

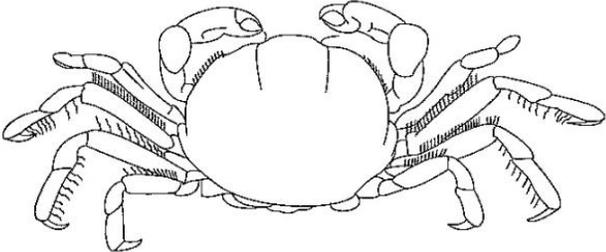
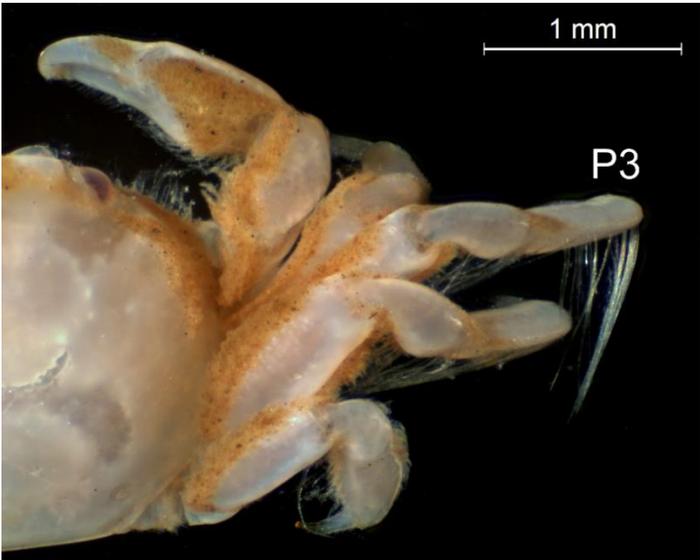
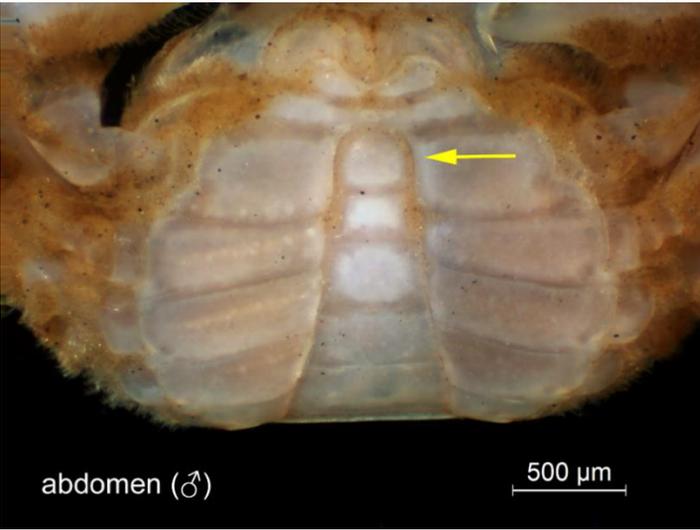
***Fabia subquadrata* Dana, 1851**

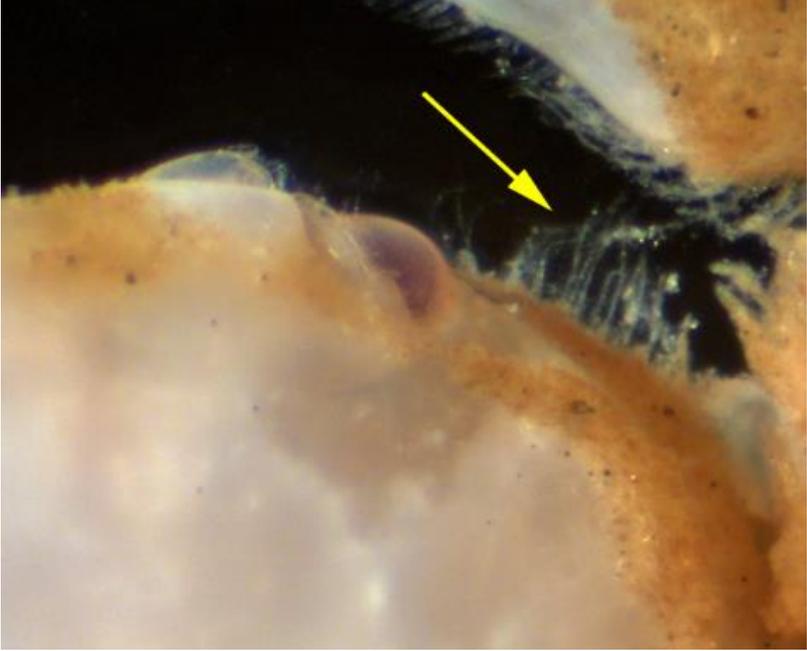
Nomenclature	
Phylum	Arthropoda
Class	Malacostraca
Order	Decapoda
Family	Pinnotheridae
Common Synonyms (S) Previous Names (PN)	<i>Raphonotus subquadratus</i> Rathbun 1904 (S)



Distribution	
Type Locality	Puget Sound, WA
Geographic Distribution	Akutan Pass, Alaska to Ejido Eréndira, Baja California, México (Campos 1996)
Habitat	Usually commensal in pelecypods, especially mussels, <i>Mytilus</i> spp., and soft-shell clams, <i>Mya arenaria</i> Linnaeus, 1758. Also reported from other pelecypods, rarely sea urchins, ascidians; intertidal zone to 220 m. Garth & Abbott (1980) gave a list of hosts.

Description
From Wicksten 2012
Size: Male carapace length to 7.3 mm, female to 16.2 mm.
Carapace: Smooth, membranous, subquadrate; soft in adult female, hard in male. Female front sharply deflexed with transverse sulcus across vertical front between orbits. Anterolateral margin rounded, marked by round cluster of pits, male with dense pubescence along margin. Antennules in very wide grooves. Male with large orbits.
Mouthparts: Palp of 3 rd maxilliped about as long as adjacent segment, merus with small point on distomedial margin.
Chelipeds: Palm widened distally, bearing 2 rows of setae along lower margin. Immobile finger with large serrate lobe on upper margin; dactyl with 1 large tooth on lower margin, upper margin with tuft of dense setae.
Pereopods: P2–5 with segments flattened, margins densely pubescent; dactyls large, subequal, curved.
Abdomen: Male abdomen with terminal segment semi-circular, lateral margins of penultimate segment distally depressed, broader at proximal end than distal but not markedly so.

Diagnostic Characteristics		
Diagnostic Characteristics (From Campos 2007 and Wicksten 2012)	Photo, Illustrations	Photo, Illustration Credit
<p>Carapace subquadrate, soft in adult female, porcelain-like in male</p> <p>Female with 2 longitudinal, impressed lines leading posteriorly from middle of upper margin of orbit</p>	 <p><i>Female (dorsal view)</i></p>	Campos 2007
<p>P2-5 NOT diminishing in length from anterior to posterior – P3 longest</p>	 <p><i>Right side of body, male (dorsal view); voucher specimen AR987</i></p>	Marine Sediment Monitoring Team
<p>Male: terminal abdominal segment semi-circular</p>	 <p><i>abdomen (♂)</i></p> <p><i>Abdomen, male; voucher specimen AR987</i></p>	Marine Sediment Monitoring Team

<p>Male: immovable finger of chela bearing large serrate lobe on upper margin</p>	 <p>500 μm</p> <p>Right cheliped (♂), external view</p> <p><i>Right cheliped, male (external view); voucher specimen AR987</i></p>	<p>Marine Sediment Monitoring Team</p>
<p>Male: anterolateral margin of carapace with fringe of hair-like setae</p>	 <p><i>Frontal margin of carapace, male (dorsal view); voucher specimen AR987</i></p>	<p>Marine Sediment Monitoring Team</p>
<p>Female: P3 alike on both sides</p>	<p>No female specimen available</p>	
<p>Female: front sharply deflexed, with transverse sulcus across vertical front between orbits</p>	<p>No female specimen available</p>	
<p>Female: hand of cheliped not widening distally, bearing one row of setae along lower margin</p>	<p>No female specimen available</p>	

Related Species and Characteristic Differences

Species Name	Diagnostic Characteristics
<i>Fabia concharum</i> (Rathbun, 1984)	<p>Female: front lacking transverse sulcus across vertical front between orbits; hand of cheliped not widening distally.</p> <p>Male: terminal abdominal segment widening distally with distal margin slightly deflexed; immovable finger of chela bearing 2 small teeth or lobes on upper margin (Davidson 1968).</p> <p><i>Note: This is a California species ranging from San Pedro to Magdalena Bay.</i></p>
<i>Opisthopus transversus</i>	<p>Carapace about as wide as long, spotted. Female: without longitudinal sulci.</p> <p>Male: anterolateral margin without fringe of setae.</p> <p><i>Note: This is a California species ranging from Monterey to San Ignacio Lagoon, Baha.</i></p>

Comments

Literature

- Campos, E. 1996. Partial revision of the genus *Fabia* Dana, 1851 (Crustacea: Brachyura: Pinnotheridae). *Journal of Natural History*. 30 (8): 1157-1178. (pp.1168-1171)
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- Jensen, G.C. 2014. *Crabs and shrimps of the Pacific Coast: a guide to shallow-water decapods from Southeastern Alaska to the Mexican border*. MolaMarine, Bremerton, WA. 240 pp. (p. 92)
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- Wicksten, M. K. 2012. Decapod Crustacea of the Californian and Oregonian Zoogeographic Provinces. *Zootaxa* 3371. Magnolia Press. 307 pp.

More Information

More information about Puget Sound benthic invertebrates is available at:

<http://www.ecy.wa.gov/programs/eap/psamp/index.htm>

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