

***Megamoera dentata* (Krøyer, 1842)**

| Nomenclature                               |   |
|--|---|
| Phylum                                     | Arthropoda  |
| Class                                      | Malacostraca  |
| Order                                      | Amphipoda   |
| Family                                     | Melitidae   |
| Authority                                  | (Krøyer 1842)   |
| Original Description                       | Krøyer, H. 1842.  |
| Common Synonyms (S)<br>Previous Names (PN) | <i>Gammarus dentatus</i><br><i>Megamoera dentata</i><br><i>Melita dentata</i> |

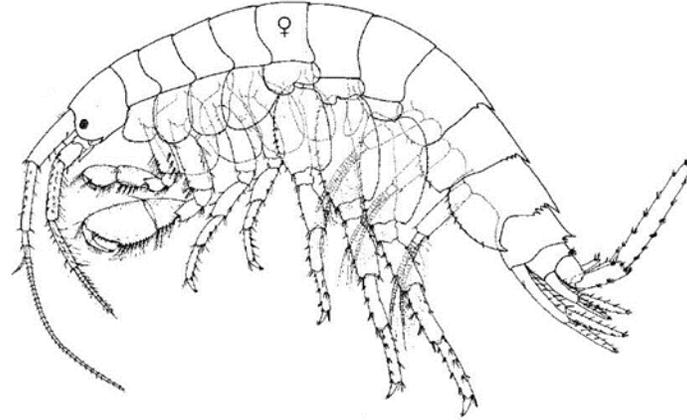


| Distribution            |  |
|-------------------------|--|
| Type Locality           |  |
| Geographic Distribution | Cosmopolitan in Arctic to cold temperate northern hemisphere oceans (Chapman 2007) |
| Habitat                 | Rocky and sedimentary bottoms to 28 mm; intertidal - 672 m (Chapman 2007)          |

| Description   |
|---|
| From Jarrett and Bousfield 1996   |
| Male to 28 mm, Female, 15 mm.   |
| Anterior head lobe strongly rounded, lower margin smooth, inferior notch small. Eye rounded, small to medium. Antenna 1, peduncular segment 3 short; accessory flagellum 4-5 segmented; flagellum ~35 segmented. Antenna 2, flagellum short, little longer than peduncular segment 5, 18-segmented.   |
| Female G1, propod short, nearly as deep as long, palm gently convex, nearly vertical; dactyl finely serrate along inner margin. Female G2, propod subrectangular, longer and broader than carpus, palm oblique, nearly straight, weakly toothed, 2/3 length of hind margin; dactyl, outer margin strongly setose. Male G1, bases antero-distally weakly setose; carpus relatively long and shallow with distinct, setose lower margin; propod shorter, expanding distally, palm long, dactyl regular, lacking proximal bulge. Male G2, carpus relatively long, medium deep, lower margin distinctly setose; propod large, subrectangular, slightly broadened distally, palm oblique, with strong hinge tooth, hind margin with 10-12 setal clusters; dactyl stout, apex blunt, outer margin with a few short setae. |
| Coxa 1 not expanded distally, anterior margin sharply rounded. Coxa 4 relatively narrow, lower margin convex, oblique, antero-distally sharply rounding. P3-4 unequal, dactyls medium. P5-7, bases regular, hind margins finely crenulate, dactyls medium.  |
| Pleon segments 1-3 with centre tooth and 1-3 lateral denticles on each side; pleon plate 3 with centre tooth and 3 denticles. Urosome segment 1 with central tooth and 1-2 lateral denticles; urosome 2 with 2 pairs of short teeth and single spines. Pleon plates 2, hind corner acuminate, pleon 3, hind corner moderately produced, acute.  |

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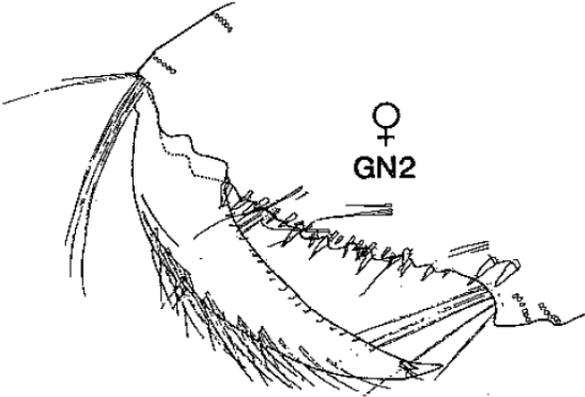
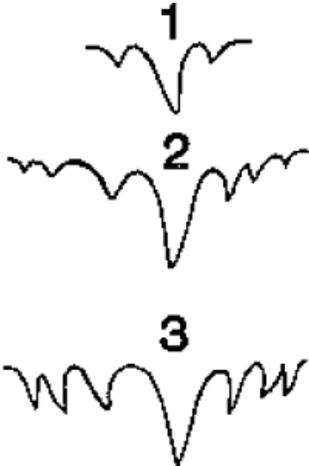
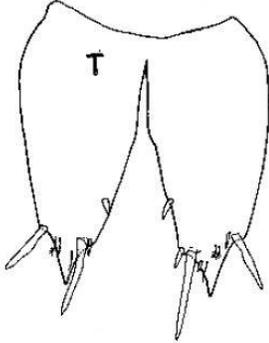
U1 and 2, rami elongate, strongly spinose, tips extending beyond peduncle of U3, outer ramus shorter. U3, outer ramus slender, margins with 5-6 clusters of short spines; terminal segment short, length about twice basal width. Telson lobes slender, diverging distally, fused basally; lateral and medial subapical notches about equidistant from apices; subapical and inner marginal spines medium length; inner marginal spine(s) short.



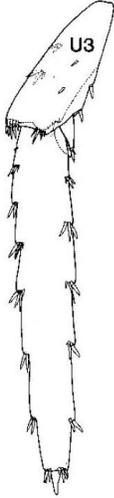
## Diagnostic Characteristics

| Diagnostic Characteristics   | Photo, Illustrations | Photo, Illustration Credit             |
|--|----------------------|--|
| <p>Urosome segment 1 with 3+ posterodorsal teeth (at least one on each side of median tooth) - characteristic of genus</p> |                      | <p>Marine Sediment Monitoring Team</p> |

*Megamoera dentata*

|  |  |                                     |
|--|--|-------------------------------------|
| <p>Male, gnathopod 2 dactyl strongly setose anteriorly; distally blunt</p>     |    | <p>Jarrett &amp; Bousfield 1996</p> |
| <p>Pleon segment 1 with only one denticle on each side of the median tooth</p> | <p style="text-align: center;"><b>PLEON</b></p>  | <p>Jarrett &amp; Bousfield 1996</p> |
| <p>Pleon segment 3 with center tooth and 3 denticles on each side</p>          |  |                                     |
| <p>Telson, apical spines long</p>  |   | <p>Jarrett &amp; Bousfield 1996</p> |

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|   |   |   |
|---|---|---|
| <p>Uropod 3, proximal segment of outer ramus slender, with 5-6 clusters of marginal setae</p> |  | <p>Jarrett &amp; Bousfield<br/>1996</p> |
|---|---|---|

## Related Species and Characteristic Differences

| Species Name                     | Diagnostic Characteristics  |
|----------------------------------|---|
| <p><i>Megamoera subtener</i></p> | <p>Gnathopod 2 dactyl distally blunt and with only a few anterior setae; pleonite 1 with multiple lateral denticles on each side of the median tooth.</p> |

## Comments

From Jarrett and Bousfield 1996: The type species shows considerable variation in material from Europe, eastern North America, and the Bering Sea. However, the number of dorsal teeth on pleonal and urosomal segments compares closely with that of similar sized females from Hudson Bay, Canadian Arctic, and from Spencer I., Nova Scotia.

## Literature

Chapman, J. W. 2007. Gammaridea. In: Carlton, J. T., Eds. *The Light and Smith Manual. Intertidal Invertebrates from Central California to Oregon*. 4<sup>th</sup> ed. Los Angeles, CA: University of California Press. pp. 545-618. (pp. 557, 607, 608, 610)

Jarrett, Norma E., and Edward L. Bousfield. 1996. The amphipod superfamily Hadzioidea on the Pacific coast of North America. Family Melitidae. Part I. The Melita group: Systematics and distributional ecology. *Amphipacifica* 2(2): 3-74. (p. 19)

Krøyer, H. 1842. Nye nordiske slægter og arter af Amphipodernes orden, henhørende til familien Gammarina. *Krøyer Naturhistorisk Tidsskrift*, 4: 141-166.

Stebbing, T. R. R. 1906. Amphipoda I. Gammaridea. *Das Tierreich* 21:1-806, figures 1-127. (p. 427)

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| More Information   |  |   |
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| <p>More information about Puget Sound benthic invertebrates is available at:<br/><a href="http://www.ecy.wa.gov/programs/eap/psamp/index.htm">http://www.ecy.wa.gov/programs/eap/psamp/index.htm</a></p> | <p>Prepared by Julianne Ruffner (Department of Ecology), Cassandra McNeal (University of Washington - Tacoma), and Jeffery Cordell (University of Washington - Seattle) on 3/7/13. This document is available on the Department of Ecology's website at <a href="https://fortress.wa.gov/ecy/publications/SummaryPages/1403227.html">https://fortress.wa.gov/ecy/publications/SummaryPages/1403227.html</a>.</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> |