

Eudorellopsis integra (S.I. Smith, 1879)

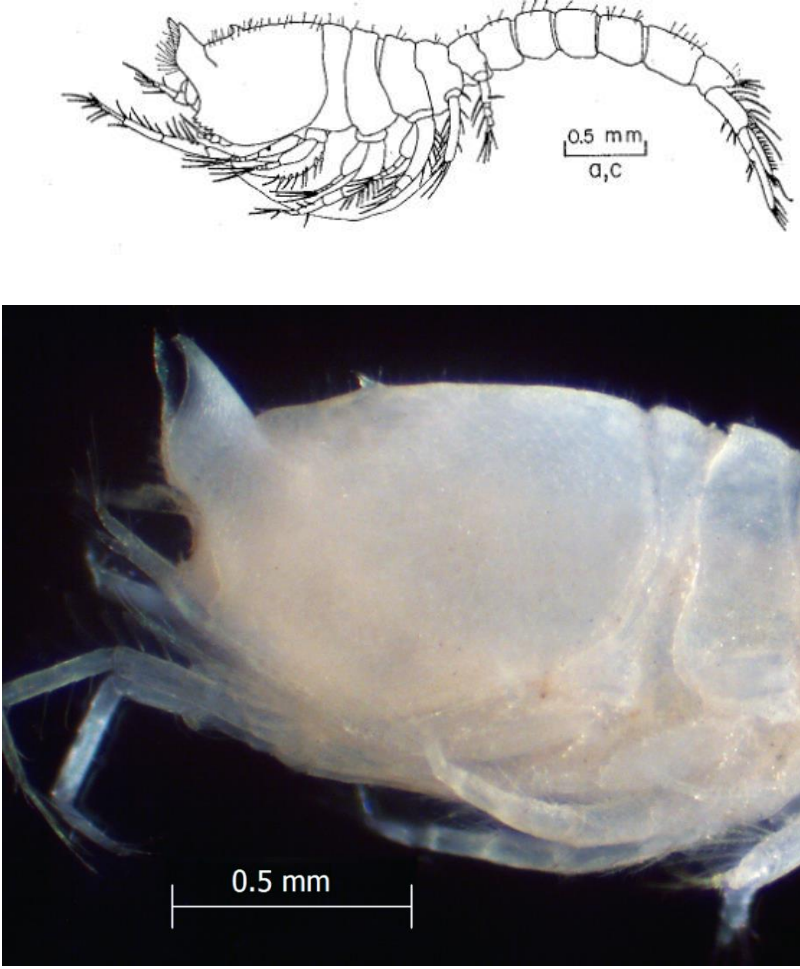
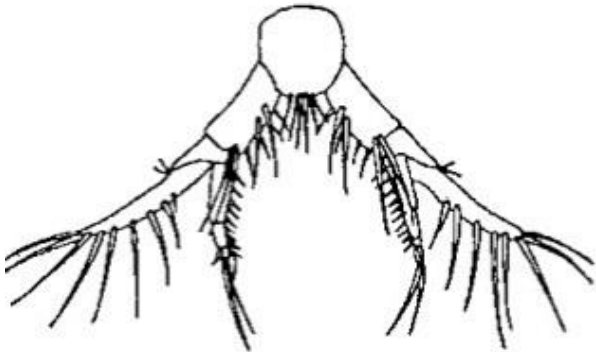
Nomenclature	
Phylum	Arthropoda
Class	Malacostraca
Order	Cumacea
Family	Leuconidae
Common Synonyms (S) Previous Names (PN)	<i>Eudorella integra</i> (S. I. Smith 1879) - S

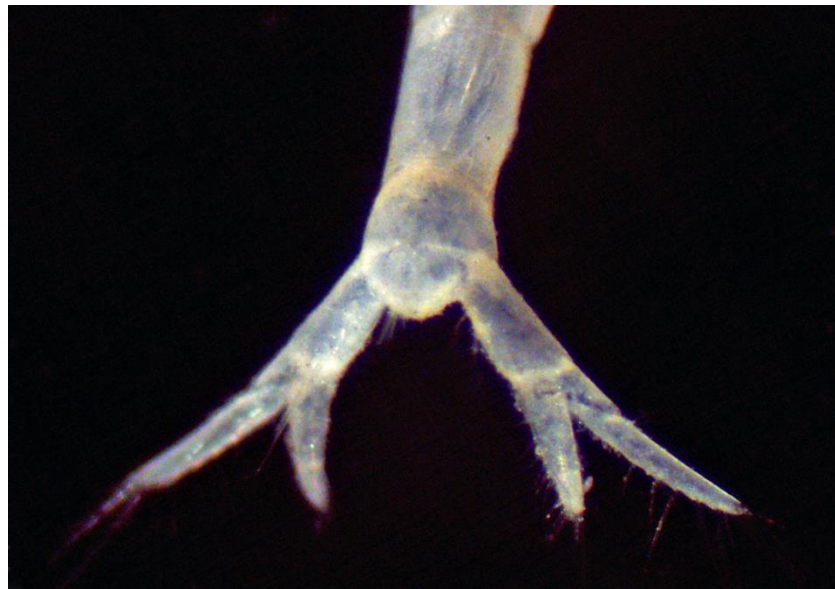


Distribution	
Type Locality	Off Halifax, Nova Scotia, 1877: females carrying eggs common, 42 fathoms, fine sand, and 52 fathoms, sandy mud; also two females from 57 fathoms, stones, sponges and red algae. About thirty miles south of Halifax, 110 fathoms, fine sandy mud. Gulf of St. Lawrence, 1873 (J. F. Whiteaves): both males and females, south of the eastern part of Prince Edward Island, and in 70 fathoms, off the Bay of Chaleurs
Geographic Distribution	Widely distributed in the Okhotsk, Bering and Japan Seas; also Alaska, Vancouver Island, the Atlantic coast of north America and western Greenland (Given 1965)
Habitat	Depth 9 to 791 m (Given 1965)

Description	
From Watling 1991 (unless otherwise noted)	
Size: Female 5 mm, males slightly longer (Smith 1879).	
Carapace: Smooth, elongate, longer than high; without lateral or horizontal ridges.	
Antenna/Antennules: Antenna 1 geniculate between peduncle articles 1 and 2. Major flagellum of antennule much shorter than the terminal article of the peduncle (Smith 1879). Male antenna 2 with brush of setae on anterior margin of peduncle articles 4 and 5; flagellum extending well along pleon.	
Pseudorostrum: Directed dorsally; lobes extending somewhat forward, not strictly vertical.	
Pereopods: Male with exopods on P1-4; female with exopods on P1-3.	
Pleopods: Male, 2 pairs.	
Uropods: Exopod rectangular with no setae on outer margin and long setae on inner margin; peduncle article 2x as long as wide. Endopod 2-articulate.	
Telson: No free telson.	

Diagnostic Characteristics

Diagnostic Characteristics (From Watling 1991)	Photo, Illustrations	Photo, Illustration Credit
<p>Carapace smooth, elongate, longer than high, without lateral oblique or horizontal ridges</p> <p>Pseudorostral lobes extending somewhat forward, not strictly vertical</p>	 <p><i>Carapace, female (lateral view); specimen from 2014 PSEMP Long-term Station 38 Rep 2</i></p>	<p>Lie 1969, p. 24</p> <p>Marine Sediment Monitoring Team</p>
<p>Uropod exopod rectangular with no setae on outer margin and long setae on inner margin</p> <p>Peduncle article 2x as long as wide</p>		<p>Lie 1969, p. 24</p>



Telson and uropods, female (dorsal view); specimen from 2014 PSEMP Long-term Station 38 Rep 2

Related Species and Characteristic Differences

Species Name	Diagnostic Characteristics
<i>Eudorellopsiis deformis</i>	Uropod exopod tapering, with setae along outer margin; pseudorostral lobes strictly vertical (Watling 1991).
<i>Eudorellopsiis longirostris</i>	Carapace with two lateral, strongly curving ridges, uppermost terminating anteriorly in small horns (horns may be abraded off in older specimens).

Comments

Adult males are easily recognized by the extremely long plumose seta on the uropodal exopod (Given 1965).

Additional Characters found in Puget Sound females: Dorsal spine on the carapace, a row of short hairs dorsally from the pseudorostrum to the end of the last abdominal segment, first pereopod with a long, plumose seta distally on the inner margin of the second segment and a row of medium-sized setae along the inner margin of the fifth segment (Lie 1969).

From Lie 1969: According to Calman (1912), some specimens from the east coast of North America have a minute tooth dorsally on the carapace about 1/3 of the distance from the pseudorostrum, but Bering Sea specimens lack such a tooth. All the females from Puget Sound have a strong tooth on the carapace but agree in all other characters with specimens of the type material...

Literature

- Given, P. 1965. Five collections of Cumacea from the Alaskan Arctic. *Arctic* 18(4): 213-229.
- Lie, U. 1969. Cumacea From Puget Sound and Off the Northwestern Coast of Washington, With Descriptions of Two New Species. *Crustaceana* 17 (1): 19-30.
- Smith, S.I. 1879. The Stalk-Eyed Crustaceans of the Atlantic Coast of North America North of Cape Cod. *Transactions of the Connecticut Academy of Arts and Sciences* 5: 1-144. (pp. 116-118)
- Watling, L. 1991. Revision of the Cumacean Family Leuconidae. *Journal of Crustacean Biology* 11 (4): 569-582.

More Information

<p>More information about Puget Sound benthic invertebrates is available at: http://www.ecy.wa.gov/programs/eap/psamp/index.htm</p>	<p>Prepared by Dany Burgess (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/1603203.html</p>	<p>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.</p>
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