



***Pinnixa schmitti* Rathbun, 1918**

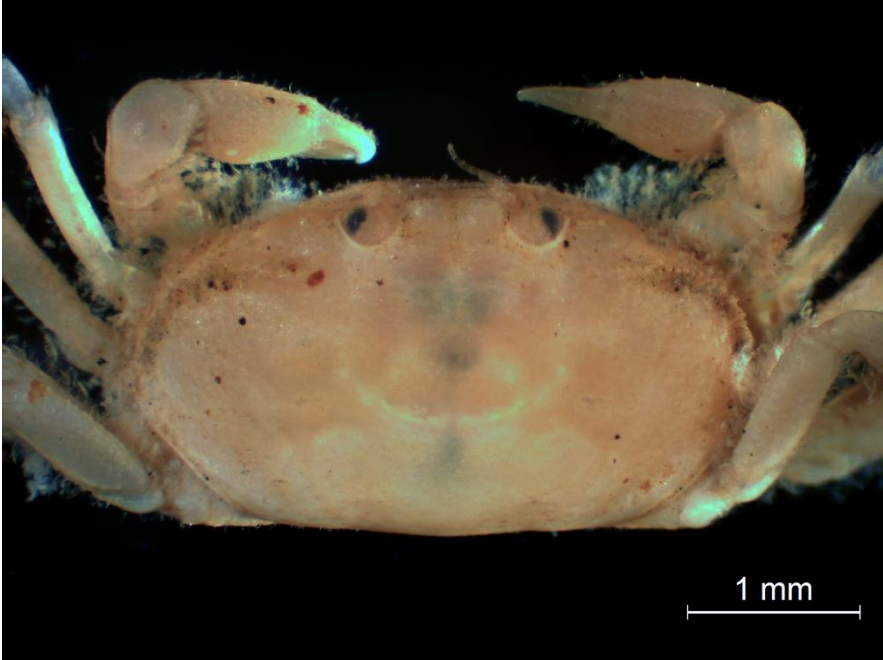
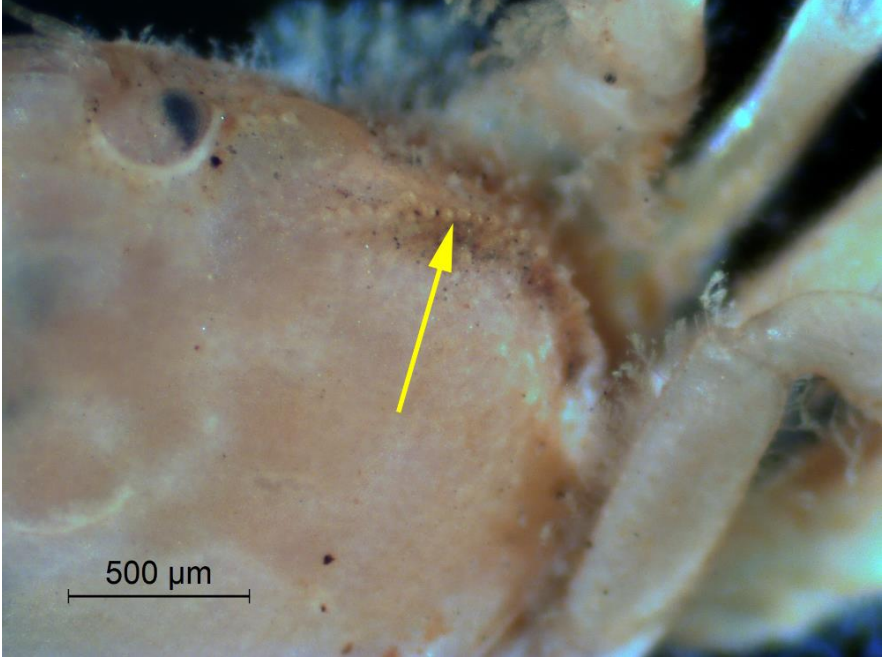
Nomenclature	
Phylum	Arthropoda
Class	Malacostraca
Order	Decapoda
Family	Pinnotheridae
Common Synonyms (S) Previous Names (PN)	

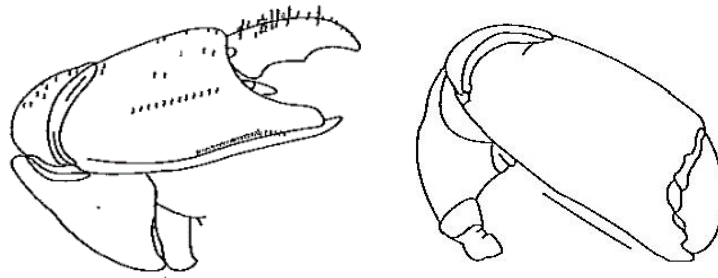


Distribution	
Type Locality	Lower San Francisco Bay, California; 9 ½ to 11 fathoms; station 5723; <i>Albatross</i> ; female holotype, Cat. No. 48441, U.S.N.M.
Geographic Distribution	Unalaska, Alaska, to San Diego, California; common in California bays (Zmarzly 1992)
Habitat	In sand, common in bays, symbiotic with echinuroids, holothuroids, polychaetes, callianassids, rarely ophiuroids; intertidal to 146 m (Wicksten 2012)

Description	
From Wicksten 2012	
Size: Carapace length 5 mm.	
Carapace: 1.8-2.2x wider than long, with prominent ridge of granules dorsally, ending at hepatic region. Scattered granules along frontolateral parts of carapace. Gastric region with transverse depression.	
Chelipeds: Palm swollen; upper, lower surfaces sinuous to slightly convex; outer surface granulate, shiny, smooth in mature male. Apices of fingers curving inward, without gape in female, with small gape in male. Inner margin of dactyl with small proximal tooth, fixed finger with several small teeth toward proximal end. Carpus of female cheliped scalloped.	
Pereopods: P2–5 setose, with long, slender dactyls. Rows of granules on merus of P2–5, also on carpus, propodus of P4, 5. P4 longest, P5 reaching carpus of P4.	

Diagnostic Characteristics

Diagnostic Characteristics (From Wicksten 2012)	Photo, Illustrations	Photo, Illustration Credit
<p>Carapace not strongly calcified, >1.5 times wider than long</p>	 <p><i>Carapace, female (dorsal view); specimen from 2014 PSEMP Long-term Station 40 Rep 1</i></p>	<p>Marine Sediment Monitoring Team</p>
<p>Anterolateral area of carapace with granulate or serrate ridge</p>	 <p><i>Right anterolateral margin of carapace, female (dorsal view); specimen from 2014 PSEMP Long-term Station 40 Rep 1</i></p>	<p>Marine Sediment Monitoring Team</p>

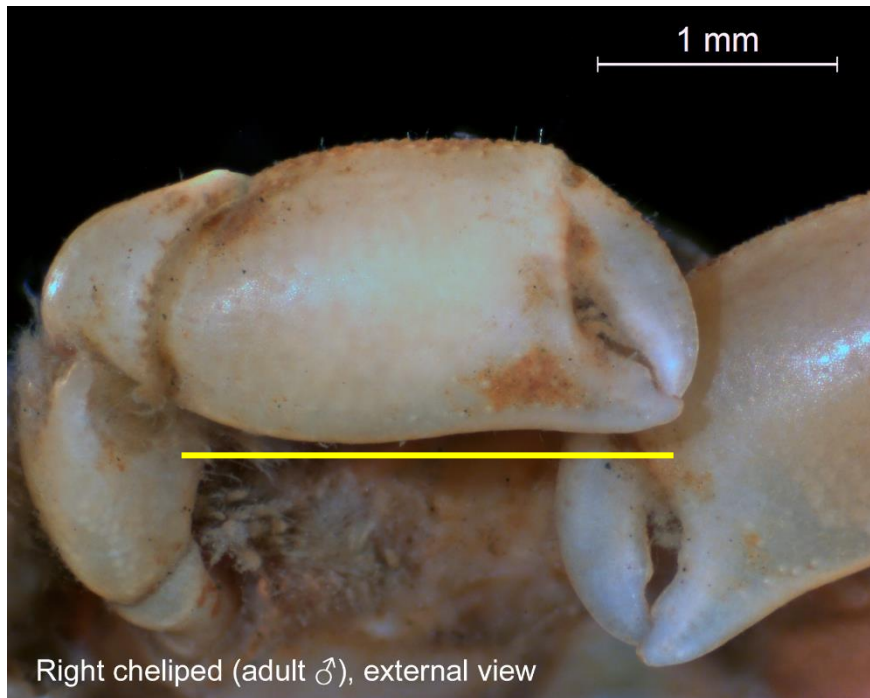


Female (L) and male (R) chelipeds, external view


Chela: Fixed
finger straight or
curving upward;
anterior face of
propodus
entirely smooth,
without
granules
(mature ♂) OR
with line of
coarse granules
just above
ventral margin
of propodus and
scattered
granules over
rest of propodus



Right cheliped, female (external view); specimen from 2014 PSEMP Long-term
Station 40 Rep 1



Right cheliped, male (external view); voucher specimen AR611

<p>P4 (3rd walking leg) distinctly longer and larger than other legs</p> <p>Dactyl of P5 equal to or exceeding length of propodus</p>	 <p>Right walking legs, female (dorsal view); specimen from 2014 PSEMP Long-term Station 40 Rep 1</p>	<p>Marine Sediment Monitoring Team</p>
--	---	--

Related Species and Characteristic Differences

Species Name	Diagnostic Characteristics
<i>Pinnixa occidentalis</i>	Fixed finger of chela deflexed
<i>Pinnixa tubicola</i>	Dactyl of P5 shorter than propodus

Comments

Literature

- Campos, E. 2007. Key to Pinnotheridae. In: Carlton, J. T., Eds. *The Light and Smith Manual. Intertidal Invertebrates from Central California to Oregon*. 4th ed. Los Angeles, CA: University of California Press. pp. 632-655. (pp. 643-644)
- Garth, J. S. and D. P. Abbott. 1980. Brachyura: The True Crabs. P. 595-630. In: *Intertidal invertebrates of California*. R. H. Morris, D. P. Abbott, and E. C. Haderlie (eds.). Stanford University Press, Stanford, CA.
- Rathbun, M. J. 1918. The grapsoid crabs of North America. *Bulletin of the U.S. National Museum* 97:1-444, Plates 1-159, figs. 1-172. (pp. 162-164)
- Wicksten, M. K. 2012. Decapod Crustacea of the Californian and Oregonian Zoogeographic Provinces. *Zootaxa* 3371. Magnolia Press. 307 pp.
- Zmarzly, D. L. 1992. Taxonomic Review of Pea Crabs in the Genus *Pinnixa* (Decapoda: Brachyura: Pinnotheridae) Occurring on the California Shelf, With Descriptions of Two New Species. *Journal of Crustacean Biology* 12(4): 677-713. (pp. 702-706)

More Information

More information about Puget Sound benthic invertebrates is available at:

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

Prepared by Dany Burgess (Ecology) and Julianne Ruffner (Ecology); reviewed by Jeff Cordell (UW – Seattle).

This document is available on the Department of Ecology's website at <https://fortress.wa.gov/ecy/publications/SummaryPages/1603209.html>

If you need this document in a format for the visually impaired, call (360) 407-6764. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.