

## A CHECK LIST OF THALASSINIDEA AND ANOMURA (CRUSTACEA: DECAPODA) FROM THE SOUTH CHINA SEA

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**ABSTRACT.** - A check list of decapod Crustacea of the families Axiidae, Callianassidae, Callianideidae, Ctenochelidae, Laomedidae, Micheleidae, Thalassiniidae, Pylochelidae, Lithodidae, Chirostylidae, Galatheidae, Porcellanidae, Albuneidae and Hippidae, recorded from the South China Sea, is presented based on published information. A total of 157 species are known from this region.

**KEY WORDS.** - Crustacea, Decapoda, Thalassinidea, Anomura, South China Sea

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### INTRODUCTION

The aim of the present paper is to present a check list of the following groups of decapod Crustacea known from the South China Sea: Infraorder Thalassinidea, including Axiidae, Callianassidae, Callianideidae, Ctenochelidae, Laomedidae, Micheleidae, Thalassinidae and Upogebiidae; Infraorder Anomura, excluding paguroid hermit crabs. Rahayu (1999) published a check list of the paguroid hermit crabs from the region. Although some major expeditions, such as the "Albatross" Philippine Expedition in 1907-1910, and MUSORSTOM I, II in the Philippines, have shown the richness of the decapod fauna in particular areas of the South China Sea, many areas still remain poorly explored. Materials from the South China Sea have been included in recent major revisionary studies of several groups, such as the Axiidae (Sakai & de Saint Laurent, 1989), Upogebiidae (Sakai, 1982), Pylochelidae (Forest, 1987), Chirostylidae (Baba, 1988; de Saint Laurent & Poupin, 1996), and Galatheidae (Baba, 1988; Macpherson & Baba, 1993; Macpherson, 1993b; Baba & de Saint Laurent, 1995). Also, other important regional contributions have been published (e.g., Johnson, 1970; Haig, 1992; Yang, 1983; 1996; Macpherson, 1993; Yang & Sun, 1992; Yang & Xu, 1994; Liu & Zhong, 1994; Wang, 1994; Sun & Wang, 1996; Hsieh et al., 1998; Wu et al., 1998).

This paper compiles published information on marine species recorded in the South China Sea, north to the tropic of Cancer, and south to the equator. A total of 157 species, belonging to 14 families and 48 genera, are recorded from the region. Families, genera and species are listed in alphabetical order. For each species, information is provided in the following sequence: (1) scientific name in current combination; (2) type locality; (3) references to the

record(s) from the South China Sea, under "Occurrence"; (4) key reference(s) which are most useful in identifying the species; (5) general distribution; and (6) "Remarks", where needed. Familial classification of the Thalassinidea follows Poore (1994).

LIST OF SPECIES

INFRAORDER THALASSINIDEA

FAMILY AXIIDAE

Genus *Axiopsis* Borradaile, 1903

*Axiopsis serratifrons* (A. Milne Edwards, 1873)

*Type locality.* - Hawaii.

*Occurrence.* - North of South China (Liu & Zhong, 1994).

*Key references.* - De Man (1925); Kensley (1981).

*General distribution.* - Pan-tropical.

Genus *Acanthaxius* Sakai & de Saint Laurent, 1989

*Acanthaxius formosa* Kensley & Chan, 1998

*Type locality.* - Tong Kong, Ping-Tong County, southwestern Taiwan.

*Occurrence.* - Southwestern Taiwan (Kensley & Chan, 1998).

*Key reference.* - Kensley & Chan (1998).

*General distribution.* - Known only from southwestern Taiwan; 350 m.

*Acanthaxius grandis* Kensley & Chan, 1998

*Type locality.* - Tong Kong, Ping-Tong County, southwestern Taiwan.

*Occurrence.* - Southwestern Taiwan (Kensley & Chan, 1998).

*Key reference.* - Kensley & Chan (1998).

*General distribution.* - Taiwan; 350-400 m.

*Acanthaxius miyazakiensis* (Yokoya, 1933)

*Type locality.* - Miyazaki, Japan, 137 m.

*Occurrence.* - Off southwestern Luzon, Philippines (Sakai & de Saint Laurent, 1989).

*Key reference.* - Sakai & de Saint Laurent (1989).

*General distribution.* - Japan, Philippines, New Caledonia; at depths of 173-205 m.

Genus *Calaxius* Sakai & de Saint Laurent, 1989

*Calaxius acutirostris* Sakai & de Saint Laurent, 1989

*Type locality.* - Madagascar.

*Occurrence.* - Off southwestern Mindoro, Philippines (Sakai & de Saint Laurent, 1989).

*Key reference.* - Sakai & de Saint Laurent (1989).

*General distribution.* - Madagascar, east Africa, Philippines; at depths of 219-400 m.

**Genus *Eutrichocheles* Wood-Mason, 1876**

***Eutrichocheles crosnieri* Ngoc-Ho, 1998**

*Type locality.* - Ha-tien, Vietnam.

*Occurrence.* - Type locality, at a depth of 30 m.

*Key reference.* - Ngoc-Ho (1998).

*General distribution.* - Known only from the type locality.

***Eutrichocheles modestus* (Herbst, 1876)**

*Type locality.* - Indian Ocean.

*Occurrence.* - Singapore (De Man, 1925, as *Axiopsis biserrata* (von Martens, 1868)).

*Key references.* - Chopra (1933); Sakai and de Saint Laurent (1989).

*General distribution.* - Malacca, Porto Novo, southern India; littoral.

**Genus *Oxyrhynchaxius* Parisi, 1917**

***Oxyrhynchaxius japonicus* Parisi, 1917**

*Type locality.* - Enoshima, Sagami Bay, Japan.

*Occurrence.* - Hong Kong (Sakai & de Saint Laurent, 1989).

*Key references.* - De Man (1925); Sakai & de Saint Laurent (1989).

*General distribution.* - Japan, Hong Kong.

**FAMILY CALLIANASSIDAE**

**Genus *Callianassa* Leach, 1814**

***Callianassa jocularix* De Man, 1905**

*Type locality.* - The type series came from 11 localities in Indonesia: Madura Strait; 7°46'S, 114°30.5'E; Bay of Labuan Tring, west coast of Lombok; Bay of Bima; Bay of Nangamessi, Sumba; Makassar and surroundings; Kwandang-bay-entrance; east side of Pajunga Island, Kwandang Bay; Saleyer anchorage and surroundings, including Pulu Pasi Tanette, near North point of Saleyer Island; 5°40'S, 132°26'E; 8°27'S, 122°54.5'E.

*Occurrence.* - North of southern China (Liu & Zhong, 1994).

*Key references.* - De Man (1928); Poore & Griffin (1979); Ngoc-Ho (1991).

*General distribution.* - Indonesia; intertidal to 330 m.

***Callianassa modesta* De Man, 1905**

*Type locality.* - The type series came from four localities in Indonesia: Bay of Bima; West of Kwandang-bay-entrance; 5°40'S, 25°10.00'E; Elat, west coast of Great Kei Island.

*Occurrence.* - North of southern China (North of south China).

*Key reference.* - De Man (1928).

*General distribution.* - Indonesia and the South China; at depths of 15-170 m.

FAMILY CALLIANIDEIDAE

Genus *Callianidea* H. Milne Edwards, 1837

*Callianidea tya* H. Milne Edwards, 1837

*Type locality.* - New Ireland.

*Occurrence.* - North of southern China (Liu & Zhong, 1994).

*Key reference.* - Sakai (1992).

*General distribution.* - Widely distributed in the Indo-Pacific; littoral.

FAMILY CTENOCHELIDAE

Genus *Ctenocheles* Kishinouye, 1926

*Ctenocheles balssi* Kishinouye, 1926

*Type locality.* - Ohsu, near Kashiwasaki, Niigata, Japan.

*Occurrence.* - North of southern China (Liu & Zhong, 1994).

*Key-reference.* - Kishinouye (1926).

*General distribution.* - Japan; China; bathyal.

FAMILY LAOMEDIDAE

Genus *Laomedia* De Haan, 1849

*Laomedia astacina* De Haan, 1849

*Type locality.* - Japan.

*Occurrence.* - North of southern China (Liu & Zhong, 1994); Vietnam (Ngoc-Ho, 1997).

*Key reference.* - Ngoc-Ho (1997).

*General distribution.* - Japan, Korea, China, Taiwan and Vietnam; usually in shallow brackish water.

*Laomedia paucispinosa* Ngoc-Ho, 1997

*Type locality.* - Dong Tranh River, Duyen Hai, Vietnam.

*Occurrence.* - Type locality (Ngoc-Ho, 1997).

*Key reference.* - Ngoc-Ho (1997).

*General distribution.* - Vietnam; in mangroves.

FAMILY MICHELEIDAE

Genus *Tethisea* Poore, 1994

*Tethisea mindoro* Poore, 1997

*Type locality.* - West of Mindoro (12°31.2'N, 120°39.3'E), Philippines.

*Occurrence.* - Type locality (Poore, 1997).

*Key reference.* - Poore (1997).

*General distribution.* - Philippines and northwestern Australia; at depths of 92-134 m.

FAMILY THALASSINIDAE

Genus *Thalassina* Latreille, 1806

*Thalassina anomala* (Herbst, 1804)

*Type locality.* - "Das Vaterland dieses Krebses ist völlig unbekannt".

*Occurrence.* - West coast of Philippines to Borneo; Viet Nam; east coast of Malay Peninsula; Gulf of Thailand (Holthuis, 1991).

*Key reference.* - Sakai (1992).

*General distribution.* - Widely distributed in the Indo-West Pacific; littoral.

FAMILY UPOGEBIIDAE

Genus *Upogebia* Leach

*Upogebia ancyrodactyla* De Man, 1905

*Type locality.* - Smau Island, near Timor.

*Occurrence.* - Singapore, Luzon, Philippines (Sakai, 1982).

*Key reference.* - Sakai (1982).

*General distribution.* - Northern Territory, Australia, Indonesia, Singapore and Philippines; littoral.

*Upogebia carinicauda* (Stimpson, 1860)

*Type locality.* - Hong Kong.

*Occurrence.* - Hong Kong (Stimpson, 1860); Gulf of Tonkin; Viet Nam; Luzon, Philippines (Sakai, 1982; 1993).

*Key reference.* - Sakai (1982).

*General distribution.* - South China Sea, Samoa, Papua New Guinea, Torres Strait, Indonesia, Australia, India and Madagascar; shallow water.

*Upogebia darwini* (Miers, 1884)

*Type locality.* - Darwin, Northern Territory, Australia.

*Occurrence.* - "South China Sea" (Sakai, 1993).

*Key reference.* - Sakai (1982).

*General distribution.* - Widely distributed in the Indo-West Pacific; shallow water.

*Remarks.* - Although Ngoc-Ho (1990) separated three forms, *U. darwini*, *U. hexaceras* (Ortmann, 1894) and *U. octoceras* Nobili, 1904, as distinct species, Sakai (1993) considered that the latter two forms were junior subjective synonyms of *U. darwini*.

*Upogebia edulis* Ngoc-Ho & Chan, 1992

*Type locality.* - Luk-Kong, Chang-Hua County, Taiwan.

*Occurrence.* - North Viet Nam (Ngoc-Ho & Chan, 1992).

*Key reference.* - Ngoc-Ho & Chan (1992).

*General distribution.* - Taiwan and northern Viet Nam; littoral.

***Upogebia gracilis* Ngoc-Ho, 1990**

**Type locality.** - Off southwestern Luzon, Philippines.

**Occurrence.** - Type locality (Ngoc-Ho, 1990).

**Key reference.** - Ngoc-Ho (1990).

**General distribution.** - Known only from the type locality; 190 m.

***Upogebia takaoensis* Sakai & Türkay, 1995**

**Type locality.** - Takao, southwestern Taiwan.

**Occurrence.** - Type locality (Sakai & Türkay, 1995).

**Key reference.** - Sakai & Türkay (1995).

**General distribution.** - Known only from the type locality.

***Upogebia wuhsienweni* Yu, 1931**

**Type locality.** - Chiao-Chou Bay, China.

**Occurrence.** - Hong Kong (Sakai, 1982).

**Key references.** - Sakai (1982); Ngoc-Ho & Chan (1993).

**General distribution.** - China, Hong Kong and Taiwan; littoral.

**Genus *Wolffogebia* Sakai, 1982**

***Wolffogebia inermis* Sakai, 1982**

**Type locality.** - Tangerang, Mocara, Java.

**Occurrence.** - Viet Nam (Ngoc-Ho, 1994).

**Key references.** - Sakai (1982); Ngoc-Ho (1994).

**General distribution.** - Indonesia and Viet Nam; littoral.

***Wolffogebia phuketensis* Sakai, 1982**

**Type locality.** - Phuket, Thailand.

**Occurrence.** - Singapore (Ngoc-Ho, 1994).

**Key references.** - Sakai (1982); Ngoc-Ho (1994).

**General distribution.** - Andaman Sea and Singapore; littoral.

INFRAORDER ANOMURA

SUPERFAMILY COENOBITOIDEA

FAMILY PYLOCHELIDAE

**Genus *Parapylocheles* Alcock, 1901**

***Parapylocheles scorpio* (Alcock, 1894)**

**Type locality.** - Andaman Sea, 740 m.

**Occurrence.** - Off western Mindoro, Philippines (Forest, 1987).

**Key reference.** - Forest (1987).

**General distribution.** - Andaman Sea, Sumatra and Philippines; at depths of 280-925 m.

**Genus *Pylocheles* A. Milne Edwards, 1880**

***Pylocheles (Bathycheles) incisus* Forest, 1987**

*Type locality.* - Off southwestern Luzon (13°36.7'N, 120°33.7'E), Philippines.

*Occurrence.* - Off southwestern Luzon (Forest, 1987).

*Key reference.* - Forest (1987).

*General distribution.* - Philippines, Macassar Strait and Banda Sea; at depths of 395-970 m.

***Pylocheles (Pylocheles) mortensenii* Boas, 1926**

*Type locality.* - Kei Islands, Indonesia.

*Occurrence.* - Off southwestern Luzon, Philippines (Forest, 1987).

*Key reference.* - Forest (1987).

*General distribution.* - Japan, Philippines, Indonesia, Australia from Queensland, New Zealand; at depths of 100-400 m.

***Pylocheles (Xylocheles) macropus* Forest, 1987**

*Type locality.* - North of Lubang Island (14°00.0'N, 120°19.2'E), Philippines.

*Occurrence.* - Off southwestern Luzon, Philippines (Forest, 1987).

*Key reference.* - Forest (1987).

*General distribution.* - Taiwan, Philippines and Indonesia; at depths of 170-347 m.

***Pylocheles (Xylocheles) miersi* Alcock & Anderson, 1899**

*Type locality.* - Andaman Sea.

*Occurrence.* - Off southwestern Luzon, Philippines (Forest, 1987).

*Key reference.* - Forest (1987).

*General distribution.* - Andaman Sea, Java and Philippines; at depths of 240-460 m.

**Genus *Trizocheles* Forest, 1987**

***Trizocheles laurentae* Forest, 1987**

*Type locality.* - Off southwestern Luzon (13°46.9'N, 120°29.5'E), Philippines.

*Occurrence.* - Type locality (Forest, 1987).

*Key reference.* - Forest (1987).

*General distribution.* - Known only from the type locality.

**SUPERFAMILY PAGUROIDEA**

**FAMILY LITHODIDAE**

**Genus *Lithodes* Latreille, 1806**

***Lithodes turritus* Ortmann, 1892**

*Type locality.* - Enoshima, Sagami Bay, Japan.

*Occurrence.* - Off northwestern Luzon, Philippines (Macpherson, 1990).

*Key reference.* - Baba (1986).

*General distribution.* - Japan, East China Sea and Philippines; at depths of 300-800 m.

SUPERFAMILY GALATHEOIDEA

FAMILY CHIROSTYLIDAE

Genus *Chirostylus* Ortmann, 1892

*Chirostylus dolichops* Ortmann, 1892

*Type locality.* - Sagami Bay, Japan.

*Occurrence.* - Haig (1974) believed that this species is tropical in distribution, ranging from the Indo-Malayan region, southward to western Australia, Philippines, and north to Japan.

*Key reference.* - Miyake & Baba (1968); Osawa & Nishikiori (1998).

*General distribution.* - See above.

Genus *Eumunida* Smith, 1883

*Eumunida capillata* de Saint Laurent & Macpherson, 1990

*Type locality.* - New Caledonia.

*Occurrence.* - South of Taiwan (de Saint Laurent & Poupin, 1996).

*Key reference.* - De Saint Laurent & Poupin (1996).

*General distribution.* - New Caledonia, Chesterfield Islands, Kai Island in Indonesia and south of Taiwan; at depths of 356-650 m.

*Eumunida funambulus* Gordon, 1930

*Type locality.* - Gulf of Aden.

*Occurrence.* - Off southwestern Luzon, Philippines (Baba, 1988).

*Key reference.* - De Saint Laurent & Poupin (1996).

*General distribution.* - Gulf of Aden, Indonesia, Philippines and Japan; at depths of 476-732 m.

*Eumunida smithii* Henderson, 1885

*Type locality.* - Kai Islands, Indonesia.

*Occurrence.* - Off southwestern Luzon, Philippines (de Saint Laurent & Poupin, 1996).

*Key reference.* - de Saint Laurent & Poupin (1996).

*General distribution.* - Kai Islands in Indonesia and Philippines; at depths of 204-366 m.

*Remarks.* - De Saint Laurent & Poupin (1996) has shown that *Eumunida propior* Baba, 1988, is a junior subjective synonym of this species.

Genus *Gastroptychus* Caurelly, 1896

*Gastroptychus sternoornatus* (Van Dam, 1933)

*Type locality.* - Off Kei Islands, Indonesia.

*Occurrence.* - Vicinity of Marinduque, off southwestern Luzon, Philippines (Baba, 1988).

*Key reference.* - Van Dam (1933); Baba (1988).

*General distribution.* - Kei Islands in Indonesia and Philippines; at depths of 265-353 m.



**Genus *Uroptychus* Henderson, 1888**

***Uroptychus albatrossae* Baba, 1988**

*Type locality.* - Northeast of Pt. Tagolo Light (8°47'N, 123°31.15'E), off northern Mindanao, Philippines.

*Occurrence.* - Off Hong Kong (Baba, 1988).

*Key reference.* - Baba (1988).

*General distribution.* - Philippines and off Hong Kong; at depths of 265-510 m.

***Uroptychus mortenseni* Van Dam, 1939**

*Type locality.* - Kei Islands (5°46'S, 133°49.35'E), Indonesia.

*Occurrence.* - Off southwestern Luzon, Philippines (Baba, 1988).

*Key reference.* - Van Dam (1939); Baba (1988).

*General distribution.* - Indonesia and Philippines; at depths of 250-366 m.

***Uroptychus nigricapillis* Alcock, 1901**

*Type locality.* - Andaman Sea.

*Occurrence.* - Off southwestern Luzon, Philippines (Baba, 1988).

*Key references.* - Baba (1981; 1988).

*General distribution.* - Zanzibar, Maldives, Saya de Malha Bank, south Arabian coast, Andaman Sea, Flores Sea; Java Sea, Philippines and Japan; at depths of 66-1930 m.

FAMILY GALATHEIDAE

**Genus *Agononida* Baba & de Saint Laurent, 1995**

***Agononida incerta* (Henderson, 1888)**

*Type locality.* - Off Zamboanga, Mindanao, Philippines.

*Occurrence.* - South China (Wang, 1994); southwestern Taiwan (Wu et al., 1998).

*Key reference.* - Baba (1986; 1988; 1994); Baba & de Saint Laurent (1995).

*General distribution.* - East coast of Africa, Malay Archipelago, Philippines, Australia and Japan; at depths of 17-638 m.

**Genus *Allogalatea* Baba, 1969**

***Allogalatea elegans* (White, 1848, in Adams & White, 1848)**

*Type locality.* - Philippine Islands.

*Occurrence.* - Singapore (Johnson, 1970).

*Key references.* - Haig (1973); Miyake (1982); Baba (1979).

*General distribution.* - Widely distributed in the Indo-West Pacific; shallow water, associated with crinoids.

**Genus *Anoplionida* Baba & de Saint Laurent, 1995**

***Anoplionida cracentis* Baba & de Saint Laurent, 1995**

*Type locality.* - Northeast of Lubang Island (14°00.5'N, 120°16.3'E), Philippines.

*Occurrence.* - Off Lubang Island (Baba & de Saint Laurent, 1995).

*Key reference.* - Baba & de Saint Laurent (1995).

*General distribution.* - Known only from off Lubang Island, Philippines.

**Genus *Cervimunida* Benedict, 1902**

***Cervimunida princeps* Benedict, 1902**

**Type locality.** - Off Honshu, Japan.

**Occurrence.** - Off northern Luzon, Philippines (Baba, 1988); southwestern Taiwan (Wu et al., 1998).

**Key reference.** - Baba (1986).

**General distribution.** - Japan and northern Luzon, Philippines; at depths of 76-452 m.

**Genus *Fennerogalatea* Baba, 1988**

***Fennerogalatea chacei* Baba, 1988**

**Type locality.** - Southeast of Tabayas Light (13°49.40'N, 121°40.15'E), off southwestern Luzon, Philippines.

**Occurrence.** - Tayabas Bay off southwestern Luzon.

**Key reference.** - Baba (1988).

**General distribution.** - Known only from Tayabas Bay, Philippines; at depths of 152-165 m.

**Genus *Galathea* Fabricius, 1793**

***Galathea albatrossae* Baba, 1988**

**Type locality.** - Northwest of Endeavor Point off northwestern Palawan (10°56.55'N, 119°17.24'E), Philippines.

**Occurrence.** - Off northwestern Palawan and off southwestern Luzon, Philippines (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Sulu Sea and South China Sea off southwestern Luzon and Palawan, Philippines; at depths of 26-60 m.

***Galathea balssi* Miyake & Baba, 1964**

**Type locality.** - East China Sea (27°01.2'N, 122°56'E).

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988).

**Key reference.** - Miyake & Baba (1964); Baba (1988).

**General distribution.** - Japan, East China Sea, South China Sea, Sulu Archipelago and Queensland, Australia; at depths of 31-216 m.

***Galathea coralliophilus* Baba & Oh, 1990**

**Type locality.** - Raffles Lighthouse, Singapore.

**Occurrence.** - Singapore and Gulf of Thailand (Baba & Oh, 1990).

**Key reference.** - Baba & Oh (1990).

**General distribution.** - Singapore, Gulf of Thailand and west Irian; littoral.

***Galathea kubo* Miyake & Baba, 1967a**

**Type locality.** - Off Daiozaki, Mie Prefecture, Japan.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988).

**Key references.** - Miyake & Baba (1967a); Baba (1988).

**General distribution.** - Japan and Philippines; at depths of 366-392 m.

***Galathea longimanoides* Johnson, 1970**

**Type locality.** - Johore Shoals, Singapore.

**Occurrence.** - Type locality (Johnson, 1970).

**Key reference.** - Johnson (1970).

**Distribution.** - Singapore; littoral.

***Galathea multilineata* Balss, 1913**

**Type locality.** - Sagami Bay, Japan.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988); southwestern Taiwan (Wu et al., 1998).

**Key references.** - Miyake & Baba (1967b); Baba (1988).

**General distribution.** - Japan, East China Sea and Philippines; at depths of 120-393 m.

***Galathea orientalis* Stimpson, 1858**

**Type locality.** - Hong Kong.

**Occurrence.** - Hong Kong (Stimpson, 1858); South China (Wang, 1994).

**Key reference.** - Miyake & Baba (1967b).

**General distribution.** - Japan, Ogasawara Islands, Korea and southern China; intertidal to 200 m.

***Galathea pubescens* Stimpson, 1858**

**Type locality.** - On the east coast of Amami-Oshima Island, Ryukyu Islands; and Hakodate, Hokkaido, Japan.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988).

**Key reference.** - Miyake (1982); Baba (1988).

**General distribution.** - Japan, East China Sea, Philippines, western Australia and Zanzibar; at depths of 40-494 m.

***Galathea spinosorostris* Dana, 1852**

**Type locality.** - Hawaiian Islands.

**Occurrence.** - Off southwestern and northern Luzon, Philippines (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - One of the most widespread species in the Indo-West Pacific: Red Sea, Zanzibar, Providence, Amirante, Seychelles, Saya de Malha Bank, Cargados Carajos, Timor, Moluccas, Indonesia, Philippines, Palau Islands, Japan and Hawaiian Islands; intertidal to 410 m.

***Galathea subsquamata* Stimpson, 1858**

**Type locality.** - Amami-oshima, Ryukyu Islands, Japan.

**Occurrence.** - South China (Wang, 1994).

**Key reference.** - Baba (1977; 1988)

**General distribution.** - Japan, Palau, Philippines, Mollucas, Australia and New Caledonia; intertidal to 238 m.

**Remarks.** - Baba (1977) concluded that *Galathea aculeata* Haswell, 1882, was a junior subjective synonym of *G. subsquamata* Stimpson, 1858. Although Johnson (1970) reported *G. aculeata* from Singapore, Haig (1972) questioned his identification because of lack of sufficient information that enables to make certain identification.

**Genus *Munida* Leach, 1820**

***Munida agave* Macpherson & Baba, 1993**

*Type locality.* - Off southwestern Luzon (13°32.3'N, 121°07.5'E), Philippines.

*Occurrence.* - Off southwestern Luzon (Macpherson & Baba, 1993).

*Key reference.* - Macpherson & Baba (1993).

*General distribution.* - Japan and Philippines; at depths of 89-187 m.

***Munida albiapicula* Baba & Yu, 1987**

*Type locality.* - Taiwan.

*Occurrence.* - Southwestern Taiwan (Wu et al., 1998).

*Key references.* - Baba & Yu (1987); Wu et al. (1998).

*General distribution.* - Known only from Taiwan; at depths of 150-300 m.

***Munida analoga* Macpherson, 1993a**

*Type locality.* - Off western Mindoro (12°08.3'N, 121°15.6'E), Philippines.

*Occurrence.* - Off southwestern Luzon and western Mindoro, Philippines (Macpherson, 1993a).

*Key reference.* - Macpherson (1993a).

*General distribution.* - Philippines and northern Sulawesi, Indonesia; at depths of 170-510 m.

***Munida andamanica* Alcock, 1894**

*Type locality.* - Andaman Sea.

*Occurrence.* - Off southwestern Luzon, Philippines (Baba, 1988).

*Key references.* - Baba (1986; 1988).

*General distribution.* - East coast of Africa, Arabian Sea, Maldives, Andaman Sea, Sumatra, Java, Sulawesi, Moluccas, Philippines and Japan; 141-1360 m.

***Munida armata* Baba, 1988**

*Type locality.* - Off southwestern Luzon (14°N, 120°22.30'E), Philippines.

*Occurrence.* - Off southwestern Luzon (Baba, 1988; Macpherson, 1993a).

*Key reference.* - Baba (1988).

*General distribution.* - Known only from off southwestern Luzon, Philippines; at depths of 182-109 m.

***Munida caesula* Macpherson & Baba, 1993**

*Type locality.* - Tosa Bay, Japan.

*Occurrence.* - southwestern Taiwan (Wu et al., 1998).

*Key reference.* - Macpherson & Baba (1993).

*General distribution.* - Japan from Tosa Bay and north of Kyushu, Philippines and southwestern Taiwan; at depths of 290-390 m.

***Munida compressa* Baba, 1988**

*Type locality.* - Northeast of Makyau Island in the Molucca Sea (0°15.00'N, 127°24.35'E).

*Occurrence.* - Off southwestern Luzon, Philippines (Baba, 1988; Macpherson, 1993a).

*Key reference.* - Baba (1988).

*General distribution.* - Philippines and Japan; at depths of 180-545 m.

***Munida curvirostris* Henderson, 1885**

**Type locality.** - The type series was taken at two stations by the Challenger: off Sibago, Philippines; and off Zebu, Philippines.

**Occurrence.** - Off southwestern Luzon, Philippines (Macpherson, 1993a).

**Key reference.** - Henderson (1888).

**General distribution.** - East coast of Africa, Arabian Sea, Maldives, Andaman Sea, Indonesia, Philippines and Japan; at depths of 141-1360 m.

**Remarks.** - In the "Remarks" section of *Munida curvirostris*, Macpherson (1993: 428) stated as follows: "Baba (personal communication) believes that *M. curvirostris* Henderson, 1885, and *M. andamanica* Alcock, 1894, are synonymous (see also Baba & Macpherson, 1991). A complete revision of this species will be given by this author."

***Munida eminens* Baba, 1988**

**Type locality.** - Northwest of Atalaya Point (12°43.51'N, 124°58.50'E), Batag Island, southeastern Luzon, Philippines.

**Occurrence.** - Palawan Passage, Philippines (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Philippines; at depths of 564-686 m.

***Munida exigua* Baba, 1988**

**Type locality.** - Southeast of Tayabas Light (13°42.50'N, 121°51.30'E), off southwestern Luzon, Philippines.

**Occurrence.** - Off southwestern Luzon; off Hong Kong (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Philippines, off Hong Kong and Sagami Bay, Japan; at depths of 68-198 m.

***Munida fortiantenna* Baba, 1988**

**Type locality.** - Molluca Sea off west coast of Halmehra (0°37.00'N, 127°15.00'E).

**Occurrence.** - Off southwestern Luzon, Philippines (Macpherson, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Philippines and Molluca Sea; at depths of 750-925 m.

***Munida gillii* Macpherson, 1993a**

**Type locality.** - Off southwestern Luzon, Philippines (13°53.1'N, 120°08.9'E).

**Occurrence.** - Off Hong Kong (as *M. babai*, Baba, 1988); off southwestern Luzon (Macpherson, 1993a); southwestern Taiwan (Wu et al., 1998; as *Munida babai*).

**Key reference.** - Macpherson (1993).

**General distribution.** - Off Hong Kong and Philippines; at depths of 112-134 m.

**Remarks.** - Macpherson (1993) showed that the specimens from Philippines identified by Baba (1988) as *Munida babai* Tirmizi & Javed, 1976, were referable to *M. gillii* described by himself. Recently Wu et al. (1998) reported *M. babai* from southwestern Taiwan. Judging from the illustration (Wu et al., 1998: figs. 19), the Taiwanese specimen seems to represent *M. gillii*, *M. babai* instead, because the distomesial spine of the basal antennular segment is longer than the distolateral spine.

***Munida heteracantha* Ortmann, 1892**

**Type locality.** - Katsuyama, Boso Peninsula; and Sagami Bay, Japan.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988; Macpherson & Baba, 1993).

**Key reference.** - Macpherson & Baba (1993).

**General distribution.** - Philippines, Indonesia, Hong Kong and Japan; at depths of 68-222 m.

***Munida japonica* Stimpson, 1858**

**Type locality.** - Kagoshima, Japan.

**Occurrence.** - Off southwestern Luzon, Philippines (Macpherson & Baba, 1993); southwestern Taiwan (Wu et al., 1998).

**Key reference.** - Macpherson & Baba (1993).

**General distribution.** - Japan and Philippines; at depths of 102-220 m.

***Munida kuboii* Yanagita, 1943**

**Type locality.** - Toyama Bay in the Sea of Japan.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988; Macpherson, 1993); southwestern Taiwan (Wu et al., 1998).

**Key reference.** - Baba (1988).

**General distribution.** - Japan, Philippines, Indonesia and Madagascar; at depths of 216-405 m.

***Munida laevis* Macpherson & Baba, 1993**

**Type locality.** - Off southwestern Luzon, Philippines (14°09.3'N, 120°26.2'E).

**Occurrence.** - Off southwestern Luzon (Macpherson & Baba, 1993).

**Key reference.** - Macpherson & Baba (1993).

**General distribution.** - Philippines; at depths of 174-204 m.

***Munida longispinata* Baba, 1988**

**Type locality.** - Southeast coast of C. Santiago Light (13°44.24'N, 120°45.30'E), off southwestern Luzon, Philippines.

**Occurrence.** - Off southwestern Luzon (Baba, 1988; Macpherson, 1993).

**Key reference.** - Baba (1988).

**General distribution.** - Philippines; at depths of 214-702 m.

***Munida melite* Macpherson & Baba, 1993**

**Type locality.** - Off southwestern Luzon, Philippines (13°49.4'N, 120°04.2'E).

**Occurrence.** - Type locality.

**Key reference.** - Macpherson & Baba (1993).

**General distribution.** - Known only from the type locality; 170-200 m.

***Munida minuta* Macpherson, 1993a**

**Type locality.** - Off western Mindoro (12°31.2'N, 120°39.3'E), Philippines.

**Occurrence.** - Type locality.

**Key reference.** - Macpherson (1993a).

**General distribution.** - Known only from the type locality; at depths of 92-97 m.

***Munida nesaea* Macpherson & Baba, 1993**

**Type locality.** - Off southwestern Luzon, Philippines (13°45.1'N, 120°37.7'E).

**Occurrence.** - Off southwestern Luzon (Macpherson & Baba, 1993).

**Key reference.** - Macpherson & Baba (1993).

**General distribution.** - Philippines; at depths of 178-812 m.

***Munida oritea* Macpherson & Baba, 1993**

*Type locality.* - Off southwestern Luzon, Philippines (13°59.2'N, 120°20.3'E).

*Occurrence.* - Off southwestern Luzon (Macpherson & Baba, 1993); southwestern Taiwan (Wu et al., 1998).

*Key reference.* - Macpherson & Baba (1993).

*General distribution.* - Philippines and southwestern Taiwan; at depths of 174-320 m.

***Munida pherusa* Macpherson & Baba, 1993**

*Type locality.* - Off southwestern Luzon, Philippines (13°56.5'N, 120°20.7'E).

*Occurrence.* - Off southwestern Luzon (Macpherson & Baba, 1993).

*Key reference.* - Macpherson & Baba (1993).

*General distribution.* - Japan, Philippines and Indonesia; at depths of 73-152 m.

***Munida philippinensis* Macpherson & Baba, 1993**

*Type locality.* - Off southwestern Luzon, Philippines (14°00.5'N, 120°16.3'E).

*Occurrence.* - Off southwestern Luzon (Macpherson & Baba, 1993).

*Key reference.* - Macpherson & Baba (1993).

*General distribution.* - Philippines; at depths of 170-220 m.

***Munida pilorhyncha* Miyake & Baba, 1966**

*Type locality.* - Tosa Bay, Japan.

*Occurrence.* - Off northwestern Luzon, Philippines (Baba, 1988); southwestern Taiwan (Wu et al., 1998).

*Key references.* - Miyake & Baba (1966); Baba (1988).

*General distribution.* - Japan from Tosa Bay and off southwestern Kyushu, Philippines from off Luzon and southwestern Taiwan; at depths of 200-300 m.

***Munida pilosimanus* Baba, 1969**

*Type locality.* - Tosa Bay, Japan.

*Occurrence.* - Southwestern Taiwan (Wu et al., 1998).

*Key reference.* - Baba (1969; 1988).

*General distribution.* - Japan from Tosa Bay and Okinawa Trough, Kyushu Palau Ridge, Sulu Archipelago and southwestern Taiwan; at depths of 250-582 m.

***Munida prominula* Baba, 1988**

*Type locality.* - Off southwestern Taiwan (21°36'N, 117°27'E).

*Occurrence.* - Type locality.

*Key reference.* - Baba (1988).

*General distribution.* - Known only from the type locality; at a depth of 421 m.

***Munida pusiola* Macpherson, 1993a**

*Type locality.* - West coast of Mindoro (12°31.2'N, 120°39.3'E), Philippines.

*Occurrence.* - Type locality.

*Key reference.* - Macpherson (1993a).

*General distribution.* - Known only from the type locality; at depths of 92-97 m.

***Munida rufiantennulata* Baba, 1969**

*Type locality.* - West coast of Kyushu, Japan.

*Occurrence.* - Off southwestern Luzon, Philippines (Baba, 1988).

*Key references.* - Baba (1969; 1988).

*General distribution.* - Japan and Philippines; at depths of 165-705 m.

***Munida sacksi* Macpherson, 1993a**

**Type locality.** - Off southwestern Luzon, Philippines (13°50.5'N, 120°30.3'E).

**Occurrence.** - Type locality.

**Key reference.** - Macpherson (1993a).

**General distribution.** - Philippines and New Caledonia; at depths of 300-550 m.

***Munida squamosa* Henderson, 1885**

**Type locality.** - North of Admiralty Islands.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988); southwestern Taiwan (Wu et al., 1998).

**Key reference.** - Henderson (1888); Baba (1988).

**General distribution.** - North of Papua New Guinea, Philippines, Japan, Andaman Sea and Arabian Sea; at depths of 176-732 m.

***Munida thoe* Macpherson, 1994**

**Type locality.** - New Caledonia (24°54.96'S, 168°21.91'E)..

**Occurrence.** - Southwestern Taiwan (Wu et al., 1998).

**Key reference.** - Macpherson (1994).

**General distribution.** - New Caledonia and southwestern Taiwan; at depths of 260-610 m.

***Munida variabilis* Baba, 1988**

**Type locality.** - Vicinity of Marinduque, off southwestern Luzon (13°40'N, 121°31.10'E), Philippines.

**Occurrence.** - Off southwestern Luzon and south of Mindoro, Philippines (Baba, 1988; Macpherson, 1993).

**Key reference.** - Baba (1988).

**General distribution.** - Philippines; at depths of 514-924 m.

**Genus *Munidopsis* Whiteaves, 1874**

***Munidopsis andamanica* MacGilchrist, 1905**

**Type locality.** - Andaman Sea.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Andaman Sea, Sumatra, Indonesia and Philippines; at depths of 514-1350 m.

***Munidopsis crenatirostris* Baba, 1988**

**Type locality.** - Northwest of Sombero Island (13°45.15'N, 120°40.30'E), off southwestern Luzon, Philippines.

**Occurrence.** - Type locality (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Known only from the type locality, at a depths of 432 m.

***Munidopsis cylindrophthalma* (Alcock, 1894)**

**Type locality.** - Andaman Sea.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988); southwestern Taiwan (Wu et al., 1998).

**Key reference.** - Baba (1988).



**General distribution.** - Arabian Sea, Maldives, Andaman Sea, Sumatra, Molucca Sea, Philippines and Japan; at depths of 200-743 m.

***Munidopsis dasypus* Alcock, 1894**

**Type locality.** - Bay of Bengal off the Andaman Islands.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - South Africa from off Natal, Gulf of Aden, Arabian Sea, Laccadive Sea, Bay of Bengal, Andaman Sea, Moluccas and Philippines; at depths of 214-1939 m.

***Munidopsis gibbosa* Baba, 1978**

**Type locality.** - South of Hong Kong (19°20.0'N, 114°13.2'E).

**Occurrence.** - Type locality (Baba, 1978).

**Key reference.** - Baba (1978).

**General distribution.** - Known only from the type locality; at depths of 936-1008 m.

***Munidopsis latimana* Miyake & Baba, 1966**

**Type locality.** - Tosa Bay, Japan.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988); southwestern Taiwan (Wu et al., 1998).

**Key references.** - Miyake & Baba (1966); Baba (1986; 1988).

**General distribution.** - Japan, Philippines and southwestern Taiwan; at depths of 198-350 m.

***Munidopsis regia* Alcock & Anderson, 1894**

**Type locality.** - Andaman Sea.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Gulf of Mannar, Maldives, Bay of Bengal, Sumatra and Philippines; at depths of 260-750 m.

***Munidopsis similior* Baba, 1988**

**Type locality.** - Northeast of Legaspi Light (13°12'N, 123°49.18'E), off southeastern Luzon, Philippines.

**Occurrence.** - Off southwestern Luzon (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Philippines; at depths of 276-366 m.

***Munidopsis tenax* Alcock, 1901**

**Type locality.** - Andaman Sea.

**Occurrence.** - Off southwestern Luzon, Philippines (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Zanzibar, Andaman Sea, Maldives and Philippines; at depths of 454-797 m.

***Munidopsis tridentata* (Esmark, 1857)**

**Type locality.** - Lofoten, west coast of Norway.

**Occurrence.** - Palawan Passage, Philippines (Baba, 1988).

**Key reference.** - Baba (1988).

**General distribution.** - Eastern Atlantic: off the coast of Iceland, off Norway, Bay of Biscay,

Komai: List of Thalassinidea and Anomura

off Azores, off west coast of Africa and Cape Verde Islands; western Atlantic: off Cuba and Gulf of Mexico; Indian Ocean; western Pacific: Philippines. At depths of 145-2165 m.

***Munidopsis valdiviae* (Doflein & Balss, 1913)**

**Type locality.** - Off southern Somali Republic (1°48'N, 45°42'E), east Africa.

**Occurrence.** - Palawan Passage, Philippines (Baba, 1988).

**Key reference.** - Baba (1982; 1988).

**General distribution.** - East coast of Africa, Philippines and Japan; at depths of 1120-1644 m.

**Genus *Paramunida* Baba, 1988**

***Paramunida longior* Baba, 1988**

**Type locality.** - Northwest of S. Fernand Point Light (16°38'N, 119°57.18'E), western Luzon, Philippines.

**Occurrence.** - Type locality (Baba, 1988).

**Key references.** - Baba (1988); Macpherson (1993b).

**General distribution.** - Philippines and Molucca Sea; at depths of 340-485 m.

***Paramunida proxima* (Henderson, 1885)**

**Type locality.** - Admiralty Islands.

**Occurrence.** - Off southwestern Luzon, Philippines (Macpherson, 1993b).

**Key reference.** - Macpherson (1993b)

**General distribution.** - Japan, Philippines, Indonesia and Admiralty Islands; at depths of 246-430 m.

***Paramunida scabra* (Henderson, 1885)**

**Type locality.** - Off Kei Islands, Indonesia.

**Occurrence.** - Off southwestern Taiwan; off Hong Kong; off southwestern Luzon, Philippines; Balabac Strait (Baba, 1988); southwestern Taiwan (Wu et al., 1998).

**Key reference.** - Macpherson (1993b).

**General distribution.** - Indonesia, Philippines, East China Sea and Japan; at depths of 70-1360 m.

***Paramunida setigera* Baba, 1988**

**Type locality.** - Northwest off Sombero Island (13°52.22'N, 120°46.22'E), southwestern Luzon, Philippines.

**Occurrence.** - Off southwestern Luzon (Baba, 1988; Macpherson, 1993b).

**Key references.** - Baba (1988); Macpherson (1993b).

**General distribution.** - Philippines; at depths of 183-289 m.

**Genus *Sadayoshia* Baba, 1969**

***Sadayoshia miyakei* Baba, 1969**

**Type locality.** - Off Mage-jima Island, Osumi Islands, southern Kyushu, Japan.

**Occurrence.** - Off northern Luzon, Philippines (Baba, 1988).

**Key references.** - Baba (1969).

**General distribution.** - Japan from southern Kyushu and off northern Luzon, Philippines; at depths of 35-410 m.

Family PORCELLANIDAE

Genus *Aliaporcellana* Nakasone & Miyake, 1969

*Aliaporcellana suluensis* (Dana, 1852)

*Type locality.* - Sulu Archipelago, Philippines.

*Occurrence.* - Singapore (Johnson, 1958, as *Polyonyx denticulatus*); Hong Kong (Haig, 1964); Guangxi Province, China (Yang & Sun, 1992); southwestern Taiwan (Hsieh et al., 1998).

*Key reference.* - Nakasone & Miyake (1969).

*General distribution.* - Indian Ocean including Red Sea; western Pacific from Japan, south to Indonesia; littoral to 126 m.

*Aliaporcellana telestophila* (Johnson, 1958)

*Type locality.* - Singapore.

*Occurrence.* - Gulf of Thailand (Haig, 1964); Nansha Islands (Yang & Zu, 1994); Singapore (Ng & Goh, 1996).

*Key reference.* - Ng & Goh (1996).

*General distribution.* - In addition to above localities, the species is known from Ambon, Indonesia; shallow water, associated with live coral.

Genus *Capilliporcellana* Haig, 1978

*Capilliporcellana wolffi* Haig, 1981

*Type locality.* - Rayong Bay, Gulf of Thailand.

*Occurrence.* - Type locality (Haig, 1981).

*Key reference.* - Haig (1981).

*General distribution.* - Known only from the type locality; at depths of 13-19 m.

Genus *Enosteoides* Johnson, 1970

*Enosteoides ornatus* (Stimpson, 1858)

*Type locality.* - Hong Kong.

*Occurrence.* - Hong Kong (Stimpson, 1858; Haig, 1992); Singapore (Johnson, 1970); Guangxi Province, China (Yang & Sun, 1992); Gulf of Thailand, Viet Nam, Singapore (Haig, 1992).

*Key references.* - Miyake (1943); Haig (1992).

*General distribution.* - Southern India, Mergui Archipelago, Australia, South China Sea, China, Korea and Japan; shallow water.

Genus *Euleniaios* Ng & Nakasone, 1993

*Euleniaios cometus* (Walker, 1887)

*Type locality.* - Singapore.

*Occurrence.* - Singapore (Ng & Nakasone, 1993)

*Key reference.* - Ng & Nakasone (1993).

*General distribution.* - Singapore and Mergui Archipelago; shallow water, associated with chaetopterid tube.

**Genus *Lissoporcellana* Haig, 1978**

***Lissoporcellana paraquadrilobata* Yang & Sun, 1992**

- Type locality.** - Beibu Gulf, Guangxi Province, China.  
**Occurrence.** - Type locality (Yang & Sun, 1992).  
**Key reference.** - Yang & Sun (1992).  
**General distribution.** - So far known only from the type locality.

***Lissoporcellana quadrilobata* (Miers, 1884)**

- Type locality.** - Port Denison, Queensland, Australia.  
**Occurrence.** - South China Sea, Singapore (Haig, 1981); Gulf of Tonkin, Gulf of Thailand (Haig, 1992); Nansha Islands (Yang & Zu, 1994).  
**Key references.** - Nakasone & Miyake (1969); Haig (1992).  
**General distribution.** - East coast of Africa to Queensland, Australia; littoral to 46 m.

***Lissoporcellana spinuligera* (Dana, 1852)**

- Type locality.** - Mangsi Island, Balabac Passage, north of Borneo.  
**Occurrence.** - Hong Kong (Stimpson, 1858; Haig, 1992); Gulf of Thailand, Singapore (Haig, 1981; 1992); Guangxi Province, China (Yang & Sun, 1992).  
**Key references.** - Nakasone & Miyake (1968b); Haig (1992).  
**General distribution.** - Japan, Palau, South China Sea; Indonesia and Australia; littoral.

***Lissoporcellana stereptochiroides* (Johnson, 1970)**

- Type locality.** - Not indicated.  
**Occurrence.** - Singapore (Johnson, 1970); Hong Kong (Haig, 1981).  
**Key reference.** - Johnson (1970).  
**General distribution.** - East China Sea to tropical Australia; littoral.

**Genus *Neopetrolisthes* Miyake, 1937**

***Neopetrolisthes maculatus* (H. Milne Edwards, 1837)**

- Type locality.** - New Ireland.  
**Occurrence.** - Paracel Islands (Yang, 1983); Nansha Islands (Wang, 1994).  
**Key references.** - Miyake (1982); Yang (1983).  
**General distribution.** - Japan, South China Sea, Marshall Islands, Palau Islands, Fiji Islands and Australia; shallow water, associated with sea anemones, *Styrodactyla* spp.

**Genus *Pachycheles* Stimpson, 1858**

***Pachycheles garciensis* (Ward, 1942)**

- Type locality.** - Diego Garcia, Chagos Archipelago.  
**Occurrence.** - Paracel Islands (Yang, 1983); southwestern Taiwan (Hsieh et al., 1998).  
**Key reference.** - Nakasone & Miyake (1968a).  
**General distribution.** - Chagos Archipelago, Madagascar, Mariana Islands and Ryukyu Islands; shallow water.

***Pachycheles johnsoni* Haig, 1965**

*Type locality.* - Shark Bay, western Australia.

*Occurrence.* - Paracel Islands (Yang, 1983); Nansha Islands (Yang & Zu, 1994).

*Key references.* - Haig (1965; 1966b); Nakasone & Miyake (1968).

*General distribution.* - Australia, Caroline Islands, Marshall Islands and South China Sea; littoral to 29 m.

***Pachycheles pectiniscarpus* Stimpson, 1858**

*Type locality.* - Ly-i-moon Passage near Hong Kong.

*Occurrence.* - Hong Kong (Stimpson, 1907; Haig, 1992).

*Key reference.* - Haig (1966b; 1992).

*General distribution.* - Known only from the vicinity of Hong Kong; littoral.

***Pachycheles pisoides* (Heller, 1865)**

*Type locality.* - Nicobar Islands.

*Occurrence.* - Southwestern Taiwan (Hsieh et al., 1998).

*Key reference.* - Haig (1966b); Nakasone & Miyake (1968a).

*General distribution.* - Ryukyu Islands, Ogasawara Islands, Mariana Archipelago, Caroline Islands, Keramadec Islands, Norfolk Island, Hawaii, Tuamotu Archipelago, Seyshelles, Nicobar Islands and western Australia; littoral, associated with corals.

***Pachycheles pisum* (H. Milne Edwards, 1837)**

*Type locality.* - China.

*Occurrence.* - Guangxi Province, China (Yang & Sun, 1992).

*General distribution.* - China; littoral.

*Key reference.* - Yang & Sun (1992).

*Remarks.* - Although this species has generally been regarded as a junior synonym of *P. sculptus* (H. Milne Edwards, 1837) (cf. Haig, 1966; 1992; Nakasone & Miyake, 1968a), Yang & Sun (1992) considered that it was a valid species.

***Pachycheles sculptus* (H. Milne Edwards, 1837)**

*Type locality.* - Java.

*Occurrence.* - Singapore (Goh et al., 1989); Nansha Islands (Yang & Zu, 1994); southwestern Taiwan (Hsieh et al., 1998).

*Key references.* - Haig (1966b); Nakasone & Miyake (1968a); Yang & Sun (1992).

*General distribution.* - Mergui Archipelago, Australia, Ryukyu Islands, Indonesia and Coraline, Gilbert, Loyalty and Tuamotu Islands; littoral.

***Pachycheles setiferous* Yang, 1996**

*Type locality.* - Nanxun reef (10°10'N, 114°10'E), Nansha Islands.

*Occurrence.* - Type locality (Yang, 1996).

*Key reference.* - Yang (1996).

*General distribution.* - Known only from the type locality; shallow water.

***Pachycheles spinipes* (A. Milne Edwards, 1873)**

*Type locality.* - Upolu, Samoa.

*Occurrence.* - Paracel Islands (Yang, 1983); Nansha Islands (Yang & Zu, 1994).

*Key references.* - Haig (1966b); Yang (1983).

*General distribution.* - Christmas Island, Caroline Islands, Loyalty Islands, Ellice Islands and Samoa; coral reefs.

**Genus *Petrolisthes* Stimpson, 1858**

***Petrolisthes asiaticus* (Leach, 1820)**

**Type locality.** - Mauritius.

**Occurrence.** - Gulf of Thailand (Haig, 1964); Guangxi Province (Yang & Sun, 1992); southwestern Taiwan (Hsieh et al., 1998).

**Key reference.** - Miyake (1942); Kropp (1983).

**General distribution.** - Widely distributed in Indo-West Pacific; littoral.

***Petrolisthes boscii* (Audouin, 1826)**

**Type locality.** - Red Sea.

**Occurrence.** - Hong Kong; Gulf of Thailand (Haig, 1992); Guiangxi Province, China (Yang & Sun, 1992).

**Key references.** - Miyake (1943); Miyake & Nakasone (1966; as *Petrolisthes amakusensis* Miyake & Nakasone, 1966).

**General distribution.** - Indian Ocean, from Red Sea to Mergui Archipelago; western Pacific from Japan to Malay Archipelago and Australia; littoral.

***Petrolisthes carinipes* (Heller, 1861)**

**Type locality.** - Red Sea.

**Occurrence.** - Nansha Islands (Yang & Zu, 1994); southwestern Taiwan (Hsieh et al., 1998).

**Key reference.** - Miyake & Nakasone (1966).

**General distribution.** - Red Sea, India, Japan and Nansha Islands; intertidal to subtidal.

***Petrolisthes coccineus* (Owen, 1839)**

**Type locality.** - Low (=Tuamotu) Islands.

**Occurrence.** - Hong Kong (Haig, 1992).

**Key reference.** - Miyake (1943).

**General distribution.** - Widely distributed in the Indo-Pacific: Japan to Indonesia, and eastern Africa to Tuamotu Archipelago, and Hawaiian Islands; littoral.

***Petrolisthes fimbriatus* Borradaile, 1898**

**Type locality.** - Funafuti; Rotuma Islands.

**Occurrence.** - Nansha Islands; Paracel Islands (Yang & Zu, 1994).

**Key reference.** - Kropp (1983); Osawa (1998).

**General distribution.** - New Guinea, South China Sea, Caroline Islands, Marshall Islands, Ellice Islands, Rotuma, Tonga Islands and Phoenix Islands; littoral.

***Petrolisthes hastatus* Stimpson, 1858**

**Type locality.** - Amami-Oshima Island, Japan; Kikaigashima Island, Japan; littoral.

**Occurrence.** - South China (Wang, 1994); southwestern Taiwan (Hsieh et al., 1998).

**Key references.** - Miyake (1943); Nakasone & Miyake (1971).

**General distribution.** - Widely distributed in the western Pacific; littoral.

***Petrolisthes haswelli* Miers, 1884**

**Type locality.** - Thursday Island; Port Curtis; Facing Island; Torres Strait.

**Occurrence.** - Guangxi Province, China (Yang & Sun, 1992); southwestern Taiwan (Hsieh et al., 1998).

**Key reference.** - Haig (1979); Hsieh et al. (1998).

**General distribution.** - Australia, China, Taiwan and Japan; littoral.

***Petrolisthes japonicus* (De Haan, 1849)**

*Type locality.* - Japan.

*Occurrence.* - Hong Kong (Haig, 1992); South China (Wang, 1994).

*Key references.* - Miyake (1943; 1982).

*General distribution.* - Japan, China, Borneo, Malacca and Mergui Archipelago; littoral.

***Petrolisthes kranjiensis* Johnson, 1970**

*Type locality.* - Tanjong Kranji, Singapore.

*Occurrence.* - Singapore (Johnson, 1970).

*Key reference.* - Johnson (1970).

*General distribution.* - Singapore; littoral.

***Petrolisthes lamarckii* (Leach, 1820)**

*Type locality.* - Not indicated.

*Occurrence.* - Hong Kong (Gordon, 1931; Haig, 1992); Singapore (Johnson, 1970); Paracel Islands (Yang, 1983); Guangxi Province (Wang, 1994); southwestern Taiwan (Hsieh et al., 1998).

*Key reference.* - Kropp (1983).

*General distribution.* - Widely distributed in Indo-West Pacific; littoral.

***Petrolisthes militaris* (Heller, 1862)**

*Type locality.* - Nicobar Islands.

*Occurrence.* - Hong Kong (Haig, 1992); Nansha Islands and Paracel Islands (Yang & Zu, 1994).

*Key reference.* - Miyake (1943).

*General distribution.* - Widely distributed in the Indo-West Pacific; littoral to 110 m.

***Petrolisthes moluccenensis* (De Man, 1888)**

*Type locality.* - Amboina.

*Occurrence.* - Nansha Islands (Yang, 1996); southwestern Taiwan (Hsieh et al., 1998).

*Key references.* - Miyake (1942); Yang (1996).

*General distribution.* - Widely distributed in the Indo-West Pacific; littoral.

***Petrolisthes nanshensis* Yang, 1996**

*Type locality.* - Zhubi Reef (10°50'N, 114°10'E), Nansha Islands.

*Occurrence.* - Type locality (Yang, 1996).

*Key reference.* - Yang (1996).

*General distribution.* - Known only from the type locality.

***Petrolisthes pubescens* Stimpson, 1858**

*Type locality.* - Fu-kow, Amami Oshima, Japan.

*Occurrence.* - Southwestern Taiwan (Hsieh et al., 1998).

*Key reference.* - Kropp (1986).

*General distribution.* - Widely distributed in the Indo-Pacific; littoral.

***Petrolisthes scabriculus* (Dana, 1852)**

*Type locality.* - Sulu Sea, Philippines.

*Occurrence.* - Nansha Islands (Yang & Zu, 1994); southwestern Taiwan (Hsieh et al., 1998).

*Key reference.* - Nakasone & Miyake (1968b).

*General distribution.* - Philippines, Indonesia and Australia; littoral.

***Petrolisthes tomentosus* (Dana, 1852)**

**Type locality.** - Tahiti (according to the neotype designation by Kropp (1986)).

**Occurrence.** - Nansha Islands, Paracel Islands (Yang & Zu, 1994); southwestern Taiwan (Hsieh et al., 1998).

**Key reference.** - Kropp (1986).

**General distribution.** - Widely distributed in Indo-West Pacific; littoral.

**Genus *Pisidia* Leach, 1820**

***Pisidia dispar* (Stimpson, 1858)**

**Type locality.** - Port Jackson, Sydney, Australia.

**Occurrence.** - Hong Kong (Haig, 1992; Wang, 1994); southwestern Taiwan (Hsieh et al., 1998).

**Key reference.** - Nakasone & Miyake (1968a).

**General distribution.** - Australia, southern China, Taiwan and Japan; littoral.

**Remarks.** - Haig (1992) questionably placed *Enosteoides variabilis* Yang & Sun, 1985, in the synonymy of *Pisidia dispar*.

***Pisidia gordonii* (Johnson, 1970)**

**Type locality.** - Nanas Channel north of Pulau Ubin, Singapore.

**Occurrence.** - Singapore; Hong Kong (Haig, 1973; Wang, 1994); Gulf of Thailand (Haig, 1992).

**Key reference.** - Johnson (1970).

**General distribution.** - From east coast of Africa to the East Indian Archipelago, southeast Asian coast as far north as Hong Kong, Australia; intertidal to 72 m.

***Pisidia serratifrons* (Stimpson, 1858)**

**Type locality.** - Hong Kong.

**Occurrence.** - Hong Kong (Stimpson, 1858; Haig, 1992); South China Sea at 28°38'N, 122°25'E (Haig, 1992); Guangxi Province, China (Yang & Sun, 1992).

**Key reference.** - Miyake (1943; as *Porcellana serratifrons*).

**General distribution.** - China, Korea and Japan; shallow water.

**Genus *Polyonyx* Stimpson, 1858**

***Polyonyx biunguiculatus* (Dana, 1852)**

**Type locality.** - Not indicated.

**Occurrence.** - Hong Kong; Gulf of Thailand; Singapore (Haig, 1992).

**Key references.** - Miyake (1942); Johnson (1958).

**General distribution.** - Widely distributed in the Indo-West Pacific; shallow water.

***Polyonyx obesulus* Miers, 1884**

**Type locality.** - Madjicosima Isle (=Sakishima Islands, Ryukyu Islands).

**Occurrence.** - Singapore (Johnson, 1958); Hong Kong; Gulf of Thailand (Haig, 1992); Nansha Islands (Yang & Zu, 1994).

**Key reference.** - Johnson (1958).

**General distribution.** - Widely distributed in the Indo-West Pacific; littoral, free living.



***Polyonyx parabiunguiculatus* Yang, 1996**

**Type locality.** - Banyue reef (8°50'N, 116°20'E).  
**Occurrence.** - Type locality (Yang, 1996).  
**Key reference.** - Yang (1996).  
**General distribution.** - Known only from the type locality.

***Polyonyx plumatus* Yang & Zu, 1994**

**Type locality.** - Nansha Islands.  
**Occurrence.** - Type locality (Yang & Zu, 1994).  
**Key reference.** - Yang & Zu (1994).  
**General distribution.** - Known only from the type locality.

***Polyonyx sinensis* Stimpson, 1858**

**Type locality.** - "In mari Sinensi, lat. bor. 23°".  
**Occurrence.** - Type locality (Stimpson, 1858).  
**Key reference.** - Johnson (1958).  
**General distribution.** - China.

***Polyonyx triunguiculatus* Zehntner, 1894**

**Type locality.** - Amboina.  
**Occurrence.** - Singapore (Johnson, 1958); Nansha Islands (Yang, 1996).  
**Key reference.** - Johnson (1958).  
**General distribution.** - Indian Ocean including the Red Sea and western Pacific from Sumatra, Singapore and Indonesia; at depths of 7-67 m.

**Genus *Porcellana* Lamarck, 1801**

***Porcellana habei* Miyake, 1961**

**Type locality.** - Amakusa, Kyushu, Japan.  
**Occurrence.** - Nansha Islands (Yang & Zu, 1994).  
**Key reference.** - Miyake (1961).  
**General distribution.** - Japan, China, Nansha Islands and Australia; shallow water.

***Porcellana pulchra* Stimpson, 1858**

**Type locality.** - Hong Kong.  
**Occurrence.** - Hong Kong (Stimpson, 1858); South China (Wang, 1994).  
**Key reference.** - Miyake (1943).  
**General distribution.** - Hong Kong, Yellow Sea, Korean Strait, northern China and Japan; shallow water.

**Genus *Porcellanella* White, 1852**

***Porcellanella triloba* White, 1852**

**Type locality.** - North Australia.  
**Occurrence.** - Hong Kong; Singapore (Johnson, 1970); Viet Nam; Gulf of Thailand (Haig, 1981; 1992); Nansha Islands (Yang & Zu, 1994).  
**Key reference.** - Sankarankutty (1961b).  
**General distribution.** - Widely distributed in the Indo-West Pacific; at depths of 30-70 m.

**Genus *Pseudoporcellanella* Sankarankutty, 1961**

***Pseudoporcellanella manoliensis* Sankarankutty, 1961a**

**Type locality.** - Gulf of Manaar, southern India.

**Occurrence.** - Singapore; Gulf of Thailand (Ng & Nakasone, 1994).

**Key reference.** - Ng & Nakasone (1994).

**General distribution.** - Gulf of Manaar, Singapore, Thailand, Malay Peninsula and Sunda Shelf; shallow water.

**Genus *Raphidopus* Stimpson, 1858**

***Raphidopus ciliatus* Stimpson, 1858**

**Type locality.** - "... in a bay on the coast of China opposite Hong Kong" (Stimpson, 1907).

**Occurrence.** - Hong Kong (Stimpson, 1907); Guangxi Province, China (Yang & Sun, 1992); Singapore (Ng & Nakasone, 1994).

**Key reference.** - Ng & Nakasone (1994).

**General distribution.** - Southern China, Singapore, Australia and Japan; shallow water.

***Raphidopus johnsoni* Ng & Nakasone, 1994**

**Type locality.** - Lim Kang road end, Singapore.

**Occurrence.** - Type locality (Ng & Nakasone, 1994).

**Key reference.** - Ng & Nakasone (1994).

**General distribution.** - Known only from the type locality; mangrove swamps.

Superfamily HIPPOIDEA

Family ALBUNEIDAE

**Genus *Albunea* Fabricius, 1793**

***Albunea symnista* (Linnaeus, 1767)**

**Type locality.** - Asia.

**Occurrence.** - South China (Wang, 1994).

**Key references.** - Serène & Umali (1965); Miyake (1978).

**General distribution.** - Widely distributed in the Indo-West Pacific; 10-26 m.

**Genus *Paralbunea* Serène, 1979**

***Paralbunea dayriti* Serène & Umali, 1965**

**Type locality.** - Philippines.

**Occurrence.** - Hainan Island (Sun & Wang, 1996).

**Key reference.** - Serène & Umali (1965).

**General distribution.** - Philippines and Hainan Island, China; shallow water.

Family HIPPIDAE

Genus *Hippa* Fabricius, 1787

*Hippa adactyla* Fabricius, 1787

**Type locality.** - Coff's Harbour, New South Wales, Australia [restricted by neotype designation by Haig (1970)].

**Occurrence.** - Paracel Islands (Sun & Wang, 1996).

**Key reference.** - Miyake (1978).

**General distribution.** - Madagascar, India, Marquesus Islands, Australia, China, Taiwan and Japan; littoral.

*Hippa pacifica* (Dana, 1852)

**Type locality.** - The type series came from three different localities in the Pacific Ocean: Ovalau Island, Fiji Islands; Sandwich Islands; Samoa Islands.

**Occurrence.** - Paracel Islands (Sun & Wang, 1996).

**Key reference.** - Miyake (1978).

**General distribution.** - Widely distributed in the Indo-West Pacific; littoral.

Genus *Mastigopus* Stimpson, 1858

*Mastigopus gracilis* Stimpson, 1858

**Type locality.** - "In mari Sinensi, lat. bor. 23°".

**Occurrence.** - Type locality (Stimpson, 1858); Hainan Island (Sun & Wang, 1996).

**Key reference.** - Miers (1879); Sun & Wang (1996).

**General distribution.** - China; shallow water.

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