

## 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, 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 558 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 558 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 calcareous 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 no major crustacean predators (like other freshwater crabs!), *Odiomaris pilosus* has grown large – it is the largest freshwater hymenosomatid 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. estuarius*) with more marine tendencies was also discovered and named!

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## 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 starnuehlneri* (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)

*Phyllotymolium crosnieri* Tavares, 1993

*Tynolus 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 Ortmann, 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 dornia* (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* (Ruppel, 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 Ortmann, 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**

*Australocarcinus kanaka* Davie & Guinot, 1996  
*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  
*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 nieensis* 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  
*Homolomania sibogae* Ihle, 1912  
*Ililopsis tirardi* Guinot & Richer de Forges, 1995  
*Lamoha inflata* (Guinot & Richer de Forges, 1981)  
*Latreillopsis antennata* Guinot & Richer de Forges, 1995  
*Latreillopsis gracilipes* Guinot & Richer de Forges, 1981  
*Paromola bathyalis* Guinot & Richer de Forges, 1995  
*Paromolopsis 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 metanese* William, 1982

*Latreillia valida* de Haan, 1839

*Latreillia pennifera* Alcock, 1900

*Euphynula australiensis* (Henderson, 1888)

**LEUCOSIIDAE Samouelle, 1819**

*Alox ornatum* (Ihle, 1918)

*Alox patella* (Alcock, 1896)

*Alox rugosum* (Stimpson, 1858)

*Ancylodactyla elata* (Zarenkov, 1994)

*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 curtimana* Galil, 2001

*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 taekoae* Takeda, 1972

*Randallia serenei* 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)  
*Schizophroida 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)  
*Miopalicus 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 diacanthius* (de Haan, 1837)  
*Aulacolambrus hoplonotus* (Adams & White, 1849)  
*Certolanbrus pugilator* (A. Milne-Edwards, 1873)  
*Cryptopodia pan* Laurie, 1906  
*Daldorfia horrida* (Linné, 1758)  
*Furtipodia petrosa* (Klunziger, 1906)  
*Garthambrus poupini* (Garth, 1992)  
*Neikolanbrus polemistes* Tan & Ng, 2003  
*Rhinolanbrus pelagicus* (Rüppell, 1830)

**PILUMNIDAE Samouelle, 1819**

- Actunnius 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 actunoides* 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 caledonicum* (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 quinqueidentatus* 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 iranjan* 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)  
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*Portunus rubromarginatus* (Lanchester, 1900)  
*Portunus rugosus* (A. Milne-Edwards, 1867)  
*Portunus sanguinolentus* (Herbst, 1796)  
*Portunus spiniferus* Stephenson & Rees, 1967  
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*Thalamita admete* (Herbst, 1803)  
*Thalamita crenata* (Latreille, 1829)  
*Thalamita danae* Stimpson, 1858  
*Thalamita demani* Nobili, 1905  
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*Thalamitoides tridens* A. Milne-Edwards, 1869

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*Lyreidus brevifrons* Sakai, 1937  
*Ranina ranina* (Linné, 1758)  
*Symethis corallica* Davie, 1989

#### **RETROPLUMIDAE Gill, 1894**

*Retropluma laurentae* McLay, 2006  
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*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)  
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*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)

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*Calocarcinus africanus* Calman, 1909  
*Calocarcinus crosnieri* Galil & Clark, 1990  
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*Quadrella maculosa* Alcock, 1898  
*Trapezia areolata* Dana, 1852  
*Trapezia bidentata* (Forskål, 1775) = *T. ferruginea* Latreille, 1828  
*Trapezia cymodoce* (Herbst, 1801)  
*Trapezia digitalis* Latreille, 1828  
*Trapezia flavopunctata* Eydoux & Souleyet, 1842  
*Trapezia formosa* Smith, 1869  
*Trapezia guttata* Rüppell, 1830  
*Trapezia lutea* Castro, 1997  
*Trapezia plana* Ward, 1941 = *T. punctipes* Castro, 1997  
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*Trapezia septata* Dana, 1852  
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*Helice leachi* Hess, 1865  
*Orcovita mcnieceae* Ng & Ng, 2002  
*Ilyograpsus paludicola* (Rathbun, 1909)  
*Pseudograpsus albus* Stimpson, 1858  
*Pseudograpsus elongatus* (A. Milne-Edwards, 1873) = *Heterograpsus elongatus* A. Milne-Edwards, 1873  
*Ptychognathus barbatus* (A. Milne-Edwards, 1873)  
*Utica barbimana* (A. Milne-Edwards, 1873)  
*Utica glabra* (A. Milne-Edwards, 1873)  
*Varuna litterata* (Fabricius, 1798)

**XANTHIDAE MacLeay, 1838**

*Actaea rugata* Adams & White, 1848  
*Actaea savignyi* (H. Milne-Edwards, 1834)  
*Actaeodes hirsutissimus* (Rüppell, 1830)  
*Actaeodes tomentosus* (H. Milne-Edwards, 1834)  
*Actunnus pugilator* A. Milne-Edwards, 1873  
*Actumnus tomentosus* Dana, 1852  
*Alainodaeus alis* Davie, 1997  
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*Antrocarcinus petrosus* Ng & Chia, 1994

*Atergatis dilatatus* de Haan, 1835  
*Atergatis floridus* (Linné, 1767)  
*Atergatis integerrimus* (Lamarck, 1818)  
*Atergatis obtusus* A. Milne-Edwards, 1865  
*Atergatopsis lucasi* Montrouzier, 1865  
*Banareia armata* A. Milne-Edwards, 1869  
*Chlorodiella barbata* (Borradaile, 1900)  
*Chlorodiella nigra* (Forskäl, 1775)  
*Cranaothus deforgesii* Ng, 1993  
*Cymo andreossi* (Audouin, 1826)  
*Cymo deplanatus* A. Milne-Edwards, 1873  
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*Demania cultripes* (Alcock, 1898)  
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*Etisus dentatus* (Herbst, 1785)  
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*Etisus laboutei* Crosnier, 1987  
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*Euryxanthops latifrons* Davie, 1997  
*Euxanthus exsculptus* (Herbst, 1790)  
*Euxanthus ruali* Guinot, 1971  
*Gaillardiiellus bathus* Davie, 1997  
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*Hepatoporus guinotae* (Zarenkov, 1971)  
*Heteropanope glabra* Stimpson, 1858  
*Leptodius davaoensis* Ward, 1941  
*Leptodius exaratus* (H. Milne-Edwards, 1834)  
*Leptodius nudipes* (Dana, 1852)  
*Leptodius sanguineus* (H. Milne-Edwards, 1834)  
*Liomera cinctimana* (White, 1847)  
*Liomera granosimana* A. Milne-Edwards, 1869  
*Liomera laevis* (A. Milne-Edwards, 1873)  
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*Paractaea retusa* (Nobili, 1905)  
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*Pilodius flavus* Rathbun, 1894  
*Pilodius maotieni* Serène, 1971  
*Pilodius nigrocrinitus* Stimpson, 1858  
*Pilodius pubescens* Dana, 1852  
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*Rata chalcal* Davie, 1997  
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of marine species from  
New Caledonia



Edited by  
Claude E. PAYRI  
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