Dean Pasko, 29-Sep-2023; Rev 01-Oct-2024

1.	Pleon and urosome (abdomen) vestigial; pereonites typically elongate, cylindrical in free- living forms; pereonite 1 fused to head; gills three or fewer pairs; female brood plates two pairs ( <b>Figure 1</b> ) <b>Caprellida</b>
—	Abdomen prominent; pereonites generally laterally compressed; pereonite 1 and head separate; more than three pairs of gills and brood plates
2.	Body vermiform, without coxal or epimeral plates; gnathopods represented by compound claw ("dactyl") formed of propodus and dactyl closing carpus; living interstitially or within crevices ( <b>Figure 2</b> )
—	Body typically not vermiform, coxal and epimeral plates well developed, visible; gnathopod l formed of dactyl closing against propodus when not vestigial
3.	Telson fleshy, thick, short, minute or indistinct, not readily articulated at junction with urosomites, sometimes difficult to discern; rami of uropod 3 (if present) shorter than peduncle (with numerous exceptions) ( <b>Figure 4</b> )
	Telson flat, laminar, and moveable, usually distinct and readily visible; uncleft or deeply cleft; rami of uropod 3 always present and usually longer than the peduncle ( <b>Figures 27 &amp; 29</b> )
4.	Antennae and appendages strongly fossorial (see Figure 3); peduncular segments of antenna 2 posteriorly expanded; body broadened through pleon while urosome is much reduced <b>and</b> strongly bent, positioned ventral to pleon; articles 2–4 of pereopods 5–7 strongly expanded ( <b>Figure 3</b> )
	Above character states not combined: appendages and uropods not strongly fossorial; peduncular articles of antennae and articles 2–4 of pereopods 5–7 not strongly expanded urosome normally aligned, not ventral to pleon
5.	Antenna 1 no longer than the head, much shorter than antenna 2; telson with 10 or more irregularly distributed stout spines; pereopods particularly heavy; terrestrial or semi-terrestrial ( <b>Figure 4</b> )
	Antenna 1 significantly longer than the head, subequal to or larger than antenna 2; telson with six or less irregularly spaced stout spines (not counting long spines or setae); entirely aquatic or intertidal
6.	Uropod 3 indistinct or absent (Figures 7 & 8)
	Uropod 3 large and readily visible (Figures 9–12)
7.	Body dorsoventrally flattened, coxae 1–4 deeper than broad and splayed outward; rostrum spatulate; antenna 1 peduncular articles with distinct ventral processes ( <b>Figure 5</b> )
	Body laterally compressed or tubular; coxae 1-4 not splayed outward; rostrum small or absent

**NOTE:** This Key was built upon previous works of Chapman (2007) and Cadien's Amphipoda of the Northeast Pacific: 1–XXIX, the latter of which is available at the SCAMIT Website (https://scamit.org/tools/. Users are welcome to contact the author at <u>deanpasko@yahoo.com</u> to suggest corrections and make suggestions for improvement.

8.	Telson fused to urosome, and urosomites 2 and 3 fused; coxae 1–4 small, rounded; coxa 5–7 smaller, rectangular, distinctly wider than deep; burrows into kelp ( <b>Figure 6</b> )
	Eophliantidae (Lignophliantis pyrifera)
	Telson separate from urosome; body laterally compressed; other characters not combined9
9.	Pereonites 6 and 7 fused; gills absent from pereonite 6; urosomite 1 greatly elongated (>2x longer than wide) (Figure 7)
	Pereonites 6 and 7 not fused together, independent; gills present on pereonite 6; urosomite 1 relatively short, length $\leq 2x$ width (Figure 8)Podoceridae
10.	Pleonite 3 with immense posteriorly projecting dorsal tooth; uropod 2 peduncle greatly expanded, uropods 2 and 3 enormous ( <b>Figure 9</b> ) <b>Cheluridae</b> ( <i>Chelura terebrans</i> )
	Pleonite 3 without posteriorly projecting dorsal tooth; uropod 2 without greatly expanded peduncle
11.	Uropod 3 biramus, rami generally prominent (short or long), inner ramus not scale-like (Figures 10, 12, 15)
	Uropod 3 uniramus ( <b>Figure 21</b> ) or with minute, scale-like inner ramus that is indistinct and difficult to observe
12.	Uropod 3 outer ramus bearing conspicuous hooks ( <b>Figure 10</b> ) or small denticles, the latter of which may only be visible under high magnification
	Uropod 3 rami with setae or short, straight spines but not hooks or denticles (Figures 14–15)
13.	Outer ramus of uropod 3 stout, with two heavy, hooked spines and inner ramus flat and apically setose (Figure 10)Ampithoidae
	Outer ramus of uropod 3 apically stout and bearing a single large hook or relatively slender and either denticulate or unornamented ( <b>Figure 11</b> ) ( <b>Note</b> : two exceptions, <i>Ericthonius</i> and <i>Notopoma</i> , both of which have uniramus uropod 3) Ischyroceridae (in part)
14.	Eyes completely enclosed on produced ocular lobes that extend about one-half way along the first article of antenna 1 (best viewed from dorsal perspective); uropod 3 biramus, peduncle much shorter than rami, without disto-ventral corona of fine spines; male gnathopod 1 carpochelate ( <b>Figure 12</b> )
	These character states not combined15
15.	Gnathopod 2 more robust than gnathopod 1—compare article 6 of gnathopods 1 and 2 (Figures 13–15)
	Gnathopod 1 larger, more robust than gnathopod 2 (less so in females) (Figure 16)18
16.	Urosomites 1 and 2 fused; percopods 5–7 progress from very short to long: percopod 5 being much shorter than 6, which is much shorter than 7; percopod dactyls 5–7 strong, heavy, bifurcate ( <b>Figure 13</b> )
	Urosomites 1 and 2 free; percopods 5–7 follow normal, gradual elongation; dactyls simple17

17.	Coxa 1 larger than coxa 2; uropod 3 inner ramus between one-third to two-thirds of outer ramus ( <b>Figure 14</b> ) <b>Corophiidae</b> (in part: Protomedeiinae) <sup>iii</sup>
	Coxa 1 smaller than coxa 2; uropod 3 rami either subequal ( <i>Gammaropsis</i> ) or less than one-third of outer ramus ( <i>Photis</i> ) ( <b>Figure 15</b> ) <b>Photidae</b> (in part)
18.	Head lobe acute; pereopod 7 not very elongate, article 6 not extending beyond pereopod 6 (Figure 16)Unciolidae
	Head lobe blunt or rounded; percopod 7 article 6 extends beyond percopod 6 (Figure 17)
	Aoridae
19.	Ocular (head) lobe immense, extending beyond first article of antenna 1 (best viewed dorsally); uropod 3 peduncle short, slightly longer than broad ( <b>Figure 18</b> )
	Photidae (in part: Ampelisciphotis podopthalma)
—	Ocular lobe not immense, not extending beyond first article of antenna 1; uropod 3 peduncle long, twice as long as broad
20.	Combined lengths of urosomites 2 and 3 greater than one-half of urosomite 1 or urosomites 1– 3 fused ( <b>Figures 19–20</b> ); mandibular palp present ( <b>Figure 32</b> ); oöstegites lined with evenly curved or straight setae
—	Urosomites 2 and 3 combined lengths less than one-half of urosomite 1 ( <b>Figures 22–23</b> ); mandibular palp absent ( <b>Figure 33</b> ); oöstegites lined with distally curled setae
21.	Male gnathopod 1 or gnathopod 2 carpochelate; pereonite 2 with coxal gill
	Male and female gnathopod 2 merochelate or simple (not carpochelate), ventrally lined with long pinnate setae, and larger than gnathopod 1; pereonite 2 lacking coxal gill ( <b>Figure 19</b> )
22	Male gnathopod 1 carpochelate ( <b>Figure 20</b> ) <b>Aoridae</b> (in part: <i>Grandidierella japonica</i> )
	Male gnathopod 2 carpochelate (Figure 21)
	Ischyroceridae (in part: <i>Ericthonius</i> and <i>Notopoma</i> sp A)
23.	Head anteriorly decurved, antenna 1 insertion ventral to the eye; uropod 3 ramus indistinct; mandibular molar indistinct flat plate; restricted to algal habitats ( <b>Figure 22</b> )
	<b>Najnidae</b> ( <i>Carinonajna kitamati</i> )
	Head anteriorly square, antenna 1 insertion dorsal to the eye; uropod 3 ramus short, readily apparent; mandibular molar prominent
24.	Telson uncleft; pleonites 1 and 2 postero-dorsal margin acutely produced (Figure 23)
	Telson cleft one-third or more its length
25.	Telson cleft one-third its length; uropod 3 ramus with terminal spines only, margins naked; maxilla 1 palp extremely reduced or absent ( <b>Figure 24</b> ) <b>Dogielinotidae</b>
_	Telson cleft one-half or more its length; uropod 3 ramus with short stout marginal and terminal spines; maxilla 1 palp extending to distal end of outer plate ( <b>Figure 25</b> )

26.	Body elongate, subcylindrical, thin; flagellum of antennae 1 and 2 strongly reduced (one to few segments); coxae minute, very short, and overlapping ( <b>Figure 26</b> )
	Colomastigidae (Colomastix sp A)
—	Body laterally compressed, not notably elongate or cylindrical; flagellum of antennae not reduced, normal with multiple segments; coxae of varying lengths, not uniformly short27
27.	Gnathopod 1 vestigial, reduced to two articles (coxa plus linear basis); telson laminar and deeply cleft (Figure 27)Bateidae
	Gnathopod 1 normally articulated; telson cleft or uncleft
28.	Coxa 1 small, often less than one-half of coxa 2, and obscured by coxa 2; coxae 2–4 often enlarged
	Coxa 1 at least half as large as coxa 2; coxae 2–4 progressing normally
29.	Gnathopod 1 carpochelate (Figure 28)
	Leucothoidae (In part: Anamixinae, Anamixis pacifica)
	Gnathopod 1 simple, transverse or subchelate, not carpochelate (Figures 28–29)
30.	Uropod 3 biramous, rami uniarticulate; uropod 2 not reaching distal end of uropod 3; article 5 of gnathopods 1 and 2 extend along the posterior edge of article 6 ( <b>Figure 29</b> )
	Amphilochidae
—	Uropod 3 uniramus, ramus biarticulate; uropod 2 terminating with uropods 1 and 3; article 5 of gnathopod 2 short, not extending along posterior edge of article 6 ( <b>Figure 30</b> )
	Stenothoidae
31.	Urosomites 2 and 3 fused – interpret carefully as some taxa (e.g., Pardaliscidae and Platyischnopidae) have a narrowed urosomite 2 (compare <b>Figures 31, 48, and 51</b> )32
	Urosomites separate (Figures 47, 48, 51)
32.	When present, with four eyes (two per side), consisting of a anterodorsol and anteroventral cuticular lens; pereopod 3 and 4 dactyls as long as or longer than articles 5 and 6 combined; pereopods 6 and 7 dissimilar ( <b>Figure 31</b> )
	With one pair of normal, multifaceted eyes; pereopods 3 and 4 dactyls shorter than articles 5 and 6 combined; pereopods 6 and 7 similar;
33.	Multi-articulate mandibular palp present (Figure 32)Atylidae (Atylus tridens)
	Mandibular palp absent or vestigial (Figure 33) Dexaminidae
34.	Gnathopod 2 with article 3 elongate, at least 1.5 times longer than wide
_	Gnathopod 2 with article 3 normal, not markedly elongate
35.	Gnathopod 2 minutely subchelate ("mitten-shaped," dactyl minute, concealed by dense setae); antenna 1, article 1 squat, thickened, depth usually half or more of length; body typically white, compact, shiny and densely calcified ( <b>Figure 34</b> ) <b>Lysianassoidea</b> <sup>iv</sup>
	Gnathopod 2 not "mitten-shaped," dactyl typically prominent but never concealed by dense setate; antenna 1, article 1 not exceptionally thickened, usually longer than deep

36.	Pereonites smooth, without dorsal or dorsolateral crests or processes	7
	Pereonites with dorsal or dorsolateral crest(s) or processes	)
37.	Rostrum and eyes present; obligate fish parasite (Figure 35)Lafystiidae	•
	Rostrum and eyes absent	)
38.	Gnathopods 1 and 2 nearly simple; gnathopod 2 propod elongate, narrow (Figure 36)	,
		7
	Gnathopods 1 and 2 subchelate (Figure 37)	
		)
39.	Rostrum and eyes absent (Channel Islands) (Figure 38)	
		)
	Rostrum and eyes present	)
40.	Pereonites and pleonites strongly cuspidate; mandibular palp well-developed, article 3 not reduced; telson short, laminar, weakly cleft to weakly emarginated (Figure 39) Iphimediidae	è
—	Pereonites 7 and pleonites 1 and 2 weakly cuspidate; article 3 of mandibular palp much reduced; telson elongate, deeply cleft ( <b>Figure 40</b> )	
		)
41.	Rostrum strongly decurved, often helmet-shaped; eyes, when present, frequently positioned dorsally, sometimes coalesced (Figures 41–42)	)
	Rostrum present or absent, rarely strongly decurved or helmet-shaped; eyes typically positioned laterally on head	,
42.	Telson short, evenly rounded or emarginate; urosome dorsally unarmed; gnathopod 1 article 6 normally robust ( <b>Figure 41</b> ) <b>Oedicerotidae</b> (In part)	)
	Telson long, cleft; urosomites 1 and 2 dorsally toothed; gnathopod 1 article 6 weak (Figure 42)	ì
43.	Gnathopod 1 carpochelate (Figure 43)Leucothoidae (In part, Leucothoinae)	)
	Gnathopod 1 not carpochelate	ŀ
44.	Coxa 4 deeper than coxa 3 by nearly 50% or more	;
_	Coxae 3 and 4 of the same depth	)
45.	Coxae 1–3 become progressively smaller, with coxa 3 the smallest and coxa 4 much enlarged; eye composed of four distinct, round ommatidia ( <b>Figure 44</b> ) <b>Argissidae</b> ( <i>Argissa hamatipes</i> )	)
	Eye variously shaped, multifaceted; coxa 2 larger than coxae 1 or 3 (Figure 45)	) )
46.	Fossorial—antennae 2 peduncle and articles 4–6 of pereopod 5 lined with stout spines (Figures 46–49); body often white, shinv and strongly calcified	7
	Nonfossorial—antennae 2 and articles 4–6 or percopod 5 weakly setose or, if densely setose or spinose, setae and spines thin, not stout ( <b>Figures 50–52</b> )	)

47.	Rostrum present; coxal gills on pereonites 2–7
	Rostrum absent; coxal gills on pereonites 2–6; entirely freshwater or low-salinity estuary (Figure 46)
48.	Head truncated, short, with rostrum weak or absent; anteroventral cephalic margin extended downward; antenna 1 peduncular articles elongate (Figure 47)
	Head typically elongate, rostrum strong, occasionally weak or narrowed in front of eyes; ventral cephalic margin poorly developed, not ventrally produced; antenna 1 articles compact 
49.	Rostrum strong, cylindrical, with subapical ventral process directed posteriorly between antennae; pereopods 6 and 7 subsimilar, pereopod 7 slightly longer ( <b>Figure 48</b> )
—	Rostrum visor-like or narrowed anterior to eyes, not cylindrical and without ventral process; pereopod 7 different in form and $\geq$ 40% shorter than pereopod 6 ( <b>Figure 49</b> )
	Phoxocephalidae
50.	Coxae 1–4 short (i.e., shallow); coxae 3 and 4 subequal, posterior margin of coxa 4 not excavate nor concave <b>and</b> uropod 3 rami or telson never lined with robust spines
	Coxae 1–4 of varying sizes and shape (usually deeper than long); coxae 3 and 4 typically different, posterior margin of coxa 4 often slightly concave, proximally excavate, or lobed [NOTE uropod 3 rami and/or telson of Melitidae, Maeridae, and Horneillidae are lined with robust spines even if coxa 4 does not appear excavate or concave]
51.	Eyes laterally bulging; pleonites strongly toothed, epimera posterior margins serrate; telson short and emarginated ( <b>Figure 50</b> ) <b>Melphidippidae</b> ( <i>Melphisana bola</i> Cmplx) <sup>viii</sup>
—	Eyes absent or normal, not bulging laterally; pleonites weakly toothed, posterior margins not serrate; telson frequently elongate and deeply cleft (Figure 51)Pardaliscidae
52.	Accessory flagellum of two or more articles, apparent at magnifications of 40x or less; telson cleft <b>with</b> prominent distal setae or spines
—	Accessory flagellum absent or of single article; telson cleft or uncleft <b>without</b> prominent, stout, distal setae or spines
53.	Telson evenly rounded or emarginated (Figures 52–53)
	Telson cleft more than one-quarter length or elongate and notched (Figures 55–56)
54.	Pereopods 6 and 7 of similar length and shape; coxa 4 excavate proximally; dactyls of pereopods often short and/or falcate
—	Pereopod 7 much longer than pereopod 6; dactyls of pereopods elongate, nearly straight; coxa 4 not excavate proximally, posterior margin straight or weakly concave ( <b>Figure 52</b> )

55.	Gnathopod 2 with articles 5 and 6 much elongated (length $\geq$ 5x width); inner and outer lobes of lower lip not pillow shaped, outer lobes bearing large extensions ( <b>Figure 53</b> )
	Gnathopods with article 5 or 6 normally proportioned (never over 3x width); lower lip with inwardly tilting pillow shaped inner and outer lobes ( <b>Figure 54</b> ) <b>Pleustidae</b>
56.	Telson broad, relatively short, barely reaching beyond uropod 3 peduncle, each lobe typically rounded or squared ( <b>Figure 55</b> ) <b>Pontogeneiidae</b>
—	Telson tapering, elongate, often reaching to mid-point of uropod 3 rami (Figure 56) Eusiridae
57.	Mandibular molar reduced, palp article 1 elongate (nearly one-half article 2); pereopod 7 longer and stronger than pereopod 6 ( <b>Figure 57</b> ) <b>Liljeborgiidae</b>
—	Mandibular molar prominent, palp article 1 short ( $\leq 1/4$ of article 2); percopods 6 and 7 subequal or percopod 7 shorter than 6
58.	Antenna 1 accessory flagellum with 3 or more segments; percopod 7 subequal to or longer than percopod 6
	Antenna 1 accessory flagellum with 2 segments, terminal segment much reduced; pereopod 6 longer pereopod 7 (Figure 58)
59.	Gnathopod 1 subequal to, and sometimes larger than gnathopod 2; all urosomal segments with dorsal and dorsolateral clusters of stout spines or setae ( <b>Figure 59</b> )
	Gammaroidea (Gammaridae/Anisogammaridae) <sup>x</sup>
	Gnathopod 1 distinctly smaller than gnathopod 2; urosome dorsum bare or variously toothed but without clusters of spines, if spines present, inserted singly among serrations of abdominal segments
60.	Antenna 2 longer than antenna 1; antenna 1 accessory flagellum long, from five to seven segments; eye large, reniform; gnathopod 2 article 5 narrow, elongate ( <b>Figure 60</b> )
	Antenna 1 longer than antenna 2; accessory flagellum short; eye typically round, relatively small; gnathopod 2 article 5 typically short and more or less ventrally lobate
61.	Inner ramus of uropod 3 strongly reduced, less than one-fifth as long as outer ramus ( <b>Figure</b> 61)
	Ramus of uropod 3 similar in length (Figure 62)

# ENDOTES

<sup>i</sup> The one record from the SCB came from the Northern Channel Islands collected during the 2008 Regional Monitoring Program

<sup>ii</sup> See Cadien, DB (2015) [Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): II. Talitroidea - a review. Donald B. Cadien 24March2006 (revised 27Mar2015)] for a listing of species found in the NEP and Bousfield, EL (1982) for a key to the species. [The Amphipod Superfamily Talitroidea in the Northeastern Pacific Region. 1. Family Talitridae: Systematics and Distributional Ecology. Publications in Biological Oceanography 11: 1-73.]

<sup>iii</sup> Note that *Cheiropohotis* has a short uropod 3 inner ramus like *Photis*, just different in structure.

<sup>iv</sup> A Key to North Eastern Pacific Lysianassoid genera can be found in Cadien, (2015). Cadien, D.B. 2015. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XV. Lysianassoidea – an updated and revised review Donald B. Cadien, LACSD 15Feb2007 (Revised 29Mar2015), which can be found in the SCAMIT toolbox <u>http://www.scamit.org/taxontools/toolbox</u>. D Pasko produced a key restricted to species from the Southern California Bight: Artificial Key to the Lysianassoidea Reported from the Southern California Bight, SCAMIT Ed 14 (Rev20June2023).

<sup>v</sup> In addition to *Alania hancocki* (Hurley 1956) listed in SCAMIT Ed 14, two specimens representing previously unreported species were collected in Bight'23 samples, both from >400m samples. While A. hancocki has epimeron 3 bluntly produced with ~9 fine serrations at the posterior angle, one of the new taxa has epimeron 3 distinctly notched, and the second has epimeron 3 rounded and smooth, among other distinguishing characters.

<sup>vi</sup> Pontoporeiidae are a primarily freshwater family. The family is included here because some members may be found in low salinity environments encountered during some regional sampling efforts.

<sup>vii</sup> Urothoe elegans Bate 1857, a north Atlantic species, and U. varvarini Gurjanova 1953 are very similar and may represent the same species. SCAMIT has not been able to adequately resolve the two species and reports them as a species complex, Urothoe elegans Cmplx.

<sup>viii</sup> Due to considerable variability in the telson of specimens from the Northeastern Pacific, there is insufficient information to separate *Melphidippa amorita* and *Melphisana bola*, which led to the adoption of *Melphisana bola* Cmplx designation by SCAMIT.

<sup>ix</sup> Crangonyctidae are a primarily freshwater family. The family is included here because some members may be found in low salinity environments encountered during some regional sampling efforts.

<sup>x</sup> Members of the superfamily Gammaroidea (Anisogammaridae and Gammaridae) are found along shorelines in estuaries, tidal creeks, and freshwater environments.

<sup>xi</sup> These two families remain difficult to distinguish, even with the revision of Lowry and Myers (2013). The following comparison was excerpted directly from their publication. "*Maeridae is also very similar to Melitidae. They are separated by the head shape of lateral cephalic lobe* [not described]; gnathopod 1 with robust setae along palm; the form of the first and second uropods and the inner ramus of uropod 3." The latter is the only valid character." A key to the genera representing these two families can be found in Cadien (2015). Cadien, D.B. 2015. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): X. Hadzioidea – an expanded and updated review Donald B. Cadien, LACSD 31Aug2005 (revised 8Mar2015), which can be found in the SCAMIT toolbox http://www.scamit.org/taxontools/toolbox.



Figure 1. Caprellida: Caprellidae Caprella penantis.



Figure 4. Talitridae: Traskorchestia traskiana.



**Figure 6. Eophliantidae:** *Lignophliantis pyrifera, lateral view; Eophliantis tindalei* urosome.



Figure 8. Podoceridae: Podocerus cristatus.

Figure 3. Haustoridae: Eohaustorius washingtonianus.



**Figure 5. Phliantidae:** *Pariphinotus seclusus* (lateral and dorsal views); *Pariphinotus escabrosus,* antenna 1.



**Figure 7**. **Dulichiidae:** *Dulichia rhabdoplastis,* head dorsal view.



**Figure 9. Cheluridae:** *Chelura terebrans.* 



**Figure 10. Ampithoidae**: *Ampithoe valida*; uropod 3 (Ur  $3_1$ ) of *Ampithoe kaneohe*.



**Figure 11. Ischyroceridae:** *Jassa slatteryi*; uropod 3 (U3) of *J. falcata*.



Figure 14. Protomeidae, Protomedeiinae: Protomedeia articulata; inset, uropods 1-3 of Cheiriphotis megacheles.



**Figure 12. Kamikidae:** *Amphiaeutopus oculatus*, head dorsal and lateral view.



Figure 13. Chevaliidae: Chevalia inaequalis.



**Figure 15.** Photidae: *Gammaropsis shoemakeri*; uropod 3 (Ur3) of *Photis brevipes*.



**Figure 16. Unicolidae, Acuminideutopinae**: Rudilemboides naglei; uropod 3 of Rudilemboides stenopropodus (A) and Acuminodeutopus heteruropus (B).





Figure 18: Photidae: Ampelisciphotis podophthalma.



Figure 20. Aoridae: Grandidierella japonica, male.



**Figure 19: Corophiidae, Corophiinae:** *Americorophium spinicorne*; generic merochelate gnathopod 2.



Figure 21. Ischyroceridae: Ericthonius brasiliensis.



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anamorph whole.

head and pereonites 1-3.



Page 13 of 24 Figure 36. Stegocephaliidae: Alania hancocki.



**Figure 37. Valettiopsidae:** *Valettiopsis dentatus* (Holmes 1908) (from JL Barnard 1967).



Figure 39. Iphimediidae: *Iphimedia rickettsi* mandible and palp.



Figure 41. Oedicerotidae (In part): Hartmanodes hartmanae.





**Figure 40. Synopiidae** (In part): *Garosyrrhoe bigarra,* mandible and palp, telson.



Figure 42. Synopiidae (In part): Tiron biocellata.



Figures: Key to the Families of Amphipods Reported in the Southern California Bight & Nearby Environs



Figure 45. Megaluropidae: Gibberosus myersi.



Figure 47. Urothoidae: Urothoe elegans Cmplx.



Figure 46. Pontoporeiidae: Monopreia sp.



Figure 48. Platyischnopidae: Tiburonella viscana.



Figure 50. Melphidippidae: Melphidippa amorita.





Figure 53. Calliopiidae: Oradarea longimana, arrow indicating uniarticulate antenna 1 flagellum.



Figure 55. Pontogeneiidae: Pontogenia inermis.



Figure 54. Pleustidae: Pleusymtes subglaber; Pleusymptinae and Parapleustinae lower lips.



Figure 56. Eusiridae: Rhachotropis oculatus.





Figure 59. Gammaridae: Gammarus daiberi



Figure 61. Melitidae: Desdimelita desdicahada.



**Figure 60. Hornellidae:** *Hornellia tequestae*; pleon and gnathopod 2 of *Hornella occidentalis*.



## FIGURES:

- Figure 1. Caprellidae: Caprella penantis Leach 1814. From Guerra-Garcia, J.M. 2006.
- Figure 2. Infolfielliidea. Ingolfiella fuscina Dojiri and Sieg 1987. From Dojiri and Sieg 1987.
- Figure 3. Haustoridae: *Eohaustorius washingtonianus* Thorsteinson, 1941. From Bousfield and Hoover 1995; Urosome of *Acanchohaustorius intermedius* Bousfield 1965. From Bousfield 1965
- Figure 4. Talitridae: Traskorchestia traskiana (Stimpson 1857). From Bousfield 1982.
- Figure 5. Phliantidae: *Pariphinotus seclusus* (Shoemaker 1933), lateral and dorsal views. From Shoemaker 1933; *Pariphinotus escabrosus*, antenna 1. From JL Barnard 1962b.
- Figure 6. Eophliantidae: *Lignophliantis pyrifera* JL Barnard 1969a. From JL Barnard. 1969a. *Eophliantis tindalei* Sheard 1936, urosome. From From JL Barnard & GS Karaman 1991a.
- Figure 7. Dulichiidae: Dulichia rhabdoplastis, McCloskey 1970. From Laubitz 1977.
- Figure 8. Podoceridae: Podocerus cristatus (Thompson 1879). From JL Barnard 1962.
- Figure 9. Cheluridae: Chelura terebrans Philippi 1839. From JL Barnard & GS Karaman 1991a.
- Figure 10. Ampithoidae: *Ampithoe valida* Smith in Verrill & Smith 1873. From Conlan and Bousfield, 1982; uropod 3 (Ur 3) of *Ampithoe Kaneohe* JL Barnard 1970. From Conlan 1982.
- Figure 11. Ischyroceridae: *Jassa slatteryi* Conlan 1990; uropod 3 (U3) of *Jassa falcata* (Montagu 1808). From Conlan 1990.
- Figure 12. Kamikidae: *Amphideutopus oculatus* JL Barnard in JL Barnard & Reish 1959. From JL Barnard & Reish 1959.
- Figure 13. Chevaliidae: Chevalia inaequalis (Stout 1913). From JL Barnard 1962a.
- Figure 14. Protomeidae, Protomedeiinae: *Protomedeia articulata* JL Barnard 1962. From Conlan 1983.
- Figure 15. Photidae: Gammaropsis shoemakeri Conlan 1983. From Conlan 1983.
- Figure 16. Unicolidae, Acuminideutopinae: *Rudilemboides naglei* Bousfield 1973. From Bousfield 1973. Uropod 3 of *Rudilemboides stenopropodus* JL Barnard in JL Barnard & Reish 1959 (A) and *Acuminodeutopus heteruropus* JL Barnard in JL Barnard & Reish 1959 (B). Both from JL Barnard & Reish 1959.
- Figure 17. Aoridae: (Above) Microdeutopus gryllotalpa A Costa 1853, male. From JL Barnard & Karaman 1991. (Right) Columbaora cyclocoxa Conlan & Bousfield 1982, female. From Conlan & Bousfield 1982.
- Figure 18: Photidae: Ampelisciphotis podophthalma (JL Barnard 1958). From JL Barnard 1958.
- Figure 19: Corophiidae, Corophiinae: *Americorophium spinicorne* Stimpson 1857. From Bousfield & Hoover 1997. Generic merochelate gnathopod 2. From Meyers and Lowry 2003.
- Figure 20. Aoridae: Grandidierella japonica Stephensen 1938, male. From Ariyama 1996.
- Figure 21. Ischyroceridae: Ericthonius brasiliensis (Dana 1853). From Myers McGrath 1984.
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- Figure 23. Hyalellidae: *Hyalella azteca* (Saussure 1858), arrow indicating maxilla 1 palp. From Bousfield 1996.
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- Figure 26. Colomastigidae: *Colomastix* sp A SCAMIT 2012 §. From JL Barnard 1955a, as *C. "pusilla*".
- Figure 27. Bateidae: Batea cuspidate (Shoemaker 1926). From Barnard and Karaman. 1991b
- Figure 28. Leucothoidae: Anamixinae: Anamixis pacifica (JL Barnard 1955), gnathopods 1 and 2. From JL Barnard 1955b. Anamixis papuaensis Thomas 1997, anamorph whole. From Thomas 1997.
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- Figure 33. Dexaminiidae: Guernea reduncans (JL Barnard 1958). From Bousfield and Kendall 1994.
- Figure 34. Lysianassoidea: Orchomene limodes Meador & Present 1985. From Meador & Present 1985.
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- Figure 36. Stegocephaliidae: Alania hancocki (Hurley 1956). From Hurley 1956.
- Figure 37. Valettiopsidae: Valettiopsis dentatus (Holmes 1908). From JL Barnard 1967.
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- Figure 39. Iphimediidae: Iphimedia rickettsi (Shoemaker 1931). From Shoemaker 1931.
- Figure 40. Synopiidae (In part): Garosyrrhoe bigarra (JL Barnard 1962). From JL Barnard 1962.
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- Figure 47. Urothoidae: Urothoe elegans Cmplx. From JL Barnard & Karaman 1991.
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- Figure 49. Phoxocephalidae: Foxiphalus similis (JL Barnard 1960). From Jarrett and Bousfield 1994.
- Figure 50. Melphidippidae: Melphidippa amorita JL Barnard 1966 (From JL Barnard 1966)
- Figure 51. Pardaliscidae: Nicippe tumida Bruzelius 1859. From J L Barnard 1959.
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- Figure 54. Pleustidae: *Pleusymtes subglaber* (JL Barnard & Given 1960). From JL Barnard & Given 1960. Pleusymptinae and Parapleustinae lower lips. From Bousfield & Hendrycks 1994.
- Figure 55. Pontogeneiidae: Pontogenia inermis (Krøyer 1838). From Bousfield 1973.
- Figure 56. Eusiridae: Rhachotropis oculata (Hansen 1888). From Bousfield 1973.
- Figure 57. Liljeborgiidae: *Listriella eriopisa* J. L. Barnard 1959, female. From JL Barnard 1959. Mandible and palp. From JL Barnard and Karaman 1991.
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- Figure 60. Hornellidae: Hornellia tequestae Thomas & JL Barnard 1986. From Thomas & JL Barnard 1986. Pleon and gnathopod 2, Hornella occidentalis (J. L. Barnard in J. L. Barnard & Reish 1959). From JL Barnard & D Reish 1959.
- Figure 61. Melitidae: Desdimelita desdicahada (J. L. Barnard 1962) (From JL Barnard 1962)
- Figure 62. Maeridae: Maera similis Stout 1913 (From Krapp-Schickel & Jarrett 2000)

## **REFERENCES:**

- Ariyama, H. 1996. Four species of the genus *Grandidierella* (Crustacea: Amphipoda: Aoridae) from Osaka Bay and the northern part of the Kii Channel, Central Japan. <u>Publications of the Seto</u> <u>Marine Biological Laboratory</u> 37(1/2): 167-191.
- Barnard, JL. 1953. On two new amphipod records from Los Angeles Harbor. Bulletin of the Southern California Academy of Sciences **52**(3): 83-87.
- Barnard, JL. 1955a. "Gammaridean Amphipoda (Crustacea) in the collections of Bishop Museum." <u>Bernice P. Bishop Museum, Bulletin(215)</u>: 1-46.
- Barnard, JL. 1955b. Two new spongicolous amphipods (Crustacea) from California. Pacific Science 9(1): 26-30.
- Barnard, JL. 1955c. Gammaridean Amphipoda (Crustacea) in the collections of Bishop Museum. Bernice P. Bishop Museum, Bulletin (215): 1-46.
- Barnard, JL. 1958. "A remarkable new genus of corophiid amphipod from coastal marine bottoms of southern California." Bulletin of the Southern California Academy of Sciences 57(2): 85-90.
- Barnard, JL. 1959. "Liljeborgiid amphipods of Southern California coastal bottoms, with a revision of the family." Pacific Naturalist 1(3/4): 12-28.
- Barnard, JL. 1959. "The common pardaliscid Amphipoda of Southern California, with a revision of the family." <u>Pacific Naturalist</u> 1(11/12): 36-43.
- Barnard, JL. 1962a. "Benthic Marine Amphipoda of Southern California: 1. Families Aoridae, Photidae, Ischyroceridae, Corophiidae, Podoceridae." <u>Pacific Naturalist</u> **3**(1): 3-72.
- Barnard, JL. 1962b. Benthic marine Amphipoda of Southern California; 3.Families Amphilochidae, Leucothoidae, Stenothoidae, Argissidae, Hyalidae." Pacific Naturalist 3(3): 116-163.
- Barnard, JL. 1962c. "Benthic marine Amphipoda of Southern California; 3. Families Amphilochidae, Leucothoidae, Stenothoidae, Argissidae, Hyalidae." <u>Pacific Naturalist</u> 3(3): 116-163.
- Barnard, JL. 1963. "Los amfipodos bentonicos marinos de la Costa Occidental de Baja California." <u>Revista Societa Mexicana Historia Natural</u> 24: 205-274.
- Barnard, JL. 1966. "Submarine canyons of Southern California. Part V Systematics: Amphipoda." <u>Allan Hancock Pacific Expeditions</u> 27(5): 1-166.
- Barnard, JL. 1967. "Bathyal and abyssal gammaridean Amphipoda of Cedros Trench, Baja California." <u>United States National Museum, Bulletin(260)</u>: 1-205.
- Barnard, JL. 1969a. Gammaridean Amphipoda of the rocky intertidal of California: Monterey Bay to La Jolla. United States National Museum, Bulletin, no. 258: 1-230.
- Barnard, JL and RR Given. 1960. "Common pleustid amphipods of Southern California with a projected revision of the family." <u>Pacific Naturalist</u> 1(17): 37-48.
- Barnard, JL and DJ Reish. 1959. "Ecology of Amphipoda and Polychaeta of Newport Bay, California." <u>Allan Hancock Foundation Publications, Occasional Paper(21)</u>: 1-106.
- Barnard, JL. and GS Karaman. 1991a. The Families and Genera of Marine Gammaridean Amphipoda (except Marine gammaroids) Part 1. Records of the Australian Museum Supplement 13: 1-417.

- Barnard, JL. and GS Karaman. 1991b. The Families and Genera of Marine Gammaridean Amphipoda (except Marine gammaroids) Part 2. Records of the Australian Museum Supplement 13: 419-866.
- Bellan-Santini, D., GS Karaman, et al. 1982. "The Amphipoda of the Mediterranean. Part 1. Gammaridea (Acanthonotozomatidae to Gammaridae)." <u>Memoires de l'Institut</u> <u>Océamographique du Monaco</u> 13(1): 1-364.
- Bousfield, EL. 1973. Shallow-water gammaridean Amphipoda of New England. *Cornell University Press, Ithaca.* 312 pp.
- Bousfield, EL. 1965. Haustoriidae of New England (Crustacea: Amphipoda). Proc. U. S. Natl. Mus. No. 3512, Vol. 117: 159-240
- Bousfield, EL. 1982. The Amphipod Superfamily Talitroidea in the Northeastern Pacific Region. 1. Family Talitridae: Systematics and Distributional Ecology. Publications in Biological Oceanography 11: 1-73.
- Bousfield, EL. 1987. "Amphipod parasites of fishes of Canada." <u>Canadian Bulletin of Fisheries and</u> <u>Aquatic Sciences(217)</u>: 1-37.
- Bousfield, EL. 1989. Revised morphological relationships within the amphipod genera Pontoporeia and Gammaracanthus and the "glacial relict" significance of their postglacial distributions. Canadian Journal of Fisheries and Aquatic Sciences 46: 1714–1725.
- Bousfield, EL. 1996. A contribution to the reclassification of Neotropical freshwater hyalellid amphipods (Crustacea: Gammaridea, Talitroidea). Boll. Mus. civ. St. nat. Verona 20: 197-224
- Bousfield, EL, and JA Kendall 1994. "The amphipod superfamily Dexaminoidea on the North American Pacific Coast; families Atylidae and Dexaminidae: systematics and distributional ecology." <u>Amphipacifica</u> 1(3): 3-66.
- Bousfield, EL, and EA Hendrycks 1994. "The amphipod superfamily Leucothoidea on the Pacific Coast of North America. Family Pleustidae: subfamily Pleustinae. Systematics and biogeography." <u>Amphipacifica</u> 1(2): 3-69.
- Bousfield, EL, and A Chevrier. 1996. "The amphipod family Oedicerotidae on the Pacific Coast of North America. Part 1. The *Monoculodes* and *Synchelidium* generic complexes: systematics and distributional ecology." <u>Amphipacifica</u> 2(2): 75-148.
- Bousfield, EL, and EA Hendrycks. 2002. "The talitroidean amphipod family Hyalidae revised, with emphasis on the North Pacific fauna: systematics and distributional ecology." <u>Amphipacifica</u> **3**(3): 17-134.
- Bousfield, EL and PM Hoover. 1995. The amphipod superfamily Pontoporeioidea on the Pacific coast of North America. II. Family Haustoriidae. Genus Eohaustorius JL Barnard: systematics and distributional ecology. Amphipacifica 2(1): 35-64.
- Bousfield, EL and PM Hoover (1997). "The amphipod superfamily Corophioidea on the Pacific coast of North America. V. Family Corophiidae. Corophinae, new subfamily. Systematics and distributional ecology." <u>Amphipacifica</u> 2(3): 67-139.
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): III. Aoroidea - a review. Donald B. Cadien, LACSD 22 July 2004 (revised 15May2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): IV. Cheluroidea - a review. Donald B. Cadien, LACSD 22 July 2004 (revised 2 May 2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): V. Chevalioidea a review Donald B. Cadien, LACSD 22 July 2004 (revised 1 May2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): VI. Corophioidea a review Donald B. Cadien, LACSD 22 July 2004 (revised 5June2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): VII. Caprelloidea – a review Donald B. Cadien, LACSD 22July04 (revised 20Apr15)

- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): VIII. Neomegamphopoidea – a review Donald B. Cadien, LACSD, 22 July 2004 (revised 21 Apr 2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): IX. Photoidea - a review Donald B. Cadien, LACSD 22 July 2004 (revised 21 May 2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XIV. Gammaroidea – an updated and expanded review Donald B. Cadien, LACSD 22Jul2004 (revised 1Mar2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XVII. Synopioidea: a review Donald B. Cadien, LACSD 22July2004 (revised 9Dec2014)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XVIII. Pardaliscoidea - a revised review Donald B. Cadien, LACSD 22July 2004 (revised 9Dec2014)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XIX. Liljeborgioidea a review Donald B. Cadien, LACSD 22July2004 (revised 9Dec2014)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XX. Phoxocephaloidea a review. Donald B. Cadien, LACSD 22July2004 (revised 15Dec2014)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XXI. Pontoporeioidea - an updated and expanded review Donald B. Cadien, LACSD 22July2004 (revised 27Feb2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XXII. Eusiroidea a review. Donald B. Cadien, LACSD 22July2004 (revised 8Mar2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XXIV. Leucothoidea - a review Donald B. Cadien, LACSD 22July2004 (revised 2Feb2015)
- Cadien, DB. 2004. Amphipoda Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XXV. Stenothoidea: a review Donald B. Cadien, LACSD 22July2004 (revised 13 Feb 2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XXVI. Iphimedioidea a review Donald B. Cadien, LACSD 22July2004 (revised 27Feb2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XXVII. Dexaminoidea –an updated and expanded review. Donald B. Cadien, LACSD 22July2004 (revised 1Mar2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XXVIII. Ampeliscoidea – an updated review. Donald B. Cadien, LACSD 22Jul2004 (revised 2Mar2015)
- Cadien, DB. 2004. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XXIX. Melphidippioidea – an expanded review Donald B. Cadien, LACSD 22July2004 (revised 3Mar2015)
- Cadien, DB. 2005. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): X. Hadzioidea – an expanded and updated review Donald B. Cadien, LACSD 31Aug2005 (revised 8Mar2015)
- Cadien, DB. 2006. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): II. Talitroidea a review. Donald B. Cadien 24March2006 (revised 27Mar2015)
- Cadien, DB. 2006. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss):
  XVI. Stegocephaloidea an expanded review Donald B. Cadien, LACSD 19 Oct 2006 (revised 23 Feb 2015)
- Cadien, DB. 2007. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XV. Lysianassoidea – an updated and revised review Donald B. Cadien, LACSD 15Feb2007 (Revised 29Mar2015)

- Cadien, DB. 2007. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XII. Bogidielloidea – an updated review Donald B. Cadien, LACSD 25Aug2007 (revised 3Mar2015)
- Cadien, DB. 2015. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XI. Calliopioidea a review Donald B. Cadien, LACSD 13Mar 2015
- Cadien, DB. 2015. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): XIII. Crangonyctoidea a review Donald B. Cadien, LACSD 17Mar2015
- Cadien, DB. 2015. Amphipoda of the Northeast Pacific (Equator to Aleutians, intertidal to abyss): I. Suborder Ingolfiellidea a review Donald B. Cadien , LACSD 30Apr2015
- Chapman, J.W. (2007). Amphipoda. *In:* The Light and Smith Manual: Intertidal Invertebrates from Central California to Oregon. Ed J.T. Carlton. 4<sup>th</sup> Edition. Pp. 545–618.Conlan, KE. 1982.
   Revision of the gammaridean amphipod family Ampithoidae using numerical analytical methods. Can. J. Zool.
- Conlan, KE. 1983. "The amphipod superfamily Corophioidea in the northeastern Pacific region. 3. Family Isaeidae: systematics and distributional ecology." <u>National Museums of Canada</u> <u>Publications in Natural Sciences</u>(4): 1-75.
- Conlan, KE. 1990. "Revision of the crustacean amphipod genus *Jassa* Leach (Corophioidea: Ischyroceridae)." <u>Canadian Journal of Zoology</u> **68**: 2031-2075.
- Conlan, KE and EL Bousfield 1982. "Studies on amphipod crustaceans of the North-eastern Pacific region. I. 2. The amphipod superfamily Corophioidea in the Northeastern Pacific region. Family Ampithoidae: systematics and distributional ecology." <u>National Museums of Canada,</u> <u>Publications in Biological Oceanography</u>(10): 41-75.
- Crowe, SE. 2006. "A redescription of *Leucothoe spinicarpa* (Abildgaard, 1789) based on material from the North Atlantic (Amphipoda: Leucothoidae)." <u>Zootaxa</u>(1170): 57-68.
- Dickinson, JJ. 1982. "Studies on amphipod crustaceans of the Northeastern Pacific region. I. 1. The systematics and distributional ecology of the family Ampeliscidae (Amphipoda: Gammaridea) in the Northeastern Pacific Region. I. The genus *Ampelisca*." <u>National Museums of Canada</u>, <u>Publications in Biological Oceanography</u>(10): 1-39
- Dojiri, M and J Sieg. 1987. Ingolfiella fuscina, new species (Crustacea: Amphipoda) from the Gulf of Mexico and the Atlantic coast of North America, and partial redescription of I. atlantisi Mills, 1967. Proceedings of the Biological Society of Washington 100(3): 494-505.
- Guerra-García, JM. 2006. Caprellidae (Crustacea: Amphipoda) from the Great Barrier Reef and adjacent localities. Records of the Australian Museum 58(3): 417-458.
- Hendrycks, EA, and EL Bousfield 2001. The amphipod genus Allorchestes in the North Pacific region: systematics and distributional ecology. Amphipacifica 3(2): 3-37
- Holmes, SJ. 1908. "The Amphipoda collected by the U.S. Bureau of Fisheries Steamer 'Albatross' off the West Coast of North America in 1903-1904, with descriptions of a new family and several new genera and species." <u>Proceedings of the United States National Museum</u> 35(1654): 489-543.
- Hoover, PM and EL Bousfield. 2001. "The amphipod superfamily Leucothoidea on the Pacific coast of North America: Family Amphilochidae: systematics and distributional ecology." <u>Amphipacifica</u> **3**(1): 3-28.
- Hurley, DE. 1956. "A new species of *Stegocephalus* (Amphipoda: Gammaridea) from California." Bulletin of the Southern California Academy of Sciences **55**(1): 28-34.
- Jarrett, NE and EL Bousfield. 1994. "The amphipod superfamily Phoxocephaloidea on the Pacific Coast of North America. Family Phoxocephalidae. Part 1. Metharpiniinae, new subfamily." <u>Amphipacifica</u> 1(1): 58-140.
- Krapp-Schickel, G and NE Jarrett. 2000. "The amphipod family Melitidae on the Pacific coast of

North America. Part II. The Maera-Ceradocus complex." Amphipacifica 2(4): 23-61.

- Laubitz, DR. 1977. "A revision of the genera *Dulichia* Krøyer and *Paradulichia* Boeck (Amphipoda, Podoceridae)." <u>Canadian Journal of Zoology</u> **55**: 942-982.
- Meador, JP and TMC Present. 1985. "*Orchomene limodes*, new species, a scavenging amphipod from Scripps Canyon, California: species description and analysis of morphological variation." Journal of Crustacean Biology **5**(3): 523-538.
- Myers, AA and JK Lowry. 2003. "A phylogeny and a new classification of the Corophiidea Leach, 1814 (Amphipoda)." Journal of Crustacean Biology **23**(2): 443-485.
- Myers, AA and D McGrath. 1984. "A revision of the north-east Atlantic species of *Ericthonius* (Crustacea: Amphipoda)." Journal of the Marine Biological Association of the United Kingdom **64**: 379-400.
- Shoemaker, CR. 1930. The Amphipoda of the Cheticamp Expedition of 1917. Contributions to Canadian Biology and Fisheries, new series, 5(10: 221-359
- Shoemaker, CR. 1931. "A new species of amphipod crustacean (Acanthonotozomatidae) from California, and notes on *Eurystheus tenuicornis*." <u>Proceedings of the United States National</u> <u>Museum</u> 78(2861).
- Shoemaker, CR. 1933. Two new genera and six new species of Amphipoda from Tortugas. Papers from the Tortugas Laboratory, 28(15):245-256, figures 1-8.
- Thomas, JD. 1997. Systematics, ecology and phylogeny of the Anamixidae (Crustacea: Amphipoda). Records of the Australian Museum 49: 35-98.
- Thomas, JD and JL Barnard. 1986. "Two species of Hornellia (subgenus Metaceradocus) from the Florida Keys and Belize (Amphipoda, Melphidippoidea)." Bulletin of Marine Science 38(3): 477-487.