

Tabular Key to Male Gnathiid Isopods from the North East Pacific

Characters	<i>Caecognathia crenulatifrons</i>	<i>Caecognathia Sp. A</i>	<i>Caecognathia SD1</i>	<i>Caecognathia sanctaerucis</i>	<i>Caecognathia CS1</i>	<i>Gnathia MBC1</i>	<i>Gnathia steveni</i>	<i>Gnathia tridens</i>	<i>Gnathia coronadoensis</i>	<i>Gnathia clementensis</i>	<i>Gnathia trilobata</i>	<i>Gnathia productatridens</i>
Overall Body Size	Average (3.5 – 4.75) mm	Small (2.6 mm)	Small (2.76 – 3.36) mm	Average (4.4 – 4.6) mm	Average (4.1 – 5.0) mm	Very Small (2.2 mm)	Very Small (1.2 - 2.2) mm	Small (2.35 – 3.35) mm	Small (2.45mm)	Large (4.6 - 8.5) mm	Average (3.15 – 3.6) mm	Average (2.75 – 3.74) mm
Body Pigmentation	Brown Mottling	Brown Mottling	None	Tiny Black Dots	None	None	Brown Mottling	None	None	None	None	None
Overall body setosity	Light	Setose but not hirsuit	Hirsute	Hirsute	Hirsute	Light	Light	Setose but not hirsuit	Asetose	Hirsuit	Setose but not hirsuit	Setose but not hirsuit
Mandibles with distinct outer tooth	Present	Present	Absent	Absent	Absent	Present	Present	Present	Absent	Absent	Present	Absent
Mandibles 1 or 2 articles	One article	Two articles	One article	One article	One article	One article	One article	One article	One article	One article	One article	One article
Mandibular blade	Microcrenulate	Crenulate	Microcrenulate	Microcrenulate	Smooth	Dentate	Dentate	Crenulate	Crenulate	Crenulate	Crenulate	Crenulate
Eyes	Sessile	Sessile	Sessile	Sessile	Sessile	Sessile	Sessile	Sessile	Absent	Peduncular	Sessile	Sessile
Eye Color	Dark Brown	Reddish Brown	Golden or Amber	Dark Brown	No Pigment	Reddish Brown	Dark Brown	Reddish Brown	No eyes	No Pigment	Golden or Amber	Red and White Checkerboard
Eye Shape	Oblong and Flat	Round and Convex	Oblong and Convex	Round, Convex	Round, Convex,	Round and Convex	Round and Convex	Round and Flat	No eyes	Round and Convex	Oblong and Convex	Oval and Flat
Eye Lens Texture	Compound but smooth	Compound but smooth	Compound but smooth	With many tuberculations	With many tuberculations	Compound but smooth	Compound but smooth	Compound but smooth	None	Compound but smooth	Compound but smooth	Compound but smooth
Eye Lens Supraocular Ornamentation	No	Yes	Yes	Yes	Yes	Yes	Slight	No	No	Yes	Slight	No
Dorsal Sulcus	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cephalic Pit	No	No	No	No	No	No	No	No	Yes	Yes	No	No
Cephalon	Tuberculate	Setose but Smooth/No Tubercles	Setose, Tuberculate with spines	Setose and Tuberculate	Setose and Tuberculate	Setose but Smooth/No Tubercles	Setose and Tuberculate	Asetose and Smooth	Asetose and Smooth	Setose and Tuberculate	Setose and Tuberculate	Setose and Tuberculate
Cephalic Dorsal Carina	No	No	Spine crown	No	No	Yes	Yes	No	No	No	No	No
Frons	1 transverse lobe with minute crenulations	1 extended narrow lobe with crenulations	1 broad truncate lobe w/ medial carina	1 large triangular lobe	1 extended, narrow lobe	One extended box process	3 processes medial triangular	3 processes all subequal	3 processes laterals longer than middle	2 lrg laterall & 4subequal central processes	3 processes all subequal	3 processes all subequal
Pleopods (setosity)	Asetose	Setose	Asetose	Asetose	Asetose	Setose	Setose	Setose	Setose	Asetose	Asetose	Asetose
Pleopods (shape)	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Long, Narrow	Long, Narrow	Long Narrow

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Epimeres (condition)	Laterally projected	Laterally projected	Laterally projected	Laterally projected with spines	Laterally projected with spines	Not laterally projected	Not laterally projected	Laterally projected	Laterally projected	Laterally projected	Laterally projected	Laterally projected
Epimeres single or double	Single, Dorsal only	Single, Dorsal only	Single, Dorsal only	Double Ventral larger	Double Ventral larger	Single, Dorsal only	Single Dorsal only	Single, Dorsal only	Single, Dorsal only	Double Ventral larger	Double Ventral larger	Single
Dorsal epimeres prominent posteriorly	No, subequal Visible Tapering acutely	No, subequal Visible Tapering acutely	No, subequal Visible Tapering acutely	Yes, each epimere is bifid with two small spines on each side	Yes, each epimere is bifid with two small spines on each side	No, subequal, very small not easily seen	No, subequal very small not easily seen	Slightly, Epimeres Visible Tapering acutely	No, subequal Visible Tapering acutely	No, subequal Visible Tapering acutely	No, subequal all small not easily seen	No, subequal, Visible Tapering acutely
Ventral epimeres larger	N/A	N/A	N/A	Yes, each as one large spine	Yes, each as one large spine	N/A	N/A	N/A	N/A	Yes, each as one large spine	Yes, each as one large spine	N/A
Ventral Epimeres prominent posteriorly	N/A	N/A	N/A	Yes	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A
Telson extends beyond the endopod	No	No	No	No	No	No	No	No	No	No	Yes	No
Telson Size	Long and wide	Medium and narrow	Long and wide	Medium and narrow	Long and narrow	Short and wide	Short and wide	Short and wide	Long and wide	Long and narrow	Long and narrow	Long and narrow
Telson Shape	Triangular ▼	Triangular ▼	Arrowhead-shaped	T-Shaped	T-Shaped	Triangular ▼	Triangular ▼	Triangular ▼	Triangular ▼	T-Shaped	Arrowhead-shaped	Arrowhead-shaped