

Family GNATHOPHYLLIDAE

Gnathophyllinae Dana, 1852, Proc. Acad. nat. Sci. Phila. 6: 16.

Hymenoceridae Ortmann, 1890, Zool. Jb. Syst. 5: 511.

Gnathophyllidae Ortmann, 1890, Zool. Jb. Syst. 5: 537.

Hymenocerinae Ortmann, 1896, Zool. Jb. Syst. 9: 424.

Drimoidae Ortmann, 1896, Zool. Jb. Syst. 9: 425.

The four genera of this family may be distinguished as follows:

1. The last two joints of the third maxilliped less than half as broad as the antepenultimate joint; the latter about as broad as the joint preceding it. Dactylus of second leg not serrate above; carpus and merus of that leg without anterior spines 2
- The last two joints of the third maxilliped almost as broad as or broader than the antepenultimate joint; the latter distinctly broader than the joint preceding it. Dactylus of second leg serrate above; carpus and merus of that leg with strong spines on the anterior margin 3
2. Exopod of third maxilliped shorter than endopod. Dactylus of last three legs biunguiculate, without tubercles on the lower margin. Outer antennular flagellum bifid *Gnathophyllum*
- Exopod of third maxilliped much longer than endopod. Dactylus of last three legs ending in a simple claw, with blunt tubercles on the lower margin. Outer antennular flagellum simple *Gnathophylloides*
3. Outer antennular flagellum normal in shape, thread-like. Chelae of second legs broad and flat, but not leaf-shaped. Last two joints of third maxilliped, though broad, not broader than antepenultimate joint. *Phyllognathia*
- Outer antennular flagellum deformed by the extreme broadening of the larger part of its joints to a broad, flat, leaf-shaped appendage. Chelae of second legs also leaf-shaped in that the lower border is produced to a large thin flap. Last two joints of third maxilliped distinctly broader than the antepenultimate joint. *Hymenocera*

Gnathophyllum Latreille, 1819 (fig. 51)

Gnathophyllum Latreille, 1819, Nouv. Dict. Hist. nat. (ed. 2) 30: 72. Type species, selected by H. Milne Edwards, 1837, Cuvier's Règne anim. (ed. 4, Discip. ed.) 18: pl. 52 fig. 2; *Alpheus Elegans* Risso, 1816, Hist. nat. Crust. Nice: 92. Gender: neuter.

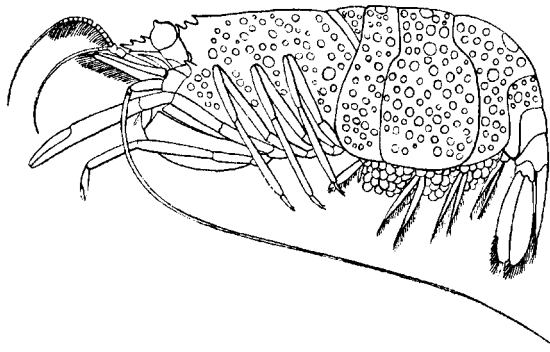


Fig. 51. *Gnathophyllum panamense* Faxon. After Faxon, 1895.

- Gnathophyllum* Desmarest, 1823, Dict. Sci. nat. 28: 322, 323, 324. Emendation of *Gnatophyllum* Latreille, 1819.
- Drimo* Risso, 1826, Hist. nat. Europ. mérid. 5: 70. Type species, by monotypy: *Alpheus Elegans* Risso, 1816, Hist. nat. Crust. Nice: 92. Gender: masculine.
- Gnatophilum* Cocco, 1832, Effem. Sci. Lett. Sicilia 2: 204. Erroneous spelling of *Gnathophyllum* Latreille, 1819.
- Gnathophyllium* Burmeister, 1837, Handb. Naturgesch. 2: 565. Erroneous spelling of *Gnathophyllum* Latreille, 1819.
- Gnathophillum* H. Milne Edwards, 1837, Cuvier's Règne anim. (ed. 4, Discip. ed.): explan. pl. 52. Erroneous spelling of *Gnathophyllum* Latreille, 1819.
- Gnathoptylus* Bate, 1888, Rep. Voy. Challenger, Zool. 24: xxxv. Erroneous spelling of *Gnathophyllum* Latreille, 1819.
- Gnathophylum* Bate, 1888, Rep. Voy. Challenger, Zool. 24: xxxvii. Erroneous spelling of *Gnathophyllum* Latreille, 1819.
- Gnathophyllum* Condorelli, 1899, Boll. Soc. Rom. Stud. Zool. 8: 39. Erroneous spelling of *Gnathophyllum* Latreille, 1819.
- Gnatophilum* Magri, 1923, Natural. Sicil. 24: 90. Erroneous spelling of *Gnathophyllum* Latreille, 1819.
- Gnathopyllum* Zariquiey Cenarro, 1935, Butll. Inst. Catal. Hist. nat. 35: 95. Erroneous spelling of *Gnathophyllum* Latreille, 1819.

Gnathophylloides Schmitt, 1933 (fig. 52)

- Gnathophylloides* Schmitt, 1933, Amer. Mus. Novit. 662: 5. Type species, by monotypy: *Gnathophylloides mineri* Schmitt, 1933, Amer. Mus. Novit. 662: 7. Gender: masculine.



Fig. 52. *Gnathophylloides mineri* Schmitt. Anterior part of carapace: a, dorsal view; b, lateral view. Original.

Phyllognathia Borradaile, 1915 (fig. 53)

Phyllognathia Borradaile, 1915, Ann. Mag. nat. Hist. (8)15: 205, 206. Type species, by monotypy: *Hymenocera*(?) *ceratophthalma* Balss, 1913, Zool. Anz. 42: 236. Gender: feminine.

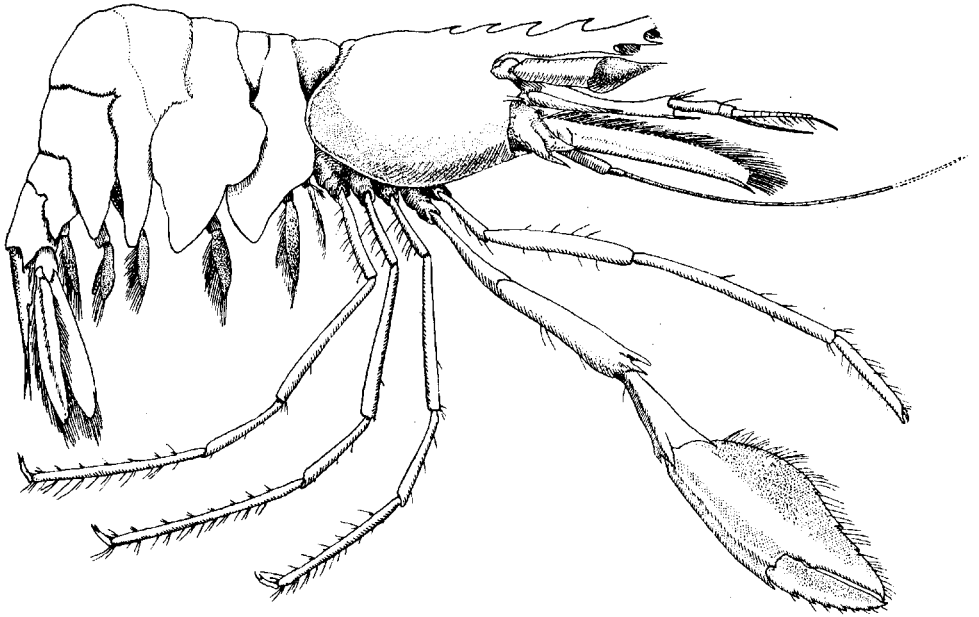


Fig. 53. *Phyllognathia ceratophthalma* (Balss). After Balss, 1914.

Hymenocera Latreille, 1819 (fig. 54)

Hymenocera Latreille, 1819, Nouv. Dict. Hist. nat. (ed. 2) 30: 71. Type species, designated under the plenary powers of the International Commission on Zoological Nomenclature: *Hymenocera picta* Dana, 1852, U. S. Explor. Exped. 13: 593. Gender: feminine.

Nematophyllum Bleeker, 1856, Reis Minahassa Moluksch. Archip. 2: 37. Type species, selected by Holthuis, 1952, Bull. zool. Nomencl. 6: 345, : *Hymenocera picta* Dana, 1852, U. S. Explor. Exped. 13: 593. Gender: neuter. Invalid junior homonym of *Nematophyllum* Milne Edwards & Haime, 1850, Brit. foss. Corals (1)lxxi (Coelenterata).

Superfamily PSALIDOPODOIDA

Psalidopodoida Alcock, 1901, Descr. Catal. Indian Deep Sea Crust. Macr. Anom.: 56.

Psalidopodia Fowler, 1912, Ann. Rep. New Jersey State Mus. 1911: 557.

Psalidopoida Balls, 1927, Kükenthal & Krumbach, Handb. Zool. 3(1): 1001.

Only one family with one genus.

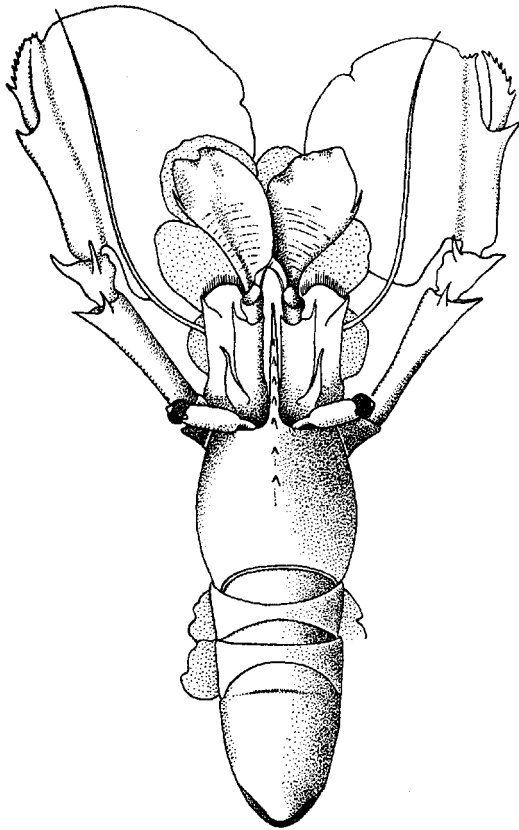


Fig. 54. *Hymenocera elegans* Heller. After Barnard, 1950.

Family PSALIDOPODIDAE Wood Mason & Alcock, 1892

Psalidopodidae Wood Mason & Alcock, 1892, Ann. Mag. nat. Hist. (6)9: 265.

Psalidopus Wood Mason & Alcock, 1892 (fig. 55)

Psalidopus Wood Mason & Alcock, 1892, Ann. Mag. nat. Hist. (6)9: 266.

Type species, by present selection: *Psalidopus Huxleyi* Wood Mason & Alcock, 1892, Ann. Mag. nat. Hist. (6)9: 273. Gender: masculine.

Superfamily ALPHEOIDA nov.

Three of the families contained in the present superfamily, viz., the Alpheidae, the Ogyrididae, and the Hippolytidae, were placed by Borradaile (1907, Ann. Mag. nat. Hist. (7)19: 467) and Balss (1927, Kükenthal & Krumbach, Handb. Zool. 3(1): 1002) in the superfamily Palaemonoidea.

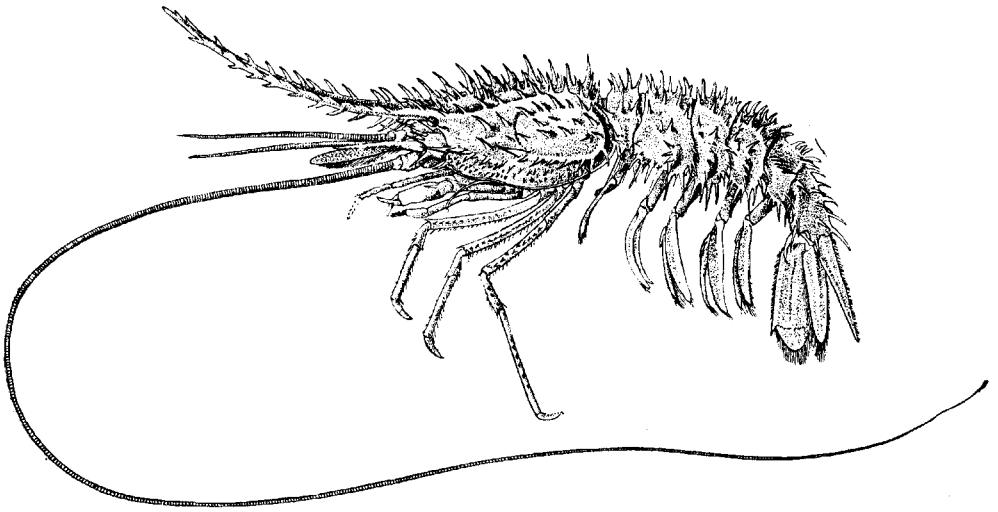


Fig. 55. *Psalidopus huxleyi* Wood Mason & Alcock. After Alcock & McArdle, 1901.

However, the Alpheoidea differ from the Palaemonoidea s.s. in several characters, which in my opinion justify their separation as an independent superfamily. The Palaemonoidea always have the second leg more robust than the first and the carpus of that leg undivided; in the Alpheoidea the second leg practically always is slender with the carpus subdivided, while the first leg often is very heavy, being more robust than the second. In my opinion the Processidae are so closely related to the Hippolytidae, especially to the *Lysmata* section of that family, that they cannot be placed in a different superfamily. Both Borradaile and Balss assigned the Processidae to the superfamily Crangonoida, but this certainly is incorrect.

Family ALPHEIDAE

- Alphidia Rafinesque, 1815, Anal. Nature: 98.
 Alpheens H. Milne Edwards, 1837, Hist. nat. Crust. 2: 339, 345.
 Alpheidae Randall, 1839, Journ. Acad. nat. Sci. Phila. 8: 140.
 Alpheidae Bell, 1846-1851, Hist. Brit. stalk-eyed Crust.: 270.
 Alpheidea De Haan, 1849, Fauna Japon., Crust. (6): 168, 173.
 Alpheana Gibbes, 1850, Proc. Amer. Ass. Adv. Sci. 3: 196.
 Alpheinae Dana, 1852, Proc. Acad. nat. Sci. Phila. 6: 16, 21.
 Alpheidi Acloque, 1899, Faune de France, Thysan.-Protoz.: 155, 161.
 Crangonidae Rathbun, 1904, Proc. biol. Soc. Wash. 17: 172.
 Autonomaeidae Borradaile, 1907, Ann. Mag. nat. Hist. (7)19: 467, 472.
 Alphaeidae Balss, 1915, Denkschr. Akad. Wiss. Wien 91: 20.
 Synalpheidae Verrill, 1922, Trans. Conn. Acad. Arts Sci. 26: 35.
 Synalpheidae Verrill, 1922, Trans. Conn. Acad. Arts Sci. 26: 60.
 Alpheuidae Yu, 1936, Chin. Journ. Zool. 2: 91.
 Crangoninae Ward, 1942, Mauritius Inst. Bull. 2(2): 58.

The genera of the present family may be distinguished with the help of the following key, which is based in part on an unpublished key prepared by Dr. Fenner A. Chace, Jr., curator of the Division of Marine Invertebrates, U. S. National Museum, Washington, D. C., that Dr. Chace with his usual kindness placed at my disposal.

1. Thoracic and abdominal pleurae laid out horizontally, much broadened. Pleurae of first abdominal segment covering a large part of the carapace. *Pterocaris*
- Thoracic and abdominal pleurae normal, not laid out horizontally and not unusually broadened. Pleurae of first abdominal segment covering at most a very small part of the posterolateral corners of the carapace. 2
2. Epipods present on at least the first two pairs of pereopods. 3
- No epipods on the pereopods. 17
3. Sixth abdominal segment with a movable plate articulated at the posterolateral angle 4
- No articulated plate at the posterolateral angle of the sixth abdominal segment. 11
4. Rostrum prominent 5
- Rostrum absent or indistinct. 10
5. Rostrum slender, pointed in lateral view.. . . . 6
- Rostrum with a broad vertical lamella ventrally, tip of rostrum broadly rounded. 9
6. An arthrobranch present at the base of the third maxilliped, or at that of the first pereopod 7
- Both third maxilliped and first pereopod without arthrobranch 8
7. Large chela carried extended. Posterior margin of telson straight or slightly arcuate. *Alpheopsis*
- Large chela carried flexed. Posterior margin of telson ending in an acute triangular median tooth *Nealpheopsis*
8. Epipods on first three pairs of pereopods. Carpus of second legs 5-jointed
- Epipods on the first two pairs of pereopods only. Carpus of second legs 4-jointed. *Athanas*
9. Dactyli of last three pairs of pereopods simple. Eyes almost completely hidden from dorsal view *Arete*
- Dactyli of last three pereopods biunguiculate. Eyes largely free and uncovered. *Athanoopsis*
10. Telson broad, distally rounded *Aretoopsis*
- Telson slender, terminating distally in an acute median triangular point. *Betaeus*
11. Movable finger of larger chela without a large molar-shaped tooth. Eyes always visible in anterior view 12
- Movable finger of larger chela with a large molar-shaped tooth that fits into a cavity in the fixed finger. Eyes often entirely covered by the carapace, even anteriorly 14
12. Eyes dorsally fully exposed. Rostrum, if present, not reaching the end of the eyestalks *Parabetaeus*
- Eyes in dorsal view completely or almost completely covered by the carapace. Rostrum present, reaching far beyond the eyes. 13
13. Arthrobranch present on third maxilliped *Salmoneus*
- No arthrobranch on third maxilliped *Metabetaeus*
14. Carapace concealing the eyes from dorsal but not from anterior view. First pair of pereopods folded beneath the body. *Amphibetaeus*
- Carapace more or less completely covering the eyes, anteriorly as well as dorsally. First pair of legs not folded beneath the body. 15

15. Body strongly compressed. Abdominal segments with a dorsal carina. Carapace with a median dorsal carina over its entire length *Racilius*
 — Body not strongly compressed. Abdominal segments not carinated. Carina on carapace, if present, not extending over the full length of the carapace. 16
16. Cardiac notch present in the posterior margin of the carapace. Exopods of uropods with a transverse suture *Alpheus*
 — Cardiac notch absent. Exopods of uropods without transverse suture. *Thunor*
17. Movable finger of larger chela without a molar-shaped tooth. Dactylus of last three pereopods simple. Chela of second legs very long with unusually short fingers. *Batella*
 — Movable finger of larger chela with a molar-shaped tooth that fits in a socket in the fixed finger. Dactylus of last three pereopods bi- or trianguiculate. Chela of second legs normal. 18
18. Third maxilliped with ischio-meral segment greatly expanded to form an operculum over the mouthparts. *Pomagnathus*
 — Third maxilliped normal in shape *Synalpheus*

Pterocaris Heller, 1862 (fig. 56)

Pterocaris Heller, 1862, S. B. Akad. Wiss. Wien 45(1):395. Type species, by monotypy: *Pterocaris typica* Heller, 1862, S. B. Akad. Wiss. Wien 45(1):398. Gender: feminine.

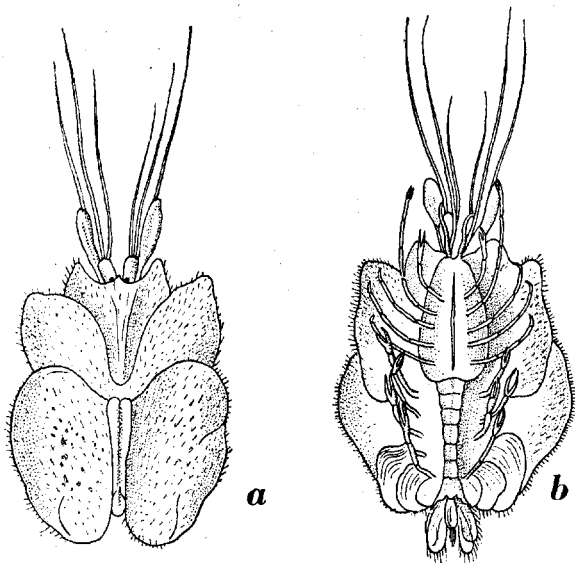


Fig. 56. *Pterocaris typica* Heller. a, dorsal view; b, ventral view. After Heller, 1862.

Alpheopsis Coutière, 1897 (fig. 57a, b)

Alpheopsis Coutière, 1897, Bull. Mus. Hist. nat. Paris 2:382. Type species, by present selection: *Betaeus trispinosus* Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860:32. Gender: masculine.

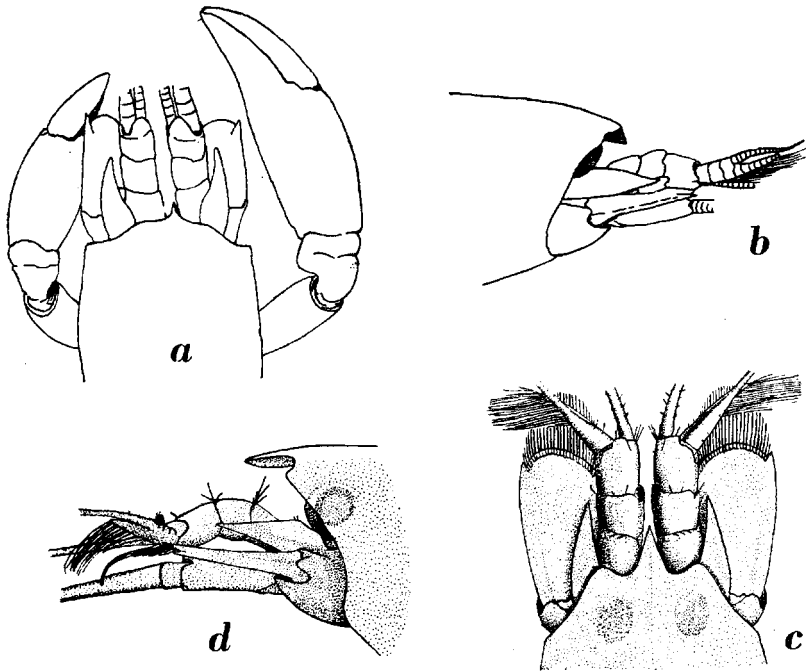


Fig. 57a, b. *Alpheopsis equalis truncatus* Coutière. Anterior part of body: a, dorsal view; b, lateral view. After Coutière, 1905.

Fig. 57c, d. *Neoalpheopsis hiatti* Banner. Anterior part of body: c, dorsal view; d, lateral view. After Banner, 1953.

Neoalpheopsis Banner, 1953 (fig. 57c, d)

Neoalpheopsis Banner, 1953, Pacific Sci. 7: 10, 20. Type species, by original designation: *Neoalpheopsis hiatti* Banner, 1953, Pacific Sci. 7: 21. Gender: masculine.

Athanas Leach, 1814 (fig. 58)

Athanas Leach, 1814, Edinb. Encycl. 7(2): 432. Type species, by monotypy: *Palaemon nitescens* Leach, 1814, Edinb. Encycl. 7(2): 401. Gender: masculine.

Athanasus H. Milne Edwards, 1837, Hist. nat. Crust. 2: 352. Erroneous spelling of *Athanas* Leach, 1814.

Athantias d'Urban, 1884, Zoologist, London (3)8: 152. Erroneous spelling of *Athanas* Leach, 1814.

Athanus Hale, 1927, Crust. S. Aust. 1: 47. Erroneous spelling of *Athanas* Leach, 1814.

Athas Bulgurkov, 1938, Arb. biol. Meeressta. Varna 7: 86. Erroneous spelling of *Athanas* Leach, 1814.

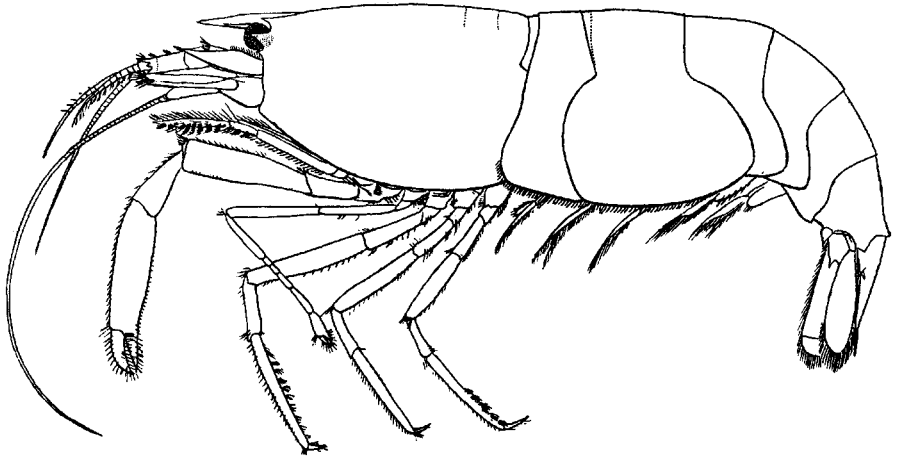


Fig. 58. *Athanas nitescens* (Leach). After Kemp, 1910.

Arete Stimpson, 1860 (fig. 59a, b)

Arete Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 32. Type species, by monotypy: *Arete dorsalis* Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 32. Gender: feminine.

Athanopsis Coutière, 1897 (fig. 59c, d)

Athanopsis Coutière, 1897, Bull. Mus. Hist. nat. Paris 3: 301. Type species, by monotypy: *Athanopsis platyrhynchus* Coutière, 1897, Bull. Mus. Hist. nat. Paris 3: 301. Gender: masculine.

Aretopsis De Man, 1910 (fig. 59e, f)

Aretopsis De Man, 1910, Tijdschr. Nederl. dierk. Ver. (2)11: 310. Type species, by monotypy: *Aretopsis amabilis* De Man, 1910, Tijdschr. Nederl. dierk. Ver. (2)11: 311. Gender: masculine.

Fig. 59a, b. *Arete dorsalis* Stimpson. Anterior part of body: a, dorsal view; b, lateral view. After Coutière, 1905.

Fig. 59c, d. *Athanopsis platyrhynchus* Coutière. Rostrum: c, dorsal view; d, lateral view. After Coutière, 1899.

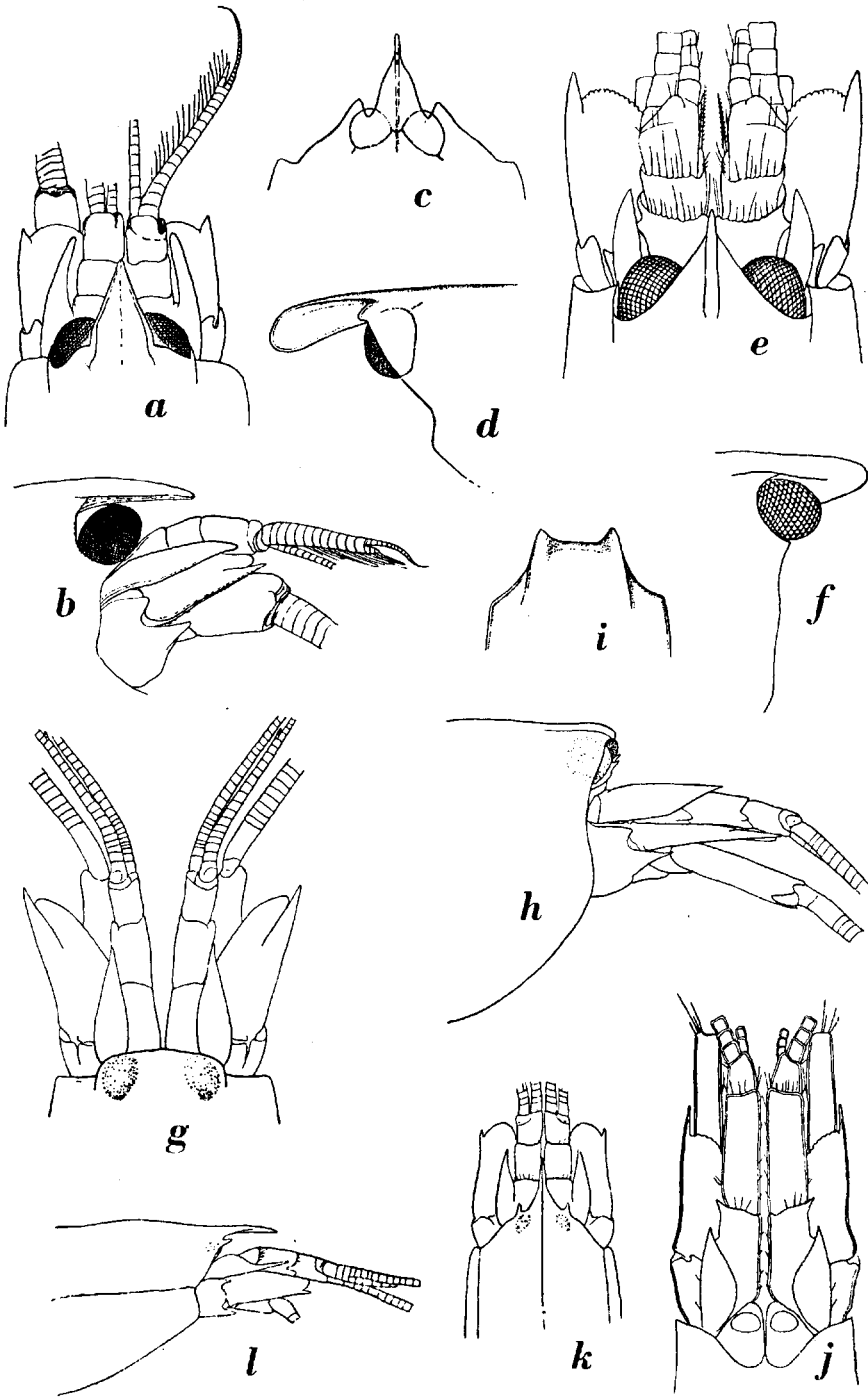
Fig. 59e, f. *Aretopsis amabilis* De Man. e, anterior part of body in dorsal view; f, rostrum in lateral view. After De Man, 1915.

Fig. 59g, h. *Betaeus truncatus* Dana. Anterior part of body: g, dorsal view; h, lateral view. After Holthuis, 1952c.

Fig. 59i. *Parabetaeus culliereti* Coutière. Rostrum in dorsal view. After Coutière, 1899.

Fig. 59j. *Automate anacanthopus* De Man. Anterior part of body in dorsal view. After De Man, 1915.

Fig. 59k, l. *Salmoneus jarli* (Holthuis). Anterior part of body: k, dorsal view; l, lateral view. After Holthuis, 1951a.



Betaeus Dana, 1852 (fig. 59g, h)

Betaeus Dana, 1852, Proc. Acad. nat. Sci. Phila. 6: 16. Type species, selected by Fowler, 1912, Ann. Rep. New Jersey State Mus. 1911: 558. : *Betaeus truncatus* Dana, 1852, Proc. Acad. nat. Sci. Phila. 6: 23. Gender: masculine.

Parabetaeus Coutière, 1897 (fig. 59i)

Parabetaeus Coutière, 1897, Bull. Mus. Hist. nat. Paris 2: 383. Type species, by monotypy: *Parabetaeus Culliereti* Coutière, 1897, Bull. Mus. Hist. nat. Paris 2: 383. Gender: masculine.

Automate De Man, 1888 (fig. 59j)

Arethusa De Man, 1888, Arch. Naturgesch. 53(1): 216. No type species indicated. Nomen nudum.

Automate De Man, 1888, Arch. Naturgesch. 53(1): 529. Type species, by monotypy: *Automate dolichognatha* De Man, 1888, Arch. Naturgesch. 53(1): 529. Gender: feminine.

Automata Anonymus, 1888, Zool. Anz. 11: 461. Erroneous spelling of *Automate* De Man, 1888.

Salmoneus Holthuis, 1955 (fig. 59k, l)

Jousseamea Coutière, 1897, Bull. Mus. Hist. nat. Paris 2: 381. Type species, selected by Holthuis, 1955, Bull. zool. Nomencl. 11 (in press): *Jousseamea serratidigitus* Coutière, 1897, Bull. Mus. Hist. nat. Paris 2: 382. Gender: feminine. Invalid junior homonym of *Jousseaumia* Sacco, 1894, Moll. terz. Piemonte Liguria 15: 8 (Mollusca).

Salmoneus Holthuis, 1955, Bull. zool. Nomencl. 11 (in press). Substitute name for *Joussaumea* Coutière, 1897. Gender: masculine.

Metabetaeus Borradaile, 1899 (fig. 60a)

Metabetaeus Borradaile, 1899, Proc. zool. Soc. Lond. 1898: 1014. Type species, by monotypy: *Betaeus minutus* Whitelegge, 1897, Mem. Aust. Mus. 3: 147. Gender: masculine.

Amphibetaeus Coutière, 1897 (fig. 60b, c)

Amphibetaeus Coutière, 1897, Bull. Mus. Hist. nat. Paris 2: 384. Type species, by monotypy: *Betaeus Jousseamei* Coutière, 1896, Bull. Mus. Hist. nat. Paris 2: 236. Gender: masculine.

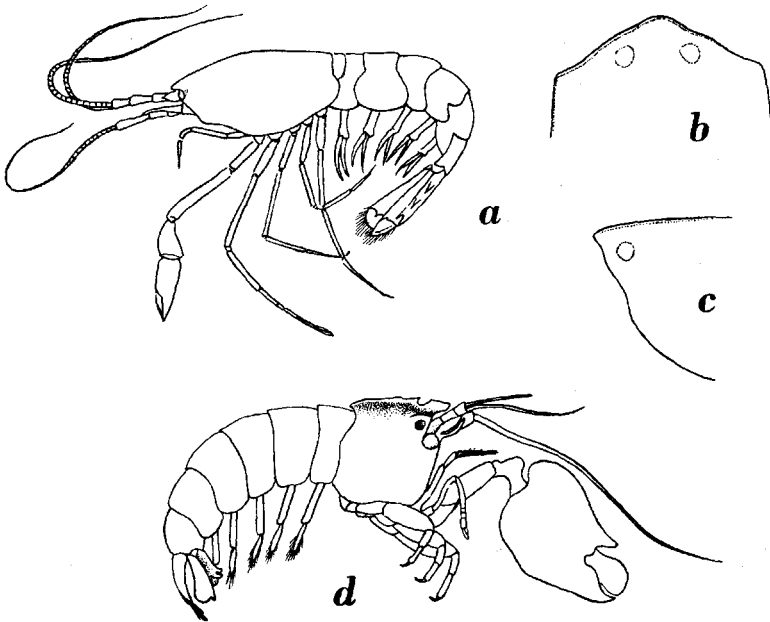


Fig. 60a. *Metabetaeus minutus* (Whitelegge). After Whitelegge, 1897.

Fig. 60b, c. *Amphibetaeus jousseaumei* Coutière. Rostrum: b, dorsal view; c, lateral view. After Coutière, 1899.

Fig. 60d. *Racilius compressus* Paulson. After Paulson, 1875.

Racilius Paulson, 1875 (fig. 60d)

Racilius Paulson, 1875, Issljed. Rakoobr. Krasn. Morja (Stud. Crust. Red Sea): 107. Type species, by monotypy: *Racilius compressus* Paulson, 1875, Issljed. Rakoobr. Krasn. Morja (Stud. Crust. Red Sea): 107. Gender: masculine.

Alpheus Fabricius, 1798 (fig. 61)

Crangon Weber, 1795, Nomencl. entomol.: 94. Type species, by monotypy: *Astacus Malabaricus* Fabricius, 1775, Syst. Entomol.: 415. Gender: feminine.

Alpheus Fabricius, 1798, Suppl. Ent. Syst.: 380, 404. Type species, selected by Latreille, 1810, Consid. gén. Crust. Arachn. Ins.: 422.; *Alpheus avarus* Fabricius, 1798, Suppl. Ent. Syst.: 404. Gender: masculine. Junior homonym of *Alpheus* Weber, 1795, Nomencl. entomol.: 91 (Crustacea Brachyura).

Alphaeus Bosc, 1802, Hist. nat. Crust. 1: 18. Erroneous spelling of *Alpheus* Fabricius, 1798.

Cryptophthalmus Rafinesque, 1814, Préc. Découv. somiol.: 23. Type species, by monotypy: *Cryptophthalmus ruber* Rafinesque, 1814, Préc. Découv. somiol.: 23 (= *Cancer glaber* Olivii, 1792, Zool. Adriat.: 51). Gender: masculine.

Autonomaea Risso, 1816, Hist. nat. Crust. Env. Nice: 166. Type species, by monotypy: *Autonomaea Olivii* Risso, 1816, Hist. nat. Crust. Env. Nice: 166 (= *Cancer glaber* Olivii, 1792, Zool. Adriat.: 51). Gender: feminine.

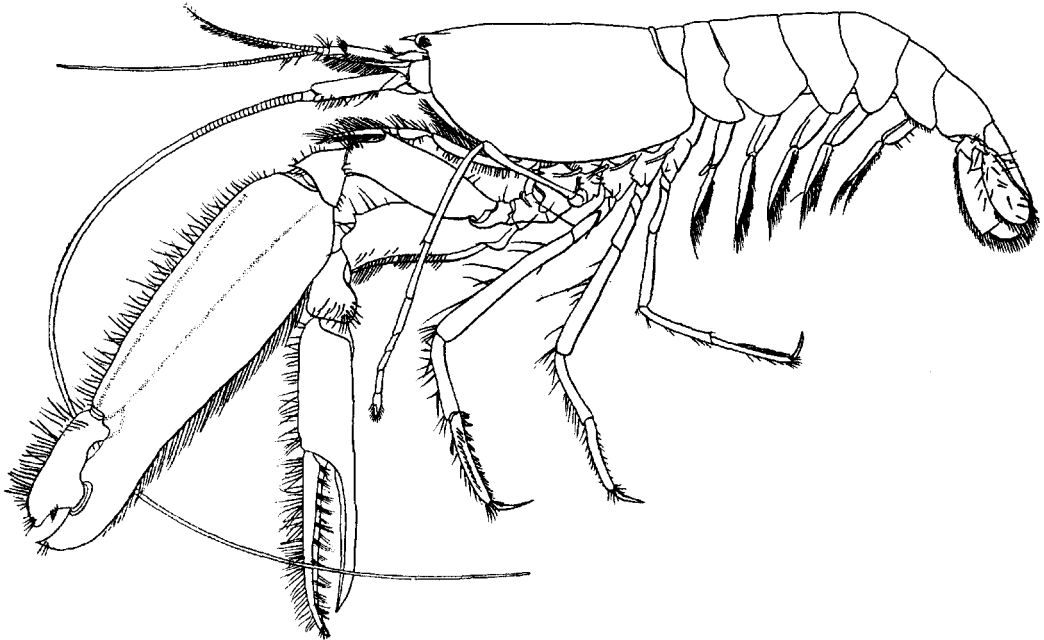


Fig. 61. *Alpheus glaber* (Olivii). After Kemp, 1910.

Autonomea Desmarest, 1823, Dict. Sci. nat. 28: 326, 421. Erroneous spelling of *Autonomaea* Risso, 1816.

Cryptophthalmus P. Roux, 1831, Mém. Class. Crust. Salic.: 18. Erroneous spelling of *Cryptophthalmus* Rafinesque, 1814.

Cryptophthalmus P. Roux, 1831, Mém. Class. Crust. Salic.: 18. Erroneous spelling of *Cryptophthalmus* Rafinesque, 1814.

Asphalius P. Roux, 1831, Mém. Class. Crust. Salic.: 22. Type species, by monotypy: *Palaemon brevirostris* Olivier, 1811, Encycl. méthod. Hist. nat. 8: 664. Gender masculine.

Alphheus P. Roux, 1831, Mém. Class. Crust. Salic.: 26. Erroneous spelling of *Alpheus* Fabricius, 1798.

- Cryptophthalmus* Westwood, 1835, in Hailstone, Mag. nat. Hist. 8: 274. Erroneous spelling of *Cryptophthalmus* Rafinesque, 1814.
- Dienecia* Westwood, 1835, Mag. nat. Hist. 8: 552. Type species, by monotypy: *Hippolyte? rubra* Hailstone, 1835, Mag. nat. Hist. 8: 272 (= *Hippolyte macrocheles* Hailstone, 1835, Mag. nat. Hist. 8: 395). Gender: feminine.
- Phleusa* Nardo, 1847, Sinon. modern. Spec. Lag. Golfo Veneto: 6. Type species, by monotypy: *Phleusa cynea* Nardo, 1847, Sinon. modern. Spec. Lag. Golfo Veneto: 6 (= *Cancer glaber* Olivi, 1792, Zool. Adriat.: 51). Gender: feminine.
- Halopsyche* De Saussure, 1857, Rev. Mag. Zool. (2)9: 100. Type species, by monotypy: *Halopsyche lutaria* De Saussure, 1857, Rev. Mag. Zool. (2)9: 100. (= *Alpheus heterochaelis* Say, 1818, Journ. Acad. nat. Sci. Phila. 1: 243). Gender: feminine.
- Automea* Nardo, 1869, Mem. Ist. Venet. Sci. Lett. Art. 14: 21, 45. Erroneous spelling of *Autonomea* Risso, 1816.
- Alpheoides* Paulson, 1875, Issljed. Rakoobr. Krasn. Morja (Stud. Crust. Red Sea): 105. Type species, by present selection: *Alpheus insignis* Heller, 1861, Verh. zool.-bot. Ges. Wien 11: 26. Gender: masculine.
- Automea* Bate, 1878, Journ. Roy. Inst. Cornwall 5(19): 396. Erroneous spelling of *Autonomea* Risso, 1816.
- Antonomea* Kingsley, 1880, Proc. Acad. nat. Sci. Phila. 1879: 422. Erroneous spelling of *Autonomea* Risso, 1816.
- Alpheodes* Sowinsky, 1882, Zapiski Kiev. Obshch. 6: 220, 225, 226, 244. Erroneous spelling of *Alpheoides* Paulson, 1875.
- Paralpheus* Bate, 1888, Rep. Voy. Challenger, Zool. 24: 567. Type species, by monotypy: *Palaemon diversimanus* Olivier, 1811, Encycl. method. Hist. nat. 8: 663. Gender: masculine.
- Metalpheus* Coutière, 1908, Bull. Soc. philom. Paris (9)10: 213. Type species is not named in original publication, nor is any species assigned to the genus by later authors. Genus provisionally identified by Coutière, 1908, with *Alpheus* Fabricius, 1798. Gender: masculine.
- Criptophtalmus* Magri, 1911, Atti Accad. gioen. Sci. nat. Catania (5)4(14): 27. Erroneous spelling of *Cryptophthalmus* Rafinesque, 1814.
- Cragon* Hilton, 1916, Journ. Entom. Zool. Pomona Coll. 8: 67. Erroneous spelling of *Crangon* Weber, 1795.
- Alphous* Torralbas, 1917, An. Acad. Ci. méd. fis. nat. Habana 53: 612. Erroneous spelling of *Alpheus* Fabricius, 1798.
- Alphens* Miranda y Rivera, 1921, Bol. Pescas Madrid 6: 183. Erroneous spelling of *Alpheus* Fabricius, 1798.

Crangon Yu, 1935, Chin. Journ. Zool. 1: 57, 60, 61. Erroneous spelling of *Crangon* Weber, 1795.

Thunor Armstrong, 1949 (fig. 62a)

Thunor Armstrong, 1949, Amer. Mus. Novit. 1410: 12. Type species, by monotypy: *Crangon rathbunae* Schmitt, 1924, Univ. Iowa Stud. nat. Hist. 10(4): 74. Gender: masculine.

Batella nom. nov. (fig. 62b)

Cheirothrix Bate, 1888, Rep. Voy. Challenger, Zool. 24: 532. Type species, by monotypy: *Cheirothrix parvimanus* Bate, 1888, Rep. Voy. Challenger, Zool. 24: 533. Gender: feminine. Invalid junior homonym of *Cheirothrix* Pictet & Humbert, 1866, Poissons foss. Liban.: 51 (Pisces).

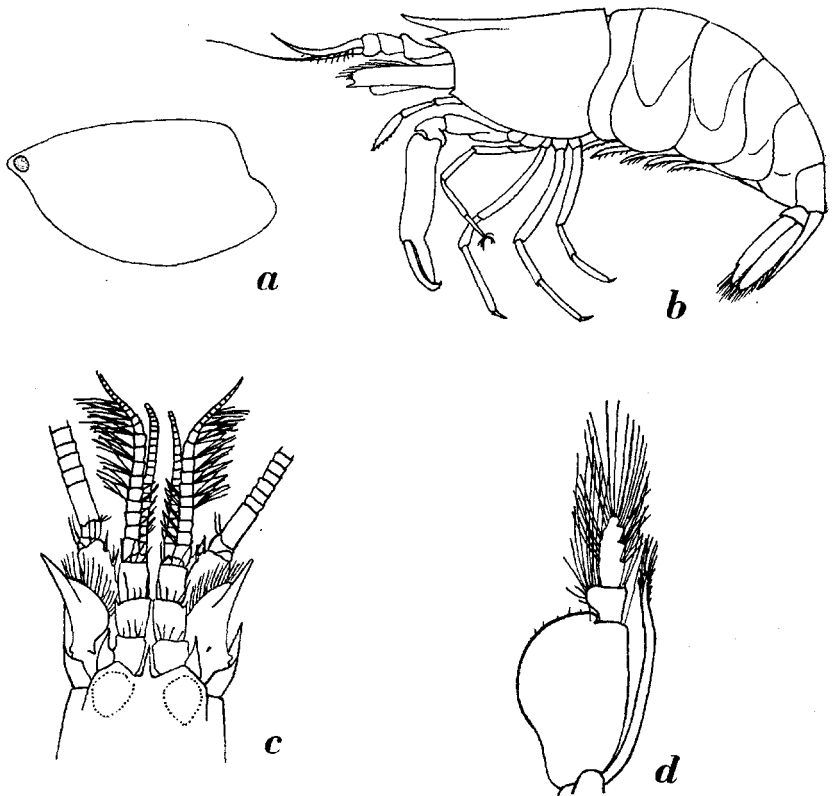


Fig. 62a, *Thunor rathbunae* (Schmitt). Carapace. After Armstrong, 1949.

Fig. 62b, *Batella parvimanus* (Bate). After Bate, 1888.

Fig. 62c, d, *Pomagnathus corallinus* Chace. c, anterior part of body in dorsal view; d, third maxilliped. After Chace, 1937.

Pomagnathus Chace, 1937 (fig. 62c, d)

Pomagnathus Chace, 1937, Zoologica New York 22: 124. Type species, by monotypy: *Pomagnathus corallinus* Chace, 1937, Zoologica, New York, 22: 124. Gender: masculine.

Synalpheus Bate, 1888 (fig. 63)

Homaralpheus Bate, 1876, Proc. Roy. Soc. Lond. 24: 378. Nomen nudum.

Homaralpheus Bate, 1888, Rep. Voy. Challenger, Zool. 24: lxxx, 539. Type species, by present selection: *Alpheus minus* Say, 1818, Journ. Acad. nat. Sci. Phila. 1: 245. Gender: masculine.

Homaralpheus Bate, 1888, Rep. Voy. Challenger, Zool. 24: 231. Erroneous spelling of *Homaralpheus* Bate, 1888.

Synalpheus Bate, 1888, Rep. Voy. Challenger, Zool. 24: 572. Type species, by monotypy: *Synalpheus falcatus* Bate, 1888, Rep. Voy. Challenger, Zool. 24: 574 (= *Alpheus Comatularum* Haswell, 1882, Proc. Linn. Soc. New S. Wales 6: 762). Gender: masculine.

Alpheinus Borradaile, 1899, Willey's Zool. Res. 4: 415. Type species, by monotypy: *Alpheinus tridens* Borradaile, 1899, Willey's Zool. Res. 4: 415. Gender: masculine.

Sinalpheus Porter, 1917, Bol. Mus. Nac. Chile 10: 98. Erroneous spelling of *Synalpheus* Bate, 1888.

Family OGYRIDIDAE

Ogyridae Hay & Shore, 1918, Bull. U. S. Bur. Fish. 35: 388.

The only genus contained in this family is:

Ogyrides Stebbing, 1914 (fig. 64)

Ogyris Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 36. Type species, by monotypy: *Ogyris orientalis* Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 36. Gender: feminine. Invalid junior homonym of *Ogyris* Westwood, 1851, in Doubleday & Westwood, Gen. diurn. Lep.: pl. 75 (Lepidoptera).

Ogyrides Stebbing, 1914, Ann. S. Afr. Mus. 15: 31. Substitute name for *Ogyris* Stimpson, 1860. Gender: masculine.

Family HIPPOLYTIDAE

Lysmatinae Dana, 1852, Proc. Acad. nat. Sci. Phila. 6: 16, 20.

Thorinae Kingsley, 1878, Bull. Essex Inst. 10: 64.

Hippolytidae Bate, 1888, Rep. Voy. Challenger, Zool. 24: xii, xli, 480, 503, 574, 576.

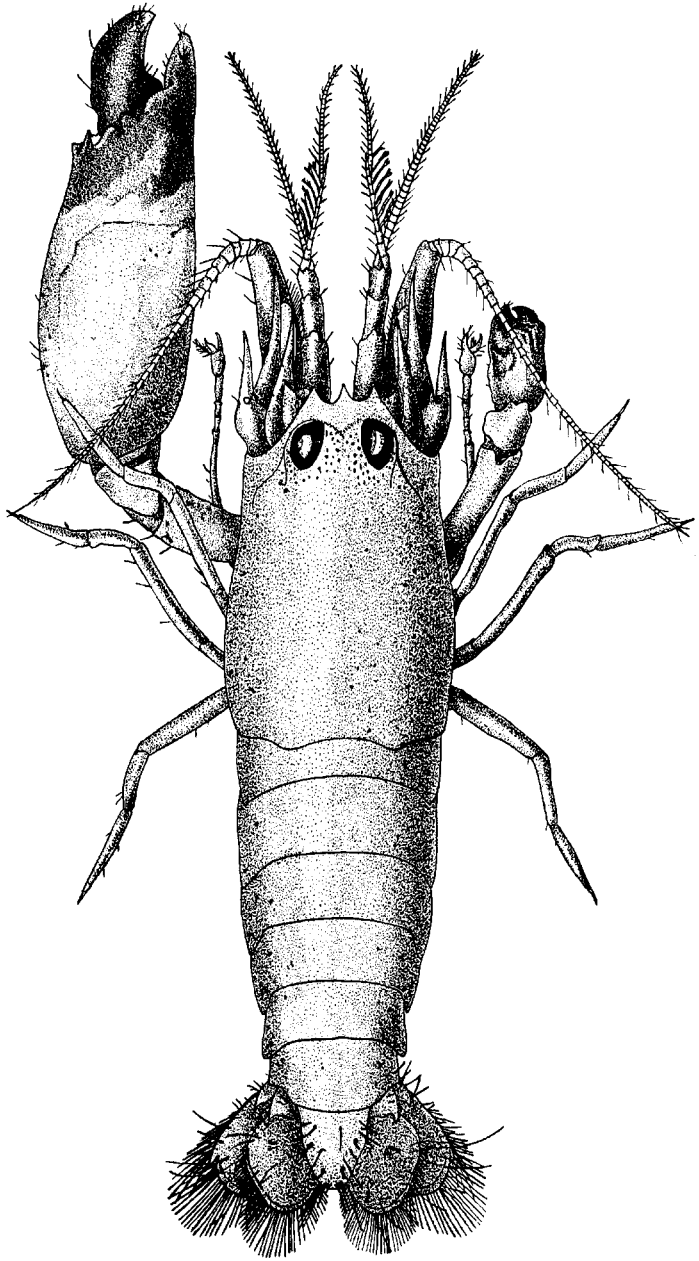


Fig. 63. *Synalpheus brevicarpus* (Herrick). After Brooks & Herrick, 1893.

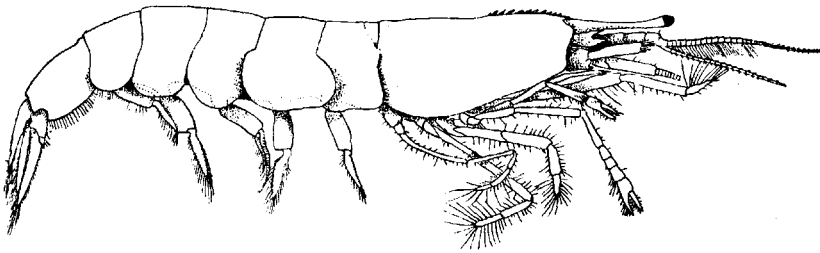


Fig. 64. *Ogyrides striaticauda* Kemp. After Kubo, 1951.

Latreutidae Ortmann, 1896, Zool. Jb. Syst. 9:415, 424.
 Hippolytinae Perrier, 1899, Traité Zool. 3:1030.
 Hippolyidae Yu, 1935, Chin. Journ. Zool. 1:43, 45, 47, 49, 51, 53.
 Hyppolitidae Dohrn, 1950, Pubbl. Sta. zool. Napoli 22:257, 259, 261, 263, 265, 267, 269, 271.

The Hippolytid genera may be distinguished as follows:

- | | |
|--|----------------------|
| 1. Arthrobranchs present at the bases of the first four pairs of pereopods. | 2 |
| — Bases of the pereopods without arthrobranchs. | 5 |
| 2. An articulated plate at the posterolateral angle of the sixth abdominal segment. | 3 |
| — No articulated plate at the posterolateral angle of the sixth abdominal segment. | 4 |
| 3. Mandible with incisor process | <i>Saron</i> |
| — Mandible without incisor process | <i>Nauticaris</i> |
| 4. Mandible with incisor process. | <i>Merhippolyte</i> |
| — Mandible without incisor process | <i>Ligur</i> |
| 5. Mandible with palp | 6 |
| — Mandible without palp | 16 |
| 6. Supraorbital spines absent from carapace | 7 |
| — Carapace with one or more supraorbital spines | 12 |
| 7. Mandibular palp composed of three segments | 8 |
| — Mandibular palp composed of one or two segments | 10 |
| 8. Mandible without incisor process | <i>Barbouria</i> |
| — Mandible with incisor process | 9 |
| 9. Carpus of second pereopod two-jointed | <i>Caridion</i> |
| — Carpus of second pereopod with 9 to 12 joints | <i>Chorismus</i> |
| 10. Mandibular palp consisting of only one segment. Carpus of second pereopod with 4 joints | <i>Leontocaris</i> |
| — Mandibular palp consisting of two segments. Carpus of second pereopod with seven joints | 11 |
| 11. Third maxilliped provided with an exopod. | <i>Eualus</i> |
| — Third maxilliped without exopod | <i>Heptacarpus</i> |
| 12. Mandibular palp three-jointed. | <i>Alope</i> |
| — Mandibular palp two-jointed | 13 |
| 13. Carpus of second pereopod two-jointed. Lateral surface of carapace with many scattered spines | <i>Trachycaris</i> |
| — Carpus of second pereopod seven-jointed. Lateral surface of carapace smooth (except for the supraorbital spines) | 14 |
| 14. Carapace with two or more supraorbital spines at each side. Third maxilliped with an exopod | <i>Spirontocaris</i> |

- Carapace with only one supraorbital spine on each side. Third maxilliped without exopod 15
- 15. Abdominal segments dorsally rounded. Both antennal and pterygostomial spines present. No branchiostegal spine *Lebbeus*
- Abdominal segments 1 and 5 with two, 2, 3, and 4 with one dorsal carina. One large branchiostegal spine present on carapace, no antennal or pterygostomial spines. *Birulia*
- 16. Mandible with incisor process 17
- Mandible without incisor process. 21
- 17. Carpus of second pereopod composed of 2 or 3 segments. 18
- Carpus of second pereopod composed of 6 or 7 segments. 19
- 18. Carpus of second pereopod two-jointed. *Phycocaris*
- Carpus of second pereopod three-jointed *Hippolyte*
- 19. Dactylus of first pereopod less than $\frac{1}{6}$ of the length of the propodus. Telson with about 20 spinules along each lateral margin. *Cryptocheles*
- Dactylus of first pereopod $\frac{1}{3}$ or more of the length of the propodus. Telson with less than 5 pairs of lateral spinules; these are placed some distance from the lateral margin. 20
- 20. Epipods present on the first two pairs of pereopods. No movable plate at the anterior margin of the third segment of the antennular peduncle . . . *Thoralus*
- No epipods present at the bases of the pereopods. Third segment of the antennular peduncle with a broad movable plate at the upper part of the anterior margin. *Thor*
- 21. Carpus of second pereopod composed of three segments 22
- Carpus of second pereopod multi-articulate 25
- 22. Dactylus of last three pairs of pereopods bearing a cluster of large teeth. Outer margin of scaphocerite provided with small movable teeth. Lower border of abdominal pleurae denticulate *Gelastocaris*
- Dactylus of last three pairs of pereopods normal in shape. Outer margin of scaphocerite without teeth. Abdominal pleurae without small marginal denticles. 23
- 23. Third maxilliped with exopod *Latreutes*
- Third maxilliped without exopod 24
- 24. Epipods on first four pereopods. Anterolateral angle of carapace with a series of small spines *Paralatreutes*
- No epipods on the pereopods. Anterolateral angle of carapace entire. *Tozeuma*
- 25. Abdominal segments ending in large median posterior spines. Pleurae ending in one or two sharp points. Carapace with longitudinal carinae. . . *Mimocaris*
- Abdominal segments without large posterior spines. Pleurae rounded. Carapace smooth 26
- 26. Supraorbital spines present on carapace. *Bythocaris*
- Supraorbital spines absent. 27
- 27. Third maxilliped without exopod *Merguia*
- Third maxilliped with exopod. 28
- 28. Upper antennular flagellum biramous *Lysmata*
- Upper antennular flagellum uniramous *Hippolysmata*
- a. Rostrum longer than carapace, provided with a dorsal basal crest of teeth, which are placed close together. subgenus *Exhippolysmata*
- Rostrum shorter than carapace; teeth divided more or less regularly over its dorsal margin, never forming a basal crest. b
- b. Epipods present on first four pereopods. subgenus *Hippolysmata*
- No epipods at the bases of the pereopods. subgenus *Lysmatella*

Saron Thallwitz, 1891 (fig. 65a)

Saron Thallwitz, 1891, Zool. Anz. 14:99. Type species, by monotypy: *Hippolyte gibberosus* H. Milne Edwards, 1837, Hist. nat. Crust. 2:378 (= *Palaemon marmoratus* Olivier, 1811, Encycl. méthod. Hist. nat. 8:663). Gender: masculine.

Nauticaris Bate, 1888 (fig. 65b)

Nauticaris Bate, 1888, Rep. Voy. Challenger, Zool. 24:577, 602. Type species, selected by Calman, 1906, Ann. Mag. nat. Hist. (7)17:31, : *Nauticaris marionis* Bate, 1888, Rep. Voy. Challenger, Zool. 24:603. Gender: feminine.

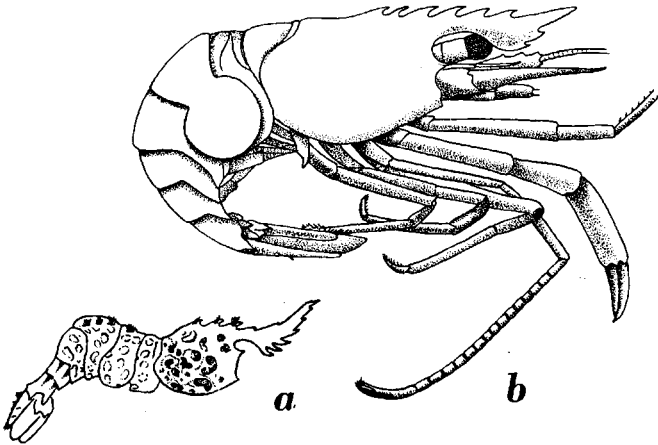


Fig. 65a. *Saron marmoratus* (Olivier). After Barnard, 1950.
 Fig. 65b. *Nauticaris marionis* Bate. After Thomson, 1903.

Merhippolyte Bate, 1888 (fig. 66a)

Merhippolyte Bate, 1888, Rep. Voy. Challenger, Zool. 24:577, 618. Type species, by original designation: *Merhippolyte agulhasensis* Bate, 1888, Rep. Voy. Challenger, Zool. 24:619. Gender: feminine.
Merhyppolyte Dohrn, 1950, Pubbl. Sta. zool. Napoli 22:257. Erroneous spelling of *Merhippolyte* Bate, 1888.

Ligur Sarato, 1885 (fig. 66b)

Lybia Hope, 1851, Catal. Crust. Ital.: 18. Type species, by monotypy: *Palaemon Ensiferus* Risso, 1816, Hist. nat. Crust. Nice: 106. Gender: feminine. Invalid junior homonym of *Lybia* H. Milne Edwards, 1834, Hist. nat. Crust. 1:431 (Crustacea Brachyura).

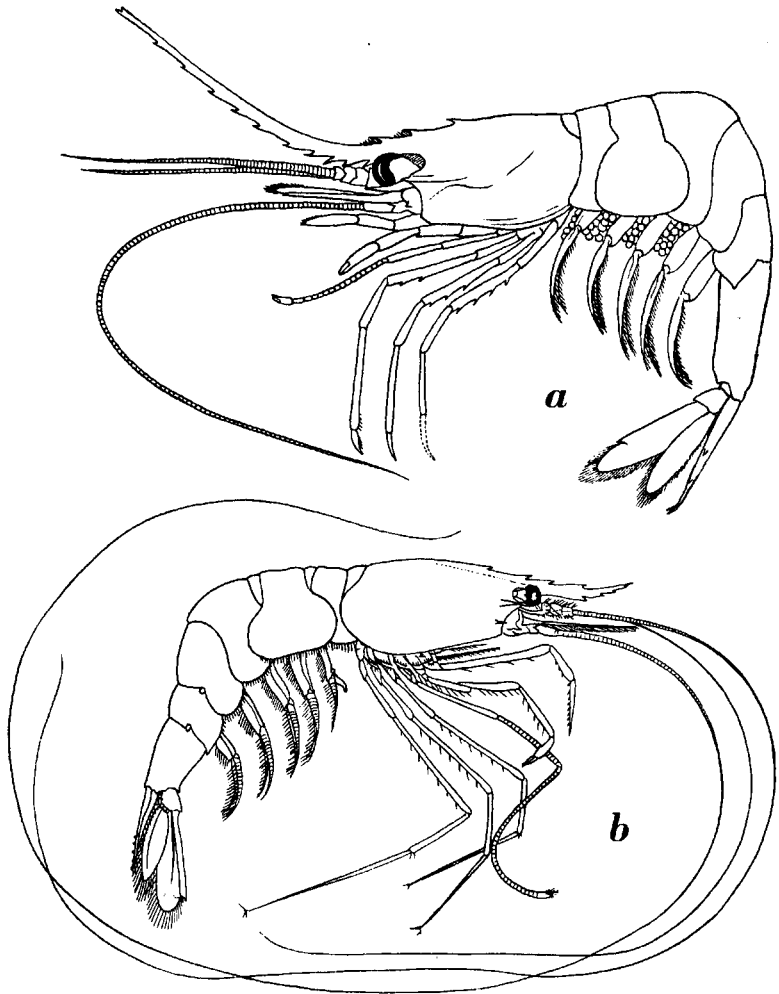


Fig. 66a. *Merhippolyte calmani* Kemp & Sewell. After Kemp & Sewell, 1912.

Fig. 66b. *Ligur ensiferus* (Risso). After Senna, 1903.

Ligur Sarato, 1885, *Moniteur des Étrangers* Nice 9(222): 2. Type species, by monotypy: *Ligur Edwardsii* Sarato, 1885, *Moniteur des Étrangers* Nice 9(222): 2 (= *Palemon Ensiferus* Risso, 1816, *Hist. nat. Crust. Nice*: 106). Gender: masculine.

Ligur Lucas, 1886, *Ann. Soc. entom. France* (6)5: ccix. Erroneous spelling of *Ligur* Sarato, 1885.

Parhippolyte Borradaile, 1899, *Wille's Zool. Res.* 4: 414. Type species, by

monotypy: *Parhippolyte wweae* Borradaile, 1899, Willey's Zool. Res. 4: 414. Gender: feminine.

Barbouria Rathbun, 1912 (fig. 67)

Barbouria Rathbun, 1912, Bull. Mus. comp. Zoöl. Harvard 54: 455. Type species, by monotypy: *Barbouria poeyi* Rathbun, 1912, Bull. Mus. comp. Zoöl. Harvard 54: 455 (= *Hippolyte Cubensis* Von Martens, 1872, Arch. Naturgesch. 38(1): 136). Gender: feminine.

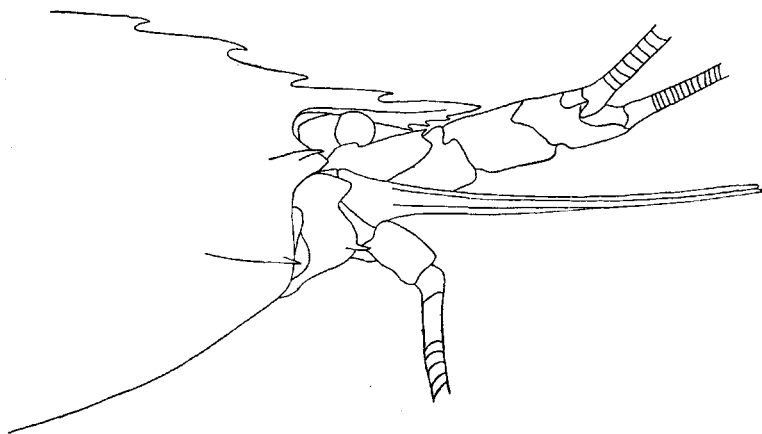


Fig. 67. *Barbouria cubensis* (Von Martens). Anterior part of body. Original.

Caridion Goës, 1863 (fig. 68a)

Doryphorus Norman, 1861, Ann. Mag. nat. Hist. (3)8: 276. Type species, by monotypy: *Hippolyte Gordonii* Bate, 1858, Nat. Hist. Rev. Proc. Soc. Dublin 5: iv. Gender: masculine. Invalid junior homonym of *Doryphorus* Cuvier, 1829, Règne anim. (ed. 2) 2: 34 (Reptilia).

Caridion Goës, 1863, Oefvers. K. Svensk. Vetensk. Akad. Förh. 20: 170. Substitute name for *Doryphorus* Norman, 1861. Gender: masculine.

Caridium Conseil Intern. Explor. Mer, 1909, Publ. Circ. 48: 134. Erroneous spelling of *Caridion* Goës, 1863.

Chorismus Bate, 1888 (fig. 68b)

Chorismus Bate, 1888, Rep. Voy. Challenger, Zool. 24: 577, 616. Type species, by monotypy: *Chorismus tuberculatus* Bate, 1888, Rep. Voy. Challenger, Zool. 24: 617. Gender: masculine.

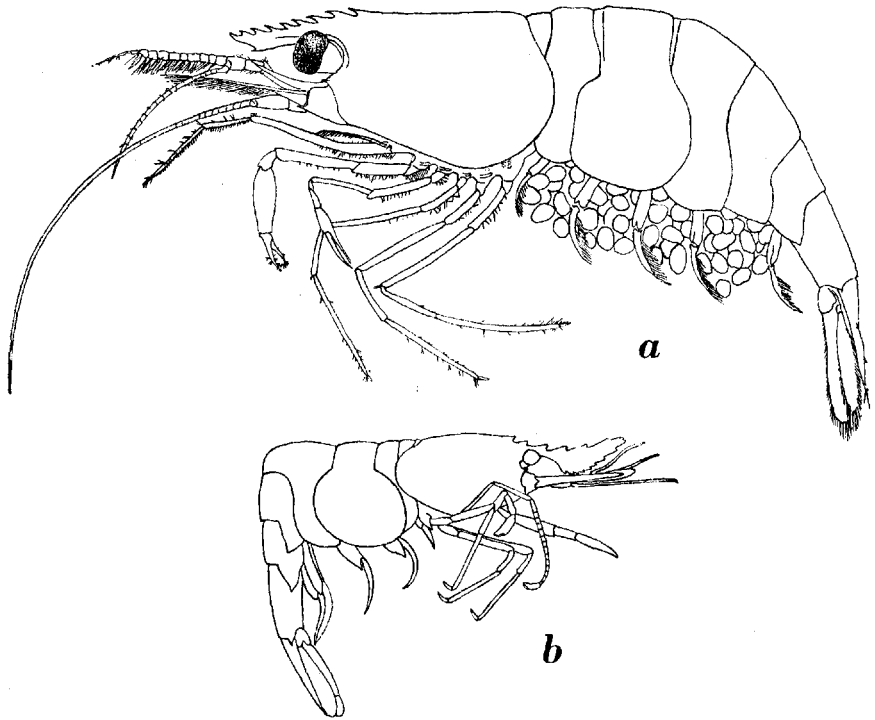


Fig. 68a. *Caridion gordonii* (Bate). After Kemp, 1910.

Fig. 68b. *Chorismus antarcticus* (Pfeffer). After Pfeffer, 1887.

Leontocaris Stebbing, 1905 (fig. 69a)

Leontocaris Stebbing, 1905, Mar. Invest. S. Afr. 4: 21, 98. Type species, by monotypy: *Leontocaris paulsoni* Stebbing, 1905, Mar. Invest. S. Afr. 4: 99. Gender: feminine.

Eualus Thallwitz, 1892 (fig. 69b)

Eualus Thallwitz, 1892, Abh. Ber. zool.-anthrop. Mus. Dresden 1890-91 (3): 23, 50. Type species, by monotypy: *Euales obses* Thallwitz, 1892, Abh. Ber. zool.-anthrop. Mus. Dresden 1890-91 (3): 23 (= *Hippolyte Gaimardii* H. Milne Edwards, 1837, Hist. nat. Crust. 2: 378). Gender: masculine.

Euales Thallwitz, 1892, Abh. Ber. zool.-anthrop. Mus. Dresden 1890-91 (3): 23. Erroneous spelling of *Eualus* Thallwitz, 1892.

Helia Thallwitz, 1892, Abh. Ber. zool.-anthrop. Mus. Dresden 1890-91 (3): 24, 50. Type species, by monotypy: *Hippolyte Fabricii* Krøyer, 1841,

Spirontocarella Brashnikov, 1907, Mém. Acad. Sci. Petersb. (8)20(6): 170.
 Type species, by monotypy: *Hippolyte macilenta* Krøyer, 1841, Naturhist. Tidsskr. 3: 574. Gender: feminine.

Heptacarpus Holmes, 1900 (fig. 70a)

Heptacarpus Holmes, 1900, Occ. Pap. Calif. Acad. Sci. 7: 195. Type species, by original designation: *Hippolyte palpator* Owen, 1839, Zool. Beechey's Voy. Blossom: 89. Gender: masculine.

Heptacartus Kuznetsov, 1950, C. R. Acad. Sci. Moscow (n. ser.) 75: 316. Erroneous spelling of *Heptacarpus* Holmes, 1900.

Heptacartus Kuznetsov, 1950, C. R. Acad. Sci. Moscow (n. ser.) 75: 317. Erroneous spelling of *Heptacarpus* Holmes, 1900.

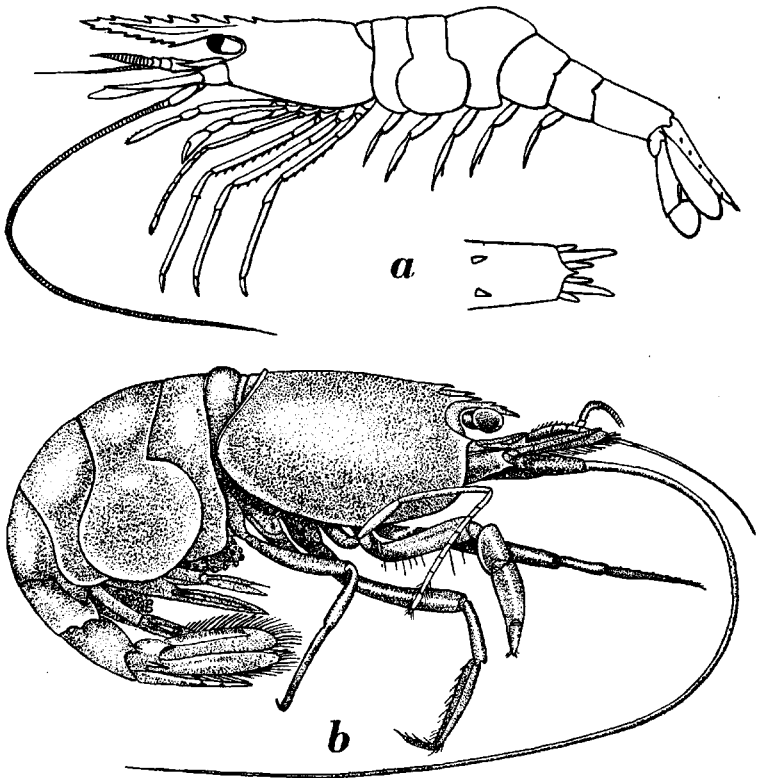


Fig. 70a. *Heptacarpus minutus* Yokoya. After Yokoya, 1930.

Fig. 70b. *Alope orientalis* (De Man). After De Man, 1890.

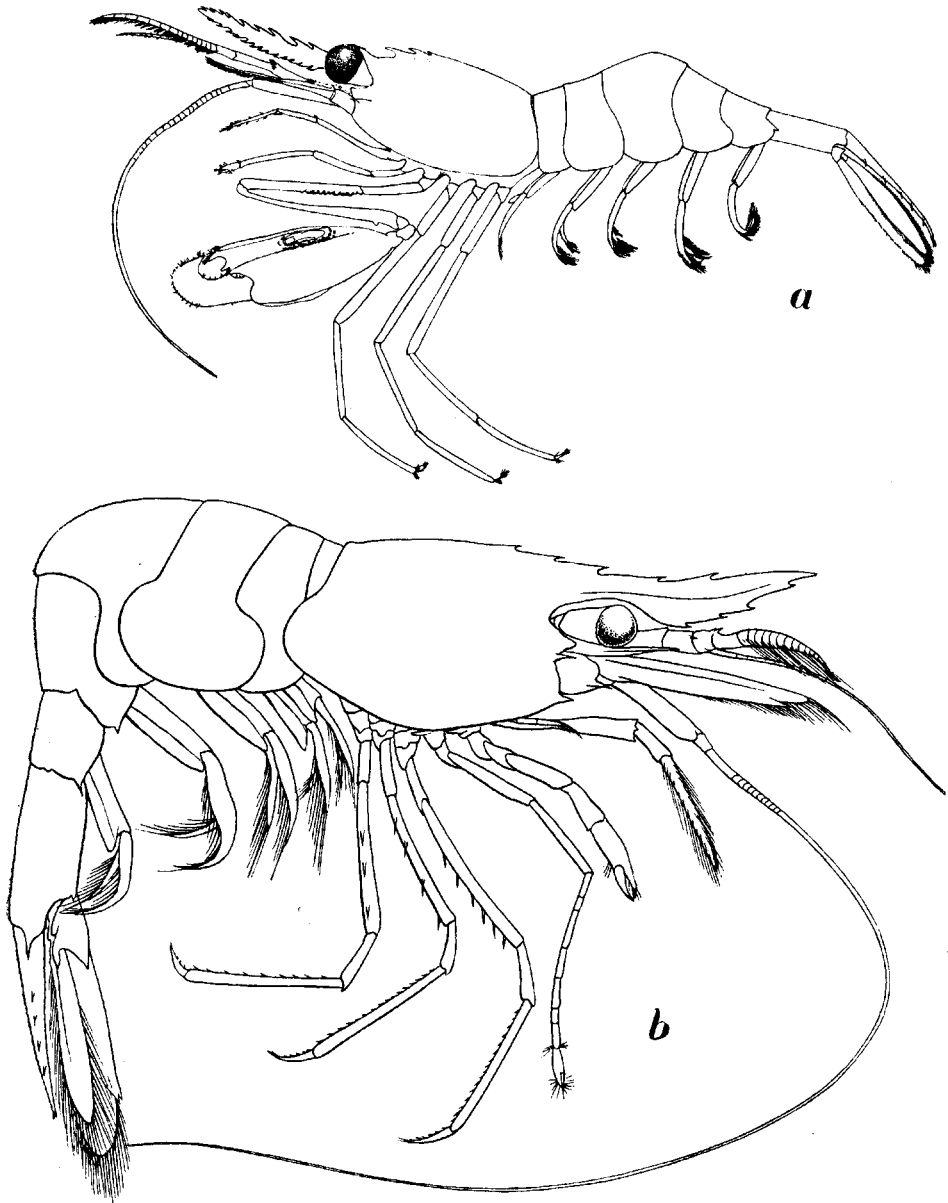


Fig. 69a. *Leontocaris lar* Kemp. After Kemp, 1910.

Fig. 69b. *Eualus gainardi* (H. Milne Edwards). After Holthuis, 1950.

Naturhist. Tidsskr. 3: 571. Gender: feminine. Invalid junior homonym of *Helia* Huebner, 1818, Zuträge Exot. Schmett. 1: 27, 29 (Lepidoptera).

Alope White, 1847 (fig. 70b)

Alope White, 1847, Proc. zool. Soc. Lond. 15: 123. Type species, by monotypy: *Alope palpalis* White, 1847, Proc. zool. Soc. Lond. 15: 124 (= *Hippolyte spinifrons* H. Milne Edwards, 1837, Hist. nat. Crust. 2: 377). Gender: feminine.

Hetairocaris De Man, 1890, Notes Leyden Mus. 12: 120. Type species, by monotypy: *Hetairocaris orientalis* De Man, 1890, Notes Leyden Mus. 12: 122. Gender: feminine.

Trachycaris Calman, 1906 (fig. 71a)

Trachycaris Calman, 1906, Ann. Mag. nat. Hist. (7)17: 31, 33. Type species, by monotypy: *Platybema rugosus* Bate, 1888, Rep. Voy. Challenger, Zool. 24: 579 (= *Hippolyte restrictus* A. Milne Edwards, 1878, Bull. Soc. philom. Paris (7)2: 231). Gender: feminine.

Spirontocaris Bate, 1888 (fig. 71b)

Sowerbyus Hoek, 1887, Tijdschr. Nederl. dierk. Ver. (2)1: ccviii. Type species, by monotypy *Sowerbyus spinus* Hoek, 1887, Tijdschr. Nederl. dierk. Ver. (2)1: ccviii (= *Cancer Spinus* Sowerby, 1805, Brit. Miscell. (4): 47). Gender: masculine. Nomen nudum.

Spirontocaris Bate, 1888, Rep. Voy. Challenger, Zool. 24: 576, 595. Type species, by monotypy: *Cancer Spinus* Sowerby, 1805, Brit. Miscell. (4): 47. Gender: feminine.

Spirontocharis Clark, 1909, Zoologist, London (4)13: 306, 307. Erroneous spelling of *Spirontocaris* Bate, 1888.

Spirontocanus Taylor, 1912, Contr. Canad. Biol. 1906-1910: 196. Erroneous spelling of *Spirontocaris* Bate, 1888.

Spirontocan's Taylor, 1912, Contr. Canad. Biol. 1906-1910: 199. Erroneous spelling of *Spirontocaris* Bate, 1888.

Spriontocaris Cowles, 1930, Bull. U. S. Bur. Fish. 46: 356. Erroneous spelling of *Spirontocaris* Bate, 1888.

Lebbeus White, 1847 (fig. 72a)

Lebbeus White, 1847, List Crust. Brit. Mus.: 76, 135. Type species, by monotypy: *Lebbeus orthorhynchus* (Leach MSS) White, 1847, List Crust. Brit. Mus.: 76 (= *Alpheus Polaris* Sabine, 1824, Suppl. App. Parry's Voy. N. W. Pass.: ccxxxviii). Gender: masculine.

Hetairus Bate, 1888, Rep. Voy. Challenger, Zool. 24: 577, 610. Type species, designated under the plenary powers of the International Commission

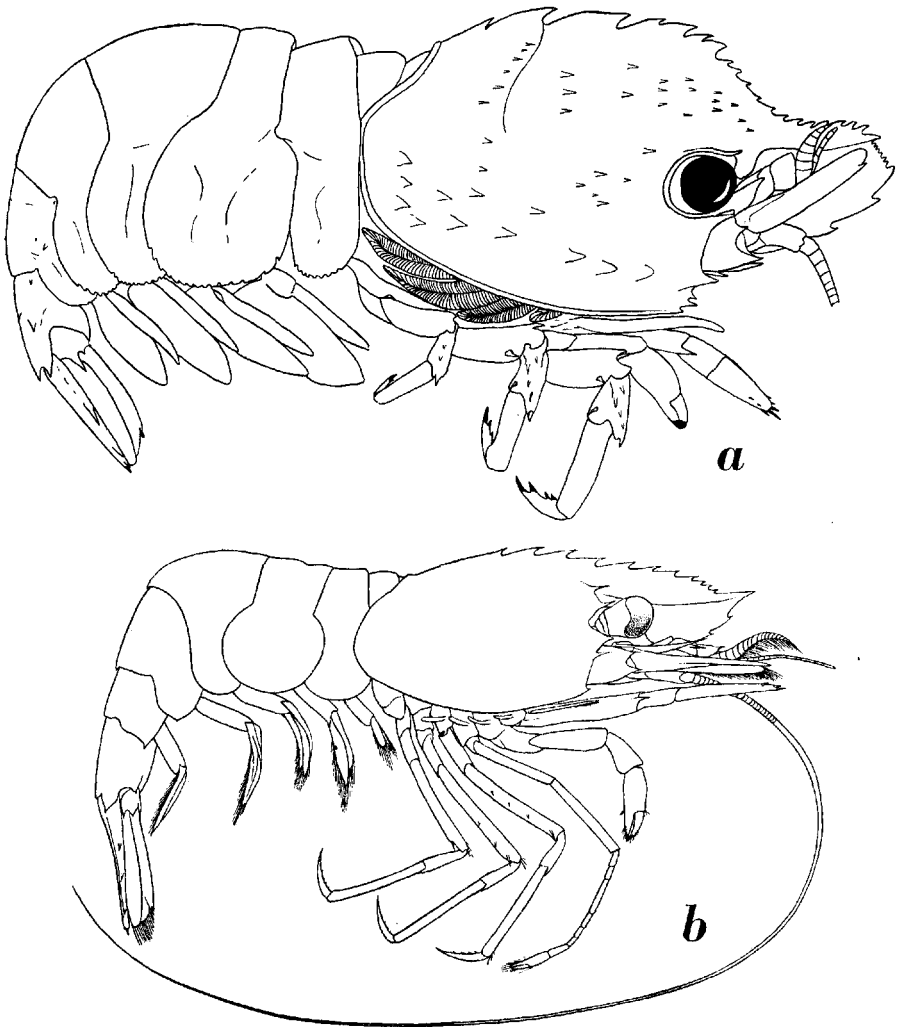


Fig. 71a. *Trachycaris restricta* (A. Milne Edwards). After Holthuis, 1949.

Fig. 71b. *Spirontocaris liljeborgi* (Danielssen). After Holthuis, 1950.

on Zoological Nomenclature: *Alpheus Polaris* Sabine, 1824, Suppl. App. Parry's Voy. N. W. Pass.: ccxxxviii. Gender: masculine.

Hetavirus Perrier, 1899, *Traité Zool.* 3: 1030. Erroneous spelling of *Hetairus* Bate, 1888.

Birulaecaris Dons, 1915, *Tromsø Mus. Aarsh.* 37: 26. Type species, by monotypy: *Hippolyte mysis* Birula, 1898, *Annu. Mus. zool. Petersb.* 3: 184

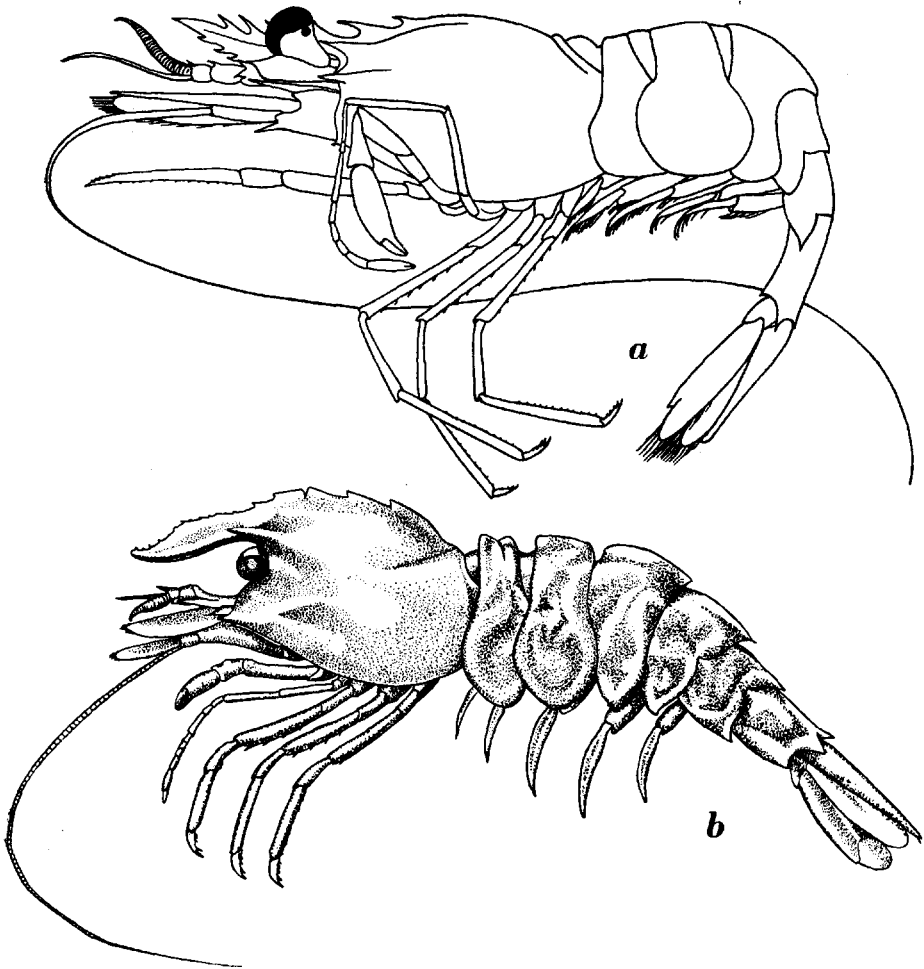


Fig. 72a. *Lebbeus polaris* (Sabine). After Bate, 1888.

Fig. 72b. *Birulia kishinouyei* (Yokoya). After Yokoya, 1930.

(= *Alpheus Polaris* Sabine, 1824, Suppl. App. Parry's Voy. N. W. Pass.: ccxxxviii). Gender: feminine.

Heterius Alpatov, 1923, Ber. wiss. Meeresinst. Moskau 1(7): 4, 5, 9, 33. Erroneous spelling of *Hetairus* Bate, 1888.

Birulia Brashnikov, 1903 (fig. 72b)

Birulia Brashnikov, 1903, Annu. Mus. zool. Petersb. 8: xlv. Type species, by monotypy: *Birulia sachalinensis* Brashnikov, 1903, Annu. Mus. zool. Petersb. 8: xlv. Gender: feminine.

Paraspirontocaris Yokoya, 1930, Sci. Rep. Tôhoku Imp. Univ. (4)5: 535. Type species, by monotypy: *Paraspirontocaris kishinouyei* Yokoya, 1930, Sci. Rep. Tôhoku Imp. Univ. (4)5: 536. Gender: feminine.

Phycocaris Kemp, 1916 (fig. 73)

Phycocaris Kemp, 1916, Rec. Indian Mus. 12: 391. Type species, by monotypy: *Phycocaris simulans* Kemp, 1916, Rec. Indian Mus. 12: 392. Gender: feminine.

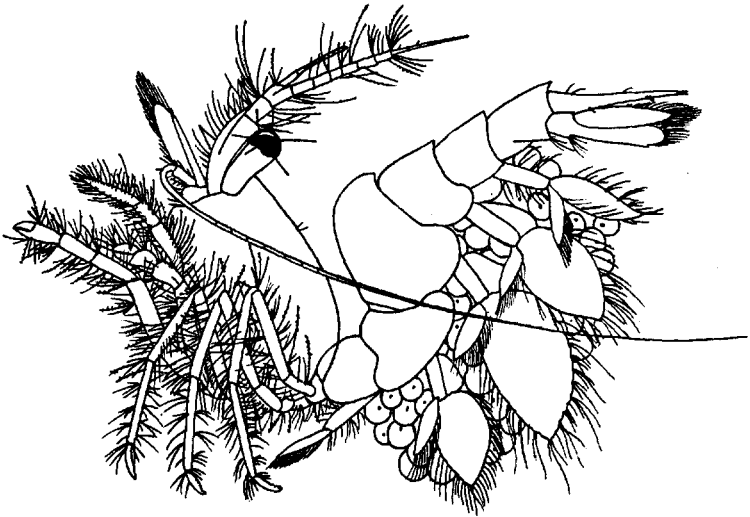


Fig. 73. *Phycocaris simulans* Kemp. After Kemp, 1916.

Hippolyte Leach, 1814 (fig. 74)

Hippolyte Leach, 1814, Edinb. Encycl. 7(2):431. Type species, by monotypy: *Hippolyte Varians* Leach, 1814, Edinb. Encycl. 7 (2): 431. Gender: feminine.

Hippolyte Leach, 1815, Trans. Linn. Soc. Lond. 11: 346. Erroneous spelling of *Hippolyte* Leach, 1814.

Nectoceras Rafinesque, 1817, Amer. monthly Mag. crit. Rev. 2: 41. Type species, by monotypy: *Nectoceras pelagica* Rafinesque, 1817, Amer. monthly Mag. crit. Rev. 2: 41 (= *Astacus coerulescens* Fabricius, 1775, Syst. Ent.: 414). Gender: neuter.

Nectocerus Desmarest, 1823, Dict. Sci. nat. 28: 421. Erroneous spelling of *Nectoceras* Rafinesque, 1817.

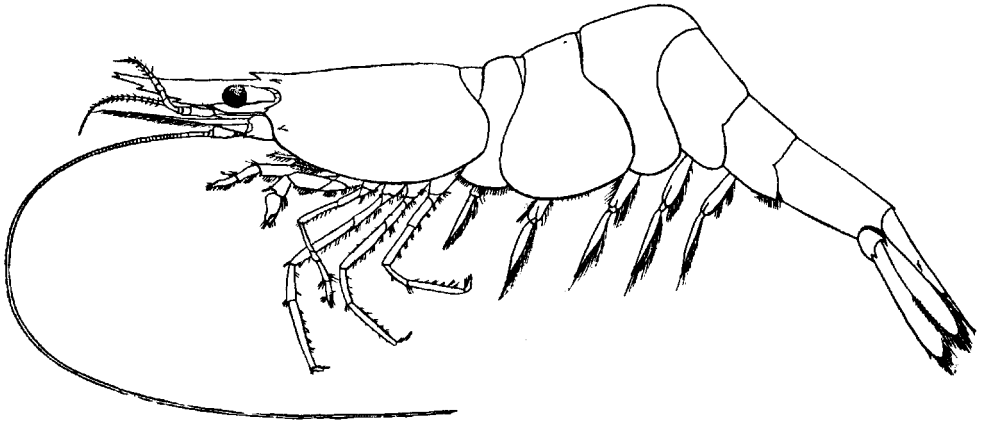


Fig. 74. *Hippolyte varians* Leach. After Kemp, 1910.

- Hippolytes* Risso, 1826, Hist. nat. Europ. mérid. 5: 78. Erroneous spelling of *Hippolyte* Leach, 1814.
- Hippolytus* Guérin, 1832, Expéd. sci. Morée, Zool. 2: 41. Erroneous spelling of *Hippolyte* Leach, 1814.
- Hippolite* J. C. Ross, 1835, J. Ross's App. Narrat. 2nd Voy. N. W. Pass.: lxxxiii. Erroneous spelling of *Hippolyte* Leach, 1814.
- Hippolyta* Burmeister, 1837, Handb. Naturgesch. 2: 565. Erroneous spelling of *Hippolyte* Leach, 1814.
- Hippolithe* Brullé, 1839, Webb & Berthelot's Hist. nat. Iles Canaries 2 (2, Entomol.): 18. Erroneous spelling of *Hippolyte* Leach, 1814.
- Hypolite* Veranyi, 1846, Catal. Anim. Golfo Genova: 8. Erroneous spelling of *Hippolyte* Leach, 1814.
- Virbius* Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 35. Type species, selected by Kingsley, 1880, Proc. Acad. nat. Sci. Phila. 1879: 421, : *Hippolyte acuminatus* Dana, 1852, Proc. Acad. nat. Sci. Phila. 6: 24 (= *Astacus coerulescens* Fabricius, 1775, Syst. Ent.: 414). Gender: masculine.
- Bellidia* Gosse, 1877, Ann. Mag. nat. Hist. (4)20: 313. Type species, by monotypy: *Bellidia Huntii* Gosse, 1877, Ann. Mag. nat. Hist. (4)20: 313, 314. Gender: feminine.
- Verbius* Bate, 1888, Rep. Voy. Challenger, Zool. 24: 587, 589, 942. Erroneous spelling of *Virbius* Stimpson, 1860.
- Hypolyte* Newcombe, 1898, Catal. Coll. Provinc. Mus. Brit. Columb.: 79. Erroneous spelling of *Hippolyte* Leach, 1814.
- Hippolytte* Valdés Ragués, 1909, Mis Trabajos Acad.: 182. Erroneous spelling of *Hippolyte* Leach, 1814.

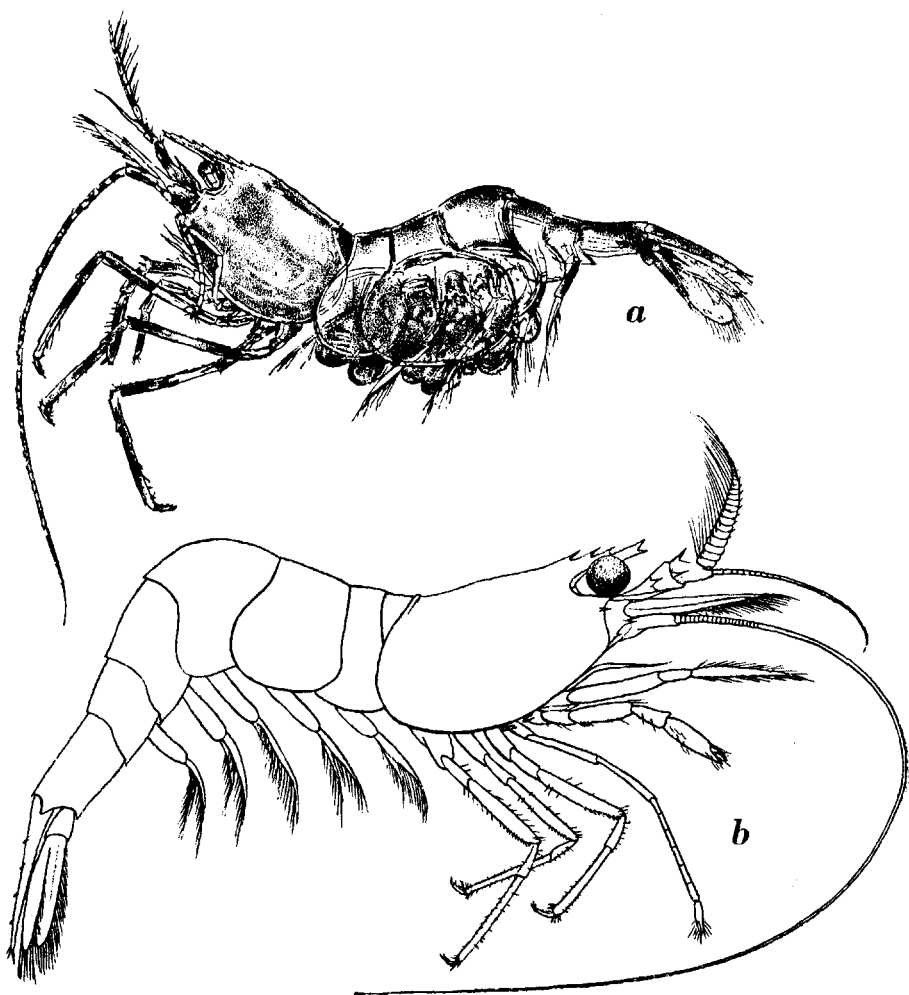


Fig. 75a. *Cryptocheles pygmaea* Sars. After Sars, 1912.

Fig. 75b. *Thoralus cranchi* (Leach). After Holthuis, 1950.

Ippolyte Magri, 1911, Atti Accad. gioen. Sci. nat. Catania (5)4(14): 25.
Erroneous spelling of *Hippolyte* Leach, 1814.

Hyppolythe Borcea, 1934, Ann. Univ. Jassy 29: 405. Erroneous spelling of
Hippolyte Leach, 1814.

Vlrbius Bulgurkov, 1938, Arb. biol. Meeressta. Varna 7: 86. Erroneous spelling of
Virbius Stimpson, 1860.

Cryptocheles Sars, 1870 (fig. 75a)

Cryptocheles Sars, 1870. Forh. Vidensk. Selsk. Christiania 1869: 150. Type species, by monotypy: *Cryptocheles pygmaea* Sars, 1870, Forh. Vidensk. Selsk. Christiania 1869: 150. Gender: feminine.

Thoralus Holthuis, 1947 (fig. 75b)

?*Vianellia* Nardo, 1847, Sinon. modern. Spec. Lag. Golfo Veneto: 8. Type species, by monotypy: *Vianellia dorsioculata* Nardo, 1847, Sinon. modern. Spec. Lag. Golfo Veneto: 8 (? = *Hippolyte Cranchii* Leach, 1817, Malac. Podophth. Brit. (16): pl. 38 figs. 17-21). Gender: feminine.

Lysippe Kinahan, 1858, Nat. Hist. Rev. Dublin 5: 266. Type species, by monotypy: *Hippolyte Cranchii* Leach, 1817, Malac. Podophth. Brit. (16): pl. 38 figs. 17-21. Gender: masculine. Generic name suppressed under the plenary powers of the International Commission on Zoological Nomenclature.

Thoralus Holthuis, 1947, Siboga Exped. 39(a8): 5, 14, 45. Type species, by original designation: *Hippolyte Cranchii* Leach, 1817, Malac. Podophth. Brit. (16): pl. 38 figs. 17-21. Gender: masculine.

Thor Kingsley, 1878 (fig. 76a)

Thor Kingsley, 1878, Proc. Acad. nat. Sci. Phila. 1878: 94. Type species, by monotypy: *Thor floridanus* Kingsley, 1878, Proc. Acad. nat. Sci. Phila. 1878: 95. Gender: masculine.

Paschocaris Nobili, 1905, Bull. Mus. Hist. nat. Paris 11: 395. Type species, by monotypy: *Hippolyte paschalis* Heller, 1862, S. B. Akad. Wiss. Wien 44(1): 276. Gender: feminine.

Tor Balss, 1915, Denkschr. Akad. Wiss. Wien 91: 25. Erroneous spelling of *Thor* Kingsley, 1878.

Gelastocaris Kemp, 1914 (fig. 76b)

Gelastocaris Kemp, 1914, Rec. Indian Mus. 10: 106. Type species, by monotypy: *Latreutes Paronae* Nobili, 1905, Boll. Mus. Zool. Anat. comp. Torino 20(506): 2. Gender: feminine.

Latreutes Stimpson, 1860 (fig. 77a)

Cyclorhynchus De Haan, 1849, Fauna Japon., Crust. (6): 173, 174, 175. Type species, by monotypy: *Hippolyte planirostris* De Haan, 1844, Fauna Japon., Crust. (6/7 p.p.): pl. 45 fig. 7. Gender: neuter. Invalid junior homonym of *Cyclorhynchus* Kaup, 1829, Skizz. Europ. Thierw.: 195 (Aves), *Cyclorhynchus* Sundevall, 1836, K. Svenska Vetensk. Akad.

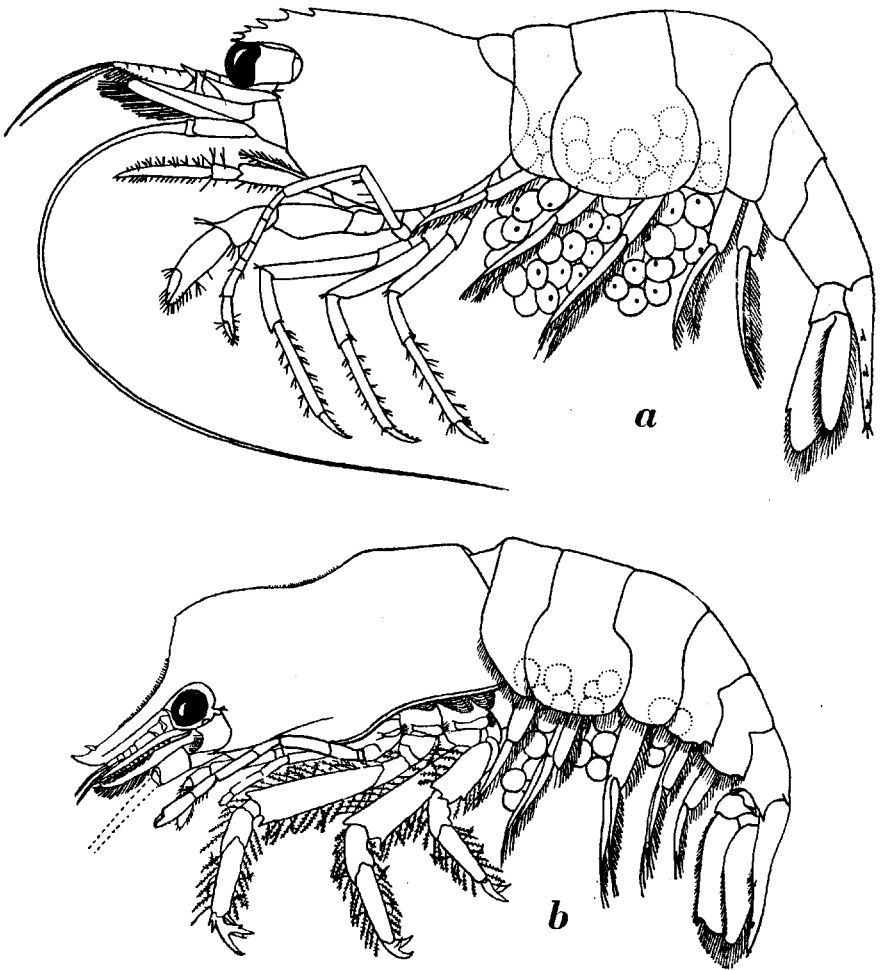


Fig. 76a. *Thor paschalis* (Heller). After Kemp, 1914.
 Fig. 76b. *Gelastocaris paronae* (Nobili). After Kemp, 1914.

Handl. 1835: 83 (Aves), *Cyclorhynchus* Macquart, 1841, Mém. Soc. Sci. Lille 1840: 392 (Diptera).

Latreutes Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 27. Type species, selected by Kingsley, 1880, Proc. Acad. nat. Sci. Phila. 1879: 413, : *Hippolyte ensiferus* H. Milne Edwards, 1837, Hist. nat. Crust. 2: 374 (= *Palaemon fucorum* Fabricius, 1798, Suppl. Ent. Syst.: 404). Gender: masculine.

Rhynchocyclus Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 27. Substitute name for *Cyclorhynchus* De Haan, 1849. Gender: masculine. (In-

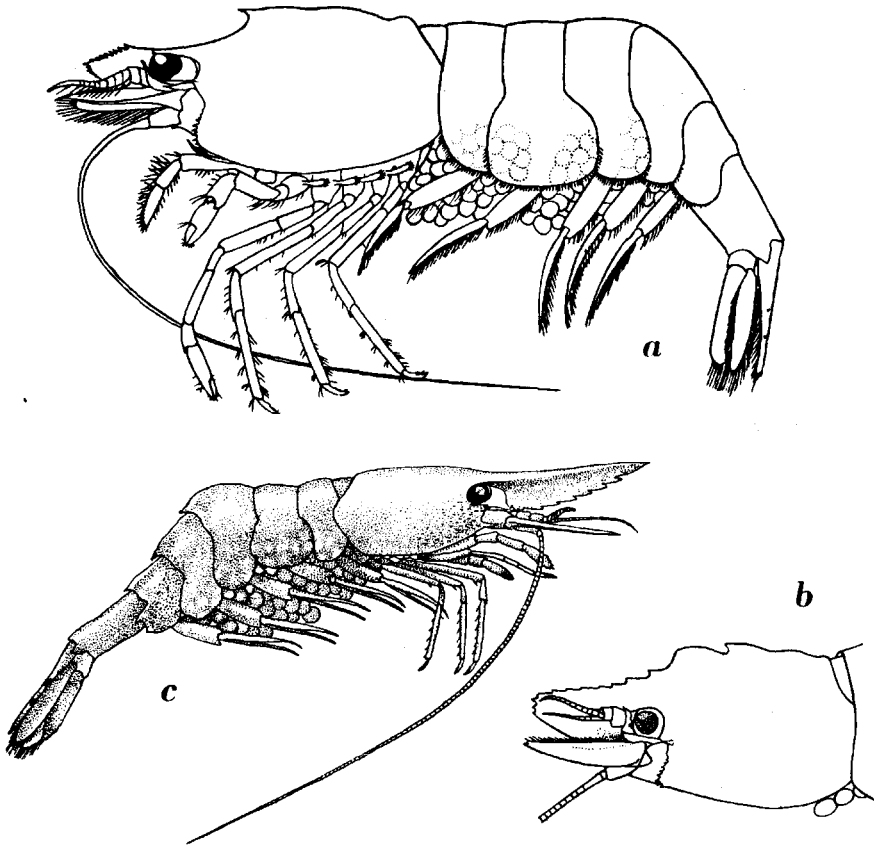


Fig. 77a. *Latreutes mucronatus* (Stimpson). After Kemp, 1914.

Fig. 77b. *Paralatreutes bicornis* Kemp. Anterior part of body. After Kemp, 1925.

Fig. 77c. *Tozeuma novae-zealandiae* Borradaile. After Borradaile, 1916.

valid junior?) homonym of *Rhynchocyclus* Cabanis & Heine, 1860, Mus. Hein. 2: 56 (Aves).

Concordia Kingsley, 1880, Proc. Acad. nat. Sci. Phila. 1879: 413. Type species, by monotypy: *Concordia gibberosus* Kingsley, 1880, Proc. Acad. nat. Sci. Phila. 1879: 414 (= *Rhynchocyclus parvulus* Stimpson, 1866, Proc. Chicago Acad. Sci. 1: 48). Gender: feminine.

Platybema Bate, 1888, Rep. Voy. Challenger, Zool. 24: 576, 578. Substitute name for *Cyclorhynchus* De Haan, 1849, and *Rhynchocyclus* Stimpson, 1860. Gender: neuter.

Cyclorhynchus Bate, 1888, Rep. Voy. Challenger, Zool. 24: 578. Erroneous spelling of *Cyclorhynchus* De Haan, 1849.

Conchordia Cary & Spaulding, 1909, Contrib. mar. Fauna Louisiana Coast: 10. Erroneous spelling of *Concordia* Kingsley, 1880.

Platyblema Bouvier, 1918, Bull. Mus. Hist. nat. Paris 24:6. Erroneous spelling of *Platybema* Bate, 1888.

Latrentes Urita, 1921, Zool. Mag. Tokyo 33:216. Erroneous spelling of *Latreutes* Stimpson, 1860.

Laterlutes Urita, 1921, Zool. Mag. Tokyo 33:219. Erroneous spelling of *Latreutes* Stimpson, 1860.

Paralatreutes Kemp, 1925 (fig. 77b)

Paralatreutes Kemp, 1925, Rec. Indian Mus. 27:334. Type species, by monotypy: *Paralatreutes bicornis* Kemp, 1925, Rec. Indian Mus. 27:334. Gender: masculine.

Tozeuma Stimpson, 1860 (fig. 77c)

Tozeuma Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860:26. Type species, by monotypy: *Tozeuma lanceolatum* Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860:27. Gender: neuter.

Angasia Bate, 1863, Proc. zool. Soc. Lond. 1863:498. Type species, by monotypy: *Angasia pavonina* Bate, 1863, Proc. zool. Soc. Lond. 1863:498. Gender: feminine.

Tizeuma Perrier, 1886, Explor. sous-mar.: 81. Erroneous spelling of *Tozeuma* Stimpson, 1860.

Mimocaris Nobili, 1903 (fig. 78a)

Mimocaris Nobili, 1903, Boll. Mus. Zool. Anat. comp. Torino 18(447):5. Type species, by monotypy: *Mimocaris heterocarpoïdes* Nobili, 1903, Boll. Mus. Zool. Anat. comp. Torino 18(447):6. Gender.: feminine.

Bythocaris Sars, 1870 (fig. 78b)

Bythocaris Sars, 1870, Forh. Vidensk. Selsk. Christiania 1869:149. Type species, by monotypy: *Bythocaris simplicirostris* Sars, 1870, Forh. Vidensk. Selsk. Christiania 1869:149. Gender: feminine.

Merguia Kemp, 1914 (fig. 78c)

Merguia Kemp, 1914, Rec. Indian Mus. 10:121. Type species, by monotypy: *Hippolyte oligodon* De Man, 1888, Journ. Linn. Soc. Lond. Zool. 22:277. Gender: feminine.

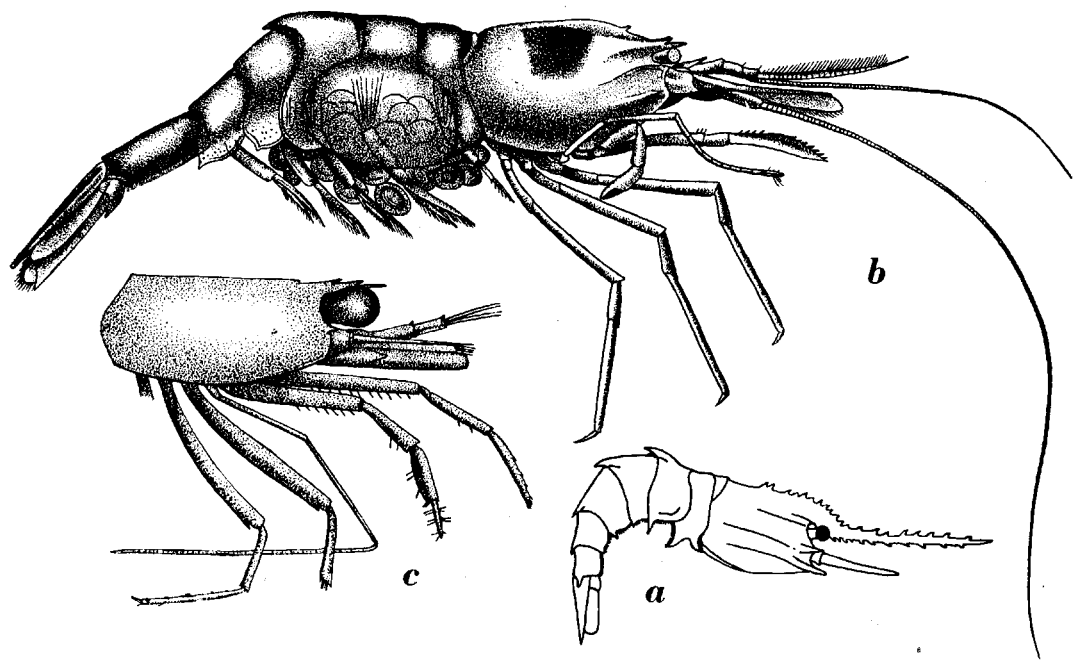


Fig. 78a. *Mimocaris heterocarpoides* Nobili, After Nobili, 1903.

Fig. 78b. *Bythocaris leucopis* Sars. After Sars, 1885.

Fig. 78c. *Merguia oligodon* (De Man). Anterior part of body. After De Man, 1888.

Lysmata Risso, 1816 (fig. 79a)

Aglaope Rafinesque, 1814, Préc. Découv. somiol.: 24. Type species, by monotypy: *Aglaope striata* Rafinesque, 1814, Préc. Découv. somiol.: 24 (= *Melicerta Seti Caudata* Risso, 1816, Hist. nat. Crust. Nice: 110). Gender: feminine. Invalid junior homonym of *Aglaope* Latreille, 1809, Gen. Crust. Ins. 4: 214 (Lepidoptera).

Niphea Rafinesque, 1815, Anal. Nature: 98. Substitute name for *Aglaope* Rafinesque, 1814. Gender: feminine.

Melicerta Risso, 1816, Hist. nat. Crust. Nice: 109. Type species, selected by H. Milne Edwards, 1837, Cuvier's Règne anim. (ed. 4, Discip. ed.) 18: pl. 54 fig. 3.: *Melicerta Seti Caudata* Risso, 1816, Hist. nat. Crust. Nice: 110. Gender: feminine. Invalid junior homonym of *Melicerta* Schrank, 1803, Fauna Boica 3(2): 302 (Vermes), and *Melicerta* Péron & Lesueur, 1810, Ann. Mus. Hist. nat. Paris 14: 352 (Coelenterata).

Lysmata Risso, 1816, Hist. nat. Crust. Nice: 175. Substitute name for *Melicerta* Risso, 1816. Gender: feminine.

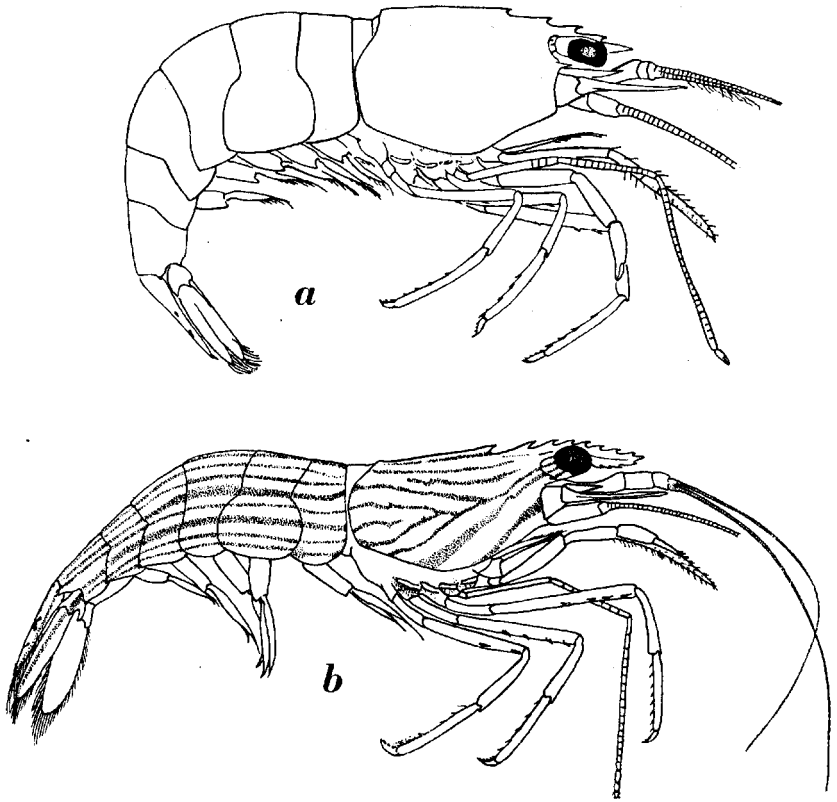


Fig. 79a. *Lysmata trisetacea* (Heller). After Kubo, 1940c.

Fig. 79b. *Hippolysmata (Hippolysmata) vittata* Stimpson. After Kubo, 1951.

Arno Roux, 1831, Mém. Class. Crust. Salic.: 18, 19. Substitute name for *Aglaope* Rafinesque, 1814. Gender: feminine.

Lismata Veranyi, 1846, Catal. Anim. Golfo Genova: 8. Erroneous spelling of *Lysmata* Risso, 1816.

Lysimata Nardo, 1869, Mem. Ist. Venet. Sci. Lett. Art. 14: 256. Erroneous spelling of *Lysmata* Risso, 1816.

Eretmocarid Bate, 1888, Rep. Voy. Challenger, Zool. 24: 894. Type species, by present selection: *Eretmocarid stylorostris* Bate, 1888, Rep. Voy. Challenger, Zool. 24: 898. Gender: feminine.

Milicerta Magri, 1911, Atti Accad. gioen. Sci. nat. Catania (5)4(14): 24, 31. Erroneous spelling of *Melicerta* Risso, 1816.

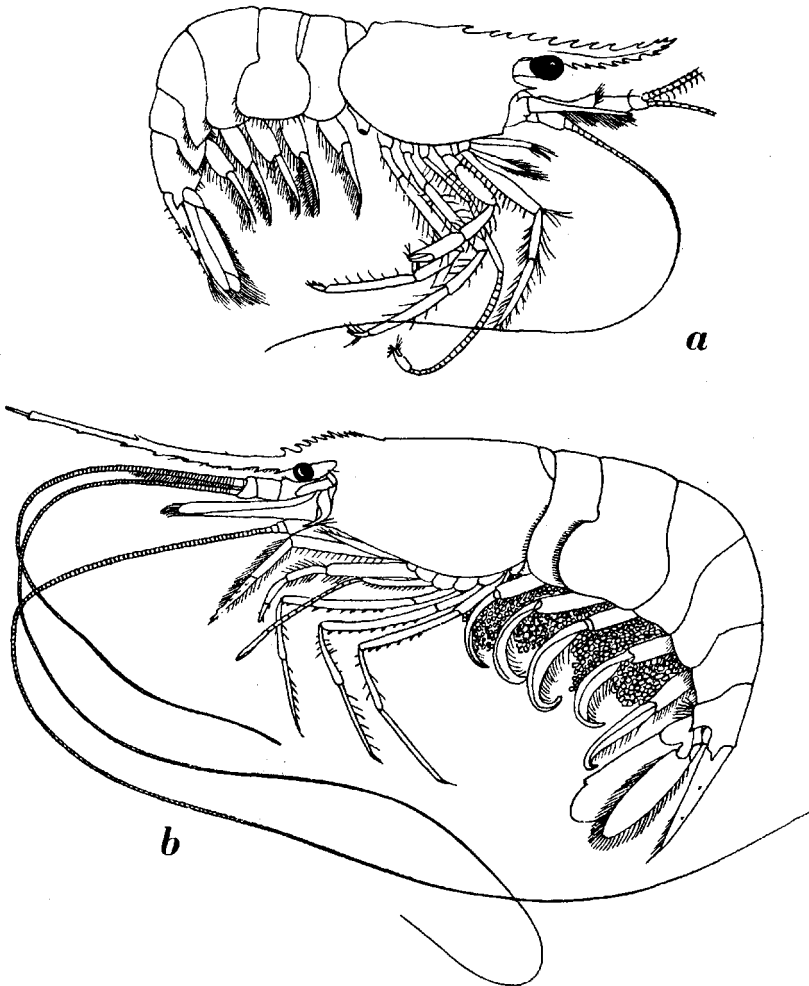


Fig. 80a. *Hippolysmata (Lysmatella) prima* (Borradaile). After Borradaile, 1917a.
 Fig. 80b. *Hippolysmata (Exhippolysmata) ensirostris* Kemp. After Kemp, 1914.

Hippolysmata Stimpson, 1860 (figs. 79b, 80)

Hippolysmata Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 26. Type species, by monotypy: *Hippolysmata vittata* Stimpson, 1860, Proc. Acad. nat. Sci. Phila. 1860: 26. Gender: feminine.

Lysmatella Borradaile, 1915, Ann. Mag. nat. Hist. (8)15: 206. Type species, by monotypy: *Lysmatella prima* Borradaile, 1915, Ann. Mag. nat. Hist. (8)15: 209. Gender: feminine.

Exhippolysmata Stebbing, 1915, Ann. S. Afr. Mus. 15: 94. Type species,

by present selection: *Hippolysmata ensirostris* Kemp, 1914, Rec. Indian Mus. 10: 118. Gender: feminine.

Family PROCESSIDAE

Nikidae Bate, 1888, Rep. Voy. Challenger, Zool. 24: xii, xli, 480, 503.

Hectarthropidae Bate, 1888, Rep. Voy. Challenger, Zool. 24: 481, 883.

Processidae Ortmann, 1896, Zool. Jb. Syst. 9: 415, 424.

Processinae Ortmann, 1896, Zool. Jb. Syst. 9: 425.

Nikinae Perrier, 1899, Traité Zool. 3: 1031.

Nikiidae Yokoya, 1933, Journ. Coll. Agric. Tokyo 12: 30.

This family consists of two genera:

1. First pereopod without exopod. *Processa*
- An exopod present at the base of the first pereopod *Nikoides*

Processa Leach, 1815 (fig. 81)

Thalassalpes Bosc, 1813, Nouv. Bull. Sci. Soc. philom. Paris 3(66): 233.

Type species, by present selection: *Nika Edulis* Risso, 1816, Hist. nat.

Crust. Nice: 85. Gender: masculine.

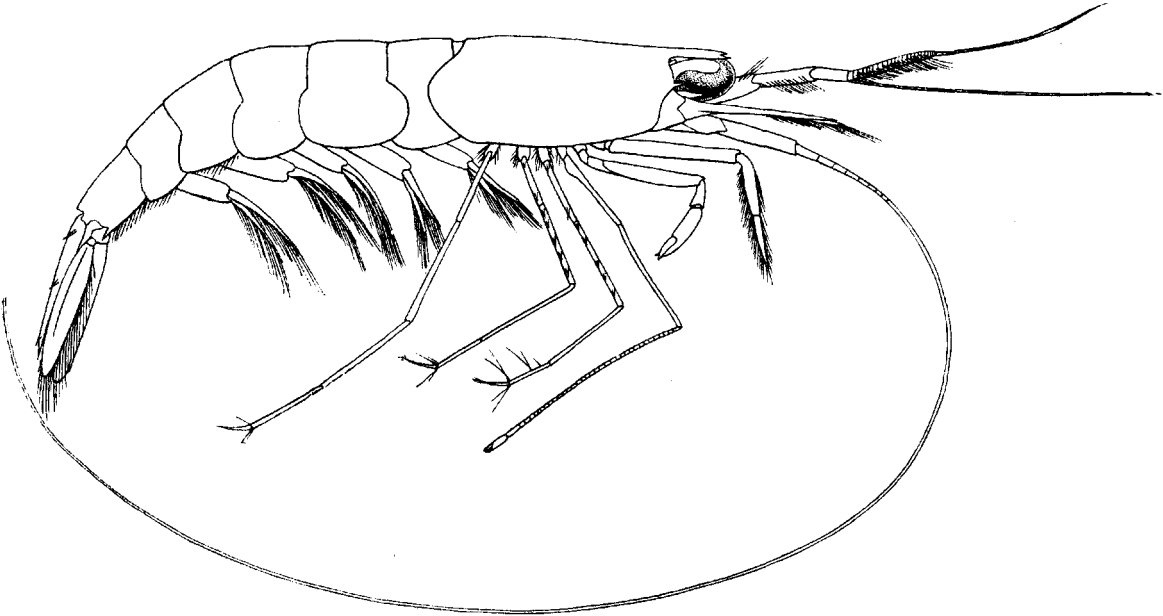


Fig. 81. *Processa canaliculata* Leach. After Holthuis, 1950.

Processa Leach, 1815, Malac. podophth. Brit. (4): explanation of pl. 41.

Type species, by monotypy: *Processa canaliculata* Leach, 1815, Malac. podophth. Brit. (4): explanation of pl. 41. Gender: feminine.

Nika Risso, 1816, Hist. nat. Crust. Nice: 84. Type species, selected by H. Milne Edwards, 1837, Cuvier's Règne anim. (ed. 4, Discip. ed.) 18: pl. 52 fig. 1.; *Nika Edulis* Risso, 1816, Hist. nat. Crust. Nice: 85. Gender: feminine.

Nica Berthold, 1826, Latreille's Nat. Fam. Thierreich: 586. Erroneous spelling of *Nika* Risso, 1816.

Velocina Gistel, 1848, Naturgesch. Thierr.: x. Substitute name for *Processa* Leach, 1815. Gender: feminine.

? *Chiereghina* Nardo, 1869, Mem. Ist. Veneto Sci. Lett. Art. 14: 320. Type species, by monotypy: *Cancer pellucidus* Nardo, 1847, Sinon. modern. Spec. Lag. Golfo Veneto: 5. Gender: feminine.

Hectarthropus Bate, 1888, Rep. Voy. Challenger, Zool. 24: 889. Type species, by present selection: *Hectarthropus expansus* Bate, 1888, Rep. Voy. Challenger, Zool. 24: 892. Gender: masculine.

Niki Watkin, 1925, Rep. Inv. Dept. Zool. Univ. Aberystw. (n. ser.) 1: 48. Erroneous spelling of *Nika* Risso, 1816.

Nikoides Paulson, 1875 (fig. 82)

Nikoides Paulson, 1875, Issljed. Rakoobr. Krasn. Morja (Stud. Crust. Red Sea): 98. Type species, by monotypy: *Nikoides Danae* Paulson, 1875, Issljed. Rakoobr. Krasn. Morja (Stud. Crust. Red Sea): 98. Gender: masculine.

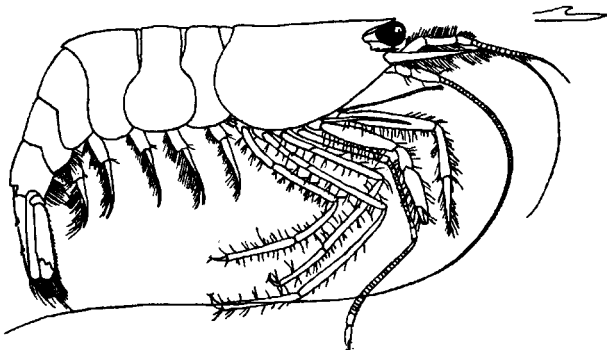


Fig. 82. *Nikoides maldivensis* Borradaile. After Borradaile, 1917a.

Nicoides Balss, 1915, Denkschr. Akad. Wiss. Wien 91: 32. Erroneous spelling of *Nikoides* Paulson, 1875.

Superfamily PANDALOIDA

Pandaloida Alcock, Descr. Catal. Indian Deep Sea Crust. Macr. Anom.: 55.

This superfamily consists of the three families Pandalidae, Thalassocarididae, and Physetocarididae.