shell composed of eight overlapping plates; typically found attached to rocks and other hard surfaces

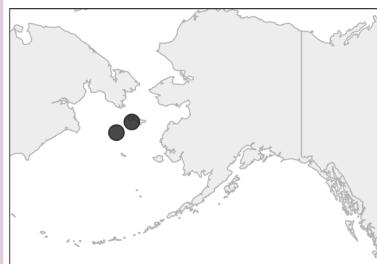
**RANGE:** Bering Sea to California

**DEPTH:** 0-2000+m   **SIZE:** length to 35cm

## AMPHIPODS & ISOPODS

### Minimum ID:

- Amphipods: Amphipod unid (60100)
- Isopods: Isopod unid (62000)



### speckled amphipod

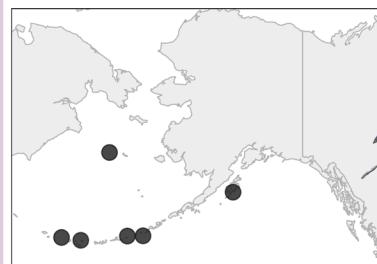
#### *Eusirus cuspidatus*

**60105**

Large amphipods; body laterally compressed; pleonites medially keeled, posterior edge of first and second pleonites with triangular spines; color white, with reddish speckles.

**RANGE:** circum-Arctic

**DEPTH:** 30-100m   **SIZE:** length to 4cm



### skeleton shrimps

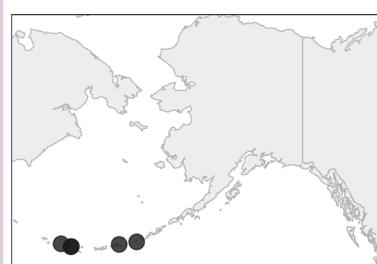
#### *Caprella* sp.

**60145**

Small, very slender, modified amphipods; similar in appearance to terrestrial walking stick insects, or tiny skeletons; color pale tan, pink, brown or white.

**RANGE:** Arctic Ocean to Mexico

**DEPTH:** 0-1000m   **SIZE:** length to 5cm



### spiky arcturid

#### *Arcturus* sp. 1

**62004**

Medium sized; body rather slender, bearing two parallel rows of long, stout, spike-like spines on dorsal side of body segments; antennae very long; color mottled reddish-brown and cream.

**RANGE:** Bering Sea to Aleutian Islands

**DEPTH:** 50-350m   **SIZE:** length to 4cm



### sea cockroach

#### *Rocinela angustata*

**62025**

Medium-sized isopods; pleons four through seven much larger than one through three; pleotelson relatively large, tapering, posteriorly rounded; color olive and pink.

**RANGE:** Bering Sea to Mexico

**DEPTH:** 30-2214m   **SIZE:** length to 4cm

**SEA SPIDERS****Minimum ID: Sea spider unid. (69900)**

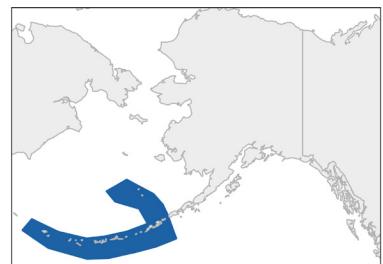
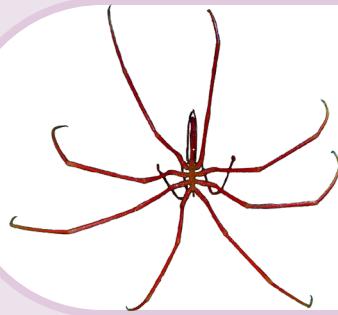
Fun fact: not really spiders! Maybe not even closely related to spiders.

**sea spider unid.****Pycnogonida****69900**

There are numerous genera and species of pycnogonids in Alaskan waters, representing several families. Field identification is very difficult.

**RANGE: Arctic Ocean to Gulf of Alaska****DEPTH: 1-3000m SIZE: variable*****Colossendeis* sp.****69910**

Very large, long-legged pycnogonids; body long, segments not very distinct; legs very long; color red to orange.

**RANGE: Bering Sea to California****DEPTH: 200-3000m SIZE: diam. to 30cm*****Pycnogonum* sp.****69930**

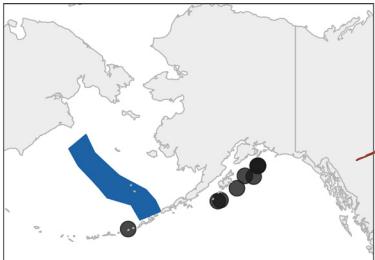
Small, short-legged pycnogonids; body short, robust; legs short, stout; color tan to brown

**RANGE: Bering Sea to Gulf of Alaska****DEPTH: 20-500m SIZE: length to 3cm**

## MYSIDS

Minimum ID: Mysid unid. (64000)

Fun fact: Females brood their eggs in a pouch called a "marsupium."



### giant red mysid

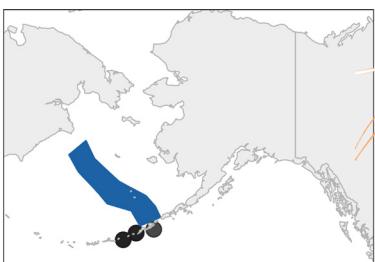
*Neognathophausia gigas*

64011

Large scarlet shrimp; rostrum length  $\geq$  carapace length; posterior edge of carapace with prominent medial and postero-lateral spines; telson with a weak central rib; color scarlet.

RANGE: Worldwide

DEPTH: 400-700m SIZE: length to 8cm



### red mysid

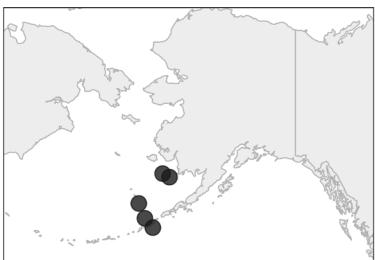
*Neognathophausia ingens*

64012

Large scarlet shrimp; rostrum length  $\leq$  carapace length; posterior edge of carapace with prominent medial and postero-lateral spines; telson lacking central rib; color scarlet.

RANGE: Worldwide

DEPTH: 350-4000m SIZE: length to 6cm



### Mysidae

64100

Small shrimp-like crustaceans; rostrum simple, pointed; eyes large; body with eight thorocopods; abdomen long, slender, with sub-cylindrical segments; color white to red.

RANGE: Arctic to Mexico

DEPTH: 100+m SIZE: length to 1.5cm

MYSIDS

# SHRIMPS

## Minimum ID: Genus

**5 pairs of walking legs, lacking brood pouch under thorax, carapace fully covering thorax**

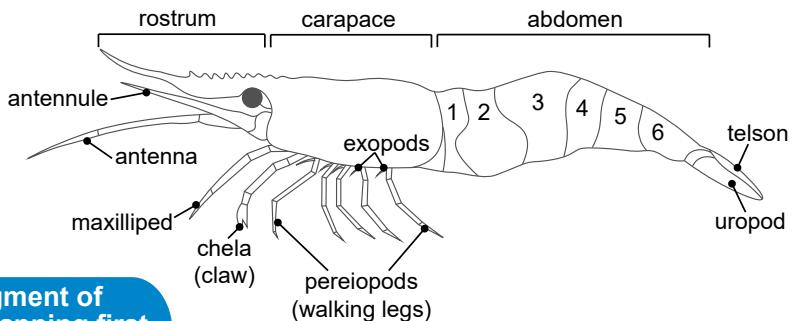
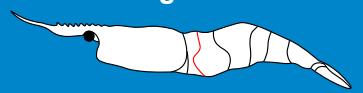
No

Uh oh -- this may not be a shrimp, check mysids

see page 7

Yes

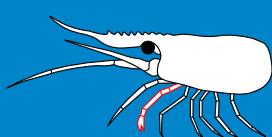
**Second segment of abdomen overlapping first segment**



Genus *Boreogennema*  
Genus *Eusergestes*

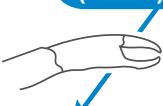
see page 9

**Rostrum long & thin with moveable spines; no claw on first leg (chela absent)**



No

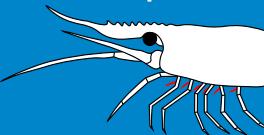
**Shape of claw (chela) on first leg**



No

Yes

**Walking legs with exopod**



Yes

Genus *Notostomus*  
Genus *Hymenodora*  
Genus *Pasiphaea*

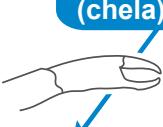
see page 9

**Family Pandalidae**

Genus *Pandalus*  
see page 10-12

**Family Hippolytidae**

**Spine(s) above eye**



**Family Crangonidae**

**Eyes adjacent and extremely close together**



**Heavily armored carapace**

Genus *Argis*  
see page 15

No

Yes

Genus *Crangon*  
see page 16

No

Yes

Genus *Metacrangon*  
Genus *Paracrangon*  
Genus *Rhynocrangon*  
Genus *Sclerocrangon*

see page 17

Genus *Heptacarpus*  
Genus *Eualus*

see page 12-13

Genus *Spirontocaris*  
Genus *Lebbeus*

see page 14

***Boreogennema borealis***

66841

Small, stout shrimps; anterior half of carapace with medial keel; rostrum short, deep, triangular with a single dorsal spine; color red to orange-red.

**RANGE:** Bering Sea to Mexico**DEPTH:** 200-2866m **SIZE:** length to 2cm**Pacific sergestid*****Eusergestes similis***

66005

Small slender shrimps; body somewhat compressed, translucent; carapace with supraorbital and hepatic spines; color of carapace reddish, body and appendages translucent to white with red spots.

**RANGE:** Bering Sea to Mexico**DEPTH:** 0-1200m **SIZE:** length to 2cm**spinyridge shrimp*****Notostomus japonicus***

66815

Medium-sized shrimps; body very laterally compressed; carapace with strong dorsal ridge; rostrum relatively long, serrated dorsally and ventrally; third to fifth abdominal segments with prominent posterior spines; color dark crimson.

**RANGE:** North Pacific, S. to Oregon**DEPTH:** 450-5380m **SIZE:** length to 4cm**Pacific ambereye*****Hymenodora frontalis***

66840

Small, moderately stout shrimps; carapace lacking dorsal ridge; rostrum rather short, with three dorsal spines; telson truncated distally; color orange-red, carapace darker.

**RANGE:** Bering Sea to California**DEPTH:** 200-3000m **SIZE:** length to 1.5cm**Pacific glass shrimp*****Pasiphaea pacifica***

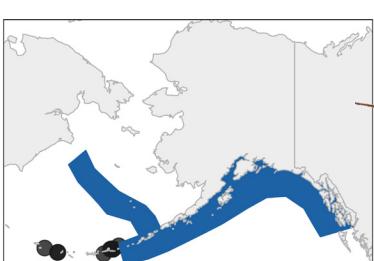
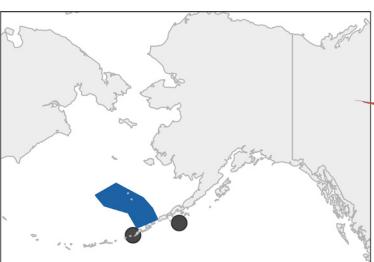
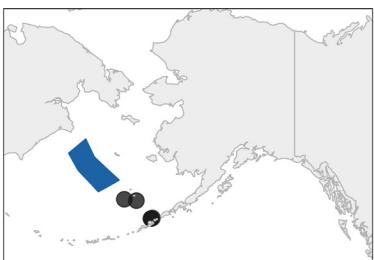
66770

Small, transparent shrimps; body very compressed laterally; carapace with very faint dorsal ridge, rostrum very short, with a single short spine behind; color translucent orange, and orange internal organs visible.

**RANGE:** Bering Sea to Mexico**DEPTH:** 100-1076m **SIZE:** length to 2.5cm**crimson pasiphaeid*****Pasiphaea tarda***

66772

Large shrimps; body very compressed laterally; carapace with dorsal ridge, rostrum very short; color crimson.

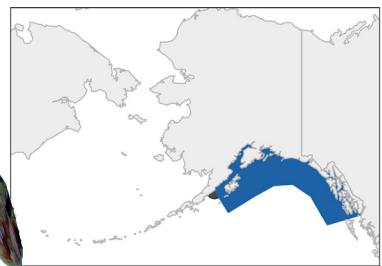
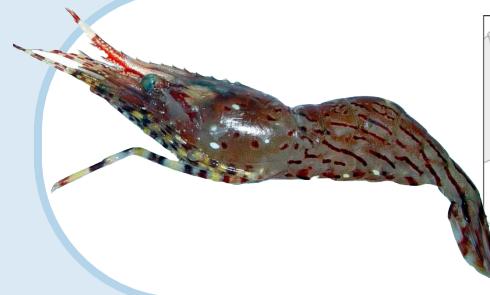
**RANGE:** Aleutian Islands to S. America**DEPTH:** 250-2400m **SIZE:** length to 7cm

## dock shrimp

### *Pandalus danae*

66025

Medium-sized shrimp; body stout, rostrum longer than carapace; dorsal spines extending past mid-point of carapace, about five behind the eye; third abdominal segment lacking keel or spine; color subdued brownish with whitish mottling, rostrum with white band near tip, carapace with white and maroon spots, abdominal segments with thick maroon lines; legs white banded with maroon and yellow.



RANGE: Bering Sea to Mexico

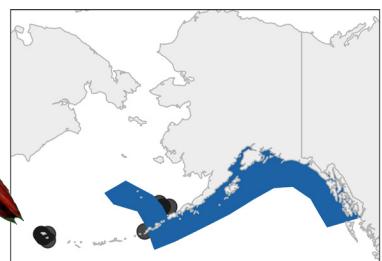
DEPTH: 0-185m SIZE: length to 3cm

## ocean shrimp

### *Pandalus jordani*

66030

Medium-sized shrimp; body rather slender; rostrum longer than carapace with prominent spines on dorsal and ventral sides; third abdominal segment lacking pronounced spine; color pink to reddish-pink.



RANGE: Aleutian Islands to California

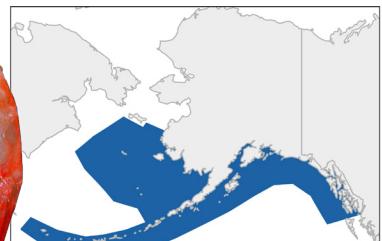
DEPTH: 35-457m SIZE: length to 2.8cm

## Alaskan pink shrimp

### *Pandalus eos*

66031

Medium-sized shrimp; body rather slender; rostrum longer than carapace, with prominent spines on dorsal and ventral sides; third abdominal segment with pronounced dorsal spine; color pink to reddish-pink.



RANGE: Chukchi Sea to Washington

DEPTH: 16-1280m SIZE: length to 2.9cm

## yellowleg pandalid

### *Pandalus tridens*

66033

Medium-sized pandalid shrimp; body slender; rostrum longer than carapace; color pale pink with dark pink or reddish mottling; legs with distinctive yellow bands. Lacks blue spots.



RANGE: Bering Sea to California

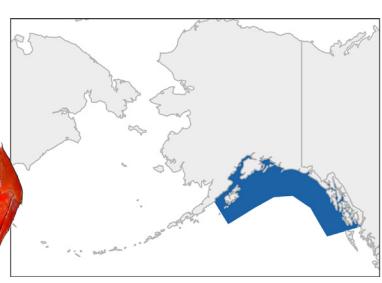
DEPTH: 5-84m SIZE: length to 3cm

## spot shrimp

### *Pandalus platyceros*

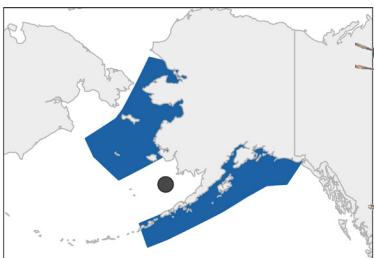
66040

Large pandalid shrimp; body relatively stout; rostrum longer than carapace, and bearing fine spines; color orange with two parallel, longitudinal white stripes on carapace and two pairs of large white spots on abdomen.



RANGE: Aleutian Islands to California

DEPTH: 0-487m SIZE: length to 6cm



### coonstripe shrimp

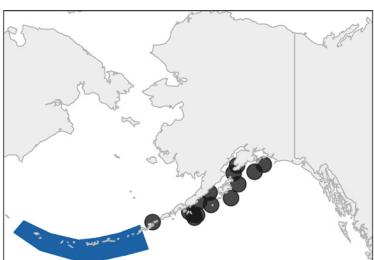
*Pandalus hypsinotus*

66050

Large shrimp; body stout; rostrum longer than carapace; dorsal spines extending beyond mid-point of carapace; third abdominal segment lacking keel or spine; color dark orange-brown with white blotches on carapace and maroon or reddish blotches on abdomen, rostrum lacking white band; legs orange-brown with maroon and white bands.

**RANGE:** Chukchi Sea to Washington

**DEPTH:** 5-500m **SIZE:** length to 4cm



### roughpatch shrimp

*Pandalus stenolepis*

66055

Small shrimp; body stout; rostrum slightly longer than carapace; paired rough patches on cardiac region of carapace; color whitish or gray with reddish mottling and spots; prominent blue dorsal spots.

**RANGE:** Aleutian Islands to Oregon

**DEPTH:** 50-230m **SIZE:** length to 2cm



### Aleutian bigeye

*Pandalus aleuticus*

66060

Medium-sized shrimp; body relatively slender; rostrum about as long as carapace; dorsal spines of carapace relatively large, extending to about midpoint of carapace; carapace pale pink, reddish on dorsal ridge and rostrum; rostrum with distinctive white band near distal end; abdomen dark pink with irregular white bands and elongated blotches.

**RANGE:** Bering Sea and Aleutian Islands

**DEPTH:** 400+m **SIZE:** length to 3.5cm



### northern longbeak

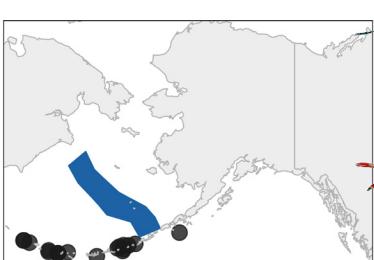
*Pandalus longirostris*

66061

Medium-sized shrimp; body relatively slender, rostrum twice as long as carapace; color red with sparsely scattered white spots and faint, narrow white stripes on abdominal segments; legs red with white bands.

**RANGE:** Bering Sea and Aleutian Islands

**DEPTH:** 350+m **SIZE:** length to 2.5cm



### stripeleg pandalid

*Pandalus amplus*

66130

Medium-sized shrimp; body relatively slender; rostrum longer than carapace; dorsal spines of carapace small; color pink with red rostrum; legs red with white longitudinal stripe on dorsal side.

**RANGE:** Bering Sea to Mexico

**DEPTH:** 550-2000m **SIZE:** length to 3cm

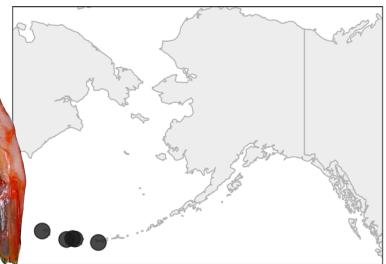
## Pandalus sp. cf. *lamelligerus*

66062

Medium-sized shrimp; body stout, rostrum about as long as carapace; carapace with prominent medial spines on distal anterior half; rostrum about as long as carapace; color cream with irregular stripes and blotches on abdomen; legs white with three red bands.

**RANGE:** Western Pacific to Aleutian Islands

**DEPTH:** below 450m **SIZE:** length to 3cm



## sidestripe shrimp

### *Pandalus dispar*

66120

Medium-sized shrimp; body slender, rostrum twice as long as carapace and bearing spines all along dorsal and ventral sides; color abdomen red-orange with prominent longitudinal white stripes; legs red with white bands.

**RANGE:** Bering Sea to Oregon

**DEPTH:** 46-649m **SIZE:** length to 3cm



## humpy shrimp

### *Pandalus goniurus*

66045

Small shrimp; body and rostrum slender, longer than carapace; third abdominal segment with median keel ending in a spine just forward of posterior edge of segment; color translucent pale pink to white with fine red lines on carapace and abdomen; rostrum with red line crossed by one or two white bands at mid-point.

**RANGE:** Chukchi Sea to Washington

**DEPTH:** 5-450m **SIZE:** length to 3cm



## Greenland shrimp

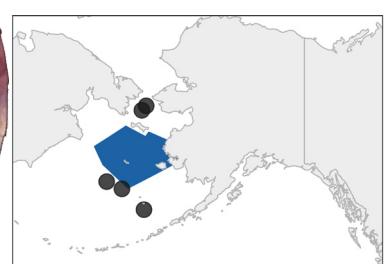
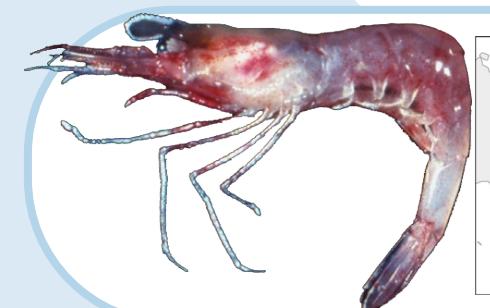
### *Eualus macilentus*

66179

Small pale shrimp; rostrum very short, paddle-shaped, with convex upper and lower margins; color pale pink.

**RANGE:** Circumboreal, S. to Gulf of Alaska

**DEPTH:** 20-5400m **SIZE:** length to 1cm



## bigeye eualid

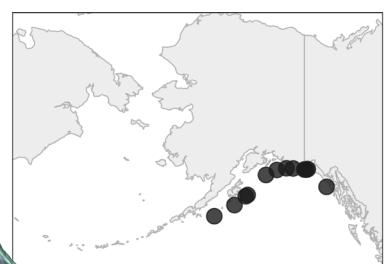
### *Eualus macrourus*

66180

Small shrimp; rostrum short, about 2/3 of carapace length, paddle-shaped, with convex upper and lower margins convex; color very pale pink or cream with yellow or greenish tinge.

**RANGE:** Aleutian Islands to California

**DEPTH:** 110-1163m **SIZE:** length to 1cm



**circumpolar eualid*****Eualus gaimardii*****66175**

Small striped shrimp; rostrum about as long as carapace; prominent lobe on third abdominal segment (hook-like in males); color white or cream, with or without reddish bands on abdomen.

**RANGE:** Circumboreal, S. to Gulf of Alaska**DEPTH:** 10-200m **SIZE:** length to 3cm**barbed eualid*****Eualus barbatus*****66171**

Small spine-tailed shrimp; rostrum longer than carapace; fourth through sixth abdominal segments with prominent barb-like posterior spines; color pale gray or whitish with pale orange stripes.

**RANGE:** Bering Sea to Oregon**DEPTH:** 80-510m **SIZE:** length to 1cm**Arctic eualid*****Eualus fabricii*****66174**

Small, pale shrimp; rostrum about as long as carapace, lacking spines on upper side in front of eyes; color pale pink stippled or blotched with red.

**RANGE:** Circumboreal, S. to British Columbia**DEPTH:** 4-255m **SIZE:** length to 1cm**shortscale eualid*****Eualus suckleyi*****66193**

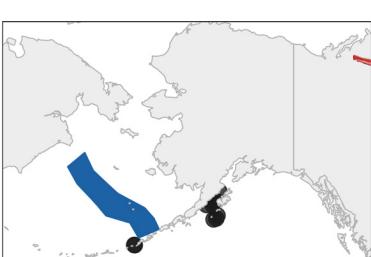
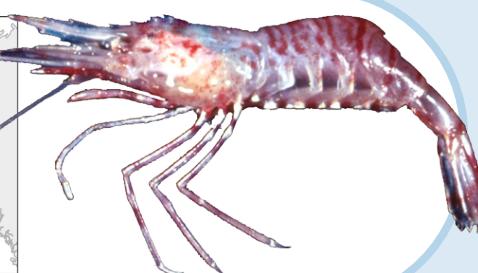
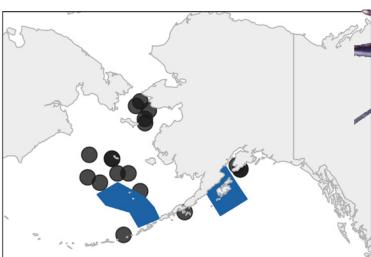
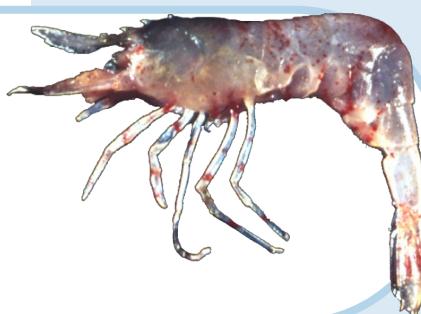
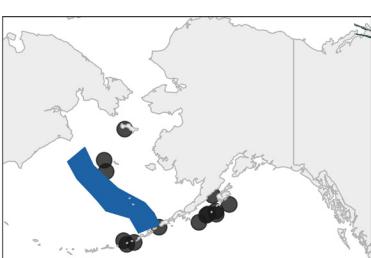
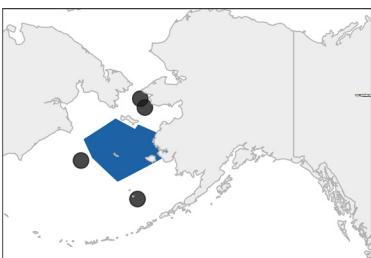
Small striped shrimp; rostrum about as long as carapace; fourth abdominal segment with small lateral spine; color gray with narrow red stripes on abdomen and scattered red speckles; legs white or yellow with red bands.

**RANGE:** Chukchi Sea to Washington**DEPTH:** 10-1025m **SIZE:** length to 1cm**deepsea eualid*****Eualus biunguis*****66190**

Small shrimp; rostrum as long or longer than carapace and lacking spines on distal third; eyes large; color yellowish or greenish with red patches.

**RANGE:** Bering Sea to Oregon**DEPTH:** 90-2100m **SIZE:** length to 1cm**slenderbeak coastal shrimp*****Heptacarpus flexus*****66302**

Small shrimp; body slender, third abdominal segment with distinctive medial keel ending in a posterior spine; rostrum slender, about as long carapace; color gray with red-orange mottling and fine yellow specks; rostrum transparent with reddish bands.

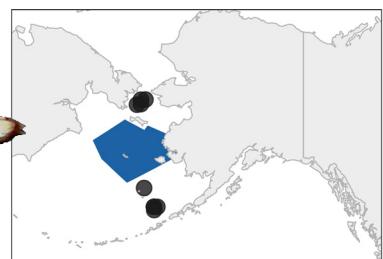
**RANGE:** Chukchi Sea to California**DEPTH:** 18-170m **SIZE:** length to 1.5cm

**Rathbun blade shrimp*****Spirontocaris arcuata*****66161**

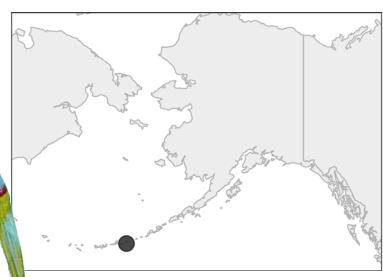
Small shrimp; body stout, rostrum shorter than carapace and very deep; carapace with four or five large dorsal spines, extending to nearly to the posterior edge; posterior margin of third abdominal segment with pronounced rounded lobe; color highly variable, combinations of red, yellow and white.

**RANGE:** Arctic Ocean to Washington**DEPTH:** 5-650m **SIZE:** length to 1cm**Dana blade shrimp*****Spirontocaris lamellicornis*****66163**

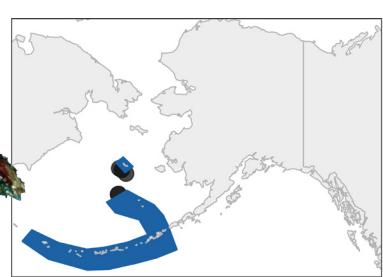
Small shrimp; body stout, rostrum shorter than carapace and very deep; carapace with four or five large dorsal spines, extending to near posterior edge; posterior margin of third abdominal segment with a pronounced spine; color variable, combinations of white, reddish and brown.

**RANGE:** Bering Sea to California**DEPTH:** 3-200m **SIZE:** length to 1.5cm**candy stripe shrimp*****Lebbeus grandimanus*****66201**

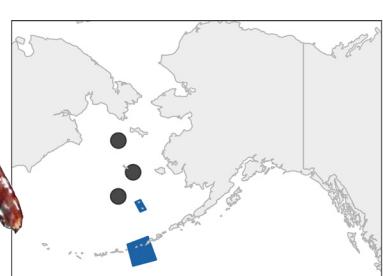
Small shrimp; body relatively stout, rostrum little more than half of carapace length, rather slender; dorsal spines not extending to mid-point of carapace; color transparent to milky, with yellow, red and blue or purple lines.

**RANGE:** Bering Sea to Washington**DEPTH:** 6-180m **SIZE:** length to 1cm**spiny lebbeid*****Lebbeus groenlandicus*****66203**

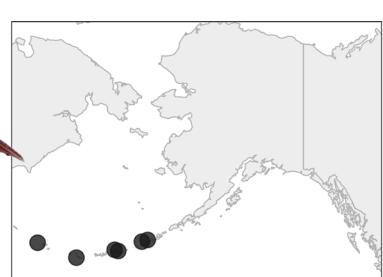
Medium-sized shrimp; body stout; rostrum shorter than carapace, slender; four large, prominent dorsal spines; pleura with sharp triangular spine on ventral edge; color orange-brown or cream with reddish-brown bands and mottling.

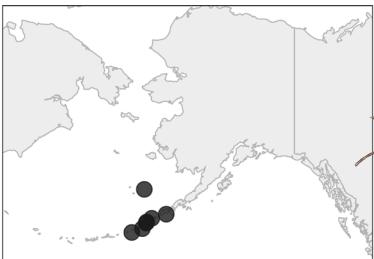
**RANGE:** Bering Sea to Washington**DEPTH:** 10-520m **SIZE:** length to 3cm***Lebbeus polaris*****66204**

Medium-sized shrimp; body relatively stout; rostrum fairly deep, about as long as carapace; three low, small spines on anterior half of carapace; color pink with tiny red spots on carapace and abdomen.

**RANGE:** Arctic Ocean to Gulf of Alaska**DEPTH:** 0-930m **SIZE:** length to 3cm**slope lebbeid*****Lebbeus washingtonianus*****66206**

Medium-sized shrimp; body relatively slender; rostrum fairly deep, about as long as carapace; two spines on rostrum and three small spines on anterior half of carapace; color ivory white to pinkish red.

**RANGE:** Aleutian Islands to Mexico**DEPTH:** 460-1808m **SIZE:** length to 5cm



### common argid

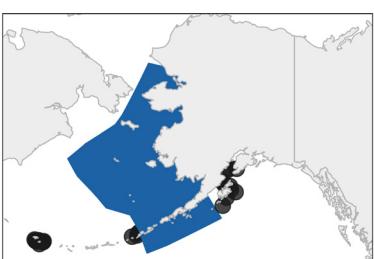
*Argis alaskensis*

66575

Medium-sized slender shrimp; carapace with four median dorsal spines; sixth abdominal segment with keels extending beyond rear edge of segment; color cream with dark tan or brown chevrons across carapace and abdomen.

**RANGE:** Bering Sea to Oregon

**DEPTH:** 18-220m **SIZE:** length to 2cm



### Arctic argid

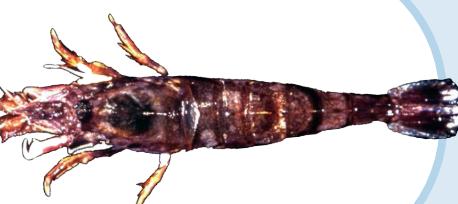
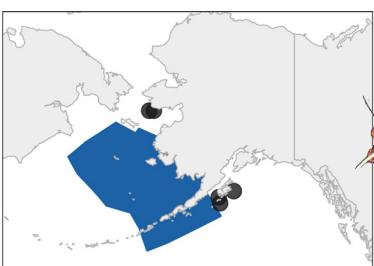
*Argis dentata*

66580

Medium-sized stout shrimp; carapace with two median dorsal spines; keels on sixth abdominal segment not convergent, extending beyond rear edge of segment and ending in knob or spine; color cream with fine dark speckling and dark brown chevrons across carapace and abdomen.

**RANGE:** Circumboreal, S. to Gulf of Alaska

**DEPTH:** 0-200m **SIZE:** length to 4cm



### kuro argid

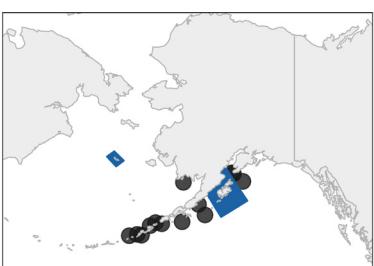
*Argis lar*

66611

Medium-sized stout shrimp; carapace with two median dorsal spines; keels of sixth abdominal not extending past rear edge of segment; color purple-gray to brown with darker chevrons across carapace and abdomen.

**RANGE:** Chukchi Sea to British Columbia

**DEPTH:** 10-280m **SIZE:** length to 4cm



### Nelson argid

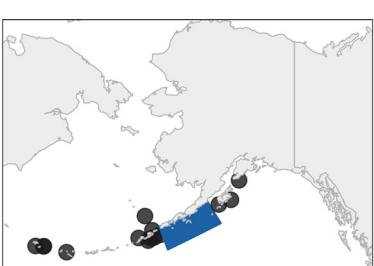
*Argis levior*

66613

Medium-sized stout shrimp; carapace with three median dorsal spines; color gray and brown mottled with white spots, dark chevron on rear edge of abdominal segment four, and dark brown sixth segment.

**RANGE:** Aleutian Islands to California

**DEPTH:** 18-80m **SIZE:** length to 2cm



### split-eye argid

*Argis ovifer*

66614

Medium-sized, stout shrimp; carapace with two median dorsal spines; keels on sixth abdominal segment convergent, extending slightly past rear edge of segment; color cream with orange-brown chevrons across carapace and abdominal segments.

**RANGE:** Bering Sea to British Columbia

**DEPTH:** 100-675m **SIZE:** length to 2cm

## shell shrimp

### *Crangon alaskensis*

66512

Small slender shrimp; carapace with one median dorsal spine on anterior half; abdominal segments without distinct median dorsal keels; color gray or gray-brown with irregular dark blotches.



RANGE: Bering Sea to Mexico

DEPTH: 0-257m SIZE: length to 1cm

## ridged Crangon

### *Crangon dalli*

66530

Small slender shrimp; carapace with a single median dorsal spine; third through fifth abdominal segments smoothly rounded, sixth segment with two prominent keels; color gray or gray-brown with fine speckling, tail dark brown.



RANGE: Chukchi Sea to Washington

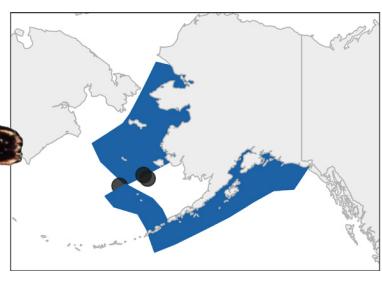
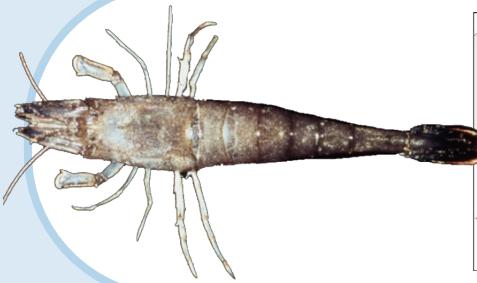
DEPTH: 3-630m SIZE: length to 3cm

## sevenspine bay shrimp

### *Crangon septemspinosa*

66548

Small slender shrimp; carapace with one median dorsal spine; third through fifth abdominal segments rounded, but slightly keeled, sixth segment with two very weak keels; color gray or gray-brown with fine speckling; tail black.



RANGE: Bering Sea to Gulf of Alaska

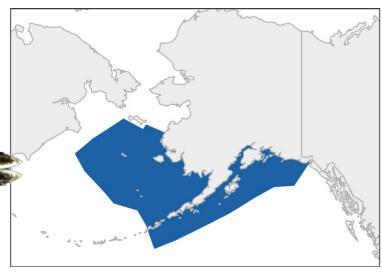
DEPTH: 0-440m SIZE: length to 3cm

## twospine Crangon

### *Neocrangon communis*

66515

Small slender shrimp; carapace with two median dorsal spines on anterior half; third to fifth abdominal segments with distinct medial dorsal keels, sixth segment with two prominent keels; color gray or gray-brown with irregular dark blotches, fourth abdominal segment with dark mark on dorsal, rear margin.



RANGE: Chukchi Sea to California

DEPTH: 16-1537m SIZE: length to 1cm

**deepsea spinyhead***Metacrangon variabilis*

66535

Small stout shrimp; rostrum short, sharp, upturned; carapace with three prominent spines; third to fifth abdominal segments with medial ridges; color reddish-brown and white or gray.

**RANGE:** Bering Sea to California**DEPTH:** 90-1300m **SIZE:** length to 1cm**sculptured shrimp***Sclerocrangon boreas*

66601

Large tank-like shrimp; rostrum short, with three prominent spines; prominent dorsal ridge on abdominal segments; color brown and white.

**RANGE:** Chukchi Sea to Washington**DEPTH:** 0-370m **SIZE:** length to 4cm**saddleback shrimp***Rhynocrangon alata*

66602

Small tank-like shrimp; rostrum very short, upturned, with two low spines; third abdominal segment with very large hump; color and pattern variable, with combinations of brown, white, gray and pink.

**RANGE:** Bering Sea to California**DEPTH:** 10-170m **SIZE:** length to 1cm**spiked shrimp***Rhynocrangon sharpi*

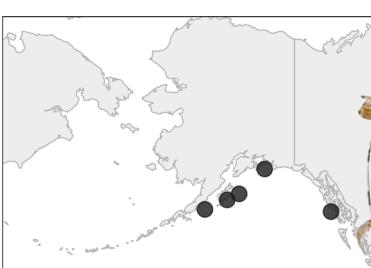
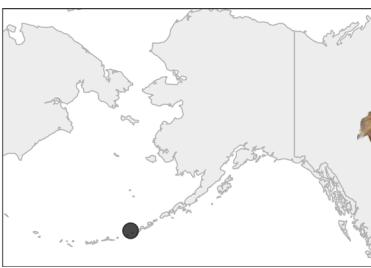
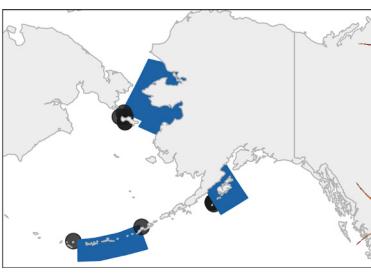
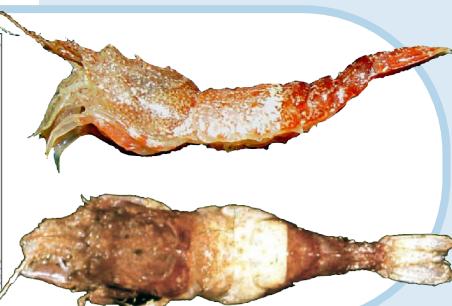
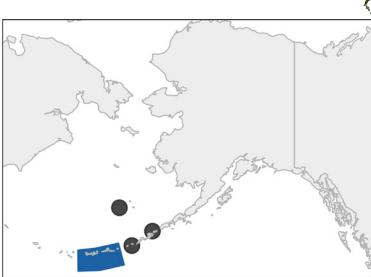
66604

Small spiny shrimp; rostrum very short, pointed; carapace with four large dorsal spines, the first directly above base of rostrum; third abdominal segment with prominent hump; color cream mottled with brown and sometimes yellow, usually with small patches of rusty orange with small blue spots.

**RANGE:** Bering Sea, Aleutian Islands**DEPTH:** 64-274m **SIZE:** length to 1cm**horned shrimp***Paracrangon echinata*

66615

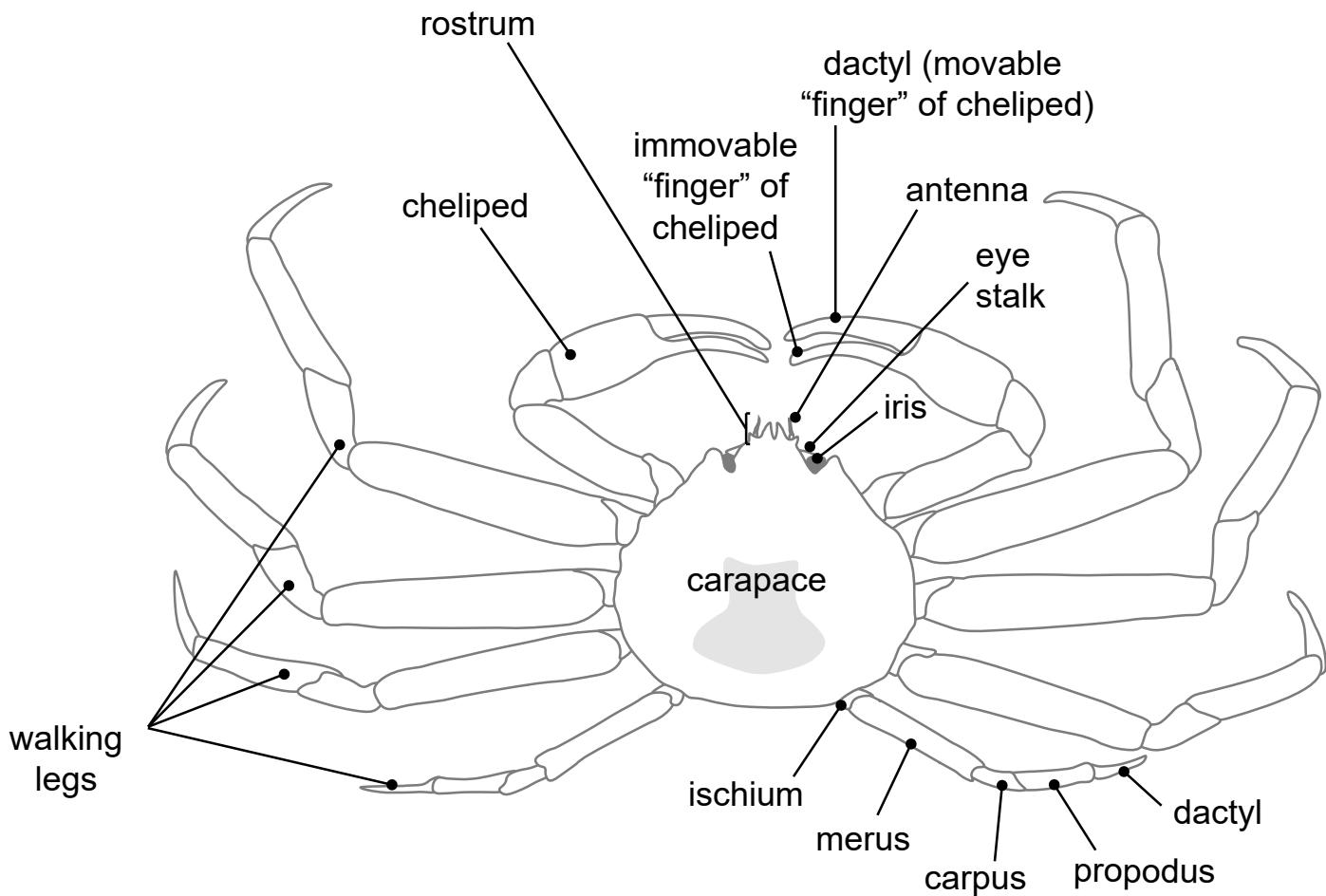
Small spiny shrimp; rostrum sharp, upturned, about as long as carapace; carapace and abdomen with large spines; color light brown.

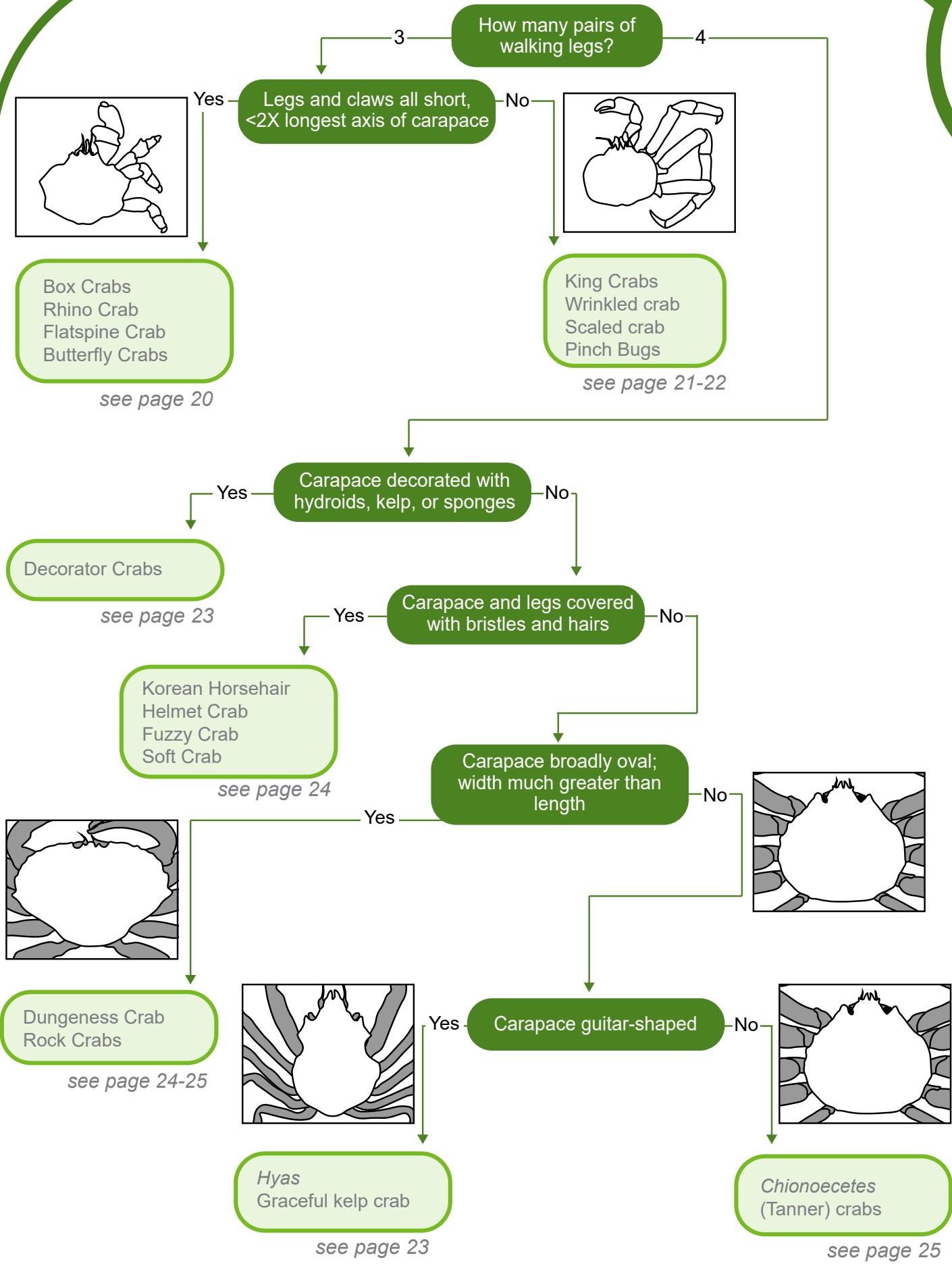
**RANGE:** Gulf of Alaska to California**DEPTH:** 7-201m **SIZE:** length to 2cm

# CRABS

Minimum ID: Species

CRABS





**brown box crab*****Echidnocerus foraminatus* 69270**

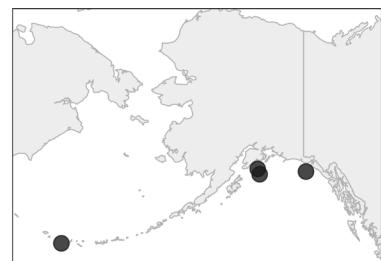
Large rock-like crabs; legs short, stubby, fitting tightly against body; margins of first two legs forming a large rounded hole; color light reddish-brown with cream patches.

**RANGE:** Aleutian Islands to California  
**DEPTH:** 0-550m **SIZE:** width to 20cm

**red box crab*****Echidnocerus cibarius* 69280**

Large rock-like crabs; legs short, stubby, fitting tightly against body; margins of first two of legs not forming a large round hole; color mottled, red, orange and purple.

**RANGE:** Gulf of Alaska to California  
**DEPTH:** 0-200m **SIZE:** width to 30cm

**rhinoceros crab*****Rhinolithodes wosnessenskii* 69317**

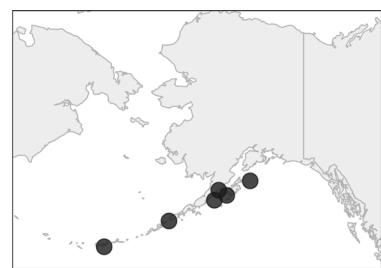
Small triangular crabs; carapace with two deep, semi-circular depressions; corners blunt, knob-like; color purple-gray to light brown with white and orange markings.

**RANGE:** Aleutian Islands to California  
**DEPTH:** 0-75m **SIZE:** width to 6.5cm

**flatspine triangle crab*****Phyllolithodes papillosum* 69318**

Medium-sized crabs; carapace roughly heart-shaped, edges with large more or less flattened projections; legs covered with long, stout spines; color mottled with red, white, black and orange-brown.

**RANGE:** Aleutian Islands to California  
**DEPTH:** 0-200m **SIZE:** width to 9cm

**umbrella crab*****Cryptolithodes sitchensis* 69327**

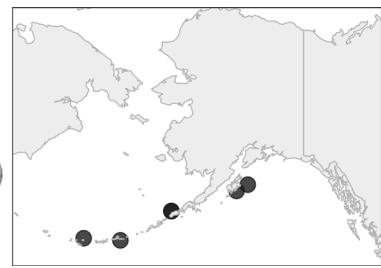
Small cryptic crabs; carapace very broad, completely covering legs; end of rostrum distinctly broader than base, and forming two deep notches at base; color variable, marked with red, orange, white, purple, pink, gray and other colors.

**RANGE:** Aleutian Islands to California  
**DEPTH:** 0-20m **SIZE:** width to 9cm

**butterfly crab*****Cryptolithodes typicus* 69328**

Small, cryptic crabs; carapace very broad, completely covering legs; rostrum broader at base than at end; color variable, marked with red, black, white and other colors.

**RANGE:** Aleutian Islands to California  
**DEPTH:** 0-50m **SIZE:** width to 8cm





### blue king crab

*Paralithodes platypus*

69323

Very large spider crabs; body and appendages covered with sharp thorns; rostrum short, medial dorsal spine followed by a pair of spines; center of carapace with two pairs of spines; color blue to dull purple-gray.

**RANGE:** Bering Sea

**DEPTH:** 10-500m **SIZE:** width to 25cm

### red king crab

*Paralithodes camtschaticus*

69322

Very large spider crabs; body and appendages covered with sharp thorns; rostrum relatively long, with a medial dorsal spine followed by a pair of spines; center of carapace with three pairs of spines; color maroon, reddish or purplish.

**RANGE:** Chukchi Sea to British Columbia

**DEPTH:** 3-400m **SIZE:** width to 28cm

### scarlet king crab

*Lithodes couesi*

69300

Very large spider crabs; body and appendages covered with sharp thorns; rostrum long, ending in a distinctive fork, followed by a pair of long spines; center region of carapace narrow, with two or three pairs of spines; margin of carapace with two or three pairs of very long spines (sometimes absent); color scarlet, pink or white, carapace often different from legs.

**RANGE:** Bering Sea to California

**DEPTH:** 250-1850m **SIZE:** width to 15cm

### golden king crab

*Lithodes aequispinus*

69310

Very large spider crabs; body and appendages covered with sharp thorns; rostrum long, ending in two spines followed by three spines, and usually additional spines; center of carapace with five to nine spines; marginal spines of carapace about equal in size; color dark golden-brown to reddish tan.

**RANGE:** Bering Sea to British Columbia

**DEPTH:** 50-1000+m **SIZE:** width to 23cm

### Hanasaki king crab

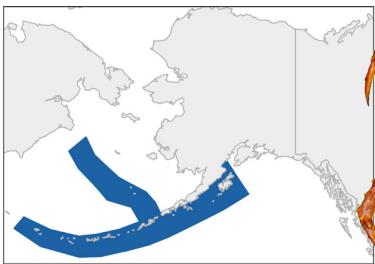
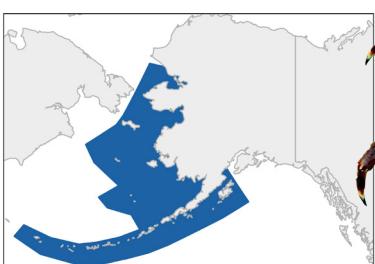
*Paralithodes brevipes*

69320

Large spider crabs; body and appendages covered with sharp thorns; rostrum ending in a downward projecting knob, with a pair of medial spines, and sometimes a single central spine between knob and the paired spines; center of carapace with two pairs of spines; base of each antenna with spiny outgrowth; color mottled reddish.

**RANGE:** Bering Sea, Aleutian Islands

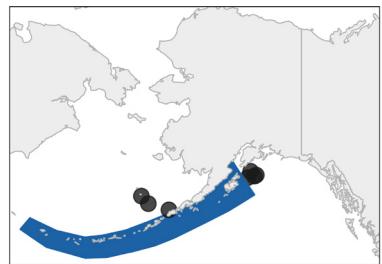
**DEPTH:** 0-50m **SIZE:** width to 15cm



**scaled crab*****Placetron wosnessenskii*****69336**

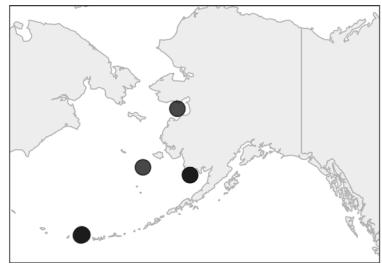
Large spider crabs; body and appendages covered with scale-like plates; color greenish-gray to reddish-brown or tan, usually with dark brown banding on legs.

**RANGE:** Bering Sea to Washington  
**DEPTH:** 5-110m    **SIZE:** width to 7cm

**wrinkled crab*****Dermaturus mandtii*****69312**

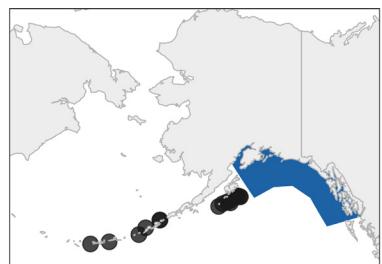
Small flat crabs; claws unequal in size, with prominent ring-like annulations; color dark gray or brown.

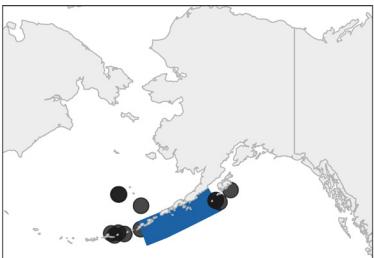
**RANGE:** Bering Sea to SE Alaska  
**DEPTH:** 0-72m    **SIZE:** width to 2.3cm

**pinchbug*****Grimothea quadrispina*****69556**

Small galatheid crabs; carapace with transverse folds or wrinkles; rostrum a single relatively long, slender spine with single much shorter basal spine on each side; eyes large, black; chelae about three times carapace length; color red to red-orange with white banding on legs.

**RANGE:** Bering Sea to Mexico  
**DEPTH:** 12-1460m    **SIZE:** width to 3cm





### split-nose decorator crab

*Oregonia bifurca*

68502

Small spider crabs; carapace relatively large; legs and claws rather short, slender; rostral spines short, divergent; eye stalks short, stout; color pink to light brown.

**RANGE:** Aleutian Islands

**DEPTH:** 0-500m **SIZE:** length to 3cm



### graceful decorator crab

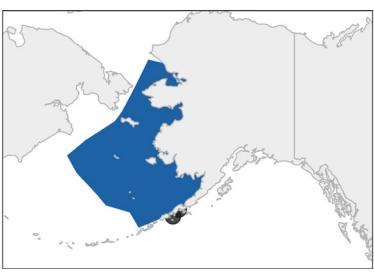
*Oregonia gracilis*

68510

Medium-sized spider crabs; carapace small, usually camouflaged with sponges, hydroids and other bottom debris; legs very long, slender; claws very long, longer than legs; rostral spines long, slender, parallel; eye stalks slender; color gray or light brown.

**RANGE:** Bering Sea to California

**DEPTH:** 0-390m **SIZE:** length to 5cm



### circumboreal toad crab

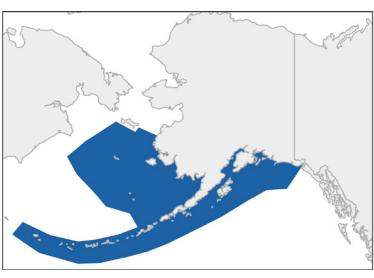
*Hyas coarctatus*

68577

Medium-sized spider crabs; carapace relatively large; forward lateral projection of carapace rounded, lacking posterior spine; color maroon marked with white and orange.

**RANGE:** Chukchi Sea to Bering Sea

**DEPTH:** 10-682m **SIZE:** length to 8cm



### Pacific lyre crab

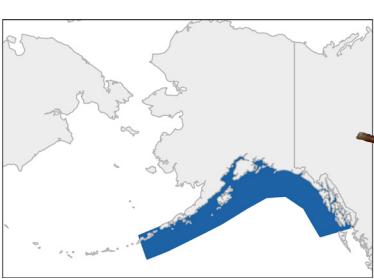
*Hyas lyratus*

68578

Medium-sized spider crabs; carapace relatively large; forward lateral projection of carapace with prominent, posterior spine; color brown, marked with white and orange.

**RANGE:** Bering Sea to Washington

**DEPTH:** 10-640m **SIZE:** length to 8cm



### graceful kelp crab

*Pugettia gracilis*

69531

Small spider crabs; carapace rather smooth, lateral edges with large triangular spines; rostral spines large; dactyl of claws with large molar; color reddish and olive, often with blue on claws.

**RANGE:** Aleutian Islands to California

**DEPTH:** 0-367m **SIZE:** length to 6cm



### longhorned decorator crab

*Chorilia longipes*

68520

Small spider crabs; carapace with spaced, short tubercles or spines; rostral spines relatively long, stout, sharp, divergent; color pink.

**RANGE:** Gulf of Alaska to California

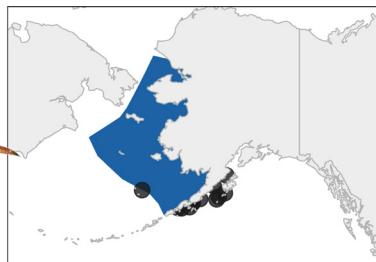
**DEPTH:** 30-1200m **SIZE:** length to 6cm

**helmet crab*****Telmessus cheiragonus***

68781

Large hairy crab; carapace large, wider than long, lateral edge posterior to eyes with six spines; color yellowish or golden-brown with red speckles, tips of claws black.

**RANGE:** Chukchi Sea to Washington  
**DEPTH:** 0-110m **SIZE:** length to 10cm

**horsehair crab*****Erimacrus isenbeckii***

69400

Large hairy crabs; carapace relatively large, longer than wide, with seven marginal spines posterior to the eyes; color reddish brown to brown.

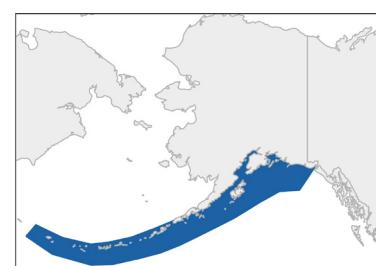
**RANGE:** Bering Sea to Gulf of Alaska  
**DEPTH:** 2-350m **SIZE:** length to 13cm

**fuzzy crab*****Acantholithodes hispidus***

69285

Medium sized, hirsute crabs; carapace rounded marginally; body and appendages covered with sharp spines tipped with hairs; body mottled, legs banded, with reddish-brown, orange and white.

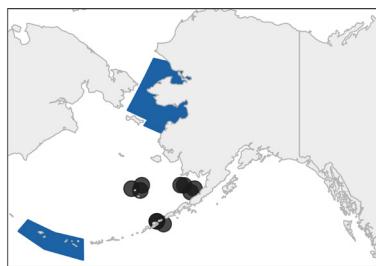
**RANGE:** Aleutian Islands to California  
**DEPTH:** 0-165m **SIZE:** width to 7cm

**soft crab*****Hapalogaster grebnitzkii***

69316

Small, soft, hairy crabs; body and appendages covered with tufts of long, rather stiff hairs; color reddish-brown to purple-gray and brown

**RANGE:** Bering Sea to British Columbia  
**DEPTH:** 0-100m **SIZE:** width to 3.5cm

**furrowed rock crab*****Romaleon branneri***

68011

Small, hairy, ovate crabs; carapace wider than long; spines on upper margin of thumb (dactyl) of claws; color mottled with red, pink, orange and white, tips of claws black.

**RANGE:** Gulf of Alaska to Mexico  
**DEPTH:** 0-80m **SIZE:** width to 6cm

**Oregon rock crab*****Glebacarcinus oregonensis***

68040

Small, stout crabs; carapace smooth or very rough, oval to nearly round; claws large, smooth; color reddish, brown, orange or white, often mottled, claw tips black.

**RANGE:** Bering Sea to California  
**DEPTH:** 0-440m **SIZE:** width to 5cm



**Dungeness crab***Metacarcinus magister*

68020

Large, ovate crabs; carapace almost twice as wide as long, widest at last (or 10th) tooth; walking legs broad, flattened; ridges on claws rough; color brown and purple.

**RANGE:** SE Bering Sea to California  
**DEPTH:** 0-230m **SIZE:** width to 27cm

**Tanner crab***Chionoecetes bairdi*

68560

Large spider crabs; carapace relatively small, lacking central groove; spines in row above carapace margin unequal in size and spacing; rostrum upturned; epistome ("teeth") M-shaped; color pink to brown, eyes usually red.

**RANGE:** Bering Sea to Oregon  
**DEPTH:** 5-475m **SIZE:** width to 19cm

**snow crab***Chionoecetes opilio*

68580

Large spider crabs; carapace relatively small, lacking central groove; spines in row above carapace margin equal in size and spacing; rostrum not upturned; epistome ("teeth") straight; color tan to brown, eyes green or gray-green.

**RANGE:** Chukchi Sea to Gulf of Alaska  
**DEPTH:** 5-800m **SIZE:** width to 15cm

**grooved Tanner crab***Chionoecetes tanneri*

68550

Large spider crabs; carapace relatively small, with distinctive, narrow groove in central region (most pronounced in large individuals); color orange to orange-brown.

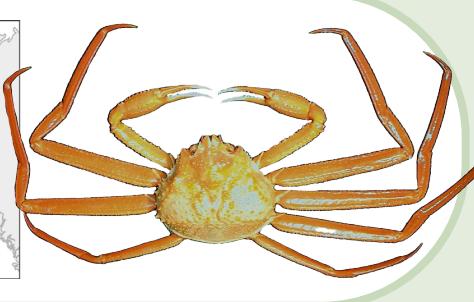
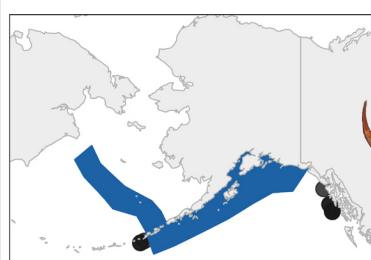
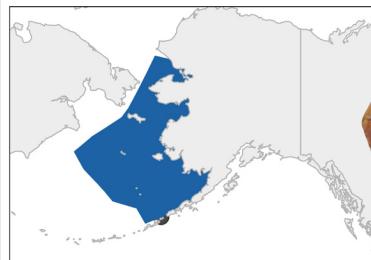
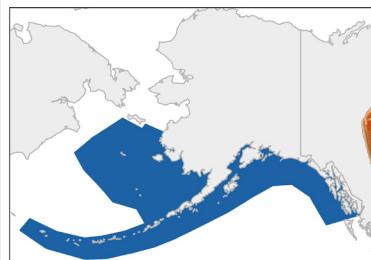
**RANGE:** Bering Sea to Mexico  
**DEPTH:** 50-2000m **SIZE:** width to 15cm

**triangle Tanner crab***Chionoecetes angulatus*

68570

Large spider crabs; carapace relatively small, with broad central groove bearing a central spinose ridge; color orange to red-orange.

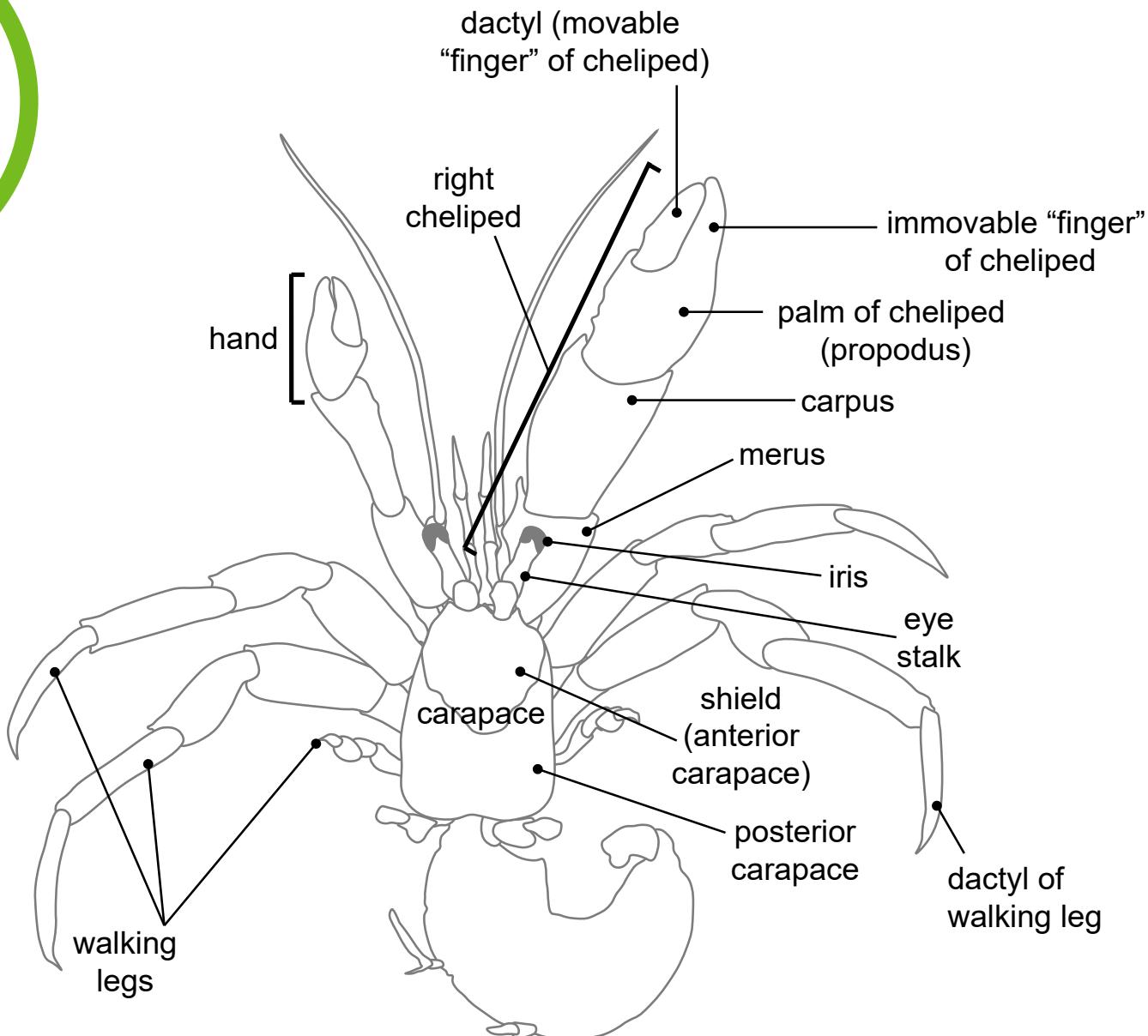
**RANGE:** Bering Sea to Oregon  
**DEPTH:** 90-3000m **SIZE:** width to 15cm



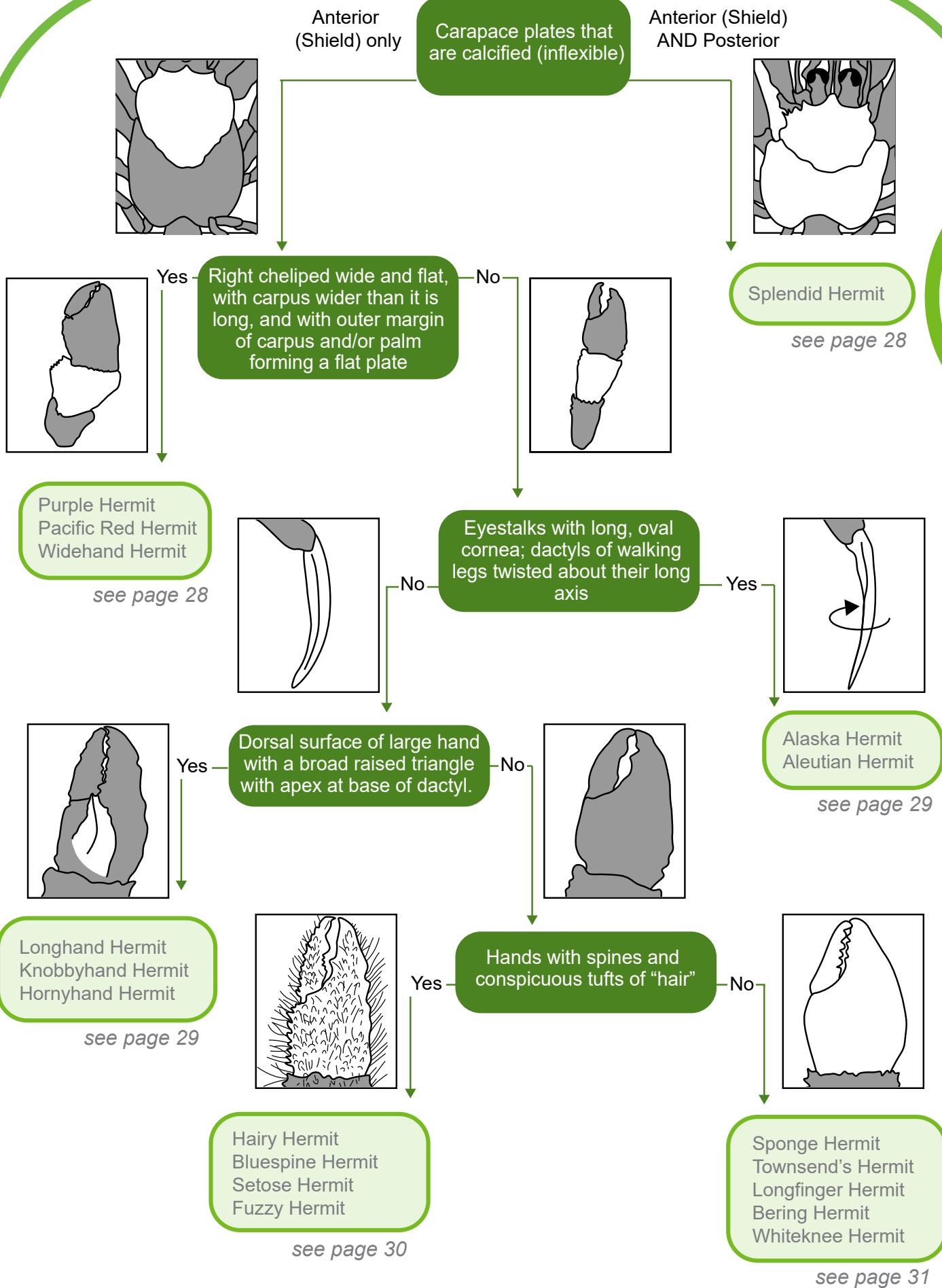
# HERMIT CRABS

Minimum ID: Species

HERMIT CRABS



## HERMIT CRABS



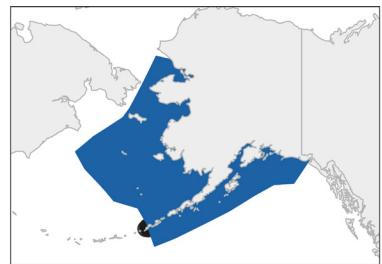
**splendid hermit*****Labidochirus splendescens***

69061

Medium sized hermit crabs; legs long and slender; carapace hard; shell small, just large enough to cover abdomen; color pink or lavender with iridescent sheen.

**RANGE:** Arctic Ocean to Washington

**DEPTH:** 3-420m **SIZE:** length to 3cm

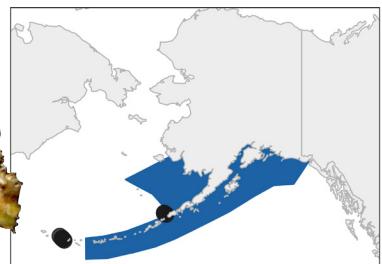
**widehand hermit crab*****Elassochirus tenuimanus***

69110

Medium sized hermit crabs; right claw greatly expanded and flattened; color reddish-brown to tan, merus of legs and claws blue.

**RANGE:** Aleutian Islands to Washington

**DEPTH:** 1-400m **SIZE:** length to 4cm

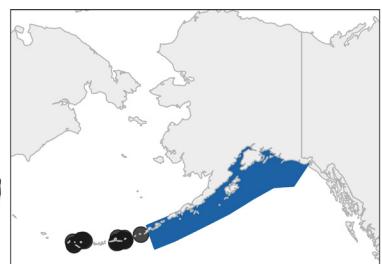
**Pacific red hermit*****Elassochirus gilli***

69122

Medium sized hermit crabs; similar to *E. cavimanus*, but nearly uniformly colored; color bright red-orange, teeth of claw white.

**RANGE:** Bering Sea to Washington

**DEPTH:** 0-200m **SIZE:** length to 4cm

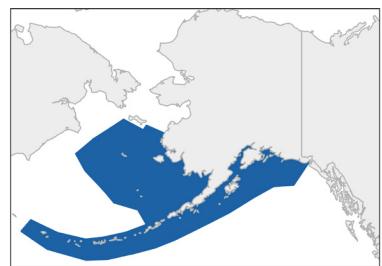
**purple hermit*****Elassochirus cavimanus***

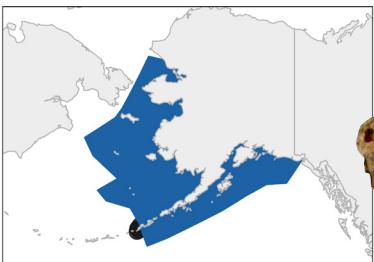
69121

Medium sized hermit crabs; claw and carpus of right claw broad, compressed; color carpus and merus of claws purple.

**RANGE:** Bering Sea to Washington

**DEPTH:** 25-260m **SIZE:** length to 4cm





### Alaskan hermit

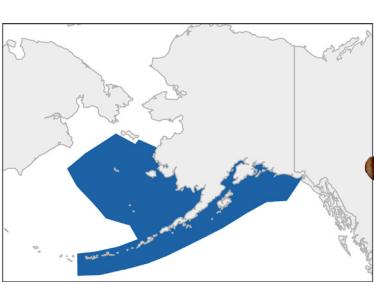
*Pagurus ochotensis*

69090

Large hermit crabs; distinctive maroon stripe under dactyl of cheliped; eyes large, yellow-green; color whitish, propodus and carpus of claws brassy, merus of claws with iridescent purple or maroon areas.

**RANGE:** Bering Sea to California

**DEPTH:** 0-388m **SIZE:** length to 5cm



### Aleutian hermit

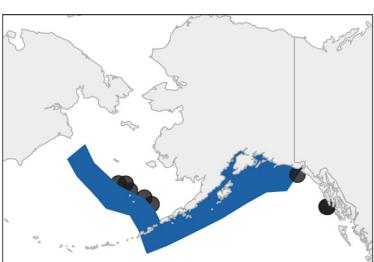
*Pagurus aleuticus*

69060

Large hermit crabs; right claw moderately flattened, with a small but prominent saw-like ridge on its outside edge; color uniformly orange to red-brown.

**RANGE:** Bering Sea to California

**DEPTH:** 15-435m **SIZE:** length to 5cm



### hornyhand hermit

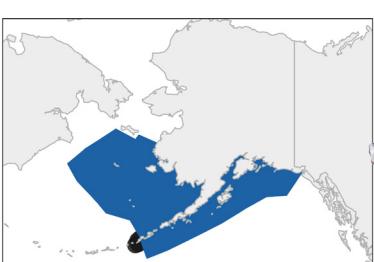
*Pagurus cornutus*

69080

Large hermit crabs; right claw less than twice as long as wide and bearing a prominent horn-like projection; color uniformly pale orange to red or red-brown.

**RANGE:** Bering Sea to Oregon

**DEPTH:** 160-830m **SIZE:** length to 5cm



### knobbyhand hermit

*Pagurus confragosus*

69070

Large hermit crabs; right claw broad, less than twice as long as wide, with a prominent knob; ridge on right claw extending onto finger as flattened plateau; color mottled reddish or brown.

**RANGE:** Bering Sea to Oregon

**DEPTH:** 55-435m **SIZE:** length to 5cm



### longhand hermit

*Pagurus tanneri*

69100

Medium-sized hermit crabs; right claw elongated, more than twice as long as wide, without prominent knob or horn; ridge on right claw extending onto finger as a slender crest; color reddish, sometimes mottled with brown.

**RANGE:** Bering Sea to California

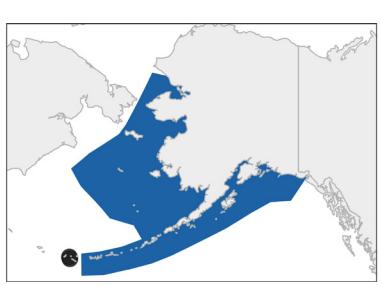
**DEPTH:** 91-1372m **SIZE:** length to 4cm

**bluespine hermit*****Pagurus kennerlyi*****69085**

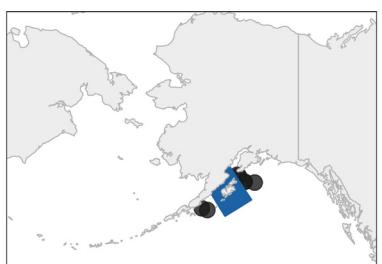
Large hermit crabs; claws with prominent spines; color mottled, reddish-brown and cream or tan with light blue spines.

**RANGE:** Bering Sea to Washington**DEPTH:** 0-274m **SIZE:** length to 5cm**fuzzy hermit crab*****Pagurus trigonocheirus*****69086**

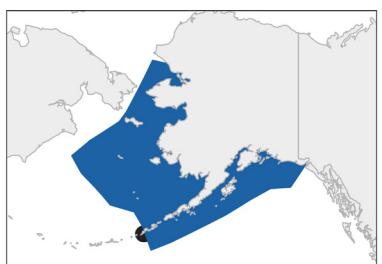
Large hermit crabs; claws usually covered with fine hair-like setae, resembling a golden-brown fuzz, especially in adults; carpus of right claw about one and one half times as long as wide; color cream to tan.

**RANGE:** Arctic Ocean to Aleutian Is.**DEPTH:** 0-182m **SIZE:** length to 5cm**setose hermit*****Pagurus setosus*****69097**

Large hermit crabs; right claw robust, less than twice as long as wide, claw fingers wide, with tufts of long setae around minute to large spines; ridges absent on claws; color brown to light red, muddy setae often obscure color.

**RANGE:** Gulf of Alaska to California**DEPTH:** 9-476m **SIZE:** length to 4cm**hairy hermit crab*****Pagurus capillatus*****69120**

Medium sized hermit crabs; claws covered with dense hair-like setae that obscure the spination and usually saturated with mud; color brown or orange.

**RANGE:** Chukchi Sea to California**DEPTH:** 4-439m **SIZE:** length to 4cm

**whiteknee hermit***Pagurus dalli*

69082

Medium-sized hermit crabs; right claw relatively slender, nearly twice as long as wide, ridge absent; left claw with sharp spiny ridge; color yellow-brown, small white band between merus and carpus of chelipeds.

**RANGE:** Bering Sea to Oregon**DEPTH:** 0-276m **SIZE:** length to 4cm**Townsend hermit crab***Pagurus townsendi*

69050

Large hermit crabs; right claw rounded, without saw-like ridge on its outside edge; color uniformly orange to red-brown.

**RANGE:** Bering Sea to Gulf of Alaska**DEPTH:** 519-1143m **SIZE:** length to 5cm**sponge hermit***Pagurus brandti*

69042

Small hermit crabs; eye diameter greater than stalk diameter; claws not covered with hair-like setae; legs red with white bands, claws white.

**RANGE:** Chukchi Sea, Bering Sea**DEPTH:** 60-80m **SIZE:** length to 1cm**Bering hermit***Pagurus beringanus*

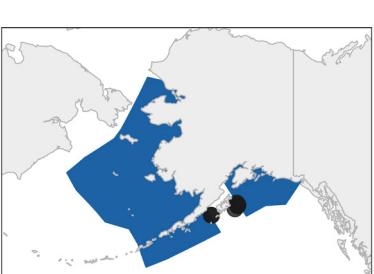
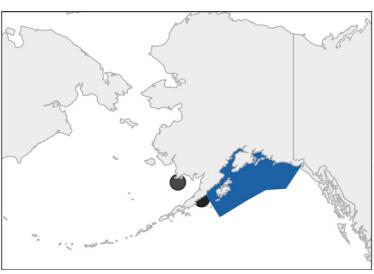
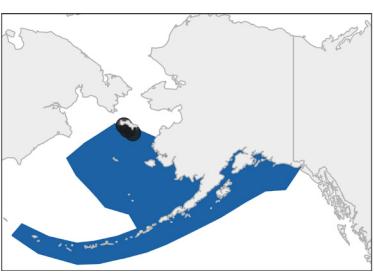
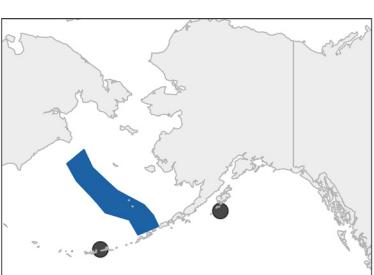
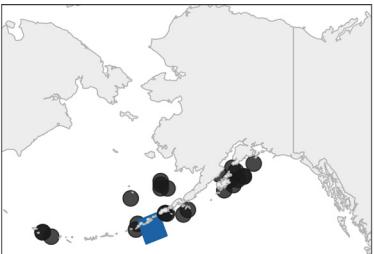
69087

Small colorful hermit crabs; distal end of claws bluntly rounded or flattened, coloration distinctive; color pale blue banded and spotted with red; propodus of claw reddish-brown.

**RANGE:** Bering Sea to California**DEPTH:** 0-364m **SIZE:** length to 2.5cm**longfinger hermit***Pagurus Rathbuni*

69095

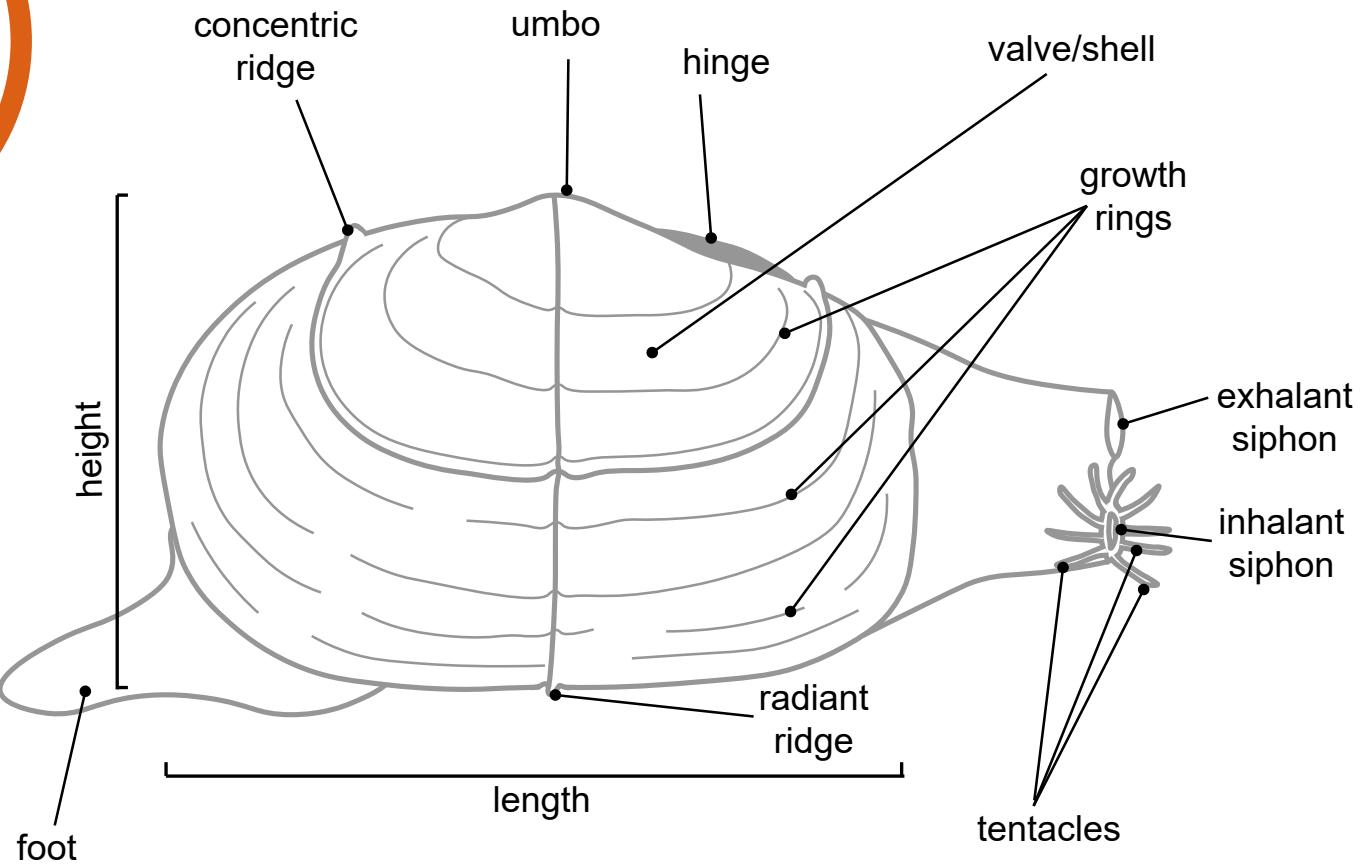
Medium-sized hermit crabs; claws long, ventrally curved; color cream to tan with light orange-brown banding.

**RANGE:** Chukchi Sea to Gulf of Alaska**DEPTH:** 9-210m **SIZE:** length to 4cm

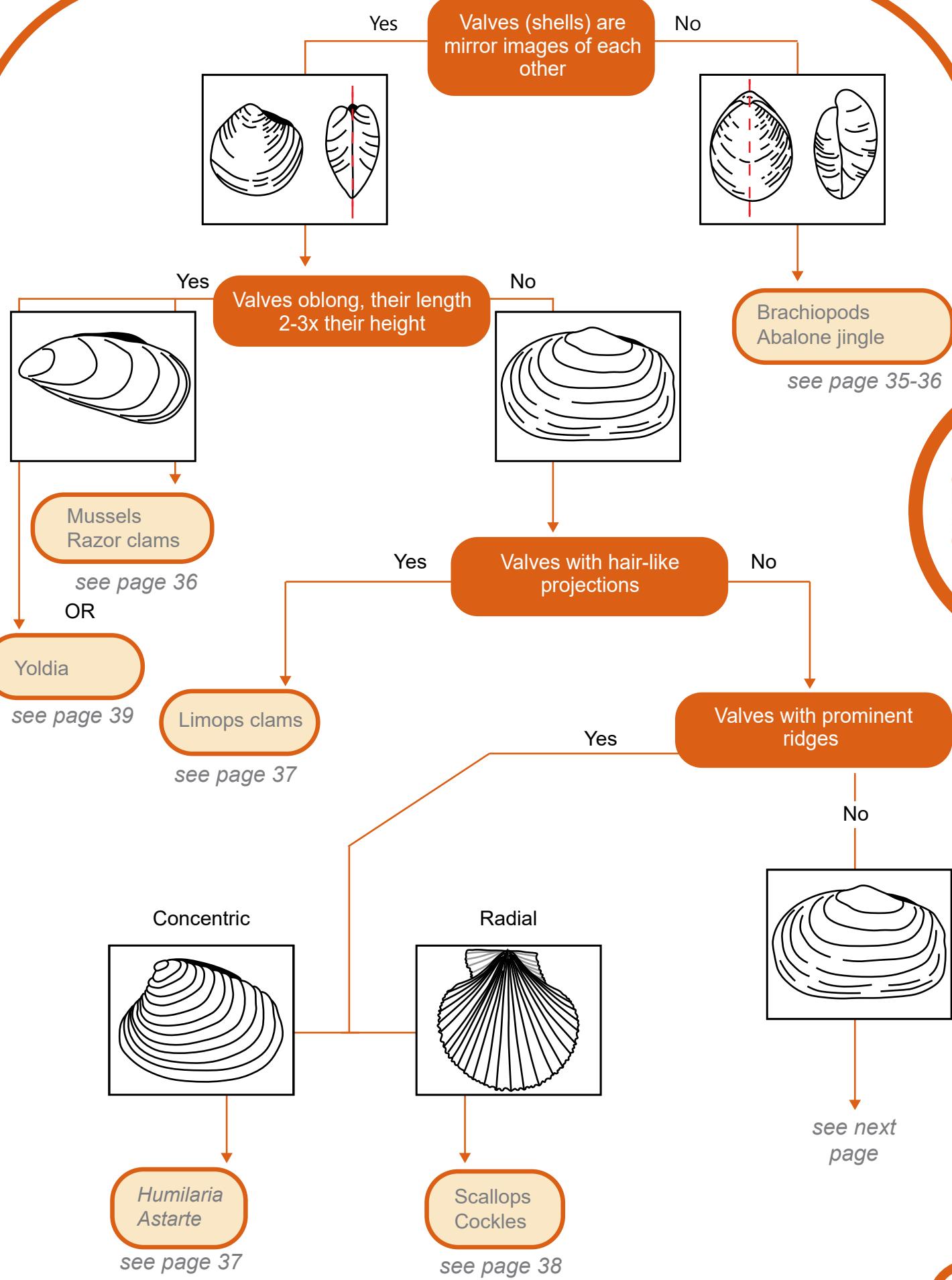
# BRACHIOPODS & BIVALVES

Minimum ID: Brachiopods: brachiopod unid.; Bivalves: Genus

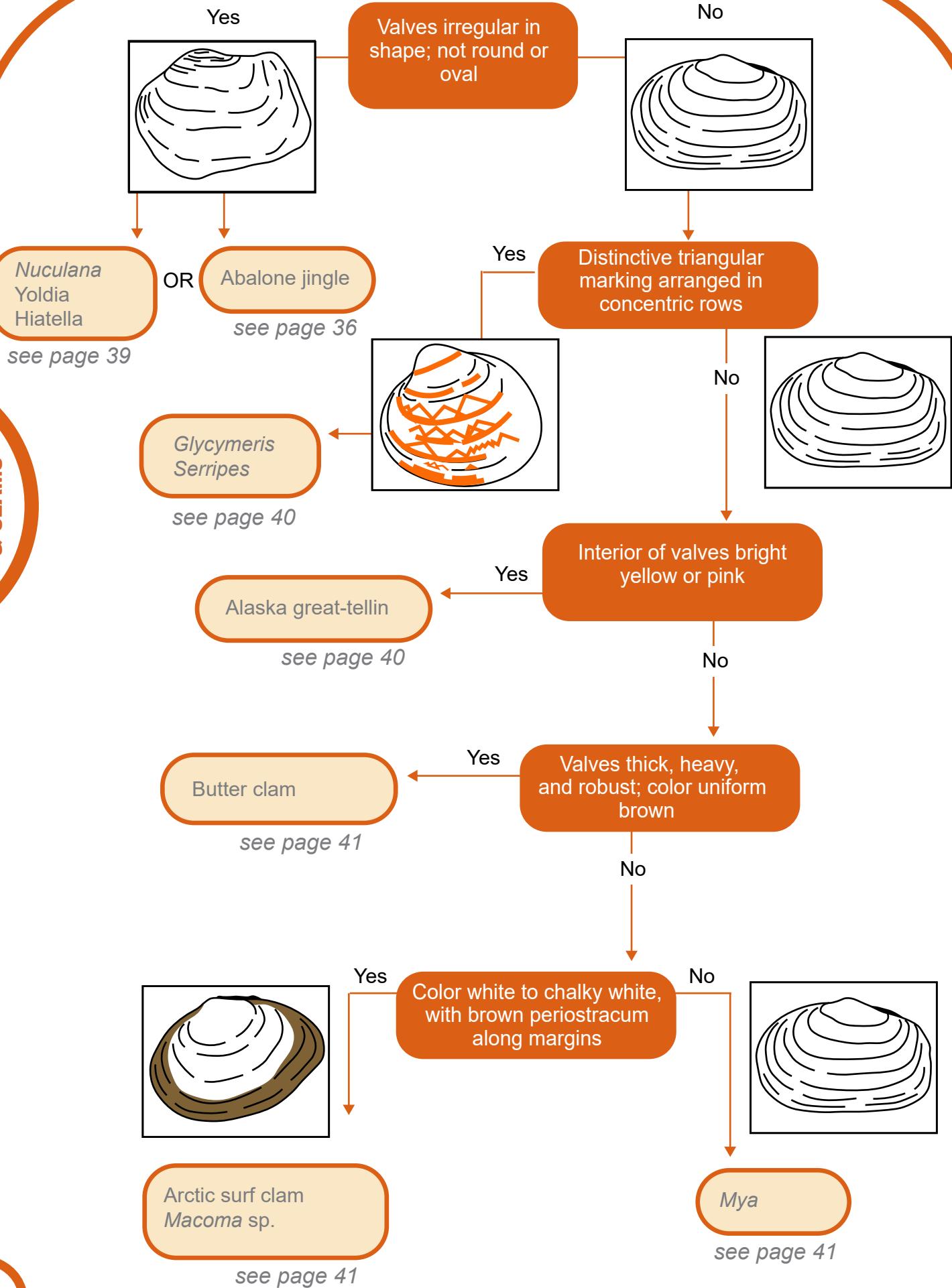
BRACHIOPODS  
& CLAMS

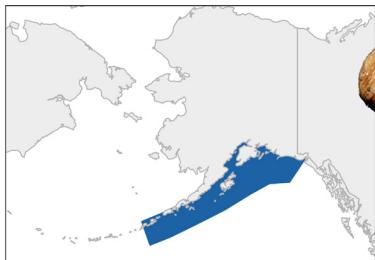


## BRACHIOPODS & CLAMS



## BRACHIOPODS & CLAMS





### common brachiopod

*Terebratalia transversa*

97110

Large variable brachiopod; valves deeply indented medially, variable in dimension, may be as long as wide or up to twice as wide as long; may be smooth or radially ribbed; pedicel very short, stout; color uniform, pale gray, tan, brown, or red-orange.

RANGE: Gulf of Alaska to California

DEPTH: 0-1800m SIZE: width to 5cm



### Hall lamp shell

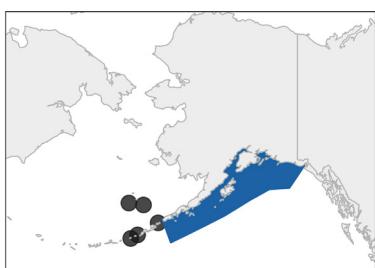
*Frieleia halli*

97111

Very small, sub-triangular brachiopod; valves very thin, fragile, inflated, sculptureless; slightly longer than wide; color translucent, very pale tan or grayish.

RANGE: Aleutian Is. to California

DEPTH: 40-2200m SIZE: length to 2cm



### snakeshead brachiopod

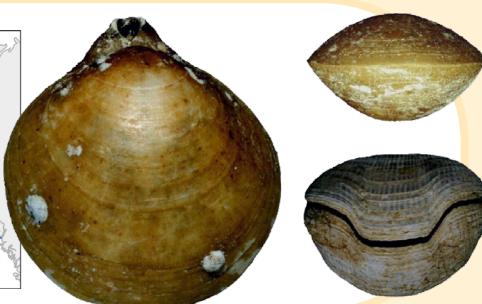
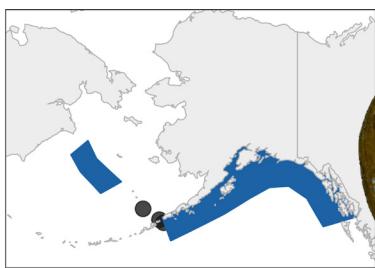
*Terebratulina unguicula*

97115

Small, teardrop-shaped brachiopod; valves thin, about twice as long as wide, bearing fine radial riblets; pedicel short, relatively thick; color white.

RANGE: Bering Sea to Mexico

DEPTH: 0-850m SIZE: length to 3cm



### California lamp shell

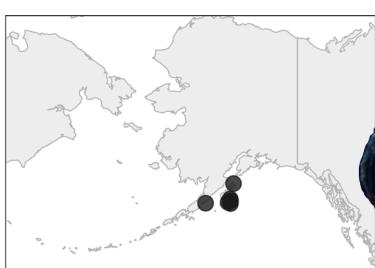
*Laqueus erythraeus*

97116

Large, smooth brachiopod; valves thin, inflated, straight (not indented), sculptureless, round to oval in outline; pedicel short, slender; color pale tan to brown or yellowish.

RANGE: Bering Sea to California

DEPTH: 0-1500m SIZE: length to 6cm



### black brachiopod

*Hemithiris psittacea*

97120

Small, sub-triangular brachiopod; valves thick, broadly indented medially and bearing weak radial riblets; pedicel very short, stout; color dark gray or black.

RANGE: Circumboreal, S. to Oregon

DEPTH: 0-1100m SIZE: length to 2cm

## abalone jingle

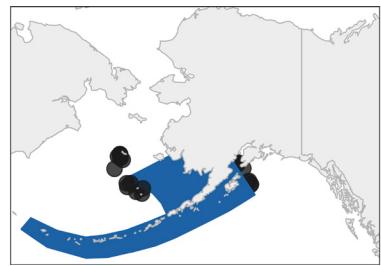
### *Pododesmus macrochisma*

75600

Large flattened shell; valves irregularly shaped, but generally more or less circular in outline; lower valve with large, rounded foramen (hole), upper valve with strong radial ribs; color white to brown exteriorly, green interiorly.

RANGE: Arctic Ocean to Gulf of Alaska

DEPTH: 0-90m SIZE: length to 12cm



## northern horse mussel

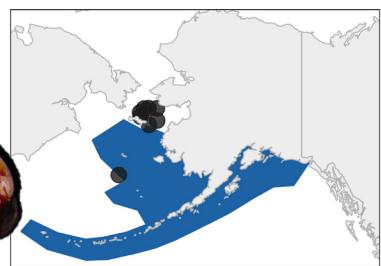
### *Modiolus modiolus*

74060

Large rhomboidal mussels; valves relatively thick, inflated, about three times as long as wide; hirsute periostracum on outer portion of valves; color pink-lavender with brown periostracum

RANGE: Circumboreal, S. to California

DEPTH: 0-200m SIZE: length to 18cm



## black mussel

### *Musculus niger*

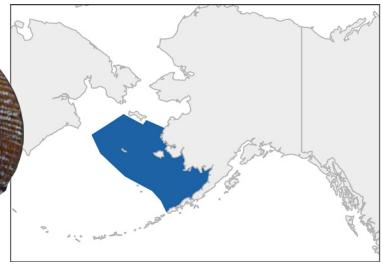
74561

Medium-sized ovate mussels; valves thin, moderately inflated, a little more than twice as long as wide, and bearing fine radial riblets; color dark brown to black

RANGE: Circumboreal, S. to

Washington

DEPTH: 0-150m SIZE: length to 8cm



## discordant mussel

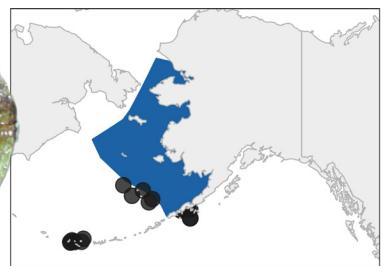
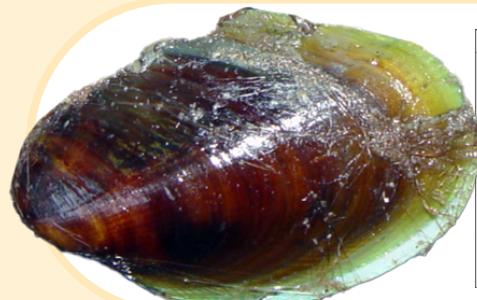
### *Musculus discors*

74562

Small oval mussels; valves thin, inflated, about twice as long as wide; anterior slope of valves with low, broad radial ribs; color white, periostracum green to dark brown.

RANGE: Circumboreal, S. to Washington

DEPTH: 5-150m SIZE: length to 5cm



## Pacific razor

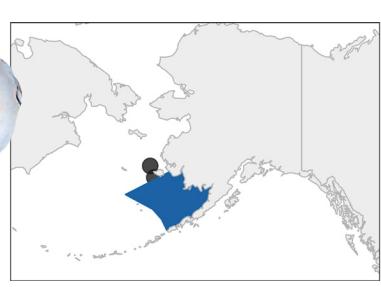
### *Siliqua patula*

75266

Large broad clam; valves thin, broad, about one third as wide as long; internal rib diagonal; color white with purple or rose radial rays, periostracum thin, glossy, olive.

RANGE: Gulf of Alaska to California

DEPTH: 0-55m SIZE: length to 19cm



## Alaska razor

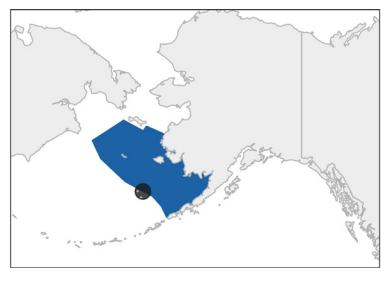
### *Siliqua alta*

75267

Large broad clam; valves thin, broad, about twice as long as wide; internal rib vertical; color white with purple or brown radial rays; periostracum relatively thick, glossy, olive to dark brown.

RANGE: Chukchi Sea to California

DEPTH: 0-85m SIZE: length to 20cm



## CLAMS



### Akutan limops

*Limopsis akutanica*

74481

Medium-sized hirsute clam; valves oval, moderately inflated, sculpture finely reticulate, posterodorsal margin not invaginated; periostracum densely hirsute; color white to tan with golden-brown periostracum.

**RANGE:** Bering Sea and Aleutian Islands  
**DEPTH:** 50-275m **SIZE:** length to 7cm



### vaginated limops

*Embleconia vaginalata*

74482

Medium-sized hirsute clam; valves oval-oblique, moderately inflated, sculpture reticulate, posterodorsal margin deeply invaginated; periostracum densely hirsute; color white with golden-brown periostracum.

**RANGE:** Bering Sea to Gulf of Alaska  
**DEPTH:** 160-650m **SIZE:** length to 4cm



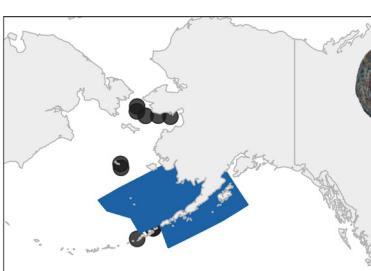
### Kennerleys venus

*Humilaria kennerleyi*

75025

Large, thick clam; valves moderately inflated, longer than wide, with prominent co-marginal ribs; color white.

**RANGE:** Gulf of Alaska to California  
**DEPTH:** 0-50m **SIZE:** width to 9.5cm



### Astarte sp.

74640

Small, rounded shell with numerous heavy co-marginal ribs; color white with olive to dark brown periostracum.

**RANGE:** Arctic Ocean to Washington  
**DEPTH:** 1-400m **SIZE:** width to 5cm

## CLAMS

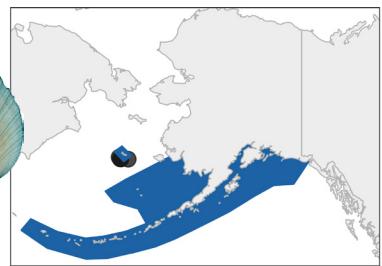
### *Chlamys* sp.

74104

Large scallops with strong radial ribs on upper valve, color variable from white to reddish brown.

RANGE: Arctic Ocean to California

DEPTH: 0-200m SIZE: length to 9cm



### weathervane scallop

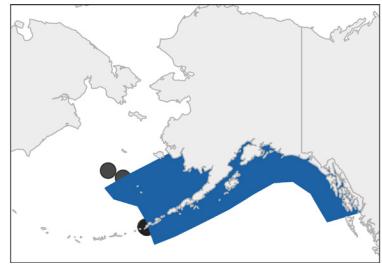
#### *Patinopecten caurinus*

74120

Very large thin scallop; valves about as long as wide, and bearing low, broad ribs particularly on the lower valve; upper valve brown to tan; lower valve paler.

RANGE: SE Bering Sea to California

DEPTH: 10-200m SIZE: length to 25cm



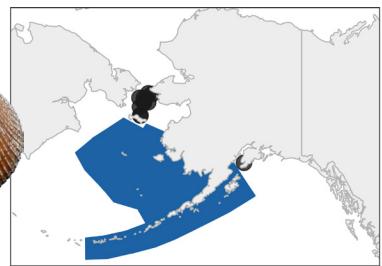
### *Clinocardium* sp.

74980

Cockles of variable size, valves inflated, with heavy radial ribs, color uniform yellow to brown with or without reddish-brown mottling.

RANGE: Bering Sea to California

DEPTH: 0-100m SIZE: width to 14cm



### hairy cockle

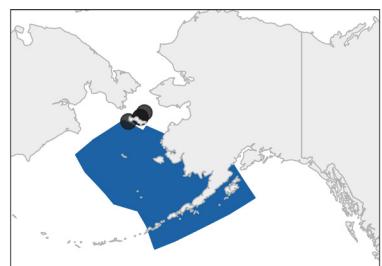
#### *Ciliatocardium ciliatum*

74983

Medium sized cockle; valves inflated, about as long as wide, with about 35 sharp, triangular radial ribs; color white with light brown periostracum forming short setae at rib crests.

RANGE: Circumboreal, S. to Vancouver Island

DEPTH: 10-150m SIZE: width to 7cm



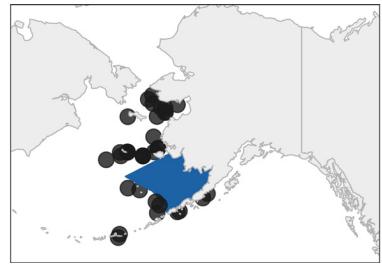
### *Cyclocardia* sp.

74656

Small oval shells; valves with 19-20 low broad, rounded radial ribs; color white with brown periostracum.

RANGE: Aleutian Islands

DEPTH: 50-100m SIZE: width to 3cm



# CLAMS

## Arctic Hiatella

*Hiatella arctica*

74311

Small, usually distorted, elongate clam; valves elongated anteriorly, sculpture of irregular growth lines; color white with thin brown periostracum.

RANGE: Arctic Ocean to Chile

DEPTH: 0-1200m SIZE: length to 5cm

## crisscrossed Yoldia

*Yoldia aeolica*

74416

Small compressed shell; valves thin, elongate, nearly equilateral, posterior end with slightly pointed rostrum, surface with oblique striae; color white with adherent, shiny yellow to dark brown periostracum.

RANGE: Circumboreal, S. to California

DEPTH: 15-375m SIZE: length to 4cm

## broad Yoldia

*Megayoldia thraciaeformis* 74419

Medium-sized, quadrate clam; valves hatchet-shaped, moderately inflated, broadly truncated posteriorly; color white with semi-polished green periostracum.

RANGE: Circumboreal, S. to California

DEPTH: 25-760m SIZE: length to 6.5cm

## northern Yoldia

*Yoldia hyperborea*

74420

Small, elongate clam; valves thin, rather compressed, anterior end rounded, posterior end somewhat tapered; color white with light olive to dark brown, adherent, highly polished periostracum.

RANGE: Circumboreal, S. to California

DEPTH: 15-360m SIZE: length to 5cm

## stout nutclam

*Nuculana pernula*

74436

Small, elongate clam; valves with long, broad rostrum; sculpture of fine, closely spaced co-marginal ribs; color white with olive to black periostracum.

RANGE: Arctic Ocean to California

DEPTH: 20-1400m SIZE: length to 2.5cm

# CLAMS

## Greenland cockle

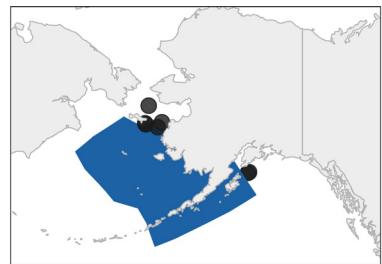
### *Serripes groenlandicus*

75285

Large, smooth cockle; valves inflated, about as long as wide; faint radial sculpture on lateral margins; beaks straight to slightly off center; color tan with profuse, very fine chevron markings (often with pink flush in juveniles).

**RANGE:** Circumboreal, S. to Washington

**DEPTH:** 0-80m **SIZE:** width to 11cm



## broad cockle

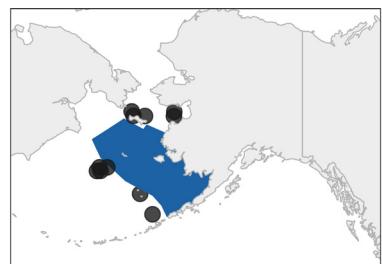
### *Serripes laperousii*

75286

Large, smooth cockle; valves moderately inflated, much wider than long, with very faint radial sculpture on lateral margins; color yellow-tan with reddish-brown chevron markings.

**RANGE:** Chukchi Sea to SE Alaska

**DEPTH:** 1-40m **SIZE:** width to 10cm



## oblique smoothcockle

### *Serripes notabilis*

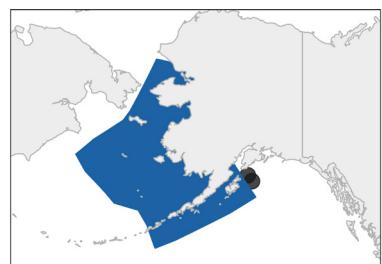
75287

Large smooth cockle; valves inflated, about as long as wide; faint radial sculpture on lateral margins; beaks directed strongly off center; color tan with large reddish-brown chevron markings.

**RANGE:** Bering Sea to

N. Gulf of Alaska

**DEPTH:** 50-215m **SIZE:** width to 9cm



## western bittersweet

### *Glycymeris septentrionalis*

74485

Small rounded clam; valves discoidal to moderately inflated, radial sculpture of fine incised lines, co-marginal sculpture of growth lines only; periostracum relatively thick, hirsute; color brown with white triangular markings, periostracum dark brown.

**RANGE:** Gulf of Alaska to Mexico

**DEPTH:** 1-400m **SIZE:** length to 4.5cm



## Alaska great-tellin

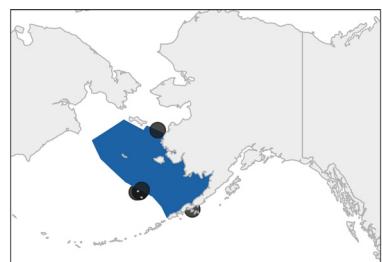
### *Megangulus luteus*

75205

Large, heavy, subovate tellin; valves moderately inflated, longer posteriorly, smooth except for growth lines; color, exterior chalky white, interior white or yellow and pink, periostracum light brown.

**RANGE:** Arctic Ocean to W. Gulf of Alaska

**DEPTH:** 0-100m **SIZE:** length to 13cm



## CLAMS

### butter clam

*Saxidomus gigantea*

75021

Large, thick clam; moderately inflated, wider than long, smooth except for growth lines; color white.

RANGE: Bering Sea to California

DEPTH: 0-40m SIZE: width to 13cm

### Arctic surfclam

*Mactromeris polynyma*

75111

Large, trigonal clam; valves relatively thin, moderately inflated, about one third longer than wide, smooth except for growth lines; color white with tan to dark brown periostracum.

RANGE: Circumboreal, S. to Washington

DEPTH: 0-110m SIZE: length to 15cm

*Macoma sp.*

75240

Small, rounded bivalves with thin, fragile, chalky white shells; color generally white with brown periostracum.

RANGE: Arctic Ocean to California

DEPTH: 0-1550m SIZE: width to 10cm

### softshell

*Mya arenaria*

75332

Large, ovate-elliptical clam; valves thin, posterior end produced, attenuate, anterior end narrower; chondrophore without anterior buttress; color white to tan.

RANGE: Circumboreal, S. to California

DEPTH: 0-20m SIZE: length to 15cm

### truncate softshell

*Mya truncata*

75333

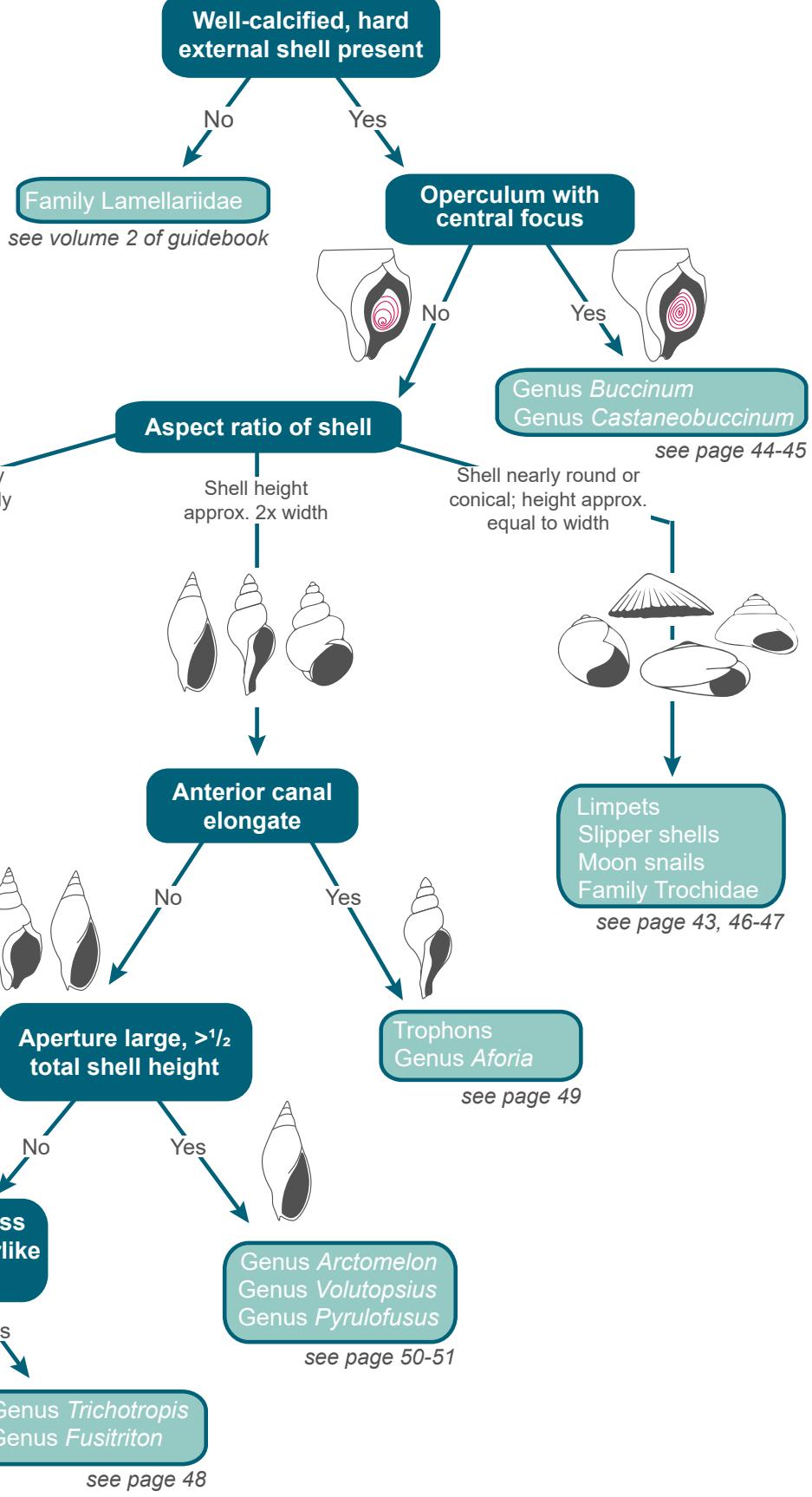
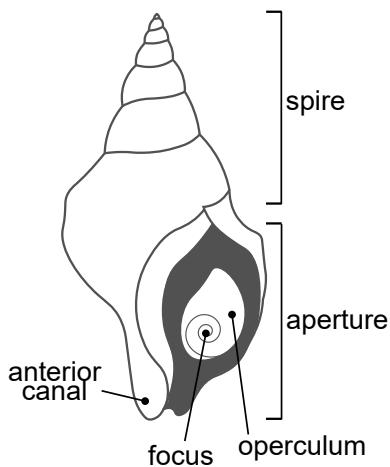
Medium-sized sub-quadratae clam; valves inflated, posterior end truncated; sculpture of co-marginal undulations and growth lines; pallial sinus broad, shallow; chondrophore truncated distally and with anterior buttress; color whitish.

RANGE: Circumboreal, S. to Washington

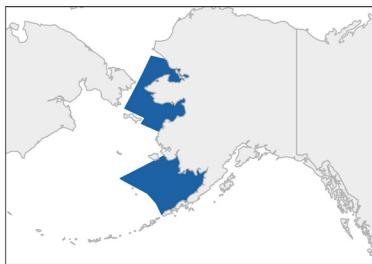
DEPTH: 0-100m SIZE: length to 7cm

# SNAILS

Minimum ID: Genus



# SNAILS



## eroded turretsnail

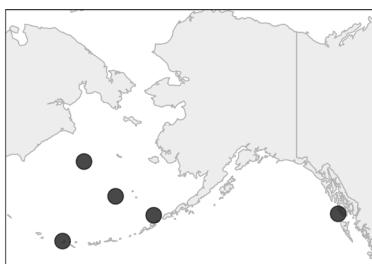
*Tachyrhynchus erosus*

71634

Small auger-shaped shell; spiral sculpture consisting of broad, flattened ribs; axial sculpture absent; color brown.

RANGE: Arctic Ocean to British Columbia

DEPTH: 10-150m SIZE: height to 3cm



## Greenland wentletrap

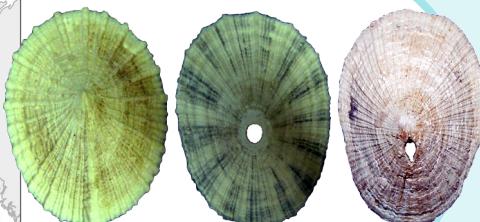
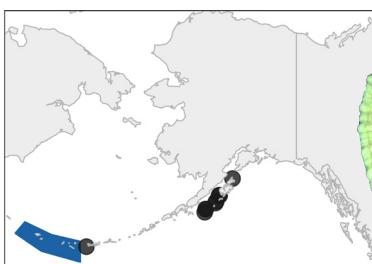
*Boreoscalpellum greenlandica*

72065

Medium-sized tall, tapering shell; spiral sculpture consisting of about ten low ribs; axial sculpture consisting of numerous large, thick lamellae; color white.

RANGE: Arctic Ocean to British Columbia

DEPTH: 1-200m SIZE: height to 6cm



## limpet unid.

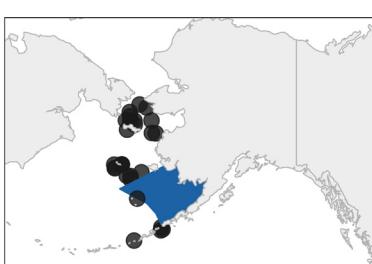
Limpet

71405

Shallow conical shell with prominent apex; occasionally with a "key hole".

RANGE: Aleutian Islands to California

DEPTH: 1-200m SIZE: length to 7cm



## great slippersnail

*Grandicrepidula grandis*

71681

Medium-sized oval, dome-shaped shell with a shelf extending out from the apex on the ventral side; sculpture indistinct; periostracum flaky, brown; color white, often stained with pinkish-brown.

RANGE: Bering Sea and Aleutian Islands

DEPTH: 1-100m SIZE: length to 6cm

**wavy whelk*****Buccinum sigmatopleura*****72745**

Shell small, aperture a little more than 1/3 of shell height; spiral sculpture lacking, axial sculpture of heavy, oblique ribs on entire whorl; color yellowish, blue-gray or white, aperture white.

**RANGE:** Western Aleutian and Commander Islands

**DEPTH:** 30-200m **SIZE:** height to 7cm

**lirate whelk*****Buccinum eugrammatum*****72748**

Shell small, aperture a little more than 1/3 of shell height; spiral sculpture of heavy, flat-topped ribs, four to five above the suture; axial sculpture lacking; color blue-gray to yellowish, aperture yellow or brown.

**RANGE:** Western Aleutian Islands

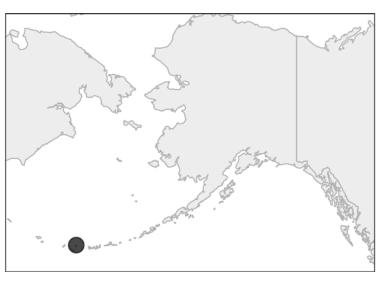
**DEPTH:** 30-300m **SIZE:** height to 7cm

**one-ribbed whelk*****Castaneobuccinum orri*****72776**

Small, inflated shell; aperture much less than half of shell height; axial sculpture lacking; spiral sculpture of one weak rounded rib at the shoulder; color brown; periostracum lacking.

**RANGE:** Central and Eastern Aleutian Islands

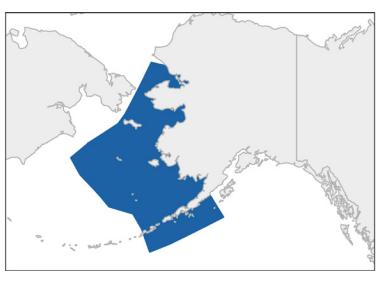
**DEPTH:** 30-200m **SIZE:** height to 7cm

**ladder whelk*****Buccinum scalariforme*****72752**

Shell medium-sized; aperture about 1/3 of shell height; spiral lirae microscopic, curved axial ribslets numerous, fine, present on entire whorl; color pale purple-gray to tan.

**RANGE:** Bering Sea to Washington

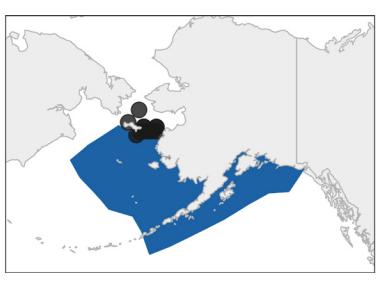
**DEPTH:** 30-500m **SIZE:** height to 8cm

**sinuous whelk*****Buccinum plectrum*****72751**

Shell medium-sized; aperture about 1/3 of shell height; spiral ribs fine, uniform; weak, curved axial ribs present on upper half of whorls; color pale purple, tan or gray (illustrated specimen stained orange from high rust environment).

**RANGE:** Bering Sea to Gulf of Alaska

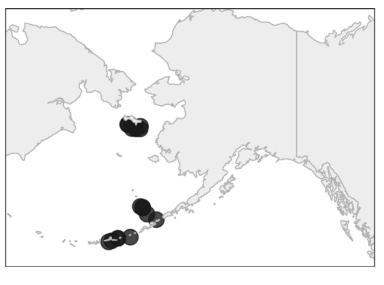
**DEPTH:** 1-400m **SIZE:** height to 8cm

**chestnut whelk*****Castaneobuccinum castaneum*****72760**

Small, inflated shell; aperture much less than half of shell height; axial sculpture when present, usually expressed as low, rounded ribs on upper portion of (usually early) whorls; spiral sculpture when present of fine incised lines; color brown; periostracum absent.

**RANGE:** Bering Sea to northern Gulf of Alaska

**DEPTH:** 5-100m **SIZE:** height to 8cm





### angular whelk

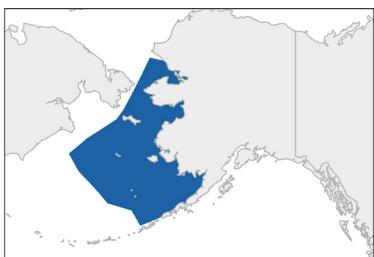
*Buccinum angulosum*

72743

Medium-sized shell; aperture about 1/2 of shell height; shoulder angular, axial sculpture of prominent well spaced rounded ribs, spiral sculpture fine, very faint; color white.

**RANGE:** Circumboreal, Arctic Ocean to Bering Sea

**DEPTH:** 30-100m **SIZE:** height to 7cm



### polar whelk

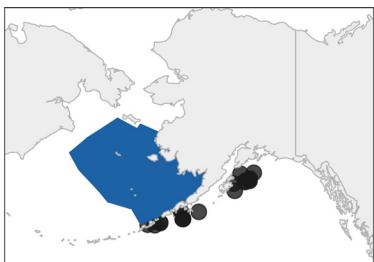
*Buccinum polare*

72755

Medium-sized, thin, fragile shell; aperture about one half of shell height; spiral sculpture very fine, axial sculpture present on early whorls, but weak; color white with dark brown periostracum.

**RANGE:** Circumboreal, S to Bering Sea

**DEPTH:** 30-100m **SIZE:** height to 7cm



### swollen whelk

*Buccinum oedematum*

72747

Medium-sized shell; aperture about 1/3 of shell height; spiral riblets weak, axial ribs numerous, regular; color grayish to brown.

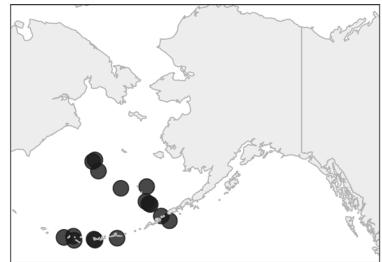
**RANGE:** Bering Sea and Aleutian Islands

**DEPTH:** 400-1000m **SIZE:** height to 10cm

**fragile moonsnail*****Bulbus fragilis***

71515

Medium-sized thin, very inflated shell; sculpture lacking; periostracum thin, tenacious; operculum chitinous, small, slender, filling only about 1/3 of aperture; umbilicus absent; color white, periostracum green.

**RANGE:** Bering Sea and Aleutian Islands**DEPTH:** 50-200m **SIZE:** diam. to 6.5cm**purple moonsnail*****Amauropsis islandica***

71520

Very small, thin, inflated, rather elongate shell; umbilicus lacking; shallow channel at suture; operculum thin, chitinous, filling aperture; color light brown with purplish-green periostracum.

**RANGE:** Bering and Chukchi Sea**DEPTH:** 20-100m **SIZE:** length to 3cm**Arctic moonsnail*****Cryptonatica affinis***

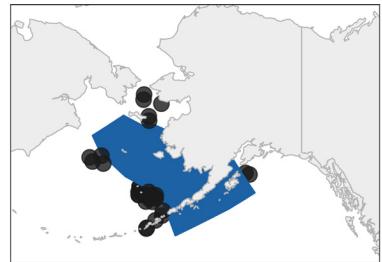
71526

Small, relatively thick, spherical shell; umbilicus absent, covered with callous; operculum calcareous, filling aperture; color solid white.

**RANGE:** Arctic Ocean to California**DEPTH:** 1-150m **SIZE:** height to 2.5cm**Aleutian moonsnail*****Cryptonatica aleutica***

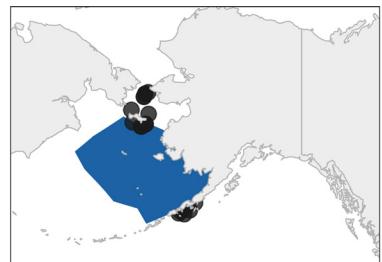
71535

Small, relatively thick, spherical shell; umbilicus absent, covered with callous; operculum calcareous, filling aperture; color reddish-brown on upper 2/3 and white or tan on lower 1/3; juveniles often orange-tan with reddish-brown vertical stripes.

**RANGE:** Bering Sea to California**DEPTH:** 1-100m **SIZE:** height to 5cm**rusty moonsnail*****Cryptonatica russa***

71537

Small, relatively thick, spherical shell; umbilicus absent, covered with callous; operculum calcareous, filling aperture; color rusty orange.

**RANGE:** Arctic Ocean to California**DEPTH:** 10-300m **SIZE:** height to 4cm**Lewis moonsnail*****Neverita lewisi***

71570

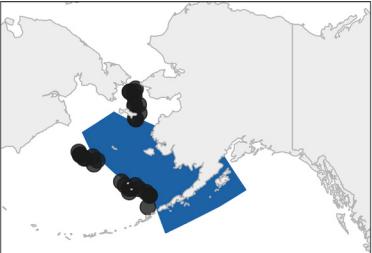
Large, thick, spherical shell; sculpture lacking; umbilicus deep, open with large callous on posterior edge; operculum chitinous, large, filling aperture; color tan.

**RANGE:** S. Gulf of Alaska to California**DEPTH:** 1-200m **SIZE:** diam. to 15cm

**pale moonsnail***Euspira pallida*

71580

Small, spherical shell; umbilicus very small and slit-like or absent, covered by callous; operculum thin, chitinous filling aperture; color white with pale tan periostracum.

**RANGE:** Arctic Ocean to California**DEPTH:** 10-2000m **SIZE:** height to 5cm**obscure solarelle***Solariella obscura*

72541

Small, trochoid shell with deep, open umbilicus; spiral sculpture consisting of a few obsolete to relatively strong ribs; axial sculpture absent; edge of umbilicus angular; color grayish.

**RANGE:** Arctic Ocean to Washington**DEPTH:** 80-2000m **SIZE:** height to 1cm**boreal rosy margarite***Margarites costalis*

72535

Small turbinate shell with narrow, deep umbilicus; spiral sculpture consisting of four or five angular ribs; axial sculpture restricted to numerous oblique riblets above the uppermost axial rib, sometimes forming a slight coronation at the junction; color gray.

**RANGE:** Arctic Ocean to Bering Sea**DEPTH:** 20-200m **SIZE:** height to 2.5cm***Calliostoma variegatum***

72514

Medium-sized conical shell; sides of whorls flat; sculpture consisting of numerous finely beaded spiral riblets; color straw or pale brass, with alternating red-brown and white dashes on riblets.

**RANGE:** Gulf of Alaska to California**DEPTH:** 20-200m **SIZE:** height to 3cm***Cidarina cidaris***

72525

Small to medium-sized conical shell; sculpture consisting of numerous spiral rows of conical spines; umbilicus closed; color pale to dark gray or greenish-gray.

**RANGE:** Gulf of Alaska to California**DEPTH:** 20-300m **SIZE:** height to 3.5cm

## Oregon triton

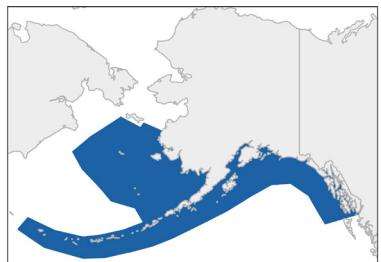
### *Fusitriton oregonensis*

72500

Large, solid, hairy shells; shell covered with thick, bristly periostracum; shell white or pink, periostracum green to brown.

RANGE: Bering Sea to Mexico

DEPTH: 1-2000+m SIZE: height to 15cm



## crowned hairy snail

### *Neophinnoe coronata*

72304

Small, high turbinate shells; aperture less than half of shell height; umbilicus open, deep; spiral sculpture consisting of a single low, sharp rib at shoulder; axial sculpture lacking; periostracum relatively thick, tenacious, forming a single recurved row of rather short bristles at the shoulder; shell pinkish-tan or white, periostracum brown.

RANGE: Arctic Ocean to Bering Sea

DEPTH: 30-70m SIZE: height to 3.5cm



## two-keel hairy snail

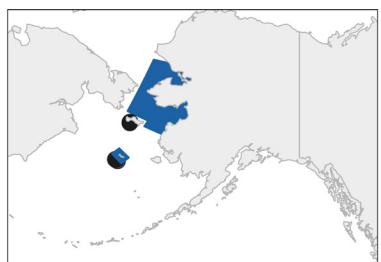
### *Trichotropis bicarinata*

72305

Medium-sized turbinate shells; aperture about half of shell height; sculpture lacking except for two prominent spiral keels, one at the shoulder the other at the base of the whorl; periostracum relatively thick, tenacious, forming spiral rows of long bristles on keels; shell white, periostracum white to yellow-brown.

RANGE: Arctic Ocean to Bering Sea

DEPTH: 5-100m SIZE: height to 5cm



**keeled Aforia*****Aforia circinata*****72063**

Medium-sized, spindle-shaped, relatively slender, fusiform shell; canal long; spiral sculpture of fine incised lines; lip notch prominent, notch rib keel-like; color orange-brown with thick brown periostracum.

**RANGE:** Bering Sea to Gulf of Alaska  
**DEPTH:** 60-200m **SIZE:** height to 8cm

**Bering trophon*****Boreotrophon beringi*****72401**

Small, spindle-shaped shell; spire a little less than 1/3 of shell height; shoulder slightly flattened above canal relatively long, about 1/3 or more of shell height; spiral sculpture absent; axial sculpture consisting of 14-16 low varices slightly angled at shoulder; color white.

**RANGE:** Bering Sea and Aleutian Is.  
**DEPTH:** 30-150m **SIZE:** height to 3.5cm

**Alaskan trophon*****Boreotrophon alaskanus*****72402**

Medium-sized, spindle-shaped shell; spire less than half of shell height, aperture large, oval, canal long; spiral sculpture absent; axial sculpture consisting of 9-12 weak to strong lamellae, forming a distinct angulation or short to long upward curved spine at the shoulder; color pink-white with purple-brown or white aperture.

**RANGE:** Bering Sea to Gulf of Alaska  
**DEPTH:** 40-500m **SIZE:** height to 5cm

***Boreotrophon pacificus*** **72421**

Small, spindle-shaped shell; spire about 1/2 shell height; shoulder rounded; canal short, about equal to or shorter than aperture length; spiral sculpture absent; axial sculpture consisting of 12-25 low, thin rounded varices; color white to light pink.

**RANGE:** Bering Sea to Washington  
**DEPTH:** 0-80m **SIZE:** height to 3cm

***Nodulotrophon coronatus*** **72403**

Medium-sized spindle-shaped shell; spire less than 1/3 of shell height, aperture oval shaped, canal long; spiral sculpture consisting of a single cord at the shoulder; area above the shoulder somewhat tabulate; axial sculpture consisting of weak to obsolete lamellae, forming short, stout spine at the shoulder; color white to pale tan often stained orange.

**RANGE:** Arctic Ocean to W. Gulf of Alaska  
**DEPTH:** 40-200m **SIZE:** height to 6cm

**winged trophon*****Scabrotrophon stuarti*****72407**

Medium-sized foliate shell; spire less than half of shell height, aperture large, oval, canal long; spiral sculpture absent or consisting of three to five low, broad cords; axial sculpture consisting of nine to twelve broad thin lamellae, forming a distinctive, triangular spine at the shoulder; color white, often stained brown or greenish.

**RANGE:** Bering Sea to California  
**DEPTH:** 1-300+m **SIZE:** height to 6cm

**Alaska volute*****Arctomelon stearnsii***

72790

Shell large, thin but strong; sculpture absent; sutures pinched; columella with two axial folds; upper portion of whorls flat sided or only slightly rounded; color chalky blue-gray exteriorly, glossy purple-brown interiorly.

**RANGE:** Bering Sea and Aleutian Islands to Gulf of Alaska

**DEPTH:** 80-500m **SIZE:** height to 17cm

***Arctomelon boreale***

72791

Shell medium-sized, thin but strong; sutures pinched; sculpture absent; columella with two axial folds; spire very short, less than one third of shell height; color chalky brown exteriorly, maroon interiorly.

**RANGE:** Eastern Aleutian Islands

**DEPTH:** 100-200m **SIZE:** height to 13cm

***Arctomelon tamikoae***

72792

Shell large, relatively thin, but strong; sculpture consisting of numerous low axial ribs; sutures T-shaped; columella with two axial folds; color chalky blue-gray exteriorly, glossy purple-brown or gray interiorly.

**RANGE:** Aleutian Islands

**DEPTH:** 100-400m **SIZE:** height to 23cm

**shouldered whelk*****Volutopsius stefanssoni***

71763

Large inflated shell; aperture large, about 2/3 or more of shell height; shell usually with prominent shoulders which may be variably smoothly angular, knobbed or bear wrinkles or varices; color orange-brown to brown with pink nucleus.

**RANGE:** Arctic Ocean to Pribilof Islands

**DEPTH:** 30-150m **SIZE:** height to 13cm

**tulip whelk*****Volutopsius middendorffii***

71764

Small, inflated shell; aperture about 2/3 of shell height; axial sculpture lacking; spiral sculpture of very fine lirae; color pink or white, with thin, light brown periostracum (when present).

**RANGE:** Bering Sea to Gulf of Alaska

**DEPTH:** 100-400m **SIZE:** height to 12cm

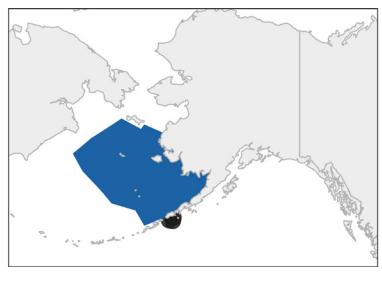
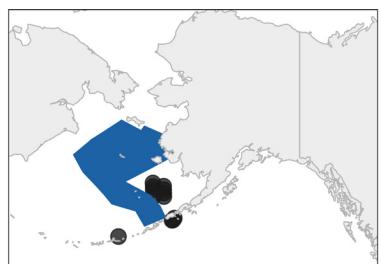
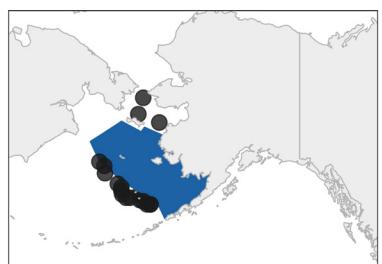
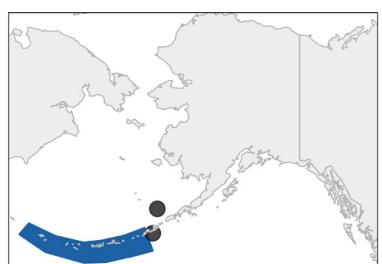
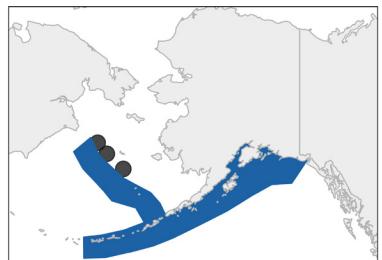
**fragile whelk*****Volutopsius fragilis***

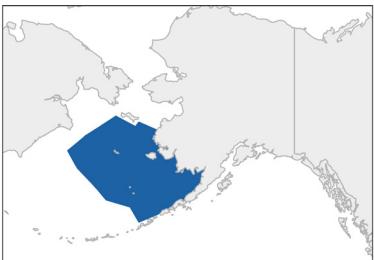
71756

Small, inflated shell; aperture about 2/3 of shell height; axial sculpture elongated knobs at shoulder; spiral sculpture lacking; color white, often with pink aperture, periostracum thin, brown.

**RANGE:** Bering Sea

**DEPTH:** 30-100m **SIZE:** height to 12cm





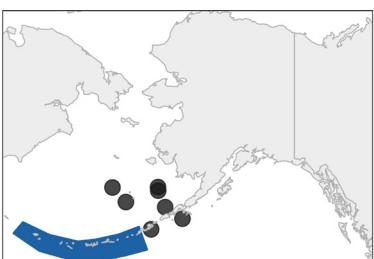
### *Pyrulofusus melonis*

71761

Large inflated shell; aperture large, about 3/4 of shell height; numerous prominent axial ribs crossed by very numerous fine spiral riblets; color purple-gray to brown, aperture purple to orange.

**RANGE:** Bering Sea and Eastern Aleutian Islands

**DEPTH:** 150-400m **SIZE:** height to 15cm



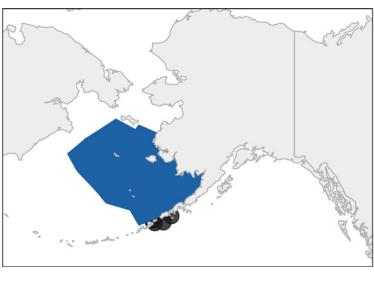
### *Pyrulofusus dexion*

71749

Large inflated shell; aperture large, about 3/4 of shell height; few spaced, oblique axial ribs crossed by numerous coarse, spaced spiral ribs; color purple-gray to bluish, aperture purple to orange. Eastern form more slender, with predominantly yellow-orange aperture. Western form more inflated, with predominantly purple aperture. Ranges divided in the vicinity of Amutka and Samalga Passes.

**RANGE:** Eastern and Central Aleutian Islands

**DEPTH:** 50-200m **SIZE:** height to 15cm



### warped whelk

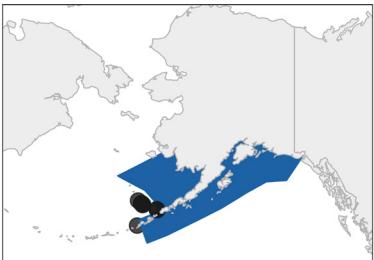
### *Pyrulofusus deformis*

71753

Large inflated shell, sinistrally coiled; aperture large, about 3/4 of shell height; oblique axial ribs few to none, numerous fine spiral riblets; color gray or light brown, aperture purple to orange.

**RANGE:** Arctic to Aleutian Islands

**DEPTH:** 4-170m **SIZE:** height to 13cm



### left-hand whelk

### *Pyrulofusus harpa*

71755

Large inflated shell, sinistrally coiled; aperture large, about 3/4 of shell height; few spaced, oblique axial ribs crossed by numerous coarse, spaced spiral ribs; color gray, aperture white, purple or orange.

**RANGE:** Pribilof and Eastern Aleutian Islands, Gulf of Alaska

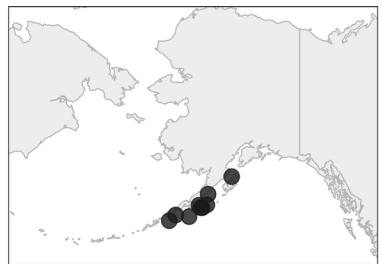
**DEPTH:** 1-300m **SIZE:** height to 13cm

*Retifusus virens*

71897

Small, inflated shell; aperture about half of shell height; canal relatively short; axial sculpture of prominent ribs on upper portion of whorls; spiral sculpture of fine spiral ribs; color light brown with dark green-brown periostracum.

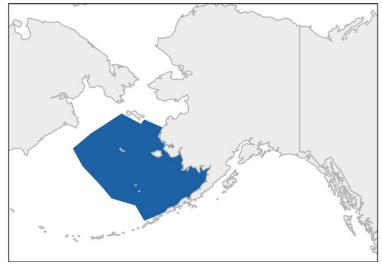
**RANGE:** Aleutian Islands to W. Gulf of Alaska  
**DEPTH:** 30-150m **SIZE:** height to 3cm

*Plicifusus kroyeri*

71891

Large, inflated, spindle-shaped shell; aperture less than 1/3 of shell height; canal short; axial sculpture of numerous rounded ribs; spiral sculpture of fine lirae; color pale purple-gray to white.

**RANGE:** Circumboreal, S. to Bering Sea  
**DEPTH:** 30-80m **SIZE:** height to 13cm

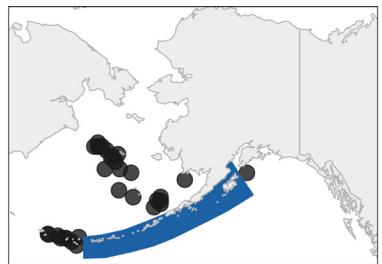
*Beringius kennicottii*

71770

Large inflated, spindle-shaped shell; aperture less than half of shell height whorls rounded to subangulated at shoulder; axial sculpture of prominent, rounded ribs; spiral sculpture of few or no subdued lirae above the suture, and numerous spiral lirae below the suture; color white to tan with thin yellow-brown periostracum. Highly variable species.

**RANGE:** Central Aleutian Islands to Gulf of Alaska

**DEPTH:** 1-300m **SIZE:** height to 15cm

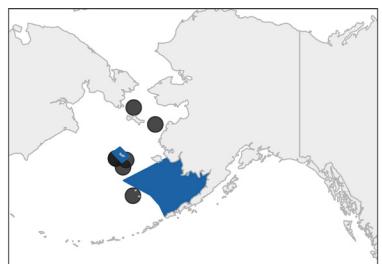
*Beringius stimpsoni*

71774

Medium-sized shell; aperture half or less of shell height; axial sculpture of five or six well spaced ribs per whorl, the areas between flattened; spiral sculpture absent or of fine to coarse riblets; color purple-gray or light brown, aperture purple, periostracum thin, brown.

**RANGE:** Arctic Ocean to Bering Sea

**DEPTH:** 40-150m **SIZE:** height to 12cm

*Bering beringius**Beringius behringii*

71772

Large, inflated to spindle-shaped shell; aperture half or more of shell height; axial sculpture variable, absent or weak to strong ribs; spiral sculpture of a few low (often obsolete), spaced weak riblets; color gray to pale purple, aperture purple, periostracum thin, brown.

**RANGE:** Bering Sea, S to eastern Aleutian Islands

**DEPTH:** 30-150m **SIZE:** height to 15cm

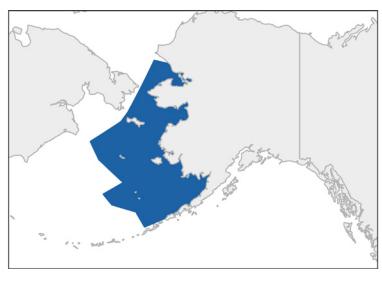
*Neptunea heros*

71884

Large, heavy, inflated shell; aperture often nearly 2/3 of shell height; axial sculpture when present may be of simple folds or ridges or well developed blade-like varices; axial sculpture of a single rib, often expressed only as a prominent knob at the shoulder; color variable, white, brown or purple, periostracum very thin, yellowish.

**RANGE:** Arctic Ocean to Bering Sea

**DEPTH:** 20-70m **SIZE:** height to 17cm



**fat whelk*****Neptunea ventricosa***

71882

Medium-sized, very inflated shell; aperture half to 2/3 of shell height; canal angled to left; axial sculpture may be absent, or expressed as two angled knobs at shoulder, or of thin lamellae, or vertices; spiral sculpture absent or of prominent ribs; color brown or purplish tones, rarely white.

**RANGE:** Arctic to Southeast Alaska**DEPTH:** 1-320m **SIZE:** height to 15cm***Neptunea borealis***

71835

Small, chunky, spindle-shaped shell; aperture half or more of shell height; axial sculpture when present of low ribs, often expressed only as one or two angular knobs at the shoulder; spiral sculpture of seven to nine ribs below the suture (rarely any above), and fine lirae; color white, pink, brown or purple.

**RANGE:** Bering Sea**DEPTH:** 10-80m **SIZE:** height to 7cm**lyre whelk*****Neptunea lyrata***

71870

Medium-sized, inflated shell; aperture about half or less of shell height; axial sculpture usually absent; spiral sculpture of raised ribs, two of them above the suture, and often smaller ribs fine lirae between; color nearly uniform brown.

**RANGE:** Aleutian Islands and Gulf of Alaska**DEPTH:** 1-100m **SIZE:** height to 12cm**white neptune*****Neptunea amianta***

71810

Small, thin, spindle-shaped or inflated shell; aperture half or more of shell height; axial sculpture absent; spiral sculpture of numerous fine riblets, shoulder riblets often slightly more prominent than others; color uniformly white, with thin brown periostracum.

**RANGE:** Bering Sea to California**DEPTH:** below 400m **SIZE:** height to 10cm**Pribilof whelk*****Neptunea pribiloffensis***

71820

Large, often very inflated shell; aperture about half of shell height; axial sculpture absent; spiral sculpture of fine, low, spaced ribs, shoulder rib most prominent; color pinkish, white or tan with dark colored ribs.

**RANGE:** Bering Sea to N California**DEPTH:** 30-400m **SIZE:** height to 15cm**helmet whelk*****Clinopegma magnum***

71886

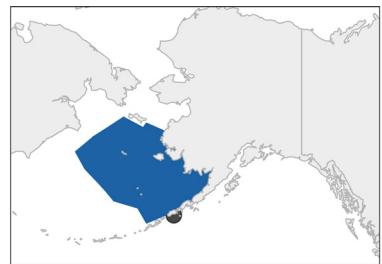
Medium-sized, stout, inflated shell; aperture half or more of shell height; axial sculpture absent; spiral sculpture of faint lirae except for a single cord at the shoulder; operculum small, pointed; color white with tenacious brown or pale green periostracum.

**RANGE:** Bering Sea**DEPTH:** 30-100m **SIZE:** height to 8cm

**thin-ribbed whelk*****Aulacofusus herendeeni*****71721**

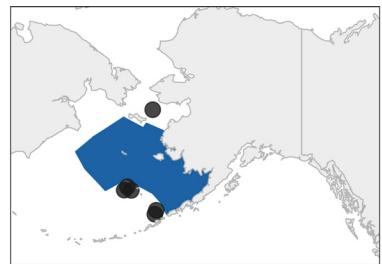
Large spindle-shaped shells; whorls inflated, aperture much less than half of shell height; axial sculpture absent; spiral sculpture of fine, low riblets; color white with dark olive-brown periostracum.

**RANGE:** Bering Sea to W. Gulf of Alaska  
**DEPTH:** 20-100m **SIZE:** height to 10cm

**thick-ribbed whelk*****Aulacofusus brevicauda*****71726**

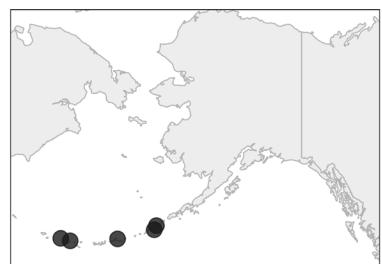
Medium-sized spindle-shaped shells; aperture much less than half of shell height; axial sculpture absent; spiral sculpture of numerous low cords, about ten above the suture; color white-pinkish-tan, periostracum yellow-brown.

**RANGE:** Circumboreal, S. to Washington  
**DEPTH:** 30-200m **SIZE:** height to 8cm

**thick-cord whelk*****Beringius crebricostatus*****71775**

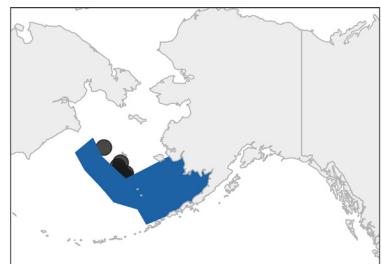
Large, spindle-shaped shell; aperture less than half of shell height, axial sculpture lacking, spiral sculpture of few very heavy, flat-topped ribs, three to four above suture, separated by furrows of about the same width; color purple-brown, mauve or white, aperture brown or white, periostracum thin yellowish-brown.

**RANGE:** Eastern Aleutian Islands  
**DEPTH:** 3-120m **SIZE:** height to 13cm

***Neoberingius frieli*****71771**

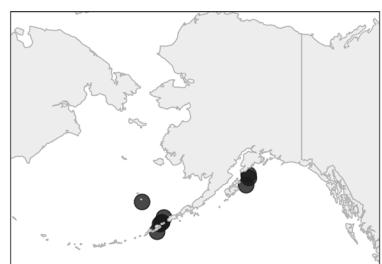
Medium-sized, spindle-shaped shell; aperture much less than half of shell length; spire very tall, slender; axial sculpture absent; spiral sculpture of regular, low, close-set riblets; color white or pinkish with tenacious yellow-brown periostracum.

**RANGE:** Bering Sea and Aleutian Islands  
**DEPTH:** 200-600m **SIZE:** height to 13cm

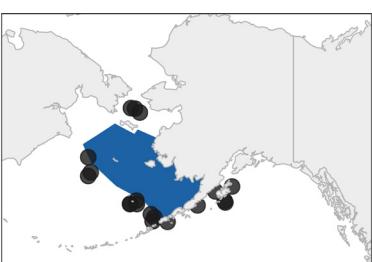
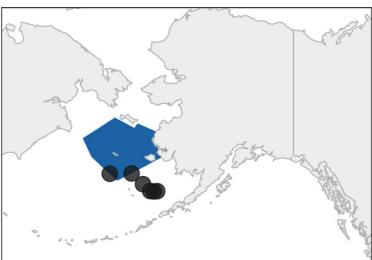
***Beringius undatus*****71776**

Large, spindle-shaped shell; aperture about half of shell height, whorls rounded, axial sculpture of low rounded ribs on upper half of whorls, spiral sculpture of prominent, low ribs about seven to nine above the suture, separated by furrows of about the same width; color white or pinkish with thin brown periostracum.

**RANGE:** Eastern Aleutian Islands to Washington  
**DEPTH:** 50-200m **SIZE:** height to 15cm



## SNAILS



### *Latisipho hypolispus*

71722

Medium-sized, stout, moderately inflated, fusiform shell; aperture less than half of shell height; axial sculpture absent; spiral sculpture present as a few weak, spaced cords, including some oblique cords near the suture; color pinkish-tan to white with brown periostracum.

**RANGE:** Bering Sea to W. Gulf of Alaska

**DEPTH:** 30-150m **SIZE:** height to 6cm

### shrew whelk

### *Latisipho hallii*

71731

Small, fusiform, inflated shell; aperture much less than half of shell height; axial sculpture absent; spiral sculpture of fine striae; color white, periostracum brown.

**RANGE:** Bering Sea to Washington

**DEPTH:** 1-400m **SIZE:** height to 5cm

### *Boreancistrolepis excelsus*

71742

Medium-sized, smooth shell; aperture more than 1/3 of shell height; axial sculpture absent; spiral sculpture absent; operculum shiny, convex, pointed; color white with green periostracum, sharply lighter below suture.

**RANGE:** Aleutian Islands

**DEPTH:** 150-450m **SIZE:** height to 8cm

### *Aleutijapelion aleuticus*

71773

Medium-sized, smooth shell; aperture more than 1/3 of shell height; axial sculpture absent; spiral sculpture absent; operculum dull, concave, pointed; color white with green or brown periostracum, sharply lighter below suture.

**RANGE:** Aleutian Islands to W. Gulf of Alaska

**DEPTH:** 120-450m **SIZE:** height to 10cm



**Howard Lutnick**  
Secretary of Commerce

**Nancy Hann**  
Under Secretary of Commerce  
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