

California Bopyridae
(Crustacea, Isopoda, Cymothoidea, Bopyroidea)

T. D. Stebbins, January 2012

Subfamily	Species	Host(s)	Range	Notes
Pseudioninae	<i>Aporobopyrus muguensis</i> Shiino, 1964	Porcelain crabs <i>Pachycheles holosericus</i> , <i>P. pubescens</i> , and <i>P. rudis</i> in California	Bodega Bay, northern California to central west Baja California; 10-12 m	
Pseudioninae	<i>Aporobopyrus oviformis</i> Shiino, 1934	Porcelain crab <i>Pachycheles pubescens</i> in California	Point Mugu, California and Japan; 10-12 m	
Pseudioninae	<i>Asymmetrione ambodistorta</i> Markham, 1985	Hermit crab <i>Isocheles pilosus</i>	Southern California	
Pseudioninae	<i>Discomorphus magnifolius</i> Markham, 2008	Porcelain crab <i>Petrolisthes cinctipes</i>	Pacific Grove, Monterey County, California	
Pseudioninae	<i>Goleathopseudione bilobatus</i> Román-Contreras, 2008	Galatheid crab <i>Munidopsis antonii</i>	Central California; 4100 m	Because the stem name " <i>Ione</i> " is feminine, so should be " <i>Goleathopseudione</i> ." Thus, the correct species name should be " <i>bilobata</i> " (J. Markham, pers. comm.)
Pseudioninae	<i>Munidion pleuroncodis</i> Markham, 1975	Galatheid pelagic red crab <i>Pleuroncodes planipes</i>	Central California to central Mexico	
Pseudioninae	<i>Orthione griffenis</i> Markham, 2004	Mud shrimp <i>Upogebia pugettensis</i> and <i>Upogebia macginitieorum</i>	British Columbia to southern California (Introduced species from Asia: China, Japan)	
Pseudioninae	<i>Pseudione galacanthae</i> Hansen, 1897	Galatheid crabs <i>Galacantha diomediae</i> and <i>Munida quadrispina</i>	British Columbia to Gulf of California	Need to confirm: Record from R. Brusca "List of California Species"

California Bopyrid Isopods / T. D. Stebbins (January 2012)

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Pseudioninae	<i>Pseudione giardi</i> Calman, 1898	Hermit crabs of the genus <i>Pagurus</i> ; plus 1 possible record infesting the lithodid <i>Dermaturus mandtii</i> in Alaska (see Markham, 1974)	Bering Sea to San Juan Islands, Washington; possibly extended into California (see Notes)	Added to SCAMIT Ed. 6 list (SCAMIT, 2011) based on trawl record off PV (D. Cadien, pers. comm.); However, <i>P. giardi</i> has not been previously known from California, although report of a <i>Pseudione</i> sp. infesting <i>Pagurus hirsutiusculus</i> in central California may refer to it (J. Markham, pers. comm.)
Bopyrinae (see Notes)	<i>Bathygyge grandis</i> Hansen, 1897	Shrimp <i>Glyphocrangon vicaria</i>	San Clemente Basin; 1792-1866 m	Subfamily placement (e.g., Bopyrinae vs. Pseudioninae or perhaps a new subfamily) uncertain pending complete description of adult female; specimens referred to as <i>Munidion</i> sp. in Wicksten (1979: p. XX) found infesting <i>G. vicaria</i> probably = <i>B. grandis</i> [J. Markham, pers. comm.]
Bopyrinae	<i>Bopyrella calmani</i> (Richardson, 1905)	Alpheid shrimp <i>Alpheopsis equidactylus</i> and <i>Synalpheus lockingtoni</i>	Central to southern California; intertidal to 9 m	
Bopyrinae	<i>Probopyria</i> sp. A Stebbins, 2011	Alpheid shrimp <i>Automate</i> sp. A	Southern California	Known from single record; generic ID provided by J. Markham
Bopyrinae	<i>Schizobopyrina striata</i> (Nierstrasz & Brender à Brandis, 1929)	Hippolytid shrimp <i>Hippolyte californiensis</i> and <i>Thor algicola</i> (see Notes)	CA to Baja California, and Gulf of California; shallow water	<i>Thor algicola</i> host may actually be <i>T. manningi</i> (J. Markham, pers. comm.)
Argeiinae	<i>Argeia pugettensis</i> Dana, 1853	Multiple genera/species of crangonid (<i>Argis</i> , <i>Crangon</i> , <i>Lissocrangon</i> , <i>Mesocrangon</i> , <i>Metacrangon</i> , <i>Neocrangon</i>) and hippolytid (<i>Eualus</i>) shrimp	Bering Sea to southern California, Japan and Korea; intertidal to 188 m	

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Ioninae	<i>Ione cornuta</i> Bate, 1864	Ghost shrimps in the genera <i>Callianassa</i> and <i>Neotrypaea</i> (see Notes)	British Columbia to San Francisco, California; intertidal to shallow water	No <i>Callianassa</i> hosts in California (J. Markham, pers. comm.)
Ioninae	<i>Leidya infelix</i> Markham, 2002	Lined shore crab <i>Pachygrapsus crassipes</i>	Southern California; intertidal	
Ioninae	Unidentified fossil bopyrid (Miocene)	Xanthid crab <i>Speocarcinus berglundi</i>	Riverside County, Southern California	Information provided by J. Markham (pers. comm.)
Phyllodurinae	<i>Phyllodurus abdominalis</i> Stimpson, 1857	Mud shrimp <i>Upogebia lepta</i> , <i>U. macginitieorum</i> , and <i>U. pugettensis</i>	British Columbia to NW Baja California; intertidal	
Athelginae	<i>Anathelges hyphalus</i> (Markham, 1974)	Hermit crabs <i>Parapagurodes laurentae</i> and <i>P. makarovi</i>	Carmel, California to Baja California; 69-319 m	
Hemiarthrinae	<i>Hemiarthrus abdominalis</i> (Krøyer, 1840)	Hippolytid shrimp <i>Eualus</i> spp, <i>Heptacarpus</i> sp, <i>Lebbeus</i> spp, <i>Spirontocaris</i> spp (see Notes)	North Pole to Monterey, California (circumboreal)	See Markham (1992)
Hemiarthrinae	Unidentified genus/species	Alpheid shrimp <i>Betaeus longidactylus</i>	San Pedro, California	Information provided by J. Markham (pers. comm.)
TBD	Unknown	Hermit crab <i>Paguristes ulreyi</i>	San Diego, CA	Unexamined and likely new species of bopyrid infesting <i>Paguristes ulreyi</i> off southern San Diego, which also equals = a new bopyrid host record (T. Stebbins, pers. obs. Nov 2011)

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REVISED 1/18/12

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