

The Brachyura of New Caledonia

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Modern New Caledonia was discovered by James COOK in 1774 but the marine natural history of this part of the world started really on the second half of the 19th century when naturalist collected samples and corresponded with scientists in Europe. The first comprehensive work on the crabs of New Caledonia is the large study by renowned French carcinologist Alphonse Milne-Edwards between 1872 and 1873 on material collected essentially by the botanist Balansa, in which he recorded 182 species from the following (modern) families: Calappidae, Domeciidae, Eriphiidae, Gecarcinidae, Goneplacidae, Grapsidae, Hymenosomatidae, Leucosiidae, Majidae, Macrophthalmidae, Mictyridae, Ocypodidae, Palicidae, Parthenopidae, Pilumnidae, Pinnotheridae, Plagusiidae, Portunidae, Sesarmidae, Tetraliidae, Trapeziidae, Varunidae and Xanthidae.

Since this important « first » step by A. Milne-Edwards, many more species have since been described by numerous taxonomists. In 1977, the deep-sea slopes were sampled for the first time, revealing a suite of many new species. It was the beginning of the MUSORSTOM epoch and a new era in carcinology. Vast collections of crabs were deposited in the Muséum national d'Histoire naturelle in Paris and, thanks to Alain Crosnier, have been studied by many renowned carcinologists. A large part of the taxonomical studies on these crabs, often published as revisions, were published in the long-running series « Résultats des Campagnes MUSORSTOM », which became « Tropical Deep Sea Benthos » since volume 22.

Some noteworthy studies of crabs of New Caledonia are listed below by families: Calappidae (Galil, 1993, 1997; Crosnier, 1997); Cancridae (Davie, 1991); Cryptochiridae (Manning, 1991); Cyclodorippidae and Cymonomidae (Tavares, 1993, 1997); Dorippidae (Chen, 1993); Dromiidae (McLay, 1993); Dynomenidae (McLay, 1999); Goneplacidae (Guinot & Richer de Forges, 1981a ; Ng, 2002); Grapsidae (Monod, 1973; Serène, 1973); Homolidae (Griffin & Brown, 1976; Guinot & Richer de Forges, 1981; Guinot & Richer de Forges, 1995); Homolodromiidae (Guinot, 1993, 1995); Hymenosomatidae (Davie & Richer de Forges, 1996; Ng & Richer de Forges, 1996); Latreilliidae (Castro *et al.*, 2003); Leucosiidae (Chen, 1989; Tan & Richer de Forges, 1993; Tan & Ng, 1996; Galil, 2001, 2003a-c, 2005); Majidae (Griffin & Brown, 1976; Griffin & Tranter, 1986, Guinot & Richer de Forges, 1981b; 1982a, b; 1986, 1988; Richer de Forges & Guinot, 1989); Matutidae (Galil & Clark, 1994); Palicidae (Castro, 2000); Parthenopidae (Chiong & Ng, 1998 ; Tan & Ng, 2003); Pilumnidae (Guinot-Dumortier, 1959; Davie, 1993; Castro *et al.*, 1995; Chia & Ng, 1998, 2000; Ng & Chia, 1999); Plagusiidae (Crosnier, 2001); Portunidae (Moosa, 1996; Ng, 2000; Crosnier, 2002, 2003; Davie & Crosnier, 2006); Retroplumidae (McLay, 2006); Trapezidae (Galil & Clark, 1990; Castro, 1997) ; and Xanthidae (Guinot, 1971; Crosnier, 1987; Davie, 1997; Tan & Ng, 1994; Ng, 1993; Clark & Ng, 1999).

The present check list includes 552 species of crabs recorded from New Caledonia. The area considered includes the Loyalty Islands, Chesterfield and Bellona Plateau and Lord Howe seamounts, Matthew & Hunter Islands as well as the Norfolk Ridge seamounts. Of course, there are many more species living there, collected but still unstudied. In particular the large families of Majidae and Xanthidae have several common species unlisted. In any case, the known diversity of New Caledonia is very impressive. Japan and China has some 800 plus species each (Dai & Yang, 1991; Sakai, 1976). Comparing island systems, the 552 species now known from New Caledonia compares very favourably with Taiwan with 550 species (Ng *et al.*, 2001) and Guam and Micronesia with 401 species (Paulay *et al.*, 2003). French Polynesia alone has 380 species (<http://decapoda.free.fr>; Poupin, 1998). With regards to their biogeographical affinities, the crabs of New Caledonia are clearly from the Indo-Pacific province and have many species in common with NE coast of Australia and SE Asia.

Some interesting stories about the discovery of crabs in New Caledonia are following.

Mursia musortomia Galil, 1993

This family, often called box crabs (primarily due to the most speciose genus, *Calappa*), is characterised by dimorphic chelae – one has a special tooth for « cutting » open shells (gastropods), the other with long slender fingers to pull out the exposed gastropod. Interestingly, the cutting chela is almost always right-handed. The reason is simple – the right-handed cutter works best when the shell has the opening (the aperture) on the right as well. This situation is reminiscent of tools designed for use for right-handed people. For example, can-openers are best used by right handed people who can apply the best leverage. Left-handed people have a terrible time using normal can-openers. In the sea, hunters (crabs) and hunted (gastropods) are engaged in an arms race ! The shells have the opening on the right, the crabs have evolved the relevant weapon to deal with it ! Remarkably, this connection was only discovered in 1984 !

Paradynomene quasimodo McLay and Ng, 2004

The sea is full of cryptic species – i.e. forms which are difficult to separate. This is compounded by the difficulty in collecting many supposedly rare species, the resultant paucity of specimens making the taxonomist's job even more difficult. Often, when enough material becomes available because of new methods, many problems are solved, and « suddenly », many species get discovered ! The strange dynomenid genus *Paradynomene* is a case in point. Even until the mid-1990s, only one species was recognised – *P. tuberculata*. Good collections from the Philippines forced a rethink of its taxonomy – as a result, six species are now recognised – of which three occur in New Caledonia. One species, is named after the French character of literary legend – Quasimodo – because of the many humps on its back !

Parapilumnus cristimanus (A. Milne-Edwards, 1873)

Rarity is an illusion. Most animals are rare because we simply do not know where they live, or are unable to catch them ! Until less than a decade ago, *Pilumnus cristimanus*, a hairy crab named by the great French carcinologist Alphonse Milne-Edwards in 1873 was known only from two female specimens and long regarded as a pilumnid crab. When males were finally found in the South China Sea and males of a related species discovered in Guam – our views changed completely. The diagnostic male characters showed that the species needed to be transferred to another genus (*Parapilumnus*) and they belong to a separate family (Goneplacidae). And why are these crabs so « cryptic » ? Simple – they live deep in the rubble zone – where few scientists can or bother to sample intensely !

Dolos petraeus (Milne Edwards, 1874)

Crabs have a myriad of ways to hide from potential predators. In the mid-1990s, a Singapore researcher and French scientist found that the strange leucosiid, *Tlos petraeus* had a habit of hiding among dead pieces of the coralline algae *Halimeda*. This observation solved a long-standing question about this peculiar animal - why did it look an eroded piece of coral rubble of a particular size and shape ? The answer was simple – they were mimicking the dead pieces of *Halimeda* ! With this knowledge, more specimens were found, and subsequent studies showed that the species proved so strange that it needed its own genus – *Dolos*.

Discoplax longipes A. Milne-Edwards, 1867

Land crabs are always interesting – they are obvious, often quite large and sometimes edible. Until the 1990s, one of the least understood land crabs was a species everyone was calling *Cardisoma longipes*. Supposedly described from New Caledonia, scientists never did find the species there and there was uncertainty. The species was found in some other small Pacific karst islands, but never

common. Things moved fast in the late 1990s when the species was better understood – they like karst formations, living in the vegetation, and are nocturnal. The reason why they were never found on New Caledonia (where they were supposedly discovered from) was that the label was inaccurate. They were common in the nearby Loyalty Islands – which are karsts! A French expedition deep into the caves found them in good numbers! More were then found in Guam. To make the story even more interesting, in a joint study, French and Singapore researchers named a new allied species from karst caves in the Philippines, and showed that the genus *Discoplax* – erected by Milne-Edwards in 1867 – but sunk under *Cardisoma* by workers for decades – was in fact a good genus!

Odiomaris pilosus (A. Milne-Edwards, 1873)

Some one-sixth of the world's crab species are true freshwater crabs – i.e. they spend their ENTIRE life in this medium. New Caledonia, being so old and isolated, does not host any of the major freshwater crab groups. To fill the niche, one group of spider crabs have evolved to take advantage of this « empty » niche. Because there is almost no competition and nno major crustacean predators (like other freshwater crabs !), *Odiomaris pilosus* has grown large – it is the largest freshwater hymenomatid crab known – and in some drainages, is a dominant species. The species was long placed in the genus *Amarinus*, but recent studies by French, Singapore and Australian scientists showed the species deserved its own genus. Moreover, a second species (*O. estaurius*) with more marine tendencies was also discovered and named !

Neikolambrus polemistes Tan & Ng, 2003

Benthochascon hemingi Alcock & Anderson, 1899

Symethis corallica Davie, 1989

Lybia tutelina Tan and Ng, 1994

Sulcodius miliaris (A. Milne-Edwards, 1873)

REFERENCES

- CASTRO P. 1997. — Trapeziid crabs (Brachyura: Xanthoidea: Trapeziidae) of New Caledonia, eastern Australia, and the Coral Sea. Pp. 59-107, colour pls. 1-7. In: Richer de Forges, B. (Ed.), Les fonds meubles des lagons de Nouvelle-Calédonie (Sédimentologie, Benthos). Etudes and Thèses, 3.
- CASTRO P., 2000. — Crustacea Decapoda: A revision of the Indo-west Pacific species of palicid crabs (Brachyura Palicidae). In: A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 21. *Mémoires du Muséum national d'Histoire naturelle*, **184** : 437-610.
- CASTRO P., 2005. — Crabs of the subfamily Ethusinae Guinot, 1977 (Crustacea, Decapoda, Brachyura, Dorippoidea) of the Indo-West Pacific region. *Zoosystema*, **27**(3): 499-600.
- CASTRO P., CHIA, D. G. B. Chia & Ng, P. K. L., 1995. — On the taxonomic status of *Ceratocarcinus longimanus* White, 1847 (Crustacea: Decapoda: Brachyura: Eumedonidae), a crab symbiotic with comatulid crinoids. *Raffles Bulletin of Zoology*, **43**(1): 239-250.
- CASTRO P., WILLIAMS, A. B. & Cooper, L. L. 2003. — Revision of the family Latreilliidae Stimpson, 1858 (Crustacea, Decapoda, Brachyura). *Zoosystema*, **25**(4): 601-634.
- CHEN H., 1989. Leucosiidae (Crustacea, Brachyura). In: J. forest (ed.), Résultats des Campagnes MUSORSTOM, Volume 5. *Mémoires du Muséum national d'Histoire naturelle*, (A), **144**: 181-263.
- CHEN H. L., 1993. — Crustacea Decapoda : Dorippidae of New Caledonia, Indonesia and the Philippines. In : A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 10. *Mémoires du Muséum national d'Histoire naturelle*, **156**: 315-345.
- CHIA D. G. B. & Ng, P. K. L., 1998. — A revision of *Ceratocarcinus* White, 1847, and *Harrovia* Adams & White, 1849 (Crustacea: Decapoda: Brachyura: Eumedonidae), two genera of crabs symbiotic with crinoids. *Raffles Bulletin of Zoology*, **46**(2): 493-563.
- CHIA D. G. B. & Ng, P. K. L., 2000. — A revision of *Eumedonus* H. Milne Edwards, 1834 and *Gonatonotus* White, 1847 (Crustacea: Decapoda: Brachyura: Eumedonidae), two genera of crabs symbiotic with sea urchins. *Journal of Natural History*, **34**: 15-56.

- CHIONG W. L. & Ng, P. K. L., 1998. — A revision of the buckler crabs of the genus *Cryptopodia* H. Milne Edwards, 1834 (Crustacea: Decapoda: Brachyura: Parthenopidae). *Raffles Bulletin of Zoology*, **46**(1): 157-216.
- CLARK P. F. & Ng, P. K. L., 1999. — The identity of *Chlorodius miliaris* A. Milne Edwards, 1873, and the establishment of a new genus of Chlorodiinae (Crustacea, Decapoda, Brachyura, Xanthoidea, Xanthidae) from New Caledonia. *Zoosystema*, **21**(2): 353-365.
- CROSNIER A., 1987. — Description d'*Etisus laboutei*, espèce nouvelle de Nouvelle-Calédonie (Decapoda, Brachyura, Xanthidae). *Crustaceana* **53**(11) : 108-111.
- CROSNIER A., 1997. — Une nouvelle espèce de *Mursia* de Nouvelle-Calédonie (Crustacea, Decapoda, Brachyura, Calappidae). *Zoosystema*, **19**(1): 151-158.
- CROSNIER A., 2001. — Grapsidae (Crustacea, Decapoda, Brachyura) d'eau profonde du Pacifique sud-ouest. *Zoosystema*, **23**(4): 738-796.
- CROSNIER A., 2002. — Révision du genre *Parathranites* (Crustacea, Brachyura, Portunidae). *Zoosystema*, **24**(4): 799-825.
- CROSNIER A., 2003. — A new genus and species of portunid crab (Crustacea: Decapoda: Brachyura) from New Caledonia, south-west Pacific. *Raffles Bulletin of Zoology*, **51**: 315-321.
- DAI A.-Y., and S.-L. YANG. 1991. — *Crabs of the China Seas*. Pp. 21+608, figs. 1-295, pls. 1-74, China Ocean Press, Beijing and Springer-Verlag, Berlin.
- DAVIE P. J. F. 1993. — Rediscovery of *Camptoplax coppingeri* Miers, 1884, and its placement in the Pilumnidae (Crustacea: Brachyura). *Raffles Bulletin of Zoology*, **41**(1): 67-73.
- DAVIE P. J. F., 1997. — Crustacea Decapoda : Deep water Xanthoidea from the South-Western Pacific and the Western Indian Ocean. In: A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 18. *Mémoires du Muséum national d'Histoire naturelle*, **176**: 337-387.
- DAVIE P. J. F. & Ng P. K. L., 2000. — *Bountiana*, a new genus for *Eriphia norfolcensis* Grant & McCulloch, 1907 (Crustacea: Decapoda: Brachyura: Eriphiidae). *Memoirs of the Queensland Museum*, **45**(2): 267-272.
- DAVIE P. J. F. & CROSNIER A., 2006. — *Echinolatus* n. gen. (Crustacea, Decapoda, Portunidae) with description of two new species from the South-West Pacific. In: Richer de Forges, B. & Justine, J. L. (eds), Tropical Deep-Sea Benthos, volume 24. *Mémoires du Muséum national d'Histoire naturelle*, **193**: XX.
- DAVIE P. & RICHER de FORGES B., 1996. — Two new species of hymenosomatid crabs from New Caledonia. *Memoirs of the Queensland Museum*, **39** (2): 257-262.
- GALIL B. S., 1993. — Crustacea Decapoda: A revision of the genus *Mursia* Desmarest, 1823 (Calappidae). In: A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 10. *Mémoires du Muséum national d'Histoire naturelle*, **156**: 347-379.
- GALIL B. S., 1997. — Crustacea Decapoda: A revision of the Indo-Pacific species of the genus *Calappa* Weber, 1795 (Calappidae). In: A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 18. *Mémoires du Muséum national d'Histoire naturelle*, **176**: 271-335.
- GALIL B.S., 2001. — A revision of the genus *Arcania* Leach, 1817 (Crustacea: Decapoda: Leucosioidea). *Zoologische Mededelingen*, **75**(11): 169-206.
- GALIL B.S., 2003a. — Four new genera of leucosiid crabs (Crustacea: Brachyura: Leucosiidae) for three new species and nine species previously in the genus *Randallia* Stimpson, 1857, with a redescription of the type species, *R. ornata* (Randall, 1939). *Proceedings of the Biological Society of Washington*, **116**(2): 395-422.
- GALIL B.S., 2003b. — Contribution to the knowledge of Leucosiidae I. The identity of *Leucosia craniolaris* (Linnaeus, 1758), and redefinition of the genus *Leucosia* Weber, 1795 (Crustacea: Brachyura). *Zoologische Mededelingen*, **77**(8): 181-191.
- GALIL B.S., 2003c. — Contribution to the knowledge of Leucosiidae II. Contribution to the knowledge of Leucosiidae II. *Euclosia* gen. nov. (Crustacea: Brachyura). *Zoologische Mededelingen*, **77**(20): 331-347.
- GALIL B.S., 2005. — Contribution to the knowledge of Leucosiidae III. *Urnalana* gen. nov. (Crustacea: Brachyura). *Zoologische Mededelingen*, **79**(2): 9-40.
- GALIL B., & CLARK P. F., 1994. — A revision of the genus *Matuta* Weber, 1795 (Crustacea: Brachyura: Calappidae). *Zoologische Verhandelingen*, **294**: 1-55.
- GRIFFIN D.J.G. & BROWN D., 1976. — Deepwater Decapod Crustacea from Eastern Australia : Brachyuran crabs. *Records of the Australian Museum*, **30**(11): 248-273.
- GRIFFIN D.J.G. & TRANTER H. A., 1986. — *The Decapoda Brachyura of the Siboga Expedition*. Part VIII. Siboga-Expeditie. Monographie XXXIX, C4. Brill, E. J., Leiden ; 335 p.
- GUINOT D., 1971. — Un nouvel Euxanthus de Nouvelle-Calédonie *E. ruali* sp.nov. *Cahiers du Pacifique* **15**: 19-22.
- GUINOT D., 1995. — Crustacea Decapoda Brachyura: Révision des Homolodromiidae Alcock, 1900. In : A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, volume 13. *Mémoires du Muséum national d'Histoire naturelle*, **163**: 155-282.
- GUINOT-DUMORTIER D., 1959. — Les espèces Indo-Pacifiques du genre *Globopilumnus* (Crustacea Brachyura Xanthidae). *Mémoires de l'Institut Scientifique de Madagascar*, série F, tome **3**: 97-119.

- GUINOT D. & B. RICHER de FORGES, 1980. — Crabes de profondeur, nouveaux ou rares, de l'Indo-Pacifique (Crustacea, Decapoda, Brachyura). *Bulletin du Muséum national d'Histoire naturelle, Paris* (4) 2, 1980 sect. A (4): 1113-1153. (Deuxième partie). *Ibid.*, 3 sect. 1 (1): 227-260.
- GUINOT D. & B. RICHER de FORGES, 1981. — Homolidae, rares ou nouveaux, de l'Indo-Pacifique (Crustacea, Decapoda, Brachyura). *Bulletin du Muséum national d'Histoire naturelle, Paris* 3 (4), sect. A (2), 1981: 523-581.
- GUINOT D. & B. RICHER de FORGES, 1982. — Nouvelles récoltes des genres *Cyrtomaia* Miers et *Pleistacantha* Miers (Crustacea, Decapoda, Brachyura). *Bulletin du Muséum national d'Histoire naturelle, Paris* 3 (4), sect. A (4), 1981 (1982): 1087-1124.
- GUINOT D. & B. RICHER de FORGES, 1982. — Révision du genre indo-pacifique *Cyrtomaia* Miers, 1886 : Campagnes océanographiques du "Challenger", de l' "Albatross", du "Siboga" et du "Vauban" (Crustacea, Decapoda, Brachyura). *Annales de l'Institut Océanographique, Paris*, 58 (1), 1982: 5-87.
- GUINOT D. & B. RICHER de FORGES, 1986. — Crustacés Décapodes: Majidae (genres *Platymaia*, *Cyrtomaia*, *Pleistacantha*, *Sphenocarcinus* et *Naxioides*). In: Résultats des Campagnes MUSORSTOM 1 et 2. Tome 2, *Mémoires du Muséum national d'Histoire naturelle, Paris*, sér. A, 1985 (1986) zool., 133: 83-178.
- GUINOT D. & B. RICHER de FORGES, 1986. — Découverte d'une nouvelle espèce de *Sphenocarcinus* en Nouvelle-Calédonie, *S. mammatus* sp. nov. (Crustacea, Decapoda, Brachyura). *Indo-Malayan Zoology*, 3, 1986: 27-37.
- GUINOT D. & B. RICHER de FORGES, 1988. — Description de trois espèces de *Cyrtomaia* Miers, 1886, de Nouvelle-Calédonie et des îles Chesterfield (Crustacea, Decapoda, Brachyura). *Bulletin du Muséum national d'Histoire naturelle, Paris*, 1988, 10 (4), sect. A (1): 39-55.
- GUINOT D. & RICHER de FORGES, B., 1986. — Crustacés Décapodes: Majidae (genres *Platymaia*, *Cyrtomaia*, *Pleistacantha*, *Sphenocarcinus* et *Naxioides*). In: Résultats des campagnes MUSORSTOM, I & II- Philippines (1976, 1981). *Mémoires du Muséum national d'Histoire naturelle*, ser. A, T. 133: 83-177.
- GUINOT D. & RICHER de FORGES, B., 1995. — Crustacea Decapoda Brachyura : Révision de la famille des Homolidae de Haan, 1839. In : A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, volume 13. *Mémoires du Muséum national d'Histoire naturelle*, 163: 283-517.
- McLAY C. L., 1993. — Crustacea Decapoda: The Sponge crabs (Dromiidae) of New Caledonia and the Philippines with a review of the genera. In : A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 10. *Mémoires du Muséum national d'Histoire naturelle*, 156: 111-251.
- McLAY C. L., 1999. — Crustacea Decapoda: Revision of the Family Dynomenidae. In : A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 20. *Mémoires du Muséum national d'Histoire naturelle*, 180: 427-569.
- McLAY C. L., 2006. — Retroplumidae (Crustacea, Decapoda) from the Indo-Malayan archipelago (Indonesia, Philippine) and the Melanesian arc Islands (Solomon Islands, Fiji and New Caledonia), and paleogeographical comments. In: Richer de Forges, B. & Justine, J. L. (eds), Tropical Deep-Sea Benthos, volume 24. *Mémoires du Muséum national d'Histoire naturelle*, 193: XX.
- McLAY C. L. & Ng, P. K. L., 2004. — A taxonomic revision of the genus *Paradynomene* Sakai, 1963 (Crustacea: Decapoda: Brachyura: Dynomenidae). *Zootaxa*, 657: 1-24.
- MILNE-EDWARDS A., 1872. — Recherches sur la faune carcinologique de la Nouvelle-Calédonie. *Nouvelles Archives du Muséum national d'Histoire naturelle, Paris*, tome 8: 229-267.
- MILNE-EDWARDS A., 1873. — Recherches sur la faune carcinologique de la Nouvelle-Calédonie (Deuxième partie). *Nouvelles Archives du Muséum national d'Histoire naturelle, Paris*, tome 9: 156-332.
- MILNE-EDWARDS A., 1873. — Recherches sur la faune carcinologique de la Nouvelle-Calédonie (Troisième partie). *Nouvelles Archives du Muséum national d'Histoire naturelle, Paris*, tome 10 : 39-58, pls. 2, 3.
- MONOD T., 1973. — Sur quelques crustacés néo-calédonien de profondeur. *Cahier du Pacifique* 17 : 7-23.
- MOOSA M. K., 1996. — Crustacea Decapoda : Deep-water swimming crabs from the South-West Pacific, particularly New Caledonia (Brachyura, Portunidae). In : A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 15. *Mémoires du Muséum national d'Histoire naturelle*, 168: 503-530.
- NG P. K. L., 1993. — On a new genus and species of xanthid crab (Crustacea: Decapoda: Brachyura) from Chesterfield Island, Coral Sea. *Proceedings of the Biological Society of Washington*, 106(4): 705-713.
- NG P. K. L., 2000. — The deep-water swimming crabs of the genus *Benthochascon* Alcock and Anderson, 1899 (Crustacea: Decapoda: Brachyura: Portunidae), with description of a new genus for the American *B. schmitti* Rathbun, 1931. *Journal of Crustacean Biology*, 20(2): 310-324.
- NG, P. K. L., 2002. — The Indo-Pacific Pilumnidae XVI. On the identity of *Pilumnus cristimanus* A. Milne Edwards, 1873, and the status of *Parapilumnus* Kossmann, 1877 (Crustacea: Decapoda: Brachyura), with description of a new species from rubble beds in Guam. *Micronesica*, 34(2): 209-226.
- NG, P. K. L. & CHIA D. G. B., 1994. — The genus *Glyptocarcinus* Takeda, 1973, with descriptions of a new subfamily, two new genera and two new species from New Caledonia (Crustacea: Decapoda: Brachyura: Xanthidae). *Raffles Bulletin of Zoology*, 42(3): 701-730.

- NG, P. K. L. & CHIA D. G. B., 1999. — Revision of the genus *Zebrida* White, 1847 (Crustacea: Decapoda: Brachyura: Eumedonidae). *Bulletin of Marine Science*, **65**(2): 481-495.
- NG, P. K. L. & GUINOT D., 2001. — On the land crabs of the genus *Discoplax* A. Milne Edwards, 1867 (Crustacea: Decapoda: Brachyura: Gecarcinidae), with description of a new cavernicolous species from the Philippines. *Raffles Bulletin of Zoology*, **49**(2): 311-338.
- NG, P. K. L. & RICHER de FORGES, B., 1996. — The Hymenosomatidae (Crustacea: Decapoda: Brachyura) of New Caledonia. *Memoirs of the Queensland Museum*, **39**(2): 263-276.
- NG, P. K. L., WANG C.H., HO P.H. & SHIH H.T., 2001. — An annotated checklist of brachyuran crabs from Taiwan (Crustacea: Decapoda). — National Taiwan Museum Special Publication Series, Taipei, Taiwan, **11**: 186, 8 colour plates.
- POUPIN, J., 1998. — Crustacea Decapoda and Stomatopoda of French Polynesia (Dendrobranchiata, Stenopodidea, Caridea, Thalassinidea, and Stomatopoda, with additions to Astacidea, Palinuridea, Anomura, & Brachyura). *Atoll Research Bulletin*, September 1998, 451: 1-62, fig. 1-9.
- PAULAY G., KROPP R., NG, P. K. L. & ELDREDGE L. G., 2003. — The crustaceans and pycnogonids of the Mariana Islands. *Micronesica*, **35-36**: 456-513.
- PRETZMANN, G., 1968. Études Hydrobiologiques en Nouvelle-Calédonie (Mission 1965 du Premier institut de Zoologie de l'Université de Vienne) (suite). *Cahiers O.R.S.T.O.M., série Hydrobiologie*, **11**(2): 3-9.
- RICHER de FORGES B., 1995. — Nouvelles récoltes et nouvelles espèces de Majidae de profondeur du genre *Oxypleurodon* Miers, 1886. *Crustaceana*, **68**(1): 43-60.
- RICHER de FORGES B., 1996. — The genus *Platypilumnus* Alcock and description of *P. jamiesoni* n. sp. from New Caledonia (Crustacea, Decapoda, Brachyura). *Records of the Australian Museum*, **48**: 1-6.
- SAKAI T. 1976. — *Crabs of Japan and the Adjacent Seas*. In three volumes; English Text, pp. xxix+773 pp., Japanese text, pp. 1-461, pls. vol., pp. 1-16, pls. 1-251. Kodansha Ltd., Tokyo.
- SERÈNE R., 1973. — Notes sur quelques espèces de Brachyours de Nouvelle-Calédonie. *Cahiers du Pacifique*, **17**: 119-161.
- TAKEDA M. & NUNOMURA N., 1976. — Crabs collected by the Melanesia Expedition of the Osaka Museum of Natural History, 1958. *Bulletin of the Osaka Museum of Natural History*, **30**: 61-92.
- TAN C. G. S. & NG, P. K. L., 1994. — A new species of anemone-carrying crab from New Caledonia (Decapoda: Brachyura: Xanthidae: Polydectinae). *Proceedings of the Biological Society of Washington*, **107**(4): 738-742.
- TAN C. G. S. & NG, P. K. L., 1996. — A revision of the Indo-Pacific genus *Oreophorus* Rüppell, 1830 (Crustacea: Decapoda: Brachyura: Leucosiidae). In: B. Richer de Forges (ed.), Les fonds meubles des lagons de Nouvelle Calédonie (Sédimentologie, benthos). Etudes & Thèses, volume 2, ORSTOM: Paris: 101-189.
- TAN C. G. S. & NG, P. K. L., 1999. A revision of the genus *Camptandrium* Stimpson, 1858 (Crustacea: Decapoda: Brachyura: Camptandriidae). *Raffles Bulletin of Zoology*, **47**(1): 193-219.
- TAN S. H. & NG, P. K. L., 2003. — The Parthenopinae (Crustacea: Brachyura: Parthenopidae) of Guam. *Micronesica*, **35-36**: 385-416.
- TAN C. G. S. & RICHER de FORGES, B. 1993. — On the systematics and ecology of two mimetic crabs belonging to the family Leucosiidae (Crustacea, Decapoda, Brachyura). *Raffles Bulletin of Zoology*, **41** (1): 119-132.
- TAVARES M., 1993. — Crustacea Decapoda: Les Cyclodorippidae et Cynomomidae de l'Indo-ouest-Pacifique à l'exclusion de genre *Cymonimus*. In: A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 10. *Mémoires du Muséum national d'Histoire naturelle*, **156**: 253-313.
- TAVARES M., 1997. — Crustacea Decapoda: Cyclodorippidae récoltés dans l'archipel de Vanuatu (Brachyura). In: A. Crosnier (ed.), Résultats des campagnes MUSORSTOM, Volume 18. *Mémoires du Muséum national d'Histoire naturelle*, **176**: 261-271.

Checklist of brachyura from New Caledonia

BRACHYURA Latreille, 1803

AETHRIDAE Dana, 1851

Aethra scruposa (Linne, 1764)

CALAPPIDAE Weber, 1795

Calappa calappa (Linné, 1758)

Calappa capellonis (Laurie, 1906)

Calappa clypeata (Borradaile, 1903)

Calappa depressa Miers, 1886

Calappa gallus (Herbst, 1803)

Calappa hepatica (Linné, 1758)

Calappa lophos (Herbst, 1782)

Calappa philargius (Linné, 1758)

- Mursia armata* de Haan, 1837
Mursia australensis Campbell, 1971
Mursia longispina Crosnier, 1997
Mursia microspina Davie & Short, 1989
Mursia musortomia Galil, 1993
Mursia trispinosa Parisi, 1914
- CAMPTANDRIIDAE Stimpson, 1858**
- Nanusia starmuehlneri* (Pretzmann, 1968)
- CANCRIDAE Latreille, 1803**
- Platepistoma nanum* Davie, 1991
- CARPILIIDAE Ortmann, 1893**
- Carpilius convexus* (Forskål, 1775)
Carpilius maculatus (Linné, 1758)
- CORYSTIDAE Samouelle, 1819**
- Gomezia bicornis* Gray, 1831 = *Corystes (Oeidea) vigintispinosa* De Haan, 1835
- CRYPTOCHIRIDAE Paulson, 1875**
- Cecidocarcinus zibrowii* Manning, 1991
Cryptochirus coralliodytes (Heller, 1861)
Hapalocarcinus marsupialis Stimpson, 1859
Lithoscaptus nami (Fize & Serène, 1957)
Lithoscaptus paradoxus A. Milne-Edwards,
Lithoscaptus prionotus Kropp, 1994
Pseudocryptochirus viridis Hiro, 1938
Xynomaia boissoni (Fize & Serène, 1955)
- CYCLODORIPPIDAE Ortmann, 1892**
- Genkaia kenjii* Tavares, 1993
Ketamia depressa (Ihle, 1916)
Krangalangia orstom Tavares, 1993
Krangalangia spinosa (Zarenkov, 1970)
Phyllotymolinum crosnieri Tavares, 1993
Tymolus daviei Tavares, 1997
Xeinostoma richeri Tavares, 1993
- CYMONOMIDAE Bouvier, 1897**
- Elassopodus stellatus* Tavares, 1993
- DAIRIDAE Ng & Rodriguez, 1986**
- Daira perlata* (Herbst, 1790)
- DORIPPIDAE MacLeay, 1838**
- Ethusa abbreviata* Castro, 2005
Ethusa crosnieri Chen, 1993
Ethusa curvipes Chen, 1993
Ethusa furca Chen, 1993
Ethusa granulosa Ihle, 1916
Ethusa indica Alcock, 1894
Ethusa izuensis Sakai, 1937
Ethusa magnipalmata Chen, 1993
Ethusa minuta Sakai, 1937
Ethusa obliquidens Chen, 1993
Ethusa orientalis Miers, 1884 = *Ethusa major* Chen, 1993
Ethusa parapygmaea Chen, 1993
Ethusa pygmaea Alcock, 1894
Ethusa quadrata Sakai, 1937
Ethusina brevidentata Chen, 1993
Ethusina ciliacirrata Castro, 2005
Ethusina coronata Castro, 2005
Ethusina dilobotus Chen, 1993

Ethusina microspina Chen, 2000
Ethusina paralongipes Chen, 1993
Ethusina pubescens Chen, 1993
Ethusina robusta Miers, 1886
Ethusina stenommata Castro, 2005
Ethusina vanuatuensis Chen, 2000

DOMECIIDAE Ortman, 1893

Domecia hispida Eydoux & Souleyet, 1842
Jonesius triunguiculatus (Borradaile, 1902)

DROMIIDAE de Haan, 1833

Cryptodromia amboinensis de Man, 1888
Cryptodromia coronata Stimpson, 1858
Cryptodromia fallax (Lamarck, 1818)
Cryptodromia fukuii (Sakai, 1936)
Cryptodromia hilgendorfi de Man, 1888
Cryptodromia longipes McLay, 1993
Cryptodromia tuberculata Stimpson, 1858
Cryptodromiopsis bullifera (Alcock, 1900)
Cryptodromiopsis plumosa (Lewinsohn, 1984)
Cryptodromiopsis unidentata (Rüppell, 1830)
Dromia dormia (Linné, 1763)
Dromia foresti MacLay, 1991
Dromia wilsoni (Fulton & Grant, 1902)
Dromidiopsis dubia Lewinsohn, 1984
Dromidiopsis lethrinusae (Takeda & Kurata, 1976)
Dromidiopsis tridentata Borradaile, 1903
Eodromia denticulata MacLay, 1991
Epigodromia areolata (Ihle, 1913)
Epigodromia ebaloides (Alcock, 1899)
Epigodromia nodosa (Sakai, 1936)
Epigodromia rotunda MacLay, 1991
Epigodromia rugosa McLay, 1993
Frodromia atypica (Sakai, 1936)
Hemisphaerodromia abellana Barnard, 1954
Homalodromia coppingeri Miers, 1884
Lamarckdromia globosa (Lamarck, 1818)
Lauridromia intermedia (Laurie, 1906)
Lewindromia unidentata (Rüppell, 1830)
McLaydromia colini Guinot & Tavares, 2003
Petalomera pulchra Miers, 1884
Petalomera wilsoni Fulton & Grant, 1902
Sphaerodromia kendalli Alcock & Anderson, 1894
Sphaerodromia lamellata Crosnier, 1994
Takedromia cristatipes (Sakai, 1969)
Takedromia longispina MacLay, 1991

DYNOMENIDAE Ortman, 1892

Dynomene hispida Guérin-Méneville, 1832
Dynomene pilumnoides Alcock, 1899
Dynomene praedator A. Milne-Edwards, 1879
Metadynomene tanensis (Yokoya, 1933)
Paradynomene demon McLay and Ng, 2004
Paradynomene diablo McLay and Ng, 2004
Paradynomene quasimodo McLay and Ng, 2004

ERIPHIIDAE MacLeay, 1838

Bountiana norfolcensis (Grant & McCulloch, 1907)

Epixanthus corrosus A. Milne-Edwards, 1873
Epixanthus frontalis (H. Milne Edwards, 1834)
Eriphia sebana (Shaw & Nodder, 1803) = *Eriphia levimana* Latreille, 1817
Eriphia scabricula Dana, 1852
Globopilumnus actumnoides (A. Milne-Edwards, 1873)
Globopilumnus laciniatus (Sakai, 1980)
Hypothalassia armata (De Haan, 1833)
Ozius guttatus H. Milne Edwards, 1834
Ozius rugulosus Stimpson, 1858
Ozius tuberculatus H. Milne Edwards, 1834

GECARCINIDAE McLeay, 1838

Cardisoma carnifex (Herbst, 1796)
Discoplax hirtipes (Dana, 1852)
Discoplax longipes A. Milne-Edwards, 1867
Discoplax rotunda (Quoy & Gaimard, 1824)

GERYONIDAE Colosi, 1923

Chaceon bicolor Manning & Holthuis, 1989

GONEPLACIDAE Dana, 1851

Carcinoplax cooki Rathun, 1906
Carcinoplax crosnieri Guinot & Richer de Forges, 1981
Carcinoplax microphthalmus Guinot & Richer de Forges, 1981
Carcinoplax polita Guinot, 1989
Carcinoplax setosus A. Milne-Edwards, 1869
Goneplax marivenae Komatsu & Takeda, 2004
Hexapus sexpes (Fabricius, 1798)
Intesius pilosus Guinot & Richer de Forges, 1981
Intesius richeri Crosnier & Ng, 2004
Mathildella maxima Guinot & Richer de Forges, 1981
Notonyx nitidus A. Milne-Edwards, 1873
Parapilumnus cristimanus (A. Milne-Edwards, 1873)
Platypilumnus jamiesoni Richer de Forges, 1996
Progeryon vaubani Guinot & Richer de Forges, 1981
Psopheticus vocans Guinot, 1985

GRAPSIDAE MacLeay, 1838

Geograpsus grayi (H. Milne Edwards, 1853)
Grapsus albolineatus Lamarck, 1818
Grapsus tenuicrustatus (Herbst, 1783)
Metagrapsus integer A. Milne-Edwards, 1873
Metagrapsus punctatus A. Milne-Edwards, 1873
Metasesarma aubryi A. Milne-Edwards, 1869
Metopograpsus pictus (A. Milne-Edwards, 1863)
Metopograpsus thukuhar (Owen, 1839)
Pachygrapsus minutus A. Milne-Edwards, 1873
Pachygrapsus planifrons De Man, 1888
Pachygrapsus plicatus (H. Milne Edwards, 1837)

HEXAPODIDAE Miers, 1886

Hexaplax megalops Doflein, 1904

HOMOLIDAE de Haan, 1839

Dagnaudus petterdi (Grant, 1905)
Homola coriolisi Guinot & Richer de Forges, 1995
Homola mieensis Sakai, 1979
Homola orientalis Henderson, 1888
Homola ranunculus Guinot & Richer de Forges, 1995
Homolochunia kullar Griffin & Brown, 1976
Homologenus levii Guinot & Richer de Forges, 1995

Homolomannia sibogae Ihle, 1912
Ihlopsiis tirardi Guinot & Richer de Forges, 1995
Lamoha inflata (Guinot & Richer de Forges, 1981)
Latreillopsiis antennata Guinot & Richer de Forges, 1995
Latreillopsiis gracilipes Guinot & Richer de Forges, 1981
Paromola bathyalis Guinot & Richer de Forges, 1995
Paromolopsiis boasi Wood-Mason, 1891

HOMOLODROMIIDAE Alcock, 1899

Dicranodromia foersteri Guinot, 1993
Dicranodromia spinulata Guinot, 1995
Homolodromia kai Guinot, 1993

HYMENOSOMATIDAE MacLeay, 1838

Elamena minuta A. M. Edwards, 1873
Elamena truncata (Stimpson, 1858)
Elamena vesca Ng & Richer de Forges, 1996
Elamenopsis lineata A. Milne-Edwards, 1873
Halicarcinus keijibabai (Takeda & Miyake, 1971)
Micas minutus (A. Milne-Edwards, 1873)
Micas falcipes Ng & Richer de Forges, 1996
Neorhynchoplax euryrostris Davie & Richer de Forges, 1996
Odiomaris estuarius Davie & Richer de Forges, 1996
Odiomaris pilosus (A. Milne-Edwards, 1873)

LATREILLIIDAE Stimpson, 1858

Latreillia metanesa William, 1982

LEUCOSIIDAE Samouelle, 1819

Alox ornatum (Ihle, 1918)
Alox patella (Alcock, 1896)
Alox rugosum (Stimpson, 1858)
Arcania elongata Yokoya, 1933
Arcania gracilis (Henderson, 1893)
Arcania tuberculata Bell, 1855
Ebaliopsis erosa (A. Milne-Edwards, 1873)
Dolos petraeus (A. Milne Edwards, 1874)
Euclosia concinna Galil, 2003
Leucosia anatum (Herbst, 1783) = *Leucosia neocaledonica* A. Milne-Edwards, 1873
Leucosia rubripalma Galil, 2003
Myra eudactyla Bell, 1855
Myra fugax (Fabricius, 1798)
Myra kesselerii (Paulson, 1875)
Nucia speciosa Dana, 1852
Oreophorus crosnieri Tan & Ng, 1995
Oreotlos bertrandi Tan & Ng, 1995
Oreotlos etor Tan & Richer de Forges, 1993
Oreotlos pax Tan & Ng, 1995
Philyra taekoa Takeda, 1972
Randallia serènei Richer de Forges, 1983
Raylilia coniculifera Galil, 2001
Raylilia mirabilis Galil, 2001
Raylilia uenoi (Takeda, 1995)
Tanaoa nanus Galil, 2003
Tanaoa pustulosus (Wood-Mason, in Wood-Mason & Alcock, 1891)
Toru granuloides (Sakai, 1961)
Toru pilus (Tan, 1996)
Toru septimus, Galil, 2003
Urnalana elata (A. Milne-Edwards, 1873)

Urnalana elatoides Galil, 2005
Urnalana granulimera Galil, 2005
Urnalana insularis (Takeda & Miyake, 1976)
Urnalana margaritata (A. Milne-Edwards, 1873)

MAJIDAE Samouelle, 1819

Camposcia retusa Latreille, 1829
Criocarcinus superciliosus (Linné, 1767)
Cyclax suborbicularis (Stimpson, 1858)
Cyrtomaia coriolisi Richer de Forges & Guinot, 1988
Cyrtomaia cornuta Richer de Forges & Guinot, 1988
Cyrtomaia ericina Guinot & Richer de Forges, 1982
Cyrtomaia furici Richer de Forges & Guinot, 1988
Cyrtomaia griffini Richer de Forges & Guinot, 1989
Cyrtomaia horrida Rathbun, 1916
Cyrtomaia ihlei Guinot & Richer de Forges, 1982
Cyrtomaia murrayi Miers, 1886
Cyrtomaia platypes Yokoya, 1933
Grypacheus hyalinus (Alcock & Anderson, 1894)
Hoplophrys oatesii Henderson, 1893
Hyastenus sebae White, 1847
Kimbla neocaledonica Griffin & Tranter, 1986
Lahaina agassizii (Rathbun, 1902)
Menaethius monoceros (Latreille, 1825)
Micippa philyra (Herbst, 1803)
Micippa platipes Rüppell, 1830
Micippa thalia (Herbst, 1803)
Oncinopus neptunus Adams & White, 1848
Oxypleurodon mammatus Guinot & Richer de Forges, 1986
Oxypleurodon orbiculatus (Guinot & Richer de Forges, 1986)
Oxypleurodon stuckiae (Guinot & Richer de Forges, 1986)
Perinia tumida Dana, 1851
Picroceros armatus A. Milne-Edwards, 1865
Platymaia fimbriata Rathbun, 1916
Platymaia rebierei Guinot & Richer de Forges, 1985
Platymaia wyvillethomsoni Miers, 1886
Pleistacantha cervicornis Ihle & Ihle-Landenberg, 1931
Pleistacantha exophthalmus Guinot & Richer de Forges, 1982
Pleistacantha japonica (Yokoya, 1933)
Schizophroidea hilensis (Rathbun, 1906)
Schizophrys aspera (H. Milne Edwards, 1834)
Tiarinia gracilis Dana, 1852
Tylocarcinus styx (Herbst, 1803)
Xenocarcinus depressus Miers, 1874
Xenocarcinus tuberculatus White, 1847

MACROPHTHALMIDAE Dana, 1851

Macrophthalmus bosci Audouin & Savigny, 1825
Macrophthalmus convexus Stimpson, 1858
Macrophthalmus latreillei (Desmarest, 1822)
Macrophthalmus milloti Crosnier, 1965
Macrophthalmus quadratus A. Milne-Edwards, 1873
Macrophthalmus tomentosus Eydoux & Souleyet, 1842

MATUTIDAE De Haan, 1835

Ashtoret lunaris (Forskål, 1775)
Izanami inermis (Miers, 1884)

MICTYRIDAE Dana, 1852

Mictyris longicarpus Latreille, 1806

OCYPODIDAE Ortmann, 1894

Ocypode ceratophthalmus (Pallas, 1772)

Ocypode cordimanus Latreille, 1818

Uca arcuata (de Haan, 1835)

Uca crassipes (Adams & White, 1848)

Uca coarctata coarctata (H. Milne Edwards, 1852)

Uca dussumieri dussumieri (H. Milne Edwards, 1852)

Uca lactea lactea (de Haan, 1835)

Uca perplexa (H. Milne Edwards, 1852)

Uca tetragonon (Herbst, 1790)

Uca triangularis triangularis (A. Milne-Edwards, 1873)

Uca vomeris McNeill, 1920

PALICIDAE Bouvier, 1898

Crossotonotus compressipes A. Milne-Edwards, 1873

Crossotonotus lophocheir Castro, 2000

Crossotonotus spinipes (de Man, 1888)

Miropalicus vietnamensis (Zarenkov, 1968)

Neopalicus contractus (Rathbun, 1902)

Neopalicus jukesii (White, 1847)

Palicoides longimanus (Miyake, 1936)

Palicoides whitei (Miers, 1884)

Paliculus foliatus Castro, 2000

Paliculus kyusyuensis (Yokoya, 1933)

Parapalicus ambonensis Moosa & Serène, 1981

Parapalicus armatus Castro, 2000

Parapalicus clinodentatus Castro, 2000

Parapalicus denticulatus Castro, 2000

Parapalicus inanis Castro, 2000

Parapalicus piruensis Moosa & Serène, 1981

Parapalicus trispiralis Castro, 2000

Pseudopalicus acanthodactylus Castro, 2000

Pseudopalicus amadaibai (Sakai, 1963)

Pseudopalicus declivis Castro, 2000

Pseudopalicus glaber Castro, 2000

Pseudopalicus investigatoris (Alcock, 1900)

Pseudopalicus oahuensis (Rathbun, 1906)

Pseudopalicus serripes (Alcock & Anderson, 1895)

Rectopalicus amphiceros Castro, 2000

Rectopalicus ampullatus Castro, 2000

Rectopalicus woodmasoni (Alcock, 1900)

PARTHENOPIIDAE Miers, 1879

Aulacolambrus diacanthus (de Haan, 1837)

Aulacolambrus hoplonotus (Adams & White, 1849)

Certolambrus pugilator (A. Milne-Edwards, 1873)

Cryptopodia pan Laurie, 1906

Daldorfia horrida (Linné, 1758)

Furtipodia petrosa (Klunziger, 1906)

Garthambrus poupini (Garth, 1992)

Neikolambrus polemistes Tan & Ng, 2003

Rhinolambrus pelagicus (Rüppell, 1830)

PILUMNIDAE Samouelle, 1819

Actumnus setifer (De Haan, 1835)

Camptoplax coppingeri Miers, 1884

Ceratocarcinus dilatatus A. Milne-Edwards, 1872

Ceratocarcinus longimanus White, 1847
Eumedonus brevirhynchus Chia & Ng, 1997
Glabropilumnus dispar (Dana, 1852)
Globopilumnus actumnoides A M Edwards, 1873
Gonatonotus nasutus Chia & Ng, 2000
Harrovia longipes Lanchester, 1900
Pilumnopeus granulatus Balss, 1933
Pilumnus caeruleus A. Milne-Edwards, 1873
Pilumnus cursor A. Milne-Edwards, 1873
Pilumnus heterodon Sakai, 1934
Pilumnus levimanus Dana, 1852
Pilumnus longipes A. Milne-Edwards, 1873
Pilumnus minutus de Haan, 1835
Pilumnus purpureus A. Milne-Edwards, 1873
Pilumnus vermiculatus A. Milne-Edwards, 1873
Pilumnus vespertilio Fabricius, 1793
Takedana eriphioides Davie, 1989
Tiaramedon spinosum (Miers, 1879)
Zebrida adamsii White, 1847

PINNOTHERIDAE De Haan, 1833

Pinnotheres globosus (Lucas, 1852)
Tetrias fischeri (A. Milne-Edwards, 1867)
Xanthasia murigera White, 1846

PLAGUSIIDAE Dana, 1851

Euchirograpsus timorensis Türkay, 1975
Miersiograpsus australiensis Türkay, 1978
Percnon affine (H. Milne Edwards, 1853) = *Acanthopus pilimanus* (A. Milne-Edwards, 1873)
Percnon planissimum (Herbst, 1804)
Plagusia squamosa (Herbst, 1799)

PORTUNIDAE Rafinesque, 1815

Benthochascon hemingi Alcock & Anderson, 1899
Brusinia elongata (Sakai, 1969)
Brusinia profunda Moosa, 1996
Caphyra laevis (A. Milne-Edwards, 1869)
Caphyra rotundifrons (A. Milne-Edwards, 1869)
Carupa tenuipes Dana, 1851
Charybdis amboinensis Leene, 1938
Charybdis anisodon (de Haan, 1850)
Charybdis beauforti Leene & Buitendijk, 1949
Charybdis caledonicus opici Moosa, 1997
Charybdis hellerii (A. Milne-Edwards, 1867)
Charybdis orientalis Dana, 1852
Charybdis rufodactylus Stephenson & Rees, 1968
Charybdis truncata (Fabricius, 1798)
Echinolatus caledonicus (Moosa, 1996)
Goniosoma sexdentatum (Herbst, 1803)
Libystes lepidus Miyake & Takeda, 1970
Libystes nitidus A. Milne-Edwards, 1867
Lissocarcinus laevis Miers, 1880
Lissocarcinus orbicularis Dana, 1852
Lissocarcinus polybioides Adams & White, 1849
Lupocyclus philippinensis Semper, 1880
Lupocyclus quinquentatus Rathbun, 1906
Lupocyclus sexspinosus Leene, 1940
Lupocyclus tugelae Barnard, 1950

Nectocarcinus pubescens Moosa, 1996
Ovalipes iridescens (Miers, 1886)
Parathranites intermedius Crosnier, 2002
Parathranites orientalis Miers, 1886
Podophthalmus nacreus Alcock, 1899
Podophthalmus vigil (Weber, 1795)
Portunus argentatus (A. Milne-Edwards, 1861)
Portunus dubius Laurie, 1906
Portunus granulatus (H. Milne Edwards, 1834)
Portunus haanii (Stimpson, 1858)
Portunus hastatoides Fabricius, 1798
Portunus innominatus Rathbun, 1909
Portunus iranjae Crosnier, 1962
Portunus lecromi Moosa, 1996
Portunus longispinosus (Dana, 1852)
Portunus macrophthalmus Rathbun, 1906
Portunus mariei Guinot, 1957
Portunus nipponensis (Sakai, 1938)
Portunus orbitosinus Rathbun, 1911
Portunus pelagicus (Linné, 1758)
Portunus pubescens (Dana, 1852)
Portunus rubromarginatus (Lanchester, 1900)
Portunus rugosus (A. Milne-Edwards, 1867)
Portunus sanguinolentus (Herbst, 1796)
Portunus spiniferus Stephenson & Rees, 1967
Portunus stephensoni Moosa, 1981
Portunus tenuicaudatus Stephenson, 1961
Portunus tuberculatus (A. Milne-Edwards, 1867)
Richerellus moosai Crosnier, 2003
Scylla serrata (Forskäl, 1755)
Thalamita admete (Herbst, 1803)
Thalamita crenata (Latreille, 1829)
Thalamita danae Stimpson, 1858
Thalamita demani Nobili, 1905
Thalamita gracilipes (A. Milne-Edwards, 1873)
Thalamita picta Stimpson, 1858
Thalamita prymna (Herbst, 1803)
Thalamita savignyi (Herbst, 1803)
Thalamita sima H. Milne Edwards, 1834
Thalamita spinifera Borradaile, 1902
Thalamita spinimana Dana, 1852
Thalamita stimpsoni (A. Milne-Edwards, 1867)
Thalamitoides quadridens A. Milne-Edwards, 1869
Thalamitoides tridens A. Milne-Edwards, 1869

RANINIDAE de Haan, 1839

Lyreidus brevifrons Sakai, 1937
Symethis corallica Davie, 1989

RETROPLUMIDAE Gill, 1894

Retropluma laurentae McLay, 2006
Retropluma serenei de Saint Laurent, 1989

SESARMIDAE Dana, 1851

Clistocoeloma balansae A. Milne-Edwards, 1873
Metasesarma aubryi A. Milne-Edwards, 1869
Muradium tetragonum (Fabricius, 1798)
Nanosesarma edamensis (de Man, 1887)

Neosarmatium fourmanoiri Serène, 1973
Neosarmatium integrum (A. Milne-Edwards, 1873)
Neosarmatium punctatum (A. Milne-Edwards, 1873)
Neosarmatium smithi (H. Milne Edwards, 1853)
Neosarmatium trispinosum Davie, 1994
Sarmatium crassum Dana, 1851
Sesarmops impressum (H. Milne Edwards, 1837)
Parasesarma ellenae (Pretzmann, 1968)
Parasesarma leptosoma (Hilgendorf, 1869)
Parasesarma plicatum (Latreille, 1806)
Perisesarma lividum (A. Milne-Edwards, 1869)

TETRALIIDAE Castro, Ng & Ahyong, 2004

Tetralia cinctipes Paulson, 1875
Tetralia glaberrima (Herbst, 1790) = *Tetralia fulva* Serène, 1984, *T. sanguineomaculata* Galil & Clark, 1990
Tetralia nigrolineata Serène & Dat, 1957
Tetralia rubridactyla Garth, 1971
Tetraloides heterodactyla (Heller, 1861)
Tetraloides nigrifrons (Dana, 1852)

TRAPEZIIDAE Miers, 1886

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COMPENDIUM
of marine species from
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Edited by
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