

KEY TO SHRIMP FAMILIES RECORDED IN CALIFORNIA WATERS

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(Modified from Chace 1972, Burukovskii 1974 & Dall et al 1990)

1. Third pereopods chelate. Pleura of second abdominal segment not overlapping that of first segment. Abdomen without a sharp curve [Suborder Dendrobranchiata] 2  
Third pereopods not chelate. Pleura of second abdominal segment overlapping that of first segment. Abdomen usually sharply curved . . . . . [Suborder Eukyphida] 6
2. Pereopods 4 and 5 well developed. Gills numerous . . . [Superfamily Penaeoidea] 3  
Pereopods 4 and 5 reduced or absent. Gills few (<9) . . . . . Sergestidae
3. Antennular flagellae originate distally on the third 3rd segment, sub-equal in length; 5th pereopod lacking epipod . . . . . 4  
Upper antennular flagellum markedly shorter than the lower and originates near the base of the 3rd segment: 5th pereopod bearing epipod . . . . . Aristaeidae
4. Cervical sulcus reaching less than two-thirds the distance from the hepatic spine to the top of the carapace; postorbital spine absent; 4th pereopod lacks epipod . . . . . 5  
Cervical sulcus reaching the top of the carapace; postorbital spine present; 4th pereopod with an epipod . . . . . Solenoceridae
5. Third to 5th pleopods each with 2 rami; prosartema (eye brush) present; exopods on 2nd and 3rd maxillipeds . . . . . Penaeidae  
Third to 5th pleopods each with 1 ramus; prosartema absent; no exopods on 2nd & 3rd maxillipeds . . . . . Sicyonidae
6. Pereopod 1 subchelate . . . . . 7  
Pereopod 1 chelate or simple (non-chelate) . . . . . 8
7. Carpus of pereopod 2 unsegmented . . . . . Crangonidae  
Carpus of pereopod 2 multisegmented . . . . . Glyphocrangonidae
8. Pereopods 1 and 2 chelate; fingers with pectinate cutting edges . . . . . Pasiphaeidae  
Pereopods 1 and/or 2 chelate; fingers without pectinate cutting edges . . . . . 9
9. Carpus of pereopod 2 unsegmented. Pereopod 1 with well-developed chela . . . . . 10  
Carpus of pereopod 2 multisegmented, **OR** pereopod 1 nonchelate . . . . . 11
10. Pereopods with exopods . . . . . Oplophoridae  
Pereopods without exopods . . . . . Palaemonidae
11. At least 1 of the pereopod 1 chelae well developed . . . . . 12  
Pereopod 1 chelae very small or absent . . . . . Pandalidae
12. Rostrum edentate or dentate, but without subdistal tooth . . . . . 13  
Rostrum with distal notch covered with bristles and forming subdistal dorsal tooth . . . . . Processidae

13. Eyes borne on extremely long stalks, reaching nearly to end of antennular peduncle, and several times longer than the eye diameter ..... Ogyrididae  
Eystalks not unusually long, not or only slightly exceeding eye diameter ..... 14
14. Eyes usually partially or entirely covered by carapace, incapable of free lateral movement; if not, rostrum lacking or represented by single spine ..... Alphaeidae  
Eyes exposed and freely movable; rostrum well developed, toothed ... Hippolytidae