

A CHECKLIST OF THE CIRRIPEDIA OF THE SOUTH CHINA SEA

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ABSTRACT. - A checklist of published records of the barnacles (Cirripedia: Thoracica) of the South China Sea is presented, with 315 species belonging to 76 genera and 21 families recorded. The South China Sea cirripede fauna is tropical and subtropical in nature. A small group of species exhibits cosmopolitan distributions but the majority of species are either widely distributed in the Indo-West Pacific faunal province or in the Indo-Australian sub-faunal province. A small group of species have western Pacific affinities. Another small group of species is restricted to the South China Sea, and there is also an endemic element of the Sino-Japanese region.

KEY WORDS. - Barnacles, Cirripedia, South China Sea

INTRODUCTION

The systematic arrangement used here reflects inferred phylogenetic relationships within the Cirripedia (Thoracica). The sequence is based mainly upon that given by Newman (1996) and also accommodates a more recent generic revision of the Verrucidae (Young, 1998). Genera and species are arranged alphabetically within each family. Each species is entered under the current *binomen*. This is followed by the author's name, date of publication and page number. The original combination and known synonyms are also listed. Geographic distributions are recorded by general areas, noted from west to east and south to north, with localities in the South China Sea additionally specified where possible. Where uncertainty regarding some species records exist, these are recorded with a query and a note. Bathymetric ranges, substrate types and hosts are noted where possible. More extensive information concerning hosts is essential to understanding the habitat and the geographic range of epizoic species as well as the microhabitats they occupy on their hosts. A reference number refers to the Literature Cited list at the end of the paper. The latter comprises taxonomic papers, which provide species descriptions, diagnostic drawings, anatomical and whole specimen descriptions, taxonomic keys and the names of repositories where specimens are held; general geographical distributional literature; and some taxonomy-related ecological and biological papers.

Biogeography. - The cirripedian fauna of the South China Sea is tropical and subtropical in nature. Some species are typically tropical (eg *Lithotrya valentiana*, *Octolasmis grayi*, *Creusia spinulosa*, *Savignium crenatum*), with many associated with either coral reefs or occurring epizoically on marine vertebrates and invertebrates.

The majority of South China Sea barnacle species are either widely distributed in the Indo-west Pacific faunal province, or in the Indo-Australian sub-province of the Indo-west Pacific region (ie the area defined by the Indo-Malayan Archipelago, Australia and New Guinea, to Japan). Indo-west Pacific species may be recorded from east African shores through to the Pacific Ocean, as well as from Australia, through the South China Sea to Japan (eg *Iblacumingi*, *Altiterruca cristallina*, *Chthamalus malayensis*). Examples of Indo-Australian species are *Calantica trispinosa*, *Rostratoverruca krugeri* and *Euacasta dofleini*.

A group of species found in the South China Sea has a cosmopolitan distribution (eg *Lepas (Anatifa) pectinata*, *Conchoderma virgatum*, *Platylepas hexastylus*), some of which are well known fouling species (eg *Balanus amphitrite*, *Balanus trigonus*, *Megabalanus tintinnabulum*). A small group of species is restricted to the South China Sea (eg *Paralepas robusta*, *Scalpellum typicum*, *Pachylasma chinense*, *Conopea canaliculatus*). There is also an endemic element of the Sino-Japanese region, which includes some warm-water species occurring in the East and the South China Seas and in waters of southern Japan (eg *Heteralepas smilii*, *Koleolepas avis*, *Conopea granulata*, *Neoacasta coriobasis*), as well as a small group of species which have western Pacific affinities (eg *Temnaspis kilepoe*, *Octolasmis hawaiiense*, *Solidobalanus (Solidobalanus) hawaiiensis*).

Dong et al. (1980), in a study of the Cirripedia of the China Sea, listed 80 species belonging to 29 genera in 13 families, 71 of which were recorded from the South China Sea. The checklist presented herein records 316 species belonging to 76 genera in 21 families.

CHECKLIST OF THE BARNACLES (CIRRIPEDIA: THORACICA) OF THE SOUTH CHINA SEA

CLASS MAXILLOPODA Dahl, 1956

SUBCLASS CIRRIPEDIA Burmeister, 1834 (= Cirrhipèdes Lamarck, 1806)

SUPERORDER THORACICA Darwin, 1854

ORDER PEDUNCULATA Lamarck, 1818

Suborder Heteralepadomorpha Newman, 1987

Family Heteralepadidae Nilsson-Cantell, 1921

Genus *Heteralepas* Pilsbry, 1907

Heteralepas cornuta (Darwin, 1851: 165)

Cosmopolitan: Atlantic Ocean (off St Vincent, W. Indies); Indo-Pacific: Indian Ocean; Andaman Is; Philippines; attached to echinoid spine; 90-4315 m. (128, 195, 333, 349, 449, 451, 459, 500, 501, 547, 592); (86, as *Alepas cornuta*); (42, as *Heteralepas (Heteralepas) cornuta*).

***Heteralepas gigas* Annandale, 1905: 80**

Malay Arch.; 238-915 m.
(18, 364, 592); (80, as *Alepes gigas*).

***Heteralepas japonica* (Aurivillius, 1892: 125)**

Indo-west Pacific: W and E Indian Ocean; Australia; Indonesia; Malay Arch.; Condor Is; S China Sea; China; Philippines; Japan; NE New Zealand; fouling species; 48-500 m. (44, 46, 95, 112a, 124, 169b, 182, 205, 279, 303, 347, 349, 364, 365, 367, 372, 400, 451, 522, 520, 547, 592); (22, 23, 128, as *Alepes japonica*); (39, as *Heteralepas* (*Heteralepas*) *dubia*); (128, as *Alepes indica*).

***Heteralepas smilius* Ren, 1983: 86**

S China Sea (18°30'N, 111°30'E); E China Sea (27°30'N, 126°00'E); attached to antipatharians, hydroids; 162-217 m. (425, 205).

Genus *Paralepas* Pilsbry, 1907

***Paralepas distincta* Utinomi, 1949: 26**

Taiwan; Japan; epizoic on *Panulirus japonicus* (Von Siebold); shallow water. (512, 528, 592).

***Paralepas lithotryae* (Hoek, 1907: 39)**

Indo-west Pacific: Indian Ocean; Malay Arch.; Philippines; attached to cirripedes (*Lithotrya* sp., *Lithotrya nicobarica*); littoral. (372, 333, 592); (197, as *Alepes lithotrya*); (442, as *Paralepas lithotryae*).

***Paralepas morula* (Hoek, 1907: 35)**

Flores Sea; Philippines; Bass Strait, N of Tasmania; attached to spines of *Porocidaris elegans*; 182-538 m. (450, 592); (197, as *Alepes morula*); (39, as *Heteralepas* (*Paralepas*) *morula*).

***Paralepas malaysiana* (Annandale, 1905 : 81)**

Gaspar Straits, Malay Arch.; 55 m. (592); (3, as *Alepes malaysiana*); (7, as *Heteralepas malaysiana*); (18, as *Heteralepas* (*Paralepas*) *malaysiana*).

***Paralepas nodulosa* (Broch, 1922: 286)**

Indo-west Pacific: Indian Ocean; Malay Arch.; E and S China Seas; Philippines; attached to spines of *Cidaris* sp.; 110-546 m. (205, 303, 333, 433, 451, 592); (39, as *Heteralepas* (*Paralepas*) *nodulosa*).

***Paralepas quadrata* (Aurivillius, 1894: 30)**

Java Sea; Taiwan; China; Philippines; Japan; N New Zealand; ? Californian coast; epizoic on decapods (crabs and lobsters); 0-150 m.

(95, 96, 112a, 182, 185, 192, 205, 442, 512, 520, 528, 535, 592); (23, as *Alepas quadrata*); (164, as *Heteralepas (Heteralepas) pernconicola*); 181, as *Heteralepas (Heteralepas) quadrata*); (333, as *Heteralepas quadrata*).

***Paralepas robusta* Rosell, 1981: 289**

NE of Lubang I., Philippines (14°02.2'N, 120°17.7'E); attached to echinoid spine; 184-193 m.

(449).

***Paralepas scutiger* (Broch, 1922: 184)**

Philippines; Japan; 728 m.

(451, 592); (39, as *Heteralepas (Paralepas) scutiger*).

Family Koleolepadidae Hiro, 1933

Genus *Koleolepas* Stebbing, 1900

***Koleolepas avis* (Hiro, 1931: 147)**

China, Japan; attached to molluscs (eg *Eusinus nodoplicatus*) and crustaceans (eg *Pagurus arrosor*); 20-100 m.

(169a, 183, 205, 303, 522, 538, 592); (164, as *Heteralepas (Heteralepas) avis*).

Suborder Iblomorpha Newman, 1987 (= Prothoracica Anderson, 1994: 332)

Family Iblidae Leach, 1825 (= Iblinae Pilsbry, 1907)

Genus *Ibla* Leach, 1825

***Ibla cumingi* Darwin, 1851: 183**

Indo-west Pacific: Red Sea; Persian Gulf; Madagascar; N, W and E Indian Ocean; Australia; Borneo; Sumatra; Sunda Is; Malay Arch.; Gulf of Thailand; Ream and Fu Kuoh Is (Cambodia); Condor Is; Lien Chien, Tourane; S China Sea; Hong Kong; China; Taiwan; Philippines; S Japan (S Honshu; Kyushu and Ryukyu Is); Palao Is.; littoral.

(9, 19, 44, 46, 84, 86, 95, 96, 111, 113b, 178, 181, 182, 183, 203, 205, 211, 291, 303, 329a, 333, 347, 354, 364, 372, 433, 440, 442, 512, 520, 528, 535, 537, 547, 583a, 592); (13, as *Ibla cumingi* f. *siboga*); (196, as *Ibla sibogae*).

Suborder Lepadomorpha Pilsbry, 1916
Family Oxynaspididae Gruvel, 1905
Genus *Oxynaspis* Darwin, 1851

***Oxynaspis* sp.**

China.
(95).

***Oxynaspis aurivillii* Stebbing, 1900: 675**

Indo-west Pacific: Dar-es-Salaam; Gulf of Aden; Gulf of Thailand; Macclesfield Bank, S China Sea; China; Bonin Is, Japan; New Britain; attached to *Antipatharia* spp; 10-453 m. (468, 113b, 183, 205, 320, 339, 347, 430, 492, 508, 592).

***Oxynaspis bocki* Nilsson-Cantell, 1921: 228**

China; Philippines; Japan; attached to antipatharians; 150-300 m. (347, 183, 205, 303, 339, 449, 508, 592).

***Oxynaspis celata* Darwin, 1851**

Cosmopolitan in tropical and warm temperate seas: W. Indies; Madeira; Indian Ocean; off Mauritius; Bay of Bengal; W & N Australia; Malay Arch.; Condor Is; C. St Jacques (Cochinchina); Cauda Nhatrang; China; Luzon, Philippines; S Japan; SW Pacific (off New Zealand); fouling and attached to *Antipatharia* and *Sertularia* spp; 50-1425 m. (86, 112a, 128, 183, 347, 367, 339, 522, 580, 592); (7, as *Oxynaspis celata indica*); (39, as *O. celata japonica*); (46, as *Oxynaspis celata indica*); (176, as sub sp. *indica*); (372, as *Oxynaspis celata indica*); (451, as *Oxynaspis indica*); (508, as *O. celata hirtae*, as *Oxynaspis celata indica*).

***Oxynaspis connectens* Broch, 1931: 34**

Indonesia; Philippines (NE Lubang I.); SW Pacific; attached to antipatharians; 183-245m. (44, 449, 451, 592); (508, *O. cancelatae*).

***Oxynaspis faroni* Totton, 1940: 483**

Red Sea; China; attached to antipatharians (eg *Antipathes lentispina* Brook); 20 m. (508, 205, 592).

***Oxynaspis granti* Totton, 1940: 480**

S of Penang; attached to antipatharian.
(508, 339, 592).

***Oxynaspis pacifica* Hiro, 1931: 143**

S China Sea ; China; Taiwan; Japan; attached to antipatharians.
(95, 96, 164, 183, 182, 192, 193, 205, 339, 512, 520, 528, 535, 579, 592).

***Oxynaspis reducens* Foster, 1982: 221**

Fung Head, Sai Kung Pen., Hong Kong; China; attached to antipatharians (*Antipathella japonica*, *Cirripathes anguinus*); 12 m. (113b, 205).

Family Poecilasmatidae Annandale, 1909

Genus *Poecilasma* Darwin, 1851

***Poecilasma kaempferi kaempferi* Darwin, 1851: 102**

Cosmopolitan in tropical and warm temperate waters: Atlantic Ocean; Indian Ocean; Malay Arch.; S China Sea; China; Japan; S Pacific Ocean; usually attached to decapods (eg *Geryon trispinosus* (Herbst)); 19-1885 m.

(7, 27, 39, 86, 115, 126, 128, 185, 205, 303, 347, 349, 396, 492, 512, 520, 592); (44, 169b, as *Poecilasma kaempferi* forma *eu-kaempferi*); (112a, 182, 183, 495, as *Trilasmis (Poecilasma) kaempferi* (Darwin)); (196, as *Poecilasma dubium*); (279, as *Poecilasma kaempferi* var. *dubium*); (372, as *Trilasmis kaempferi*); (392, as *Poecilasma kaempferi novaeangliae*); (392, as *Poecilasma inaequilaterale*); (554, as *Poecilasma kaempferi* var. *aurantium* Darwin).

***Poecilasma kaempferi dubium* (Hoek, 1907: 6)**

Indo-west Pacific: Indian Ocean (Gulf of Manaar); Indonesia (Banda Sea); Philippines (off Batangas).

(450, 451, 592); (196, as *Poecilasma dubium*); (7, as *Poecilasma kaempferi* subsp. *dubium*); (279, as *Poecilasma kaempferi* var. *dubium*).

***Poecilasma litum* Pilsbry, 1907: 85**

Cosmopolitan: China; SE Pacific; attached to decapods (eg *Cervimunida princeps* Benedict); 150-1866 m.

(205, 303, 592); (7, 392, 580, as *Poecilasma kaempferi* subsp. *litum*); (309b, as *Poecilasma kaempferi*).

***Poecilasma obliqua* Hoek, 1907: 12**

S of Kur and Taam Is, Malay Arch.; S China Sea; China; Japan; attached to decapods (eg *Geryon trispinosus* (Herbst), *Macrocheira kaempferi* (de Haan)); 204-864 m.

(205, 303, 592); (196, as *Poecilasma obliquum*); (44, as *Temnaspis obliqua*); (182, 183, as *Trilasmis (Poecilasma) obliquum*); (279, as *Poecilasma (Trilasmis) obliquum*).

Genus *Glyptelasma* Pilsbry, 1907

***Glyptelasma annandalei* Pilsbry, 1907: 89**

E Africa; Indian Ocean; Malay Arch.; China; E China Sea; mid Pacific Ocean; 1115-1557m. (205, 287, 303, 350, 372, 433, 592); (59, 392, as *Megalasma annandalei*); (59, as *Megalasma (Glyptelasma) annandalei*).

***Glyptelasma carinatum* (Hoek, 1883: 44)**

Cosmopolitan - W Indies; N Atlantic Ocean; S. Africa; Malay Arch.; S China Sea; SE Pacific Ocean; 60-2865 m.

(27, 44, 57, 112a, 392, 395, 580); (195, as *Poecilasma carinatum*); (196, as *Poecilasma carinatum*); (347, as *Poecilasma (Glyptelasma) carinatum*); (592, as *Megalasma (Glyptelasma) carinatum*).

***Glyptelasma gigas* (Annandale, 1916: 299)**

Indian Ocean; Australia; Malay Arch.; Indonesia; fouling; 236-1092 m.

(358, 372); (18, as *Poecilasma gigas*); (59, 350, 592, as *Megalasma (Glyptelasma) gigas*).

***Glyptelasma gracile* (Hoek, 1883: 46)**

E Indian Ocean; Australia; Indonesia (Sumbawa); Malay Arch; Philippines (NW Panay I.); 395-935 m.

(372, 451); (195, as *Poecilasma gracile*); (392, as *Megalasma gracile gracilus*); (592, as *Megalasma (Glyptelasma) gracile*).

***Glyptelasma hamatum* Calman, 1919: 370**

Atlantic Ocean; Indian Ocean; Singapore; China; Pacific Ocean; fouling; 366-3660m.

(112a, 205, 303, 349, 358, 365); (59, 592, as *Megalasma (Glyptelasma) hamatum*).

***Glyptelasma pilsbryi* (Calman, 1919: 365)**

Cosmopolitan: Atlantic Ocean; Indian Ocean; Australia; Malay Arch; Pacific Ocean; mid Pacific guyots; 910-2730 m.

(287, 350, 372); (59, 592, as *Megalasma (Glyptelasma) pilsbryi*).

Subgenus *Megalasma* Hoek, 1883

***Megalasma minus* Annandale, 1906b: 399**

Cosmopolitan: Atlantic Ocean; Indo-west Pacific; E coast of Africa (Zanzibar); Indian Ocean; Indonesia; Malay Arch; Philippines; S Japan; Pacific Ocean; 295-2050 m.

(27, 39, 59, 350, 372, 451); (5a, as *Megalasma striatum minus*); (7, as *Megalasma minus* Race I, II (*M. bellum*)); (196, as *M. lineatum*); (392, as *Megalasma bellum*); (396, as *Poecilasma bellum*); (592, as *Megalasma (Megalasma) minus*).

***Megalasma striatum* Hoek, 1883: 51**

Indo-west Pacific: Indian Ocean; N Australia; Indonesia; Malay Arch.; China; Philippines; S Japan to New Zealand, SW Pacific; attached to echinoids (eg *Stylocidaris annulosa*) and antipatharians (*Antipathes* sp.); 125-984 m.

(39, 44, 95, 96, 112a, 128, 183, 195, 196, 205, 303, 372, 431, 449, 450, 451, 522); (592, as *Megalasma (Megalasma) striatum*).

Genus : *Temnaspis* Fischer, 1884

***Temnaspis amygdalum* (Aurivillius, 1894: 10)**

Indo-west Pacific: Indian Ocean; Madagascar through Malaysia, Hong Kong, S China Sea; China; Taiwan; Philippines; Japan; tropical W and central Pacific Ocean to Fiji and Hawaii; attached to decapods (*Panulirus stimpsoni* Holthuis, 1963, *Panulirus japonicus* (Von Siebold)).

(95, 96, 113b, 205, 303, 329a, 372, 433, 592); (23, 128, 347, as *Poecilasma amygdalum*); (7, as *Poecilasma fissum* Darwin); (111, 182, 183, 372, 512, 528, as *Trilasmis (Temnaspis) amygdalum* (Aurivillius)); (196, as *Poecilasma fissum* Darwin); (347, as *Poecilasma amygdalum madagascariense*); (406, as *Trilasmis fissum hawaiiense* Pilsbry).

***Temnaspis bathynomi* (Annandale, 1906: 45)**

Indian Ocean; S China Sea; attached to pleopods of isopods (*Bathynomus giganteus* A. Milne-Edwards); 327-1086 m.

(5b, 205, 303, 372, 541, 592); (7, as *Dichelaspis bathynomi*).

***Temnaspis donghaiense* (Du & Zhu, 1986), nomen nudum**

China.

(205).

Du & Zhu (1986) named this taxon as *Trilasmis (Temnaspis) donghaiense* from specimen(s) in the East China Sea. As no description was appended, the name is effectively a nomen nudum.

***Temnaspis excavatum* (Hoek, 1907: 10)**

Indo-west Pacific: E Africa (Zanzibar); Gulf of Aden; Indonesia; Malay Arch.; China; Philippines; Goto Is (S Japan); attached to echinoid spines (*Pleistacantha sanctijohannis*, *Echinoplax pungens*), to crustaceans (*Puerulus angulatus* (Bate), *Ibacus ciliatus* (Siebold), *Macrocheira kaempfer* Temminck, *Carcinoplax longimanus* (de Haan), *Bathynomus giganteus* A. Milne-Edwards, palinurid cirripedes (*Heteralepas japonica*); 200-500 m.

(95, 96, 185, 205, 303, 449, 451, 493, 592); (196, as *Poecilasma excavatum*); (44, as *Temnaspis excavatum*); (46, as *Temnaspis tridens* forma *asymmetrica*); (182, 183, as *Trilasmis (Temnaspis) excavatum*); (371, as *Trilasmis excavatum*); (492, as *Dichelaspis (Dichelaspis) tridens*); (348, 492, as *Poecilasma (Temnaspis) excavatum*); (554, as *Poecilasma tridens*).

***Temnaspis fissum* Darwin, 1851: 109**

Ternate, Halmahera I., Indonesia; Philippines; New Caledonia; Port Jackson, New South Wales, Australia; Jaluit; Marshall Is; Honolulu, Hawaii; attached to crustaceans (crabs, *Palinurus* spp).

(196, 442, 592, 551a); (86, as *Poecilasma fissa*).

***Temnaspis kilepoeae* Zevina, 1968: 38**

China; W Pacific; attached to *Thenus* sp.

(205, 303, 579, 580, 592).

***Temnaspis lenticula* (Aurivillius, 1894: 12)**

Indo-west Pacific: Indian Ocean; Malagasy (Madagascar); Java Sea; Malay Arch., Philippines; attached to crustaceans (*Palinurus* sp., anomuran crabs). (372, 442, 592); (23, 128, as *Poecilasma lenticula*); (10, 196, as *Poecilasma fissum*); (347, 358, as *Poecilasma (Trilasmis) lenticula*); (440, as *Trilasmis (Temnaspis) lenticula*).

***Temnaspis tridens tridens* (Aurivillius, 1894: 14)**

S Atlantic; Indo-west Pacific: E Indian Ocean; Bay of Bengal; Singapore; Gaspar Str.; Malay Arch.; Gulf of Thailand; Bay of Tonkin; Condor Is; China; Philippines; SW Pacific; attached to gill chamber, mouthparts and carapace of decapods (*Charybdis cruciata*, *Charybdis anisodon*, *Charybdis natator*, *Myomenippe hardwicki*, *Ovalipes punctatus* (de Haan), *Podophthalmus vigil*, *Portunus pelagicus*, *Portunus sanguinolentus*, *Portunus trituberculatus* Miers, *Thalamita crenata*, *Thalamita spinimana*, *Thenus orientalis* (Lund)); 16-296 m. (9, 10, 205, 218, 222, 303, 319, 365, 372, 541, 580, 592); (23, 128, 347, as *Poecilasma tridens*); (7, as *Dichelaspis tridens*); (27, 113b, 364, 501, as *Octolasmis tridens*); (46, as *Temnaspis tridens tridens* (Aurivillius)); (46, 579, as *Temnaspis tridens*); (128, 291, as *Dichelaspis oclusa*); (449, 450, 495, as *Trilasmis (Temnaspis) tridens*); (492, as *Dichelaspis (Dichelaspis) tridens*).

***Temnaspis tridens asymmetrica* Broch, 1947: 20**

Condor Is.
(592); (46, as *Temnaspis tridens tridens* (Aurivillius)).

Genus *Octolasmis* Gray, 1825

***Octolasmis aperta* (Aurivillius, 1894: 24)**

Java Sea; Philippines; gill chambers of decapods; shallow water.
(23, 442).

***Octolasmis angulata angulata* (Aurivillius, 1894: 22)**

Indo-west Pacific: Indian Ocean; Malay Arch.; Singapore; Hong Kong; China; Philippines; Japan; attached to gills and mouthparts of a variety of decapods (eg. *Atergatis integerrimus*, *Charybdis cruciata*, *Charybdis natator*, *Camposcia retusa*, *Charybdis truncata*, *Etisus utilis*, *Lophozozymus pictor*, *Menippe rumphii*, *Myomenippe hardwicki*, *Podophthalmus vigil*, *Portunus pelagicus*, *Portunus sanguinolentus*, *Thalamita crenata*, *Thalamita danae*, *Thalamita exaratus*, *Thalamita spinimana*); shallow water.
(23, 95, 96, 113b, 182, 205, 222, 224, 218, 303, 365, 367, 372, 440, 535, 541, 579, 580, 592); (5b, as *Dichelaspis transversa*); (7, 128, as *Dichelaspis angulata*); (7, 128, as *Dichelaspis aperta*); (128, as *Dichelaspis cuneata*).

***Octolasmis bullata* (Aurivillius, 1892: 125) check 1894: 26**

Indo-west Pacific: Indian Ocean; Java; Singapore; Malay Arch.; China; Philippines; Japan; attached to gills of decapods (eg *Panulirus polyphagus* (Herbst), *Panulirus stimpsoni* Holthuis); shallow water.
(205, 222, 303, 541); (22, as *Dichelaspis bullata*); (7, 23, as *Dichelaspis angulata*); (96, 113b, 365, 537, as *Octolasmis angulata bullata*); (182, 537, as *Octolasmis angulata f. bullata*); (442, as *Octolasmis (Octolasmis) angulata f. bullata*).

***Octolasmis carpilii* Rosell, 1967: 296**

Philippines; attached to protopodite of cheliped of decapods; shallow water. (440, 541).

***Octolasmis clavula* Hiro, 1936: 224**

Indo-west Pacific: Persian Gulf; Malay Arch.; Japan (Ogasawara Is); attached to maxillipeds of decapods (eg. *Acanthides armatus*); shallow water (16-135 m). (177, 182, 541, 592).

***Octolasmis collare* Jeffries, Vorris & Man, 1988: 111**

Singapore Straits, Tuas, Singapore; attached to gill chamber and mouthparts of decapods; shallow water. (218, 219, 541).

***Octolasmis cor* (Aurivillius, 1892: 124)**

Indo-west Pacific: S. Africa; Indian Ocean; Singapore; Malay Arch.; China; Philippines; Japan; Moen I., Truk, Carolines; attached to gill chamber of decapods (eg. *Charybdis cruciata*, *Panulirus* spp, *Podophthalmus vigil*, *Scylla serrata*, *Thalamita crenata*, *Thalamita spinimana*, *Thalamita sima*); shallow water. (9, 27, 205, 218, 220, 221, 222, 223, 224, 303, 318, 319, 333, 372, 440, 487, 541, 579, 580, 592); (7, 22, 23, as *Dichelaspis cor*); (128, as *Dichelaspis maindroni*); (128, as *Dichelaspis coutierei*).

***Octolasmis geryonophila* Pilsbry, 1907: 94**

NW Atlantic; Caribbean; Indian Ocean; China; 19°21.3'N, 114°04.4'E, attached to gill chambers of decapods (eg. *Bathynectes superbis*, *Geryon trispinosus*, *Geryon quinquedens*); 407-1877m. (63, 150, 182, 205, 303, 541, 592); (336, 392, as *Octolasmis aymonini geryonophila*); (7, as *Dichelaspis geryonophila*); (7, as *Dichelaspis geryonophila* var. *fissicarina*); (336, as *Octolasmis aymoni fissicarina*).

***Octolasmis grayi* (Darwin, 1851: 123)**

Tropical Indo-west Pacific Oceans; pelagic; attached to body and paddle tail of sea snakes. (7, 128, 195, 354, 365, 182, 372, 541, 592); (86, as *Dichelaspis grayi*); (86, as *Dichelaspis pellucida*).

***Octolasmis hawaiiense* (Pilsbry, 1907e: 184)**

Philippines; Japan; mid N and W Pacific; off Hawaii; gill chambers of decapods; 367-400 m. (392, 396, 451, 541, 592).

***Octolasmis iloiloensis* Rosell, 1967: 291**

Philippines; gill chambers of decapods; shallow water. (440).

***Octolasmis lowei* (Darwin, 1851a: 128)**

Atlantic Ocean; Indo-west Pacific: Indian Ocean; Australia; Malay Arch.; Taiwan; Japan; gill chambers of decapods; shallow water to 500 m.
(194, 218, 222, 349, 365, 372, 440, 592); (86, as *Dichelaspis lowei*); (23, as *Dichelaspis sinuata*); (23, as *Dichelaspis trigona*); (128, as *Dichelaspos lowei*); (128, as *Dichelaspos darwini*); (128, as *Dichelaspos sinuata*); (334, as *Octolasmis californiana*).

***Octolasmis lowei philippinensis* Rosell, 1972: 168**

Batangas Channel, Puerto Galera, Oriental Mindoro, Philippines; attached to maxillipeds of brachyuran decapod (*Etisus splendidus* Rathbun).
(442).

***Octolasmis neptuni* (MacDonald, 1869: 442)**

Indo-west Pacific: Suez; Durban, S Africa; Australia (Moreton Bay; Sydney); Singapore; Hong Kong; China; Mutu Bay, Turuga Bay, Pusan, Korea; Taiwan; Japan (Matsu Bay); gill chambers of decapods (eg. *Charybdis natator*, *Dromia dehaani* Rathbun, *Myomenippe hardwicki*, *Panulirus stimpsoni* Holthuis; *Podophthalmus vigil*, *Portunus pelagicus*, *Portunus trituberculatus* Miers, *Ovalipes punctatus* (de Haan), *Thalamita crenata*, *Thenus orientalis* (Lund): 12-300 m.
(95, 96, 113b, 205, 222, 303, 329a, 541, 535, 537, 564, 580, 592); (309a, as *Paradolepas neptuni*); (7, as *Dichelaspis sinuata* (part)); (27, as *Dichelaspis neptuni* (part)); (123, 128, as *Dichelaspis vaillanti*); (23, 123, 128, as *Dichelaspis neptuni*); (182, 194, as *Octolasmis lowei* forma *neptuni*); 27, as *Octolasmis neptuni* (part)); (336, as *Octolasmis*(*Octolasmis*) *neptuni neptuni*).

***Octolasmis nierstraszi* (Hoek, 1907; 21)**

Indo-west Pacific: Red Sea; E Africa (off Mombasa); Indian Ocean; Muskat, Persian Gulf; Gulf of Aden; Maldives; Bay of Bengal; Australia; Indonesia (Bay of Bima); Malay Arch.; China Sea; China; Philippines; S Japan; attached to stems and branches of horny coral; shallow water.
(44, 182, 183, 303, 347, 349, 364, 365, 372, 205, 451, 534, 535, 541, 579, 580, 592); (196, as *Dichelaspis nierstraszi*); (492, as *Dichelaspis* (*Octlasmis*) *nierstraszi*).

***Octolasmis orthogonia* (Darwin, 1851: 130)**

Indo-west Pacific: E and S African Coast; Indian Ocean; Australia; Indonesia; Malay Arch.; off Vietnam; China; E China Sea; S Japan; attached to hydroids or stems of horny corals; sometimes fouling; 14-818 m.
(44, 95, 96, 185, 194, 205, 303, 348, 350, 372, 400, 431, 451, 496, 535, 541, 579, 580, 592); (86, 128, 196, 547, 554, as *Dichelaspis orthogonia*); (27, 169b, 183, 279, 537, as *Octolasmis weberi* Hoek); (39, 169b, as *Octolasmis orthogonia*); (182, as *Octolasmis weberi pennatulae* Hiro); (196, as *Dichelaspis weberi*); (196, as *Dichelaspis versluyssi*); (449, as *Octolasmis* (*Dichelaspis*) *orthogonia*).

***Octolasmis scuticosta* Hiro, 1939a: 238**

China; Taiwan; Japan ; attached to antennae and mouthparts of decapods (eg *Ranina ranina*); shallow water.
(95, 96, 192, 205, 541, 592).

***Octolasmis trigona* (Aurivillius, 1894: 19)**

Atlantic Ocean; Indo-west Pacific; Indian Ocean; Australia; Malay Arch.; Taiwan; Japan; gill chambers of decapods; shallow water.

(23, as *Dichelaspis trigona*); (442, as *Octolasmis (Octolasmis) lowei* f. *trigona*); (541, as *O. trigona*).

***Octolasmis tydemanni* (Hoek, 1907: 24)**

Malay Arch.; Gulf of Thailand (Koh Cheun); 10-55 m.

(9, 196, 592).

***Octolasmis warwickii* (Gray, 1825: 100)**

Indo-west Pacific; S Africa (Amatikulu R., Durban); Persian Gulf; Indian Ocean; Australia; Java Sea (near Batavia); Borneo; Singapore; Malay Arch. (Trengganu); Ream (Cambodia); Gulf of Siam (Koh Kut); Condor Is; Bay of Nhatrang; Bich Damm and Ile Tre, Nhatrang; Quin-bon (Annam); Lien Chien, Tourane; Hongay, Tonkin; Leluda, Tonkin; Hong Kong; S China Sea; China; Philippines; Taiwan; Tanane Bay, Japan; attached to antipatharians, molluses, sea-snakes, fishes, *Limulus*, and to carapace and appendages of a variety of decapods (eg. *Arcana septemspinosa*, *Charybdis bimaculata*, *Dorripe granulata*, *D. frascone*, *Leucosia craniolaris*, *Portunus pelagicus*, *Panulirus stimpsoni*); 14-100 m.

(9, 27, 44, 95, 96, 113b, 182, 183, 205, 218, 222, 225, 226, 303, 348, 350, 364, 365, 372, 440, 541, 565, 579, 580, 592, 594); (7, 23, 86, 118, 128, as *Dichelaspis warwickii*); (3, 4, 291, as *Dichelaspis equina*).

***Octolasmis weberi* (Hoek, 1907: 26)**

Indo-west Pacific; S Africa; Banda Sea, Indonesia; S China Sea; Malay Arch.; Philippines; S Japan; attached to stems of horny coral; 137-560 m.

(27, 169b, 194, 537, 449, 451, 535, 541, 592); (196, as *Dichelaspis weberi*); (450, as *Octolasmis (Dichelaspis) weberi*).

***Octolasmis weberi pennatulae* Hiro, 1937c: 415**

Malay Arch.; Japan; 2-20 m; attached to stem of pennatulids.

(182, 592); (39, as *Octolasmis orthogonia*); (44, as *Octolasmis orthogonia* (part)); (279, as *Octolasmis weberi*).

***Octolasmis* sp. a**

Singapore; attached to carapace and gills of a variety of decapods (eg. *Charybdis cruciata*, *C. natator*, *Calappa philargius*, *Podophthalmus vigil*, *Portunus pelagicus*, *Portunus sanguinolentus*, *Thalamita crenata*, *Thalamita spinimana*, *Thenus orientalis*).

(222).

***Octolasmis* sp. b**

Singapore; attached to decapods (*Galene bispinosa*, *Matuta lunaris*).

(222).

Octolasmis sp. c

Singapore; attached to body and gills of decapods (eg. *Scylla serrata*, *Thalamita crenata*, *T. sima*).
(222).

Genus *Trilasmis* Hinds, 1844

***Trilasmis eburnea* Hinds, 1844: pl. 21, fig. 5**

Widely distributed in Indo-west Pacific: Indian Ocean: Indonesia; Malay Arch.; Gulf of Thailand; S China Sea; China; Philippines; S Japan; WSW Pacific (New Guinea, New Zealand); Hawaii; attached to echinoids (eg. *Stylocidaris annulosa*, *Plococidaris bispinosa*); 20-300 m.

(9, 158, 205, 303, 365, 372, 451, 592); (7, as *Poecilasma (Trilasmis) eburneum* Hinds); (86, 115, 547, as *Poecilasma eburnea* (Hinds)); (185, as *Trilasmis (Trilasmis) eburnea* Hinds); (196, 396, as *Trilasmis eburneus* Hinds).

Family Lepadidae Darwin, 1851

Genus *Lepas* Linnaeus, 1758

Subgenus *Anatifa* Bruguière, 1789

***Lepas (Anatifa) anatifera* Linnaeus, 1758: 668**

Cosmopolitan in tropical, sub-tropical and temperate seas: Madagascar; Mombasa; Seychelles; Ceylon; Straits of Malacca; Java Sea; Malay Pen.; Ream (Cambodia); Gulf of Siam; Hong Kong; China; Taiwan; Philippines; Japan; Raoul I.; Kermadec Is; pelagic, fouling; on keel of ships, driftwood, buoys and other floating objects.

(592); (7, 21, 40, 44, 86, 95, 96, 112a, 115, 128, 146, 165, 181, 182, 183, 194, 195, 205, 228, 279, 291, 298, 299, 303, 329a, 338, 347, 349, 372, 390, 392, 433, 487, 501, 505, 512, 520, 522, 534, 535, 537, 579, 580, 596, as *Lepas anatifera*).

***Lepas (Anatifa) anatifera striata* (de Graaf, 1952: 3)**

Hong Kong; China; pelagic.

(116b, as *Lepas anatifera* var. *striata*), (205, *Lepas anatifera striata* de Graef), (329a, as *Lepas anatifera*).

***Lepas (Anatifa) anserifera* Linnaeus 1767: 1109**

Cosmopolitan in tropical and temperate seas: pelagic, fouling; attached to floating wood, ships' hulls, etc.

(7, 9, 86, 95, 96, 113b, 115, 128, 182, 183, 192, 193, 194, 195, 211, 205, 299, 303, 338, 347, 350, 363, 364, 365, 372, 392, 444, 505, 512, 516, 520, 522, 528, 534, 580, 592, 594).

***Lepas (Anatifa) hilli* (Leach, 1881: 413)**

Cosmopolitan in all seas; pelagic.

(40, 86, 293, 505, 522, 534, 592).

***Lepas (Anatifa) indica* Annandale, 1909: 76**

Indian Ocean; Madagascar; Bay of Bengal; S China Sea; China; pelagic.
(7, 80, 205, 303, 338, 433).

***Lepas (Anatifa) pectinata* Spengler, 1793: 106**

Cosmopolitan in tropical and temperate seas: Sulu Sea; Banda Sea; Tasman Sea; Ream (Cambodia); Gulf of Siam; Bay of Nhatrang; Bich Damm, Nhatrang; Hongay, Bay of Along, Tonkin; China; Taiwan; Philippines; Japan; pelagic, fouling; attached to floating objects.
(37, 39, 40, 46, 86, 95, 96, 112a, 128, 182, 183, 194, 205, 228, 303, 347, 372, 392, 396, 440, 485, 505, 512, 516, 520, 534, 535, 537, 592).

***Lepas (Anatifa) testudinata* Aurivillius, 1892: 123**

Cosmopolitan in southern seas, also China seas; pelagic.
(22, 23, 112a, 128, 205, 303, 592); (37, as *L. affinis*); (227, 228, as *L. anatifera* var. c.); (338, as *L. anatifera testudinata*); (350, as *L. anatifera* var. *testudinata*).

Genus *Dosima* Gray, 1825

***Dosima fascicularis* Ellis & Solander, 1786: 197**

Cosmopolitan in tropical and temperate seas; pelagic.
(118, 592); (40, 86, 100, 112a, 182, 194, 329a, 347, 365, 392, 505, 516, 522, 534, 535, as *Lepas fascicularis*); (147, 347, as *Lepas fascicularis aurivillii*).

Genus *Conchoderma* Olfers, 1814

***Conchoderma auritum* (Linnaeus, 1767: 1110)**

Cosmopolitan in all seas; pelagic, usually attached to cirripede *Coronula diadema* attached to whales, fouling ships hulls and driftwood.
(40, 86, 95, 96, 112a, 182, 192, 194, 205, 378, 392, 401, 430, 433, 505, 592); (299, as *Lepas aurita*).

***Conchoderma hunteri* (Owen, 1830: 71)**

Indo-west Pacific: Indian Ocean; Australia; Banda Sea; Malay Arch.; China; Japan; pelagic, fouling.
(86, 128, 205, 303, 433, 547); (382, as *Cineras Hunteri*); (7, 279, as *Conchoderma virgatum* var. *Hunteri*); (44, 372, as *Conchoderma virgatum* forma *Hunteri*); (95, 96, 115, 182, 183, 194, 534, 535, 537, as *Conchoderma virgatum hunteri*); (279, as *Conchoderma virgatum* var. *japonica*).

***Conchoderma virgatum virgatum* (Spengler, 1790: 207)**

Cosmopolitan in tropical and temperate seas: Indian Ocean; N Australia; Malay Arch.; Gulf of Siam; China; Philippines; Japan; - fouling species, pelagic, attached to ships and driftwood, as well as to various animals such as fishes, sea-snakes, decapod crustaceans, and parasitic copepod *Penella* sp.
(7, 27, 28, 40, 46, 86, 95, 96, 112a, 128, 136, 140, 176, 181, 182, 183, 192, 194, 195, 205, 228, 283, 303, 344, 347, 350, 355, 378, 392, 433, 450, 487, 492, 501, 505, 520, 535, 537, 556, 586, 592); (484, as *Lepas virgata*).

Genus *Alepes* Rang, 1829

***Alepes indica* Gruvel, 1901: 259**

Nicobars; Singapore; pelagic, attached to floating wood.
(3, 124, 128).

***Alepes navigator* Pilsbry, 1912: 291**

S China Sea; Philippines; pelagic, attached to medusae (eg. *Discomedusa* sp.).
(402, 592).

***Alepes pacifica* Pilsbry, 1907a: 105**

Tropical Indo-west Pacific: Indian Ocean; Australia; Malaysia; China; Pacific Ocean from Japan and California to Tasmania; S Atlantic; pelagic, attached to medusae (eg. *Cyanea nozakii*, *Discomedusa* sp.).
(17, 95, 96a, 112a, 182, 183, 205, 303, 347, 348, 365, 392, 509, 522, 520, 534, 579, 580, 592).

***Alepes spectrum* Pilsbry, 1912: 292**

S China Sea; Philippines; pelagic, attached to medusae (eg. *Discomedusa* sp.).
(402, 592).

Suborder Scalpellomorpha Newman, 1987

Family Calanticipidae Zevina, 1978a

Genus *Calantica* Gray, 1825

***Calantica graphica* Rosell, 1991: 13**

Philippines (SW of Nasugbu, Batangas); attached to antipatharian; 193-205 m.
(451).

***Calantica kampeni* (Annandale, 1909a: 267)**

Indo-west Pacific: Gulf of Aden; Indian Ocean; Mergui Arch; E coast of Sumatra; Malay Arch.; Singapore; Ream (Cambodia); Gulf of Siam; Condor Is; Tourane; Pacific Ocean; attached to spines of cidarids, stems of hydroids, shells; 6-225 m.
(44, 46, 372, 535, 589); (8, 9, 17, 497, as *Scalpellum (Smilium) kampeni*).

***Calantica pollicipedoides* (Hoek, 1907 : 60)**

Indo-west Pacific: South Africa; Indian Ocean; Malay Arch.; Philippines; 57-190 m.
(44, 372, 589); (196, as *Scalpellum pollicipedoides*); (27, 398, as *Smilium pollicipedoides*).

***Calantica trispinosa* (Hoek, 1883: 72)**

Java Sea; Gulf of Siam; E and S China Sea; Philippines; Japan; 35-320 m.
(58, 128, 398, 450, 451, 554, 589); (195, as *Scalpellum trispinosum*); (44, as *Scalpellum (Smilium) trispinosum*).

Genus *Paracalantica* Utinomi, 1949

***Paracalantica newmani* (Rosell, 1981: 281)**

Philippines (NE Lubang I.; 14°02.2'N, 120°17.7'E); attached to gorgonian stem; 184-193 m.
(451); (449, as *Calantica* (*Paracalantica*) *newmani*).

***Paracalantica rossi* (Rosell, 1981: 284)**

Philippines (NE Lubang I.; 14°02.2'N, 120°17.7'E); attached to gorgonian stem; 184-202 m.
(451); (449, as *Calantica* (*Paracalantica*) *rossi*).

Genus *Smilium* Gray, 1825

***Smilium acutum* (Hoek, 1883 : 80)**

Cosmopolitan in deep seas in all oceans: Pacific, Atlantic and Indian Oceans; Malay Arch.; China; Philippines; Japan; Kermadec Is; 61-2480 m.
(18, 39, 44, 58, 112a, 169b, 182, 205, 279, 284, 303, 344, 372, 398, 450, 451, 492, 522, 562, 584, 589); (128, 136, 195, 196, 347, 547, as *Scalpellum acutum*); (12, 19, as *Smilium* (*Smilium*) *acutum*); (126, 554, as *Scalpellum longirostrum*); (554, as *Scalpellum hastatum*).

***Smilium horridum* Pilsbry, 1912: 292**

S China Sea; Philippines; 42 m.
(402, 589).

***Smilium scorpio* (Aurivillius 1892: 126)**

Gulf of Thailand; E and S China Sea; China; Taiwan; Japan; 31-140 m.
(95, 96, 168, 169b, 205, 303, 522, 528, 535, 537, 539, 554, 584, 589); (22, 23, 125, 128, 347, 547, as *Scalpellum scorpio*); (44, as *Calantica pedunculo-striata*); (44, 183, 188, 512, as *Calantica scorpio*); (128, 391, as *Scalpellum sexcornutum*); (279, 392, 398, as *Smilium sexcornutum*).

***Smilium sinense* (Annandale, 1910c: 211)**

Indian Ocean; E coast of Sumatra; Malay Arch.; China Sea; China; 55-150 m.
(205, 303, 372, 584, 589); (10, 17, 562, as *Scalpellum* (*Smilium*) *sinense*).

***Smilium vaubanianum* Rosell, 1981: 285**

Philippines (NE Lubang I.; 14°00'N, 120°19.2'E); attached to stony coral fragment, *Dendrophyllia* sp.; 194 - 202 m.
(449).

Genus *Euscalpellum* Hoek, 1907

***Euscalpellum rostratum* (Darwin, 1851:)**

Indo-west Pacific: Indian Ocean; S Arabian coast; Makassar Strait; Mergui Arch.; Kei Is; Malay Arch.; China; Philippines; 13-94 m.

(205, 303, 589); (86, as *Scalpellum rostratum*); (17, as *Scalpellum (Smilium) rostratum*); (44, 372, as *Smilium rostratum*); (196, 492, as *Scalpellum (Euscalpellum) rostratum*); (398, 534, 584, as *Euscalpellum rostratum*).

***Euscalpellum squamuliferum* (Weltner, 1894: 80)**

Indian Ocean; S Arabian coast; Mergui Arch.; Malay Arch.; China; 101-3200 m.

(205, 280, 398, 589); (546a, 372, as *Scalpellum squamuliferum*); (19, as *Scalpellum (Smilium) squamuliferum*).

***Euscalpellum stratum* (Aurivillius, 1892: 132)**

W Atlantic Ocean; Antilles Sea; China; 91-680 m.

(169b, 205, 280, 303, 408, 584, 589); (22, 23, 128, 392, 547, as *Scalpellum stratum*); (182, 183, as *Euscalpellum squamosum*)

Family Pollicipedidae Leach, 1817

Genus *Capitulum* Gray, 1825

***Capitulum mitella* (Linnaeus, 1758: 668)**

Widely distributed in warmer parts of Indo-west Pacific: Malagasy (Madagascar); Malay Pen.; Java; Ream (Cambodia); Gulf of Siam; Dama Is, Cambodia; Condor Is.; S China Sea; Hong Kong; China; Taiwan; Philippines; Japan (Sagami Bay, Kyusyu and Ryukyu Is; N limit is Ponsyoro Cave near Osyoro, W Hokkaido); littoral.

(95, 96, 113b, 183, 212, 324, 325, 326, 331, 364, 504, 516, 562, 576, 580); (298, 299, as *Lepas mitella*); (19, 39, 44, 46, 115, 165, 194, 192, 279, 505, 512, 520, as *Mitella mitella*); (86, 211, 203, 329a, 347, 355, 363, 372, 440, 442, 481, 535, 537, 580, 584, 589, as *Pollicipes mitella*); (205, as *Capitulum mitella*, and synonymies *Mitella mitella*, *Pollicipes mitella*); (392, as *Mitellas mitella*).

Family Lithotryidae Gruvel, 1905

Genus *Lithotrya* Sowerby, 1922

***Lithotrya nicobarica* Reinhardt, 1850: Pl. 1 figs 1-3**

Indo-west Pacific: Indian Ocean; Nicobars; Australia; Timor; Malay Arch.; Ream and Dama Is (Cambodia); Gulf of Siam; Condor Is; China; Philippines; Japan; New Zealand; Tuamotu, Caroline Is; Fiji; Paumotu Is; Christmas I.; Pacific Ocean; littoral.

(19, 46, 151, 181, 205, 303, 347, 364, 372, 420, 442, 474, 579, 580, 584, 589); (35, 86, 128, 196, 392, as *Lithotrya pacifica*); (36, as *Lithotrya dorsalis* var. *maldivensis* & *Lithotrya dorsalis* var. *rugata*); (196, as *Lithotrya conica*).

***Lithotrya valentiana* (Gray, 1825: 102)**

Indo-west Pacific: Indian Ocean; Australia; Malay Arch.; Malay Arch.; Rifleman's Bank; Atoll Itu Aba; Spratly Is.; Loaita; China; Philippines; Japan; New Guinea; Friendly Is; Tuamotu Is; littoral.

(17, 27, 46, 60, 151, 176, 181, 205, 303, 382, 442, 589); (118, as *Conchotrya valentiana*); (86, 128, 196, 347, 372, as *Lithotrya truncata*); (347, as *Lithotrya truncata longicaudata*); (415, as *Anatifa truncata*).

Family Scalpellidae Pilsbry, 1907
Subfamily Scalpellinae Pilsbry, 1907
Genus *Scalpellum* Leach, 1817

***Scalpellum salartiae* Gruvel, 1901: 257**

Sulu Arch.; Philippines (NE Lubang I.); attached to echinoid spines.
(124, 449); (39, as *Scalpellum* aff. *salartiae*).

***Scalpellum stearnsii* Pilsbry, 1890a: 441**

Indo-west Pacific: Indian Ocean, off Nicobar Is; Indonesia; NW & NE Australia; Java Sea; Bali Straits; Malay Arch.; Celebes; Sulu Arch.; Sulu Sea; S China Sea; China; E China Sea; Philippines; E coast of Japan, Sagami Bay, off Hondo; 182-2117 m.

(8, 39, 44, 169b, 188, 205, 279, 321, 347, 365, 388, 389, 392, 430, 431, 449, 450, 451, 520, 589); (196, as var. *gemina* and var. *robusta*).

***Scalpellum stearnsii* var. *inerme* (Annandale, 1905: 293)**

E Indian Ocean; Australia; Malay Arch.; 178-2117 m.

(350, 364, 365, 372, 589), (3, as *Scalpellum inerme*); (18, 350, as *Scalpellum stearnsii* var. *inerme*).

***Scalpellum typicum* Broch, 1947: 9**

Ream (Cambodia); Gulf of Siam; Condor Is; 10-15 m.

(589); (46, as *Scalpellum (Stricto-Scalpellum) typicum*).

Subfamily Meroscalpellinae Zevina, 1978
Genus *Abathescaepellum* Newman & Ross, 1971

***Abathescaepellum fissum* (Hoek, 1907: 116)**

Off Celebes; S China Sea China; Philippines; attached to tubularian stem; 219-472 m.
(205, 430, 451, 589); (196, as *Scalpellum fissum*).

Genus *Alcockianum* Zevina, 1978

***Alcockianum alcockianum* (Annandale, 1905: 82)**

Indo-west Pacific: Indian Ocean; Mozambique Channel; Gulf of Manaar; Bay of Bengal; Indonesia; Malay Arch.; Australia; New Zealand; SW Pacific and mid-Pacific guyots; fouling; 945-1950 m.

(231, 358, 585, 589); (3, 4, 5a, 16, 19, 372, as *Scalpellum alcockianum*); (58, 350, as *Scalpellum* (*Scalpellum*) *alcockianum*); (287, 344, as *Arcoscalpellum alcockianum*).

Genus *Neoscalpellum* Pilsbry, 1907

***Neoscalpellum dicheloplax* Pilsbry, 1907: 70**

Atlantic Ocean; China; 2321-5005 m.

(95, 96, 205); (392, as *Scalpellum dicheloplax*); (392, as *Scalpellum dicheloplax bentophila*); (589, as *Neoscalpellum debile*).

***Neoscalpellum dicheloplax philippinensis* Rosell, 1981: 287**

Philippines (NE Lubang I; 13°54.2'N, 119°57.9'E); 1075 - 1125 m.

(449, as *Mesoscalpellum dicheloplax philippinensis*).

Genus *Annandaleum* Newman & Ross, 1971

***Annandaleum gruvelii* (Annandale, 1906: 390)**

Atlantic Ocean; Indo-west Pacific: Indian Ocean; China; Pacific Ocean; 1252-2248 m.

(27, 46, 58, 205, 309b, 344, 433, 589); (5a, 16, as *Scalpellum gruvelii*); (196, as *Scalpellum chitinosum*); (392, as *Scalpellum imperfectum*); (287, as *Mesoscalpellum gruvelii*).

***Annandaleum japonicum* Hoek, 1883: 67**

Indian Ocean; Malay Arch.; 805-6810 m.

(182, 372, 344, 400, 505, 589); (195, 393, 554, as *Scalpellum japonicum*); (196, as *Scalpellum chitinosum*); (196, as *Scalpellum curiosum*).

***Annandaleum laccadivicum laccadivicum* (Annandale, 1906: 393)**

Indo-west Pacific: Indian Ocean; Sumbawa, Indonesia; Malay Arch.; SW of Calatagan Pt, Philippines; S Japan (S of Honda I.); SW Pacific; 234-6160 m.

(451, 589); (5a, 16, 58, 169b, 182, 372, 398, 492, as *Scalpellum laccadivicum*); (5a, as *Scalpellum subflavum*); (196, 554, as *Scalpellum polymorphum*); (400, as *Scalpellum molliculum*).

***Annandaleum lambda* (Annandale, 1910: 115)**

Indo-west Pacific: Indian Ocean, from off Zanzibar; Sumbawa, Indonesia; Malay Arch.; SW of Calatagan Pt, Philippines; S Japan (S of Honda I.); SW Pacific; 234-2077 m.

(231, 344, 451, 589); (11, 16, 19, as *Scalpellum lambda*); (16, 492, as *Scalpellum longius*).

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Subfamily Arcoscalpellinae Zevina, 1978

Genus *Tarasovium* Zevina, 1978

***Tarasovium valvulifer* (Annandale, 1910c: 214)**

S Indian Ocean; C. Salmin, China Sea; 22-159 m.
(372, 589); (10, as *Scalpellum valvulifer*).

Genus *Weltnerium*

***Weltnerium poculum* (Hoek, 1907: 100)**

Savu Sea, W of Timor; Philippines; 441-918 m.
(589); (196, as *Scalpellum poculum*); (450, as *Arcoscalpellum poculum*).

Genus *Verum* Zevina, 1978

***Verum candidum* (Hoek, 1907: 119)**

Moluccas, Indonesia; Philippines; 204-310 m.
(451, 589); (196, as *Scalpellum candidum*).

***Verum novaezelandiae* (Hoek, 1883: 124)**

Indo-west Pacific; E Africa, Gulf of Aden, eastward to New Zealand; 822-4850 m.
(16, 451, 554, 589); (58, 195, 196, as *Scalpellum novaezelandiae*).

Genus *Catherinum* Zevina, 1978

***Catherinum perlongum* (Pilsbry, 1907: 198)**

Philippines; Pacific Ocean; NE Pacific Ocean, off San Diego, California; 1153-3600 m.
(309b, 451, 581, 589); (395, as *Scalpellum perlongum*).

***Catherinum trapezoideum* (Hoek, 1907: 102)**

Indian Ocean; Malay Arch.; 129-2796 m.
(16, 372, 554, 589); (196, as *Scalpellum trapezoideum*).

***Catherinum* sp.**

China.
(95).

Genus *Amigoscalpellum* Zevina, 1978

***Amigoscalpellum elegans* (Hoek, 1907: 107)**

Indo-west Pacific: Indian Ocean; Australia; Indonesia; Malay Arch.; New Zealand; mid-Pacific Ocean; 687-1886 m.

(231, 372, 492, 589); (196, as *Scalpellum elegans*).

***Amigoscalpellum vitreum* (Hoek, 1883: 115)**

Indo-west Pacific and NE Atlantic Ocean. Indo-west Pacific: E Africa, Zanzibar Strait to Torres Strait, Australia; Malaysia; China; Philippines, Japan; New Zealand. NE Atlantic Ocean: off Southern Carolina to off S tip of Greenland; 550-6096 m.

(205, 303, 374, 451, 554, 589); (126, 128, 195, 392, 522, 547, 582, as *Scalpellum vitreum*); (112a, 344, 544, as *Arcoscalpellum vitreum*); (169b, 196, 344, 347, 372, 492, 505, as *Scalpellum formosum*); (585, as *Amigoscalpellum vitreum*).

Genus *Trianguloscalpellum* Zevina, 1978

***Trianguloscalpellum annandalei* (Calman, 1918: 109)**

Indian Ocean; Malay Arch.; Australia; 240-2268 m.

(372, 589); (58, as *Scalpellum annandalei*).

***Trianguloscalpellum balanoides* (Hoek, 1883: 129)**

S of Sumatra; China; Philippines; Japan; 220-470 m.

(205, 303, 451, 554, 585, 589); (39, 183, 195, 358, as *Scalpellum balanoides*); (392, 400, as *Scalpellum gonionotum*).

***Trianguloscalpellum diota* (Hoek, 1907: 87)**

Indian Ocean; Malay Arch.; 204-1792 m.

(372, 492, 589); (196, as *Scalpellum diota*).

***Trianguloscalpellum hamulus* (Hoek, 1907: 86)**

NE Australia; Jhuul Bank (198 km S Timor); Banda Sea; Philippines (NE Lubang I.; 14° 01.7'N, 120°16.0'E); 128-1119 m; attached to cirri of crinoids and to balanomorph barnacles (*B. hawaiiensis*); 174-223 m.

(18, 231, 589); (196, as *Scalpellum (Arcoscalpellum) hamulus*); (234, as *Trianguloscalpellum hirsutum*); (449, as *Arcoscalpellum hamulus*).

***Trianguloscalpellum regium latidorsum* (Pilsbry, 1907: 29)**

Cosmopolitan in Atlantic and Pacific Oceans; 1199-2927 m.

(392, 451, 589).

***Trianguloscalpellum rubrum* (Hoek, 1883: 91)**

Java Sea; Malay Arch.; China; Philippines; Japanese waters (Kagoshima Sea and Sagami Bay); 138-331 m.

(39, 58, 205, 400, 451, 589); (195, 349, 358, as *Scalpellum rubrum*).

Subfamily Arcoscalpellinae Zevina, 1978

Genus *Arcoscalpellum* Hoek, 1907

***Arcoscalpellum ciliatum* Ren, 1983: 76**

E China Sea (30°30'N, 128°00'E); 300-395 m.

(205, 303, 425); (534, as *Scalpellum hirsutum*).

***Arcoscalpellum foresti* Rosell, 1989: 13**

Phillippines; 569-595 m.

(450, 451).

***Arcoscalpellum formosum* Hoek, 1907: 110**

Indian Ocean; Malay Arch.; China; Japan (Kagoshima Pref.); 558-2081 m.

(96, 169b, 372); (196, as *Scalpellum formosum*), (589, as *Amigdoscalpellum vitreum* (part)).

***Arcoscalpellum michelottianum* (Seguenza, 1876: 381)**

S Atlantic Ocean (between 72° and 34°); Mediterranean; Indo-west Pacific: off SW Africa; Indian Ocean; NE and NW Australia; Malay Arch.; China; Philippines; mid Pacific Ocean (Johnston Atoll); Chile; Antarctic Ocean; 64-5190 m.

(16, 28, 196, 205, 433); (392, 473, as *Scalpellum michelottianum*); (1, as *Scalpellum michelottianum* (part)); (3, 5a, 14, 19, 44, 58, 126, 128, 136, 195, 349, 350, 358, 372, 392, 492, 501, 505, 547, 580, as *Scalpellum velutinum*); (25, as *Scalpellum sordidum*); (25, 128, as *Scalpellum erectum*); (123, 126, as *Scalpellum alatum*); (195, 547, as *Scalpellum eximium*); (231, 287, 344, 450, 451, 544, 562, 585, 589, as *Arcoscalpellum michelottianum*); (303, as *Trianguloscalpellum michelottianum*).

***Arcoscalpellum pertosum* Foster, 1978: 63**

China; New Zealand; 380-1141 m.

(112a, 205, 589).

***Arcoscalpellum sociabile sociabile* (Annandale, 1905: 77)**

Indo-west Pacific: Indian Ocean; SE Great Nicobar I.; Bali Str., Indonesia; Banda Sea; Malay Arch.; Sulu Sea; Philippines; Japan; 239-2050 m.

(3, 44, 366, 450, 589); (196, as *Scalpellum pellicatumi*); (350, 364, 365, 372, as *Scalpellum sociabile*).

Genus *Teloscalpellum* Zevina, 1980

***Teloscalpellum album* Liu & Ren, 1985: 212**

E China Sea: 30°15' N, 128°00'E; 300-395 m; attached to polyp of hydroid.
(205, 303, 433); (169b, 183, as *Scalpellum condensum*).

***Teloscalpellum gracile* Hoek, 1907: 105**

Flores Sea; Philippines; 1158-1674 m.
(450, 589); (196, as *Scalpellum gracile*).

ORDER SESSILIA Lamark, 1818

Suborder VERRUCOMORPHA Pilsbry, 1916

Family Verrucidae Darwin, 1854

Genus *Verruca* Schumacher, 1817

***Verruca cookei* Pilsbry, 1928: 308**

China; Philippines (off NE Lubang I.); Tuamotu Is; Hawaii; 167-865 m.
(406, 451, 577, as *Verruca cookei*); (449, as *Verruca (Metaverruca) cookei*).

***Verruca* sp.**

China.
(95).

Genus *Altierruca* Pilsbry, 1916

***Altierruca cristallina* (Gruvel, 1907d: 2)**

Tropical Indo-west Pacific: Indian Ocean; Andaman Is; Nicobar Is; Banda Sea, Indonesia; Malay Arch.; China; Philippines; New Caledonia; Loyalty Islands; Chesterfield Is; Vanuatu; Wallis & Futuna Is; attached to rocks, pumice, bivalves, coral; 233-2340 m.
(577); (131, 205, 352, 372, as *Verruca cristallina*); (39, as *Verruca (Altierruca) cristallina* forma *laevis*); (44, as *Verruca cristallina* forma *laevis*); (44, as *Verruca cristallina* forma *typica*); (49, 50, as *Altierruca cristallina*); (200, as *Verruca cassis*); (427, 450, 451, as *Verruca (Altierruca) cristallina*).

***Altierruca gibbosa* (Hoek, 1883: 134)**

Cosmopolitan; Atlantic Ocean; Antarctic region; China; Pacific Ocean; 500->3000 m.
(205, 372, 577); (128, 195, 305, 403, as *Verruca gibbosa*); (128, 195, 403, as *Verruca sulcata*); (44, 344, 427, 505, as *Verruca (Altierruca) gibbosa*); (197, as *Verruca mitra*); (352, as *Verruca gibbosa somaliensis*); (374, as *Verruca darwini*); (374, 403, as *Verruca bicornuta*); (392, 403, as *Verruca darwiniana*).

***Altiverruca nitida* (Hoek, 1883: 138)**

Tropical western Pacific; China; Philippines (off NE Lubang I.); New Caledonia; Chesterfield Islands; Vanuatu; Wallis & Futuna Islands; attached to pebbles, shells, coral, hexactinellid sponges, gastropods; 650-2040 m.

(577); (128, 195, 200, 205, 392, as *Verruca nitida*); (49, 50, as *Altiverruca nitida*); (427, 449, as *Verruca (Altiverruca) nitida*).

***Altiverruca quadrangularis* (Hoek, 1883: 140)**

S Atlantic Ocean; Philippines; 682-770 m.

(577); (195, as *Verruca quadrangularis*); (450, as *Verruca (Altiverruca) quadrangularis*).

***Altiverruca sulcata* (Hoek, 1883: 139)**

China; Philippines (off NE Lubang I.); WSW Pacific (Kermadec Is, New Zealand); 750-1125 m.

(577); (128, 195, 451, as *Verruca sulcata*); (449, as *Verruca (Altiverruca) sulcata*).

Genus *Metaverruca* Pilsbry, 1916

***Metaverruca halothea* (Pilsbry, 1907: 46)**

Malaysia; New Zealand; Hawaii; 252-1680 m.

(577); (112a, 392, as *Verruca (Metaverruca) halothea*).

***Metaverruca sculpta* (Aurivillius, 1898b: 197)**

Indo-west Pacific: S Africa; Indian Ocean; Indonesia; E China Sea; New Zealand; Fiji; Hawaii; 114-454 m.

(205, 577); (25, 44, 128, 136, 352, 372, as *Verruca sculpta*); (126, 128, as *Verruca magna*); (200, as *Verruca capsula*); (259, 392, 403, as *Verruca halothea*); (403, as *Verruca coraliophila*); (427, as *Verruca (Metaverruca) sculpta*); (492, as *Verruca (Metaverruca) capsula*).

Genus *Newmaniverruca* Young, 1998

***Newmaniverruca albatrossiana* (Pilsbry, 1912: 292)**

Indo-west Pacific: NW Australia; Indonesia; S China Sea; China; Philippines; attached to didarid spines (eg. *Stereocidaris indica philippinensis* Mortensen); 345-620 m.

(577); (49, 50, 205, 402, 403, 601, as *Verruca albatrossiana*); (39, 44, as *Verruca (Euverruca) albatrossiana*); (200, as *Verruca grex*); (427, as *Verruca (Verruca) albatrossiana*).

***Newmaniverruca multicostata* (Gruvel, 1907: 4)**

Indian Ocean; Malay Arch. (Malacca, 6°18'N, 90°40'E); 160 m.

(577); (131, 372, as *Verruca multicostata*).

Genus *Rostratoverruca* Broch, 1922

***Rostratoverruca intexta* (Pilsbry, 1912: 292)**

Indo-west Pacific: Indian Ocean; Madagascar; Indonesia; Timor Sea; Malay Arch.; S China Sea; Philippines; New Caledonia; Loyalty Islands; attached to octocorals, sponges, coral, cidaroid spines, scalpellid barnacles, gastropods, hydrozoans; gorgonians; 40 -1002 m. (577); (365, 372, 402, 451, as *Verruca intexta*); (49, 50, as *Rostratoverruca intexta*); (200, as *Verruca conchula*); (450, 451, as *Verruca (Rostratoverruca) intexta*).

***Rostratoverruca koehlerii* (Gruvel, 1907d: 4)**

Indian Ocean (Andamans); China; attached to cidaroid spines (eg. *Stylocidaris annulosa* Mirtsu); 100-600 m. (205, 431, 577); (131, 132, as *Verruca koehlerii*); (39, 44, as *Verruca krugeri*); (169b, as *Verruca (Rostroverruca) krugeri* forma *multisculpta*); (200, as *Verruca conchula*); (349, 352, 365, 372, 402, 403, 601, as *Verruca intexta*); (427, as *Verruca (Rostroverruca) koehlerii*).

***Rostratoverruca krugeri* (Broch, 1922: 295)**

Indonesia., near Kei Is.; Philippines, SW of Tukuran; attached to cidaroid spines. (39, as *Verruca Krugeri*); (44a, 169b, as *Verruca (Rostroverruca) krugeri*); (49, 50, 577, as *Rostratoverruca krugeri*); 233-590 m.

Suborder Balanomorpha Pilsbry, 1916

Superfamily Pachylasmatoidea Utinomi, 1968

Family Pachylasmatidae Utinomi, 1968

Subfamily Pachylasmatinae Utinomi, 1968

Genus *Pachylasma* Darwin, 1854

***Pachylasma arwetergum* Rosell, 1991: 35**

E of Semirara Islet, Philippines (12°02.6'N, 121°35.3'E); attached to cirri of crinoids; 120-123 m. (451).

***Pachylasma chinense* Pilsbry, 1912: 293**

S China Sea, near Hong Kong; Philippines; attached to cirripedes (*Scalpellum stearnsii* Pilsbry); 400 m. (345, 402, 403, 411, 450).

***Pachylasma scutistriata* Broch, 1922: 301**

Indian Ocean; S Australia; Malaysia; S China Sea; E China Sea; S Japan; New Zealand; attached to crinoids, antipatharians; 104-2050 m. (39, 112a, 234, 345, 349, 533).

Superfamily Chthamaloidea Darwin, 1854
Family Chthamalidae Darwin, 1854
Subfamily Euraphiinae Newman & Ross, 1976
Genus *Octomeris* Sowerby, 1825

***Octomeris brunnea* Darwin, 1854: 484**

Mergui Arch.; N Australia; Indonesia; Malay Arch.; China; Taiwan; Philippines; S Japan; S Housyu (rare), Ryukyu Is (probably); New Hebrides; Santa Cruz Is; littoral.
(71, 88, 95, 96, 111, 127, 128, 166, 193, 205, 234, 345, 348, 354, 357, 359, 412, 512, 516, 522, 547);
(347, as *Octomeris intermedia* n. sp.); (350, 372, as *Octomeris intermedia*); (561, as *Octomeris crassa*
n. sp.).

***Octomeris sulcata* Nilsson-Cantell, 1932a: 8**

China; Taiwan; S Japan, S Honsyu, Kyusyu, Ryukyu Is; littoral.
(95, 96, 166, 192, 194, 205, 345, 359, 380, 444, 512, 537, 539).

Genus *Euraphia* Conrad, 1837

***Euraphia caudata* (Pilsbry, 1916: 315)**

N Australia; Indonesia; W coast of Sumatra; Pisang I.; Malayan Arch.; S China Sea; China; Philippines; Palau Is.; littoral.
(95, 101, 181, 205, 234, 254, 345, 347, 354, 403, 426, 490); (96, 412, 442, 594, as *Chthamalus caudatus*); (111, as *Chthamalus caudata*).

***Euraphia intertexta* (Darwin, 1854: 467)**

Indonesia, Malaysia to China, S Taiwan; Philippines; Ryukyu and Tokara Is; eastward to Hawaii and Pitcairn I.; littoral.
(88, 95, 115, 128, 135, 177, 200, 254, 335, 345, 347, 403, 406, 412, 507, 512, 516); (96, 111, 193, 205, 534, as *Chthamalus intertextus*).

***Euraphia withersi* (Pilsbry, 1916: 312)**

Indo-west Pacific: Indian Ocean; Madagascar; India; Mergui Arch., N Australia; Indonesia; W coast of Sumatra; Java; Kei Islands; Arafura Sea; Celebes; Pisang I.; Malay Arch.; Hong Kong; S China Sea; Kororu Is; Philippines (Cebu); littoral.
(30, 44, 95, 113b, 181, 211, 203, 234, 238, 243, 244, 254, 329a, 330, 345, 347, 354, 357, 403, 426, 442, 444, 497, 501, 534, 535, 542, 575, 576); (96, 205, 367, 372, 412, 594, as *Chthamalus withersi*); (305, as *Chthamalus aestuarii*).

Subfamily Chthamalinae Darwin, 1854
Genus *Chthamalus* Ranzani, 1818

***Chthamalus antennatus* Darwin, 1854: 460**

Australia; Tasmania; China; littoral.
(39, 88, 128, 205, 234, 345, 347, 412, 426, 534).

***Chthamalus challengeri challengeri* Hoek 1883: 165**

Indo-west Pacific: Red Sea; Indian Ocean; Indonesia; Malayan Arch.; Condor I.; China; Philippines; Japan; S Honshu, Kyushu & Ryukyu Is; Bonin I.; littoral.
(30, 33, 43, 46, 95, 96, 127, 128, 165, 166, 173, 182, 189, 194, 195, 254, 259, 279, 280, 306, 307, 308, 345, 347, 348, 349, 358, 363, 372, 403, 412, 426, 505, 512, 516, 523, 536, 537, 539, 547, 593, 594); (44, as *Chthamalus challengeri* forma *krakatauensis* nov.); (205, as *Chthamalus dalli*).

***Chthamalus malayensis* Pilsbry 1916: 310**

Indo-west Pacific: Persian Gulf; Indian Ocean; India; Pakistan; N Australia; Indonesia; Sumatra; Arafura Sea; Malay Arch.; S Vietnam (Cauda, Nhatrang Bay) Siam (Lem Ngob); S China Sea; Hong Kong; China; Condor I.; Taiwan; Philippines; Japan; Bonin I.; S Honsyu, Kyusyu & Ryukyu Is; Palao Is; New Caledonia; Santa Cruz; Fiji Is; littoral, also a fouling species.
(30, 95, 101, 102, 111, 113b, 211, 234, 237, 238, 242, 243, 244, 254, 259, 329a, 345, 365, 403, 412, 426, 490, 476, 494, 496, 516, 528, 534, 536, 594); (38, as *C. antennatus*); (39, 44, 95, 96, 181, 193, 205, 347, 403, 426, 512, as *C. moro*); (44, as *C. challengeri* forma *krakatauensis* nov.); (80, 372, 403, 442, as *C. stellatus stellatus*); (88, 200, 492, as *C. stellatus*); (135, as *C. antennatus*); (282, as *C. stellatus* var. *communis*); (347, as *C. challengeri* part); (442, questions synonymy of *C. moro* with *C. malayensis*).

***Chthamalus sinensis* Ren, 1984a: 156**

S China Sea: Qiongzhou Strait, Guangdong Province; Dong tou, Zhejiang Province; Dongshan, Fujian Province; littoral.
(213, 426, 569).

Genus *Chinochthalmus* Foster, 1982

***Chinochthalmus scutelliformis* (Darwin, 1854: 472)**

S China Sea; Hong Kong; China; littoral.
(95, 96, 113b, 127, 195, 205, 203, 279, 280, 412, 547); (88, 128, 345, 594, as *Chamaesipho scutelliformis*).

Genus *Tetrachthamalus* Newman, 1967

***Tetrachthamalus sinensis* Ren, 1980a: 150**

Hong Kong; China (Xinying, Hainan Island; Hainas Is, & Weizhou I., Guangzi); littoral.
(205, 203, 423, 426, 542, 569).

Superfamily Coronuloidea Leach, 1817

Family Chelonibiidae Pilsbry, 1916

Genus *Chelonibia* Leach, 1817

***Chelonibia caretta* (Spengler, 1790: 185)**

Tropical Atlantic and Indo-west Pacific; epizoic on turtles - *Chelone imbricata* (Borradaile); *Chelone midas* (Barnard).

(27, 36, 40, 80, 88, 92, 128, 181, 200, 234, 259, 278, 322, 345, 372, 403, 484, 501, 535, 545, 547, 559, 598); (159, as *Balanus chelrypepetesi*).

***Chelonibia patula* (Ranzani, 1818: 86)**

Tropical Atlantic to Indo-west Pacific; epizoic on turtles.

(43, 45, 46, 54, 72, 80, 88, 92, 95, 96, 97, 113b, 114, 115, 128, 131, 135, 150, 175, 200, 205, 234, 246, 259, 278, 279, 280, 314, 329a, 345, 364, 365, 367, 372, 384, 385, 403, 406, 408, 422, 430, 455, 460, 461, 465, 478, 495, 501, 514, 522, 545, 547, 555, 560, 593, 594, 598); (419, as *Coronula patula*).

***Chelonibia patula dentata* Henry, 1943: 370**

China.

(149, 153, 205, 345, 430).

***Chelonibia testudinaria* (Linnaeus, 1767: 668)**

Tropical and warm temperate seas: Atlantic to Indo-west Pacific; epizoic on turtles.

(1, 2, 4, 27, 36, 38, 41, 44, 46, 61, 88, 92, 95, 96, 108, 114, 115, 127, 128, 131, 149, 150, 153, 175, 181, 182, 194, 200, 234, 258, 259, 267, 277, 278, 279, 280, 291, 299, 309b, 322, 345, 346, 354, 357, 362, 372, 403, 406, 422, 424, 500, 501, 512, 522, 535, 536, 537, 539, 546b, 547, 549, 553, 545, 598); (367, as *C. testudinata*).

Family Platylepadidae Newman & Ross, 1976

Genus *Platylepas* Gray, 1825

***Platylepas decorata* Darwin, 1854: 429**

W Australia; S China Sea; China; Pacific Ocean, Galapagos Is; epizoic on sea snakes and turtles.

(88, 128, 135, 175, 179, 181, 205, 234, 278, 345, 347, 537, 547); (424, note mis-spelling, as *Platylepas decorada*).

***Platylepas hexastylus* (Fabricius, 1798: 35)**

All tropical and subtropical seas; epizoic on turtles, fish, sea-snakes, manatees and dugongs.

(30, 40, 41, 42, 80, 95, 103, 108, 112a, 127, 128, 150, 175, 179, 181, 182, 205, 234, 259, 267, 278, 281, 345, 403, 422, 424, 436, 472, 500, 501, 514, 524, 547, 598); (88, as *P. bissexlobatai*).

***Platylepas krugeri* (Krüger, 1912: 12)**

Thailand; epizoic.

(281, 345, 454).

***Platylepas ophiophilus* Lanchester, 1902: 371**

Indo-west Pacific: Arabian Sea; India; W Australia; Indonesia; ?Malay Arch.; Sea of Japan; epizoic on sea-snakes.

(44, 88, 128, 175, 234, 278, 281, 291, 345, 347, 537); (372, as *Platylepas krügeri*); (403, renames *Cryptolepas ophiophilus* Krüger as *Platylepas krugeri*).

Genus *Stomatolepas* Pilsbry, 1910

***Stomatolepas elegans* (Costa, 1838: 17)**

Cosmopolitan; epizoic on soft skin and throat of sea turtles.

(96, 112a, 175, 182, 201, 205, 345, 430, 421, 422, 500, 501, 537, 545, 602); (70, as *Coronula elegans*); (150, as *Stomatolepas praegustator*); (179, includes *S. praegustator* Pilsbry 1916: 289 and questionably *S. transversa* Nilsson-Cantell, 1930a: 2); (354, as *Stomatolepas transversa* sp. nov.); (399, 403, as *Stomatolepas praegustator*).

Genus *Cylindrolepas* Pilsbry, 1916

***Cylindrolepas sinica* Ren, 1980: 194**

Jinyindao & Yongxingdao, Xisha Is, S China Sea; epizoic.

(424, 205).

Genus *Stephanolepas* Fischer, 1886

***Stephanolepas muricata* Fischer, 1886: 193**

Indian Ocean; Ceylon; Australia; S China Sea; epizoic on turtles.

(46, 92, 109, 127, 128, 175, 179, 234, 345, 362, 372, 547).

Family Coronulidae Leach, 1817

Genus *Coronula* Lamarck, 1802

***Coronula diadema* (Linnaeus, 1767: 1108)**

Cosmopolitan; epizoic on Humpback, Fin, Blue and Sperm whales.

(27, 32, 37, 40, 65, 66, 67, 68, 69, 71, 75, 88, 95, 96, 107, 127, 128, 129, 137, 141, 142, 143, 144, 149, 173, 179, 182, 194, 195, 198, 205, 215, 228, 234, 257, 258, 259, 277, 278, 299, 322, 345, 344, 346, 347, 355, 356, 357, 372, 373, 375, 381, 468, 487, 488, 505, 543, 546b, 547, 551b, 552, 554, 563, 598); (403, as *Lepas balaenaris* Muller, *Balanus balena* Da Costa, *Diadema vulgaris* Schumacher, *Diadema candidum* Ranzani, *Polylepas kleinii* Gray, *Coronula biscayensis* Van Beneden, *Diadema japonica* Van Beneden, *Diadema californica* Van Beneden); (409, as *Diadema antiquum* Philippi, 1887: 226).

Superfamily Tetracitoidea Gruvel, stat. nov (Newman, 1993)

Family Bathylasmatidae Newman & Ross, 1971

Subfamily Hexelasmatinae Newman & Ross, 1976

Genus *Hexelasma* Hoek, 1913

***Hexelasma brintoni* (Newman & Ross, 1971: 46)**

Off Da nang, Vietnam; 110-198 m.
(112b); (112a, 344, 345, as *Aptolasma brintoni*).

***Hexelasma velutinum* Hoek, 1913: 246**

Kei Is, Indonesia; Malay Arch.; S China Sea; Philippines; S Japan; WSW Pacific; 204-390 m.
(112a, 169b, 344, 345, 451, 533, 558); (200, part); (44, ? part).

Family Tetracitidae Gruvel, 1903

Subfamily Tetracitellinae Newman & Ross, 1976

Genus *Tetracitella* Hiro, 1939

***Tetracitella chinensis* (Nilsson-Cantell, 1921: 359)**

Hong Kong; China; Taiwan; S Japan, S Honsyu, Kyusyu & Ryukyu Is; littoral.
(95, 96, 113b, 166, 205, 345, 435, 446, 448, 457, 537, 539, 594); (193, 347, as *Tetracitella purpurascens chinensis*); (164, as *Tetracitella purpurascens nipponensis* n. subsp.); (182, as *Tetracitella purpurascens nipponensis*); (512, 516, 528, as *Tetracitella (Tetracitella) chinensis*); (329a, as *Tetracitella purpurascens*).

***Tetracitella costata* (Darwin, 1854: 339)**

China; Philippines; Indonesia; littoral.
(88, 95, 96, 115, 128, 205, 345, 354, 446, 457).

***Tetracitella darwini* (Pilsbry, 1928: 314)**

China; Taiwan; Japan, S Honshu, Kyushu & Ryukyu Is; littoral.
(95, 96, 205, 259, 345, 435, 446, 514, 522, 528, 536, 537, 539); (182, 193, 194, 357, 406, 457, 512, as *Tetracitella darwini*).

***Tetracitella divisa* (Nilsson-Cantell, 1921: 362)**

Circum-tropical; Caribbean; W Africa; Java; Malaysia; Sumatra; N Australia; S China Sea; China; E Taiwan; Pacific Ocean to Hawaii and Pitcairn Is; littoral.
(31, 95, 96, 111, 205, 234, 345, 406, 435, 446, 448, 452, 457, 458, 512); (193, 194, 347, 456, 501, as *Tetracitella divisa*); (97, as *T. purpurascens*).

***Tetracitella hyastina* Rosell, 1975: 110**

Mindanao, Philippines; lowest tidal level, attached to rocks.
(345, 448).

***Tetraclitella karende* Ross, 1971a: 217**

Bombay, India; Taiwan; littoral.
(239, 345, 457, 458).

***Tetraclitella multicostata* (Nilsson-Cantell, 1930a: 2)**

N. Australia; Indonesia; Malaysia; China; New Guinea; Fiji; Japan; W Pacific; lower littoral.
(111, 205, 234, 345, 435, 446, 457); (353, as *Tetraclita purpurascens* var. *multicostata*); (354, as *Tetraclita purpurascens multicostata* nov. var.); (528, as *Tetraclita multicostata*); (194, as *Tetraclita chinensis*).

***Tetraclitella multicostata digita* Rosell, 1975a: 97**

Puerto Galera (Anton Point), Oriental Mindoro, Philippines (13°30'10"N, 120°57'30"E);
littoral, lower tide level.
(446).

***Tetraclitella pilsbryi* (Utinomi, 1962: 234)**

Hong Kong; S China Sea; China; S Japan; littoral to sublittoral.
(113b, 205, 345, 432, 446, 457, 528, 537, 539); (528, as *Tetraclita pilsbryi*).

Genus *Newmanella* Ross, 1969

***Newmanella vitata* (Darwin, 1854: 340)**

Indo-west Pacific: Indian Ocean; Nicobar Is; Australia (northern); Great Barrier Reef, Australia; Indonesia; Malay Arch.; Sulu Arch.; Philippines; South Sea Islands; littoral, lower tidal levels.
(39, 88, 101, 102, 127, 128, 176, 191, 200, 234, 345, 403, 442, 489, 490, 547).

Genus *Astroclita* Ren & Liu, 1979

***Astroclita longicostata* Ren & Liu, 1979: 342**

Yongxingdao, Xisha Is, Guangdong Province, China; littoral.
(205, 435).

Subfamily Tetraclitinae Gruvel, 1903

Genus *Tesseropora* Pilsbry, 1916

***Tesseropora alba* Ren & Liu, 1979: 344**

Gaojianshi, Xisha Is, Guangdong Province, S China Sea; littoral.
(205, 435).

Genus *Tetraclita* Schumacher, 1817

***Tetraclita coerulescens* (Spengler, 1790: 191)**

Indo-west Pacific: Indian Ocean; Bay of Bengal; Mergui Arch., N Australia; Indonesia; Malay Arch.; Sulu Arch.; China; Philippines; Goram I.; Palao Is; Pacific Ocean; littoral. (44, 88, 95, 96, 101, 128, 175, 176, 181, 191, 195, 200, 205, 234, 345, 372, 403, 435, 442, 484, 490, 547).

***Tetraclita serrata* (Darwin, 1854: 334)**

Indo-west Pacific: Indian Ocean; Bay of Bengal; Mergui Arch., Australia; Indonesia; Sulu Arch.; Philippines; Palao Is; littoral. (4, 29, 88, 93, 127, 128, 200, 317, 345, 372, 387, 437, 442, 466, 487, 547).

***Tetraclita squamosa formosana* Hiro, 1939e: 271**

S and NE Taiwan; S Japan, S Honshu, Kyushu & Ryukyu Is; littoral. (193, 345, 380, 512, 516, 536).

***Tetraclita squamosa japonica* Pilsbry, 1916: 252**

Hong Kong; S China Sea; China; Taiwan; S Japan, S Honshu, Kyushu & Ryukyu Is; Korea (Tugaru Strait); littoral. (62, 95, 96, 113b, 165, 166, 182, 194, 203, 205, 216, 259, 284, 324, 327, 328, 345, 349, 357, 359, 403, 435, 503, 505, 512, 514, 522, 534, 536, 537, 539, 575, 576); (211, as *Tetraclita japonica*); (279, as *Tetraclita porosa* var. *nigrescens*); (403, as *T. porosa*); (547, as var. *rubescens*).

***Tetraclita squamosa perfecta* Nilsson-Cantell, 1931a: 133**

Santuaio, China; littoral. (357, 345).

***Tetraclita squamosa squamosa* (Bruguère, 1789: 170)**

Rio de Janiero; C. Palmas, W Africa; Indo-west Pacific: Red Sea; Indian Ocean; Mergui Arch.; Andaman Is; Great Nicobar I.; N Australia; Sunda Is, Indonesia; Sumatra; Makassar, Sumbawa; E Flores; Malay Arch.; Réam and Dama Is, Cambodia; Gulf of Siam; Rifleman's Bank, Atoll Itu Aba; Bay of Nhatrang; Hong Kong; S China Sea; China; Mindanai, Philippines; Taiwan; S Japan (Sagami Bay); S Honshu, Kyushu & Ryukyu Is; Palau Is; Caroline Is.; South Sea Islands; littoral. (27, 34, 35, 38, 39, 41, 44, 46, 48, 62, 74, 92, 95, 96, 101, 113b, 120, 121, 128, 133, 134, 151, 191, 193, 194, 200, 211, 203, 234, 279, 259, 279, 280, 282, 284, 301, 321, 329a, 330, 345, 347, 354, 357, 377, 380, 403, 414, 417, 426, 435, 442, 444, 490, 501, 510, 512, 516, 522, 534, 536, 547, 553, 575, 576); (88, as *Tetraclita porosa* var. *viridis*); (379, 546b, as ? *T. stalactifera*); (111, 176, 181, 182, 192, 514, as *T. squamosa viridis*); (205, as *T. viridis*); (364, 365, 372, as *Tetraclita porosa viridis*); (484, ? *Lepas mitra*); (487, as *porosa* Gmelin, 1790 = *squamosa* Bruguère).

Superfamily Balanoidea Leach, 1817
Family Archaeobalanidae Newman & Ross, 1976
Subfamily Archaeobalaninae Newman & Ross, 1976
Genus *Armatobalanus* Hoek, 1913

***Armatobalanus (Armatobalanus) allium* (Darwin, 1854: 281)**

Indo-west Pacific: Bay of Bengal; Ceylon; Andamans; W coast of Sumatra; Indonesia; N Australia; Great Barrier Reef, Australia; Malay Arch.; Hong Kong; China; SW Japan; attached to living scleractinian corals (eg. *Montipora informis*, *M. venosa*, *Psammocora superficialis*, *P. contigua*, *Porites lobata*, *Pavona decussata*, *Cyathelia avillaris*, *Acanthastrea* sp., *Plesiastrea versipora*, *Cyphastrea serailia*, *Oulastrea crispata*); 9-55 m. (4, 88, 95, 96, 113b, 128, 205, 234, 265, 345, 403, 434, 528, 539, 547, 600); (20, 44, 347, 372, 512, as *Balanus arcuatus*); (39, as *Acasta madreporicola* n. sp.); (175, 512, as *Acasta madreporicola*); (200, as *Balanus arcuatus* n. sp.); (599, as *Balanus (Armatobalanus) allium*, *Balanus (Armatobalanus) allium truncatus* and *Balanus (Armatobalanus) arcuatus*).

***Armatobalanus (Armatobalanus) cepa* (Darwin, 1854: 283)**

Indo-west Pacific: Indian Ocean; Gulf of Manaar; Maldives; Ceylon; Mergui Arch.; N Australia; Aroe Is; Indonesia; Malay Arch.; China; Philippines; SW Japan; sublittoral to 50 m. (44, 88, 95, 96, 128, 205, 234, 329a, 345, 361, 403, 434, 512, 528, 539); (4, 36, as ?*Balanus terebratus*); (4, as ?*Balanus allium*); (20, 176, as ?*Balanus fujiyama*); (259, 599, as *Balanus fujiyama*); (262, as *Balanus fujiyamaformis* n. sp.); (372, as *Balanus cepa*); (599, as *Balanus fujiyamaformis*).

***Armatobalanus (Armatobalanus) quadrivittatus* (Darwin, 1854: 284)**

Indo-west Pacific: Indian Ocean; Mergui Arch.; Maldives; Indonesia; western & northern Australia; Java Sea; Timor; Banda; Singapore; Malay Arch.; Vietnam; Cauda Nhatrang; SW Japan; Philippines; 31-51 m. (36, 46, 88, 91, 92, 127, 128, 195, 200, 235, 261, 266, 345, 347, 403, 528, 539, 547); (365, 372, as *Balanus quadrivittatus*); (599, as *Balanus (Armatobalanus) quadrivittatus*).

***Armatobalanus (Armatobalanus) terebratus* (Darwin, 1854: 285)**

Indo-west Pacific: Madras, India; Mergui Arch.; N Australia; Kei Is; Malay Arch.; Gulf of Siam; Palau Is; attached to corals; frequently overgrown by sponges; 0-55 m. (4, 36, 38, 88, 92, 128, 171, 200, 234, 278, 345, 547, 599); (181, 372, as *Balanus terebratus*).

Genus *Chirona* Gray, 1825

***Chirona (Striatobalanus) amaryllis* (Darwin, 1854: 279)**

Indo-west Pacific: S and E Africa, Indian Ocean; northern Australia; Arafura Sea; Singapore; Malay Arch.; Réam (Cambodia); Gulf of Siam; Mouth of Bassac; Bay of Nhatrang; Lien Chien, Tourane; Tourane; Condor Is; Hong Kong; S China Sea; China; Philippines; S Japan; 5-500 m; sublittoral fouling species. (4, 38, 80, 92, 94, 96, 101, 113b, 127, 176, 192, 195, 199, 200, 212, 207, 203, 234, 238, 244, 279, 280, 284, 345, 347, 357, 403, 433, 450, 451, 492, 494, 528, 531, 534, 535, 539, 547, 575, 576, 194); (88, var a [= *Balanus roseus* Lamarck, 1818], var. b); (39, as forma *eumaryllis* nov.); (44, as *foma*

laevis nov.); (46, as *Balanus amaryllis amaryllis* and *Balanus amaryllis niveus*); (95, as *Balanus amaryllis* and *Balanus amaryllis euamaryllis*); (128, as var. *niveus* nov. = var. b Darwin, 1854); (205, 364, 365, 367, as *Balanus amaryllis*); (291, as *Balanus amaryllis dissimilis* n. subsp.; as *Balanus amaryllis dissimilis* var. *clarovittata*); (349, as *Balanus amaryllis* forma *euamaryllis*); (349, 354, as *Balanus amaryllis euamaryllis*); (as *Balanus amaryllis* f. *euamaryllis*, *Balanus amaryllis* f. *nivea*); (449, as *Balanus (Chirona) amaryllis*).

***Chirona (Striatobalanus) krugeri* (Pilsbry, 1916: 214)**

Kei Is; Moluccas; China; Japan; 100-250 m.
(44, 95, 96, 205, 345, 403, 513, 522); (169b, 182, 190, as *Balanus krugeri*); (194, as *Balanus amphitrite krugeri*).

***Chirona (Striatobalanus) taiwanensis* (Hiro, 1939e: 264)**

China; Taiwan (Formosa).
(96, 205, 345); (193, 95, as *Balanus taiwanensis*).

***Chirona (Striatobalanus) tenuis* (Hoek, 1883: 154)**

Indo-west Pacific: S Africa; Persian Gulf; Indian Ocean; N Australia; Arafura Sea; Singapore; Malay Arch.; China; S and E China Sea; Philippines; S & E Japan; W Pacific; 7-551 m.
(27, 44, 80, 95, 96, 128, 195, 234, 345, 348, 349, 402, 403, 433, 434, 450, 493, 514, 528, 534, 535, 539, 547); (182, 199, 205, 372, as *Balanus tenuis*); (199, as *Balanus albus* n. sp.); (200, as *B. albus* sp. nov.); (449, as *Balanus (Chirona) tenuis*); (492, as *Balanus (Chirona) albus*).

Genus *Solidobalanus* Hoek, 1913

***Solidobalanus (Solidobalanus) auricoma* (Hoek, 1913: 198)**

W Atlantic Ocean; Mediterranean Sea; Indo-west Pacific: Indian Ocean; Persian Gulf; N Australia; Banda Sea; Indonesia; Malay Arch.; Moluccas; Philippines; S Japan; NW New Zealand; WSW Pacific Ocean; attached to gorgonians; 27-320 m.
(112a, 234, 345, 364, 535, 603); (39, 112b, 200, 449, as *Balanus (Solidobalanus) auricoma*); (44, 155, 372, as *Balanus auricoma*).

***Solidobalanus (Solidobalanus) cidaricola* (Ren & Liu, 1978: 170)**

China; E China Sea 29°00'N 126°15'E; on spine of cidarid echinoid; 110 m.
(96, 205, 433); (95, 434, as *Balanus cidaricola*).

***Solidobalanus (Solidobalanus) ciliatus* (Hoek, 1913: 199)**

Indo-west Pacific: Indian Ocean; Gulfs of Aden, Persia and Manaar; Indonesia; N Australia; Malay Arch.; Réam (Cambodia); Gulf of Siam; Ile Tre, Nhatrang; Condor Is; Hong Kong; E and S China Sea; Philippines; S Japan; attached to horny corals (eg. *Antipathella japonica* (stem), *Euplexaurea* sp.); 13-220 m.
(44, 92, 95, 96, 113b, 155, 200, 205, 234, 345, 348, 402, 433, 434, 492, 535, 603); (46, 200, 364, 365, 372, as *Balanus ciliatus*); (4, as *Balanus maldivensis*).

***Solidobalanus (Solidobalanus) echinoplacis* (Stubbings, 1936: 45)**

Indo-west Pacific: E coast of Africa (Zanzibar) to Philippines; attached to spines of echinoids; 150-550 m.
(155, 345, 451, 603); (492, as *Balanus echinoplacis*); (200, as *Balanus ciliatus*); (449, as *Balanus (Solidobalanus) echinoplacis*).

***Solidobalanus (Solidobalanus) hawaiiensis* (Pilsbry, 1916: 222)**

Philippines, Japan, Hawaii, West Pacific and Mid-Pacific; attached to antipatharians; 21-406 m.
(115, 345, 451, 603); (155, 403, 513, as *Balanus hawaiiensis*); (449, as *Balanus (Solidobalanus) hawaiiensis*).

***Solidobalanus (Solidobalanus) maldivensis* (Borradaile, 1903: 442)**

Indo-west Pacific: Indian Ocean (Maldives), Indonesia, Philippines; attached to echinoid spines; 54-390 m.
(155, 345, 451, 603); (4, 36, 200, as *Balanus maldivensis*); (449, 450, as *Balanus (Solidobalanus) maldivensis*).

***Solidobalanus (Solidobalanus) socialis* (Hoek, 1883: 150)**

Indo-west Pacific: Gulfs of Persia and Manaar; Bay of Bengal; N Australia; Indonesia; Malay Arch; China; SE coast of Japan; 0-91 m; fouling species.
(95, 96, 155, 166, 200, 205, 345, 434, 496, 512, 528, 534, 535, 537, 539, 547, 603); (4, 128, 200, as *Balanus aeneas*); (182, 365, 367, 372, as *Balanus socialis*); (291, as *Balanus aeneas* n. sp.).

Genus *Membranobalanus* Hoek, 1913

***Membranobalanus brachialis* (Rosell, 1972: 184)**

NE Medio Islet, Puerto Galera, Oriental Mindoro, Philippines.
(345); (442, as *Balanus (Membranobalanus) brachialis*).

***Membranobalanus cuneiformis* Hiro, 1936b: 627**

N Australia; Arafura Sea; China's seas; Japan; 0-15 m.
(192, 234, 345); (95, 96, 176, 205, as *Conopea cuneiformis*).

***Membranobalanus longirostrum* (Hoek, 1913: 205)**

Indian Ocean; East coast of India to Singapore; Malay Arch.; Fu Kuoh Is, Cambodia; Gulf of Siam; Condor I.; Lien Chien, Tourane; Bay of Along, near Hongay, Tonkin; China; 6-36 m.
(44, 92, 96, 176, 200, 205, 345, 347, 413, 434, 534); (46, 95, 372, as *Balanus longirostrum*); (85, as *Balanus (Membranobalanus) roonwali* n. sp.); (502, as *Balanus (Membranobalanus) basicupula* n. sp.); (547, as ?*Balanus declivis*).

***Membranobalanus orcutti* (Pilsbry, 1907: 361)**

San Isidro (written as Ysidro), Lower California ; South Africa (as cited by Hiro, 1936);
Bauang Dakula Reef, Tandubas, Tawitawi, Sulu Arch., Philippines.
(345, 447); (393, as *Balanus* (*Membranobalanus*) *orcutti*).

Genus *Conopea* Say, 1822

***Conopea calceolus* (Ellis, 1758: 853)**

W coast of Africa, Mediterranean to S. Africa; Indo-west Pacific: Indian Ocean; Persian Gulf to N Australia, Malay Arch., Hong Kong; Philippines, China; Japan; 16-250 m; on gorgonian stems (eg. *Villagorgia compressa*, *Muricella* sp., *Echinogorgia flora*, *Euplexaurea* sp., *Paraplexaurea* sp.).

Miocene to Pleistocene, Italy; Coralline Crag, England.

(1, 2, 39, 41, 42, 80, 89, 95, 96, 99, 113b, 114, 127, 128, 130, 134, 200, 205, 234, 262, 279, 280, 284, 315, 345, 350, 403, 422, 434, 451, 487, 497, 499, 512, 522, 528, 536, 514, 539, 547, 562); (44, 501, 525, 535, as *Balanus* (*Conopea*) *calceola*); (88, as *Balanus calceola*); (182, 372, as *Balanus calceolus*).

***Conopea canaliculatus* (Ren & Liu, 1978: 183)**

S China Sea; on gorgonians.
(434, 95, 96, 205).

***Conopea cymbiformis* (Darwin, 1854: 221)**

Indo-west Pacific: Indian Ocean; Gulf of Aden, India, east to Fiji and NW to Indonesia, N Australia, Malay Arch.; China; Philippines; S Japan; Fiji Islands; attached to coenosarc of gorgonians and antipatharians; littoral-453 m.

(44, 80, 92, 95, 96, 111, 128, 171, 205, 234, 279, 280, 285, 345, 434, 451, 512, 514, 539); (88, 372, 522, as *Balanus cymbiformis*); (39, as *Balanus proropiens*); (200, as *Balanus proropiens* n. sp.); (200, as *Pyrgoma jedani* n. sp.); (347, 492, 528, as *Balanus* (*Conopea*) *cymbiformis*).

***Conopea dentifer* (Broch, 1922: 326)**

Kei Is; Indonesia, Philippines and S Japan, W-SW Pacific, off Tonga I.; embedded in coenosarc of gorgonians and antipatharians; 26-266 m.
(277, 284, 345, 451); (39, 44, as *Balanus dentifer*).

***Conopea granulata* (Hiro, 1937: 444)**

China; Taiwan; Philippines (NW Panay Is.); S Japan (Tanabe Bay); embedded in coenosarc of gorgonians and antipatharians; 90-200 m.

(96, 205, 345, 451, 512, 514); (182, 193, 522, 528, 537, 539, as *Balanus* (*Conopea*) *granulatus*); (95, as *Balanus granulatus*).

***Conopea navicula* (Darwin, 1854: 221)**

Indo-west Pacific: Indian Ocean; Gulfs of Aden, Persia and Siam; Indonesia; Malay Arch.; China; S Japan; 45-220 m.

(88, 92, 95, 96, 128, 200, 205, 285, 345, 434, 492, 528, 535, 539, 547); (372, as *Balanus navicula*).

***Conopea sinensis* (Ren & Liu 1978: 181)**

S China Sea (Sanmendao, Guangdong Province); China (Dongshan, Fujian Province); on antipatharians.
(95, 96, 205); (434, as *Balanus (Conopea) sinensis*).

***Conopea squamosa* Rosell, 1991: 56**

Mindoro Str. (12°31.2'N, 120°39.3E) and SW of Nasugbu, Batangas, Philippines (13°59.25'N, 120°18.2E); embedded in white gorgonian; 92-193 m.
(451).

**Subfamily Acastinae Kolbasov, 1993
Genus *Acasta* Leach, 1817**

***Acasta alcyonica* Rosell, 1991: 41**

Philippines (12°01.1'N, 121°57.3E); embedded in stalk of a nephtheid alcyonarian; 92-95m.
(451).

***Acasta apertura* Rosell, 1991: 42**

Philippines (11°36.6'N, 121°43.0E); embedded in stalk of a nephtheid alcyonarian; 120-122 m.
(451).

***Acasta conica* Hoek, 1913: 235**

Celebes; Sulu Arch.; China; 40-60 m.
(39, 200, 252, 345, 428); (205, as *Acasta spinosa*).

***Acasta coriolis* Rosell, 1991: 46**

Mindoro Str., Philippines (12°31.2'N, 120°39.3E); embedded in calcareous sponge; 92-97 m.
(451).

***Acasta cyathus* Darwin, 1854: 312**

Florida; Caribbean; Madeira; Morocco; Indo-west Pacific: Indian Ocean; E Africa; Red Sea; Gulf of Manaar; W Australia; Singapore; Kei Is; Sulu Arch.; Malay Arch.; Philippines; 15-180 m.
(4, 27, 39, 42, 44, 88, 117, 127, 128, 150, 200, 234, 252, 345, 347, 372, 403, 408, 492, 545, 547, 553, 554, 593).

***Acasta echinata* Hiro, 1937a: 70**

Mouth of Bassac; Vietnam (Condor I.); Philippines (off SW Mindoro I.); S Japan; W Pacific; embedded in alcyonarian; 15-97 m.
(92, 252, 345, 451, 512, 526); (180, 461, 528, as *Acasta echinata*).

***Acasta fenestrata* Darwin, 1854: 316**

Indo-west Pacific: Indian Ocean; Red Sea; Bay of Bengal; Australia; Malay Arch.; China; Philippines; Seto, Japan; to 51 m.
(88, 128, 192, 195, 200, 205, 252, 279, 280, 372, 428, 450, 442, 514, 522, 547, 554, 345).

***Acasta flexuosa* (Nilsson-Cantell, 1931b: 130)**

S China Sea; China.
(182, 205, 252, 428, 512, 345, 252); (357, as *Pseudoacasta flexuosa*).

***Acasta idiopoma* Pilsbry, 1912: 294**

Gulf of Davao, Mindanao, Philippines; 40 m.
(252, 345, 402, 403).

***Acasta japonica* Pilsbry, 1911: 80**

Malay Arch.; Cambodia; Réam (Cambodia); Gulf of Siam; Thailand; Ile Tre, Nhatrang; Taiwan; Southern Japan; 10-800 m.
(46, 39, 44, 92, 194, 252, 284, 345, 372, 400, 403, 528, 537, 601).

***Acasta perforata* Rosell, 1991: 49**

Mindoro Str., Philippines (12°31.2'N, 120°39.3E); embedded in siliceous sponge encrusting on antipatharian; 92-97 m.
(451).

***Acasta purpurata* Darwin, 1854: 318**

Indian Ocean; N Australia; Malay Arch.; Sumatra; Philippines; 0-5 m.
(88, 128, 182, 200, 234, 252, 345, 372, 526, 547).

***Acasta armata* (Gravier, 1921: 353)**

Djibouti; China: S China Sea; Sanya, Hainan I., Guangdong Province; in sponge *Petrosia* sp.; sublittoral to 20 m.
(117, 205, 252, 428).

***Acasta spinosa* Hiro, 1939e: 267**

China; Formosa (Taiwan).
(95, 96, 193, 345).

***Acasta spongites* (Poli, 1795: 25)**

N Atlantic, British Isles to Mediterranean; S Africa; Indo-west Pacific: W part of Indian Ocean; Australia; S China Sea; China; Japan (Hakodate, Sagami Bay); in sponge.
(27, 88, 128, 205, 234, 252, 259, 345, 372, 403, 410, 428, 487, 514, 522, 535, 547).

***Acasta sulcata* Lamarck, 1818: 398**

Indo-west Pacific: Indian Ocean; Persian Gulf; Red Sea; Maldives; Laccadives; Australia; Malay Arch.; Réam (Cambodia); Gulf of Siam; Condor Is; Cauda Nhatrang; Ile Tre, Nhatrang; Lien Chien, Tourane; South China Sea; Vietnam; S China Sea; Hong Kong; China; Philippines; Japan; embedded in sponges.

(36, 46, 88, 92, 113b, 127, 128, 182, 205, 203, 234, 252, 262, 290, 299, 280, 345, 372, 428, 494, 514, 522, 535, 547, 393).

Genus *Archiacasta* Kolbasov, 1993

***Archiacasta fragilis* Ren, 1984c: 188**

S China Sea; Xinying, Hainan I., Guangdong Province; embedded in sponge *Ircinia* sp.; inter-tidal, coral reef.

(252); (205, 428, as *Acasta fragilis*).

***Archiacasta hainanensis* Ren, 1984c: 186**

S China Sea: 18°30'N 110°30'E; embedded in the sponge *Ircinia* sp.; 112 m.

(252); (205, 428, as *Acasta hainanensis*).

***Archiacasta membranacea* (Barnard, 1924: 88)**

S Africa; S China Sea; embedded in sponge.

(252); (27, 205, 345, 372, 428, as *Acasta membranacea*).

***Archiacasta spinitergum* Broch, 1931: 112**

N Australia; Java Sea; Indonesia, Hong Kong; China; Philippines; embedded in sponge; 35 m.

(252, 345); (44, 113b, 175, 205, 234, 259, 345, 526, as *Acasta spinitergum*).

***Archiacasta tenuivalvata* (Broch, 1947: 28)**

Vietnam (Lien Chien, Tourane); embedded in sponge; 15 m.

(252); (46, 92, 345, as *Acasta tenuivalvata*).

Genus *Euacasta* Kolbasov, 1993

***Euacasta aculeata* Nilsson-Cantell, 1921: 342**

Gulf of Siam; embedded in sponges.

(252); (345, 347, as *Acasta aculeata*).

***Euacasta ctenodentia* Rosell, 1972: 200**

Puerto Galera, Oriental Mindoro, Philippines; embedded in sponges.

(252); (345, 442, as *Acasta ctenodentia*).

***Euacasta dofleini* Kruger, 1911a: 56**

Australia; Indonesia; Sulu Arch.; Australia; Singapore; Malay Arch.; S China Sea; Hong Kong; China; Philippines; S Japan; embedded in sponges (eg. *Callyspongia diffusa*, *Cacospongia* sp., *Pseudaxnyssa* sp., *Reniera* sp.); littoral - 280 m.

(252); (39, 44, 92, 113b, 176, 182, 205, 203, 229, 234, 279, 280, 329a, 345, 347, 403, 428, 442, 514, 522, 527a, 528, 534, 536, as *Acasta dofleini*); (164, as *A. aperta* sp. nov.).

***Euacasta microforamina* Rosell, 1970: 105**

Philippines; embedded in sponge.

(252); (345, 441, as *Acasta microforamina*).

***Euacasta porata* Nilsson-Cantell, 1921: 348**

Indo-west Pacific: Indian Ocean; Bay of Bengal; Sunda Is, Indonesia; Malay Arch.; Vietnam; Lien Chien, Tourane; Mindanao, Philippines; embedded in sponges; 1-55 m.

(252); (44, 46, 92, 345, 347, 372, 442, as *Acasta porata*).

***Euscasta sporillus* Darwin, 1854: 319**

Sulu Arch.; S China Sea; China, Japan; embedded in sponges.

(252); (88, 128, 164, 200, 205, 345, 428, 547, as *Acasta sporillus*).

***Euacasta zuiho* Hiro, 1936b: 632**

N of Port Darwin, N Australia; S China Sea; China; embedded in sponges.

(252); (95, 96, 176, 205, 234, 345, 428, as *Acasta zuiho*).

Genus *Neoacasta* Kolbasov, 1993

***Neoacasta coriobasis* Broch, 1947: 25**

Indo-China; Mouth of Bassac; China; Japan, Hiroshima Bay; embedded in sponges.

(252); (46, 92, 205, 345, 430, 515, as *Acasta coriobasis*).

***Neoacasta glans* Lamarck, 1818: 398**

Indo-west Pacific: Iranian Gulf; Bay of Bengal; Australia; Indonesia; Malay Arch.; S China Sea; China; Philippines; embedded in sponges; 15-55 m.

(252); (44, 127, 128, 200, 205, 234, 259, 290, 345, 372, 403, 428, 535, 547, as *Acasta glans*).

***Neoacasta laevigata* Gray, 1825: 103**

Indo-west Pacific: Red Sea; Indian Ocean; Zanzibar; Andaman Is; Malay Arch.; China; Philippines; Japan; Palau Is; embedded in sponges; littoral.

(252); (88, 118, 127, 128, 181, 200, 205, 345, 372, 428, 442, 547, 593, as *Acasta laevigata*).

Genus *Pectinoacasta* Kolbasov, 1993

***Pectinoacasta pectinipes* Pilsbry, 1912: 294**

Indo-west Pacific; S Africa; Indian Ocean; Andaman Is; Australia; Java Sea; Sulu Arch.; Malay Arch.; S China Sea; Hong Kong; China; Philippines (near Malavatuan Island, off S Luzon); Japan; embedded in sponges (eg. *Reniera* sp., *Tedania* sp.); 10-170 m. (252); (27, 28, 39, 44, 113b, 164, 182, 200, 229, 265, 234, 282, 345, 402, 428, 512, 527a, 528, 536, 601, as *Acasta pectinipes*); (164, as *A. komaii* n. sp.); (200, as *A. nitida* n. sp.); (403, synonymises *A. nitida* with *A. pectinipes*); (372, synonymises *A. komaii* with *A. pectinipes*).

***Pectinoacasta sculptura* Broch, 1931: 101**

Java Sea; Indonesia to Philippines; embedded in siliceous sponges; 49-97 m. (252); (44, 345, 451, 526, as *Acasta sculptura*).

Family Pyrgomatidae Gray, 1825

Subfamily Pyrgomatinae Gray, 1825

Tribe Pyrgomatini Ross & Newman, 1995

Genus *Cantellius* Ross & Newman, 1973

***Cantellius acutum* (Hiro, 1938d: 396)**

N Australia; Philippines; Japan; Palau Is. (111, 128, 171, 187, 234, 262, 345, 347, 462, 528); (88, as *Creusia spinulosa* var. 6, subvar. 2).

***Cantellius albus* Ren, 1986: 138**

S China Sea: Sanya & Yulin, Hainan Is; Dongdao & Yongxingdao, Xisha Is, Guangdong; South China Sea; associated with *Acropora* spp, *Acropora armata* (Brook). (205, 429, 430).

***Cantellius euspinulosa* (Broch, 1931: 118)**

Indo-west Pacific: Bay of Bengal; Andaman Is; Mergui Arch.; N Australia; Indonesia; Singapore; Malay Arch.; China; Sulu Arch.; Philippines; Japan (Pacific coast); Palau Is; associated with coral reefs. (20, 30, 44, 96, 111, 127, 128, 187, 234, 262, 345, 462, 528); (88, as *Creusia spinulosa* var. 1); (95, 205, as *Creusia spinulosa euspinulosa*); (as *Creusia spinulosa* var. *euspinulosa* (var. 1)); (182, as *Creusia spinulosa* var. *euspinulosa*); (372, as *Creusia spinulosa* f. *euspinulosa*, nom. nov.); (512, as *Creusia spinulosa* f. *euspinulosa*).

***Cantellius gregarius* (Sowerby, 1823: no pagination)**

Indian Ocean; Bay of Bengal; N Australia; Banda Sea, Indonesia; Malay Arch.; Singapore; China; in *Acropora* sp.; associated with coral reefs; 0 to 70 m. (128, 187, 205, 234, 262, 266, 345, 429, 430, 479); (44, as *Creusia spinulosa* forma *gregaria*); (88, as *Creusia spinulosa* var. 3); (171, as *Creusia spinulosa* var. *gregaria* (var. 3)); (372, as *Creusia spinulosa* f. *gregaria* Broch, nom. nov.).

***Cantellius iwayama* (Hiro, 1938: 393)**

China; Palau I; on *Acropora* sp.
(205, 345, 429, 462); (187, as *Creusia spinulosa* forma *iwayama*).

***Cantellius madreporum* (Borradaile, 1903: 443)**

Maldives; ?Gulf of Siam; associated with coral reefs.
(36, 92, 171, 200, 372, 345, 462).

***Cantellius pallidus* (Broch, 1931: 118)**

Indo-west Pacific: N Australia; Banda Sea, Indonesia; Singapore; S China Sea; Hong Kong; China; Philippines; Japan; Fiji; associated with corals *Montipora foliosa* (Pallas), *M. Streata* Bernard, *M. solanderi* Bernard, *M. sinensis* Bernard, *M. listeri* Bernard, *M. gaimardi* Bernard, *Pavona frondifera* Lamarck, *P. minikoiensis* (Gardiner), *P. praetorta* Dana, *P. lata* Dana, *Pocillopora brevicornis* Lamarck, *P. damicornis* (Linnaeus), *P. danae* Verrill, *Cyphastrea serailia* (Forskål), *Merulina amplicata* (Ellis & Solander).
(44, 96, 113b, 187, 234, 261, 262, 329a, 345, 429, 430, 462); (95, as *Creusia spinulosa pallida*); (171, 182, 205, as *Creusia spinulosa* var. *pallida*).

***Cantellius secundus* (Broch, 1931: 118)**

Indo-west Pacific: Red Sea; N Australia; Andaman Is; Kei Is; Malay Arch.; Singapore; Hong Kong; China; Japan; Palau Is; associated with corals *Acropora formosa* (Dana), *A. corymbosa* (Lamarck); to 20 m.
(110, 113b, 127, 128, 234, 345, 429, 430, 462, 528, 539, 593); (44, 187, 261, as *Creusia spinulosa* forma *secunda*); (88, as *Creusia spinulosa* var. 2); (171, as *Creusia spinulosa* var. *secunda* (var. 2)); (372, as *Creusia spinulosa* f. *secunda*, nom. nov.).

***Cantellius septimus* (Hiro, 1938d: 395)**

Indo-west Pacific: Indian Ocean; N Australia; China; Philippines; Palau Is; associated with *Montipora fragilis* Quelch, *M. ramosa* Barnard, *M. fruiticosa* Barnard, *M. gaimardia* Barnard, *M. foliosa* (Pallas), *M. striata* Barnard, *M. solanderi* Barnard; 0-20 m.
(234, 256, 259, 262, 345, 429, 430, 430); (187, as *Creusia spinulosa* forma *septima*); (88, 261, 347, as *Creusia spinulosa* var. 7).

***Cantellius sextus* Hiro, 1938d: 398**

Philippines; Palau Is; associated with coral reefs.
(128, 187, 345, 462); (88, as *Creusia spinulosa* var. 6 subsp. 3).

***Cantellius sinensis* Ren, 1986: 137**

S China Sea: Dongdao & Yongxingdao, Xisha Is, Guangdong; associated with *Acropora pacifica* (Brook).
(205, 429, 430).

***Cantellius transversalis* Nilsson-Cantell, 1938a: 61**

Indo-west Pacific: Indian Ocean; Andaman Is; Malay Arch.; Philippines; associated with coral reefs.

(127, 128, 345, 347, 371, 462); (88, as *Creusia spinulosa* var. 6 subvar. 1); (372, as *Creusia spinulosa* f. *transversalis*, nom. nov.).

***Cantellius tredecimus* Kolosvary, 1947d: 365**

Singapore; associated with coral reefs.

(261, 262, 345).

Genus *Creusia* Leach, 1817

***Creusia indicum* (Annandale, 1924: 64)**

Indo-west Pacific: Indian Ocean; Bay of Bengal; Mergui Arch.; Kei Is.; Singapore; Malay Arch.; Hong Kong; China; Japan; Palau Is; associated with corals *Favia palauensis* Yabe & Sugiyama, *F. speciosa* (Dana), *Goniastrea aspera* Verrill, *G. yamanarii* (Yabe & Sugiyama), *Podabacia crustacea* (Pallas).

(26, 95, 96, 113b, 329a, 345, 372, 429, 430, 511, 532); (20, as *Pyrgoma indicum* phase *merulinae* nov. and phase *symphylliae* nov.); (44, 187, as *C. spinulosa* forma *angustiradiata* nov.); (88, 200, as *C. spinulosa* var. 11); (171, 182, as *C. spinulosa* var. *angustiradiata* nov.); (205, as *Creusia indicum*); (372, as *Creusia spinulosa* forma *angustiradiata*); (528, as *Pyrgoma indicum*); (532, 539, as *Creusia indica*).

Genus *Savignium* Leach, 1825

***Savignium crenatum* (Sowerby, 1823: no pagination)**

Indo-west Pacific: Indian Ocean; Mergui Arch.; Great Barrier Reef, Australia; Singapore; Malay Arch.; Hong Kong; China; Philippines; Japan; Line Is; Palau Is; associated with corals *Goniastrea aspera* Verrill, *Favites abdita* (Ellis & Solander), *Merulina ampliaya* (Ellis & Solander); 0-20 m.

(479, 113b, 187, 205, 234, 329a, 345, 429, 430, 462, 547); (20, as *Pyrgoma crenatum* phase *tridacophylliae* nov.); (44, 88, 98, 128, 171, 182, 259, 261, 262, 265, 372, 403, 512, 539, as *Pyrgoma crenatum*).

***Savignium dentatum* (Darwin, 1854: 369)**

Indo-west Pacific: Red Sea; N Australia; Malay Arch.; Gulf of Siam; New Guinea; Hong Kong; China; Japan; Palau Is; associated with living scleractinian corals (eg. *Favites pentagona*, *F. abdita*, *Goniastrea* sp.); 0-20 m.

(92, 113b, 128, 135, 164, 205, 234, 262, 345, 372, 429, 430, 462, 547); (88, 182, 187, as *Pyrgoma dentatum*).

***Savignium elongatum* (Hiro, 1931: 154)**

Indo-west Pacific: Australia; Gulf of Siam; Hong Kong; China; Japan; Palau Is; attached to living scleractinian corals (eg. *Goniastrea aspera*).
(92, 113b, 164, 182, 187, 205, 345, 462); (171, 187, as *Pyrgoma elongatum*).

***Savignium milliporae* (Darwin, 1854: 367)**

Indo-west Pacific: N Australia; China; east to Palau Is and Fiji; associated with coral *Millipora* sp.; 0-5 m.
(30, 171, 175, 205, 234, 345, 462, 430, 547); (44, 88, 111, 128, 187, 200, 347, 372, as *Pyrgoma milliporae*); (263, as *Pyrgoma milliporae* forma *typica* nov.; as *Pyrgoma milliporae* forma *snellius* nov.).

***Savignium orientale* Ren, 1986: 143**

S China Sea: Nanaodao, Chenzhen, Guangdong; associated with coral *Goniastrea* sp.
(205, 429, 430).

Genus *Nobia* Sowerby, 1823

***Nobia conjunctum* (Darwin, 1854: 364)**

Indo-west Pacific: Red Sea; Ceylon; Mergui Arch.; N Australia; Singapore; Gulf of Siam; Hong Kong; China; Sulu Arch.; Japan; associated with living scleractinian corals (eg. *Cyphastrea conjugatum* (Forskål), *Cyphastrea* sp., *Goniastrea* sp.).
(96, 113b, 205, 234, 261, 329a, 345, 429, 430); (4, 39, 46, 88, 95, 128, 164, 171, 182, 200, 372, 547, as *Pyrgoma conjugatum*); (462, as *Nobia conjugatum*).

***Nobia grandis* Sowerby, 1839: 71**

Indo-west Pacific: Mergui Arch.; Maldives; N Australia; Indonesia; Kei Is; Singapore; Gulf of Siam; Hong Kong; China; Japan; Palau Is.; associated with living scleractinian corals (eg. *Porites lobata*).
(20, 30, 36, 44, 92, 113b, 128, 164, 182, 187, 200, 205, 234, 261, 262, 278, 329a, 345, 347, 462, 482, 547); (88, 171, 372, as *Pyrgoma grande*).

***Nobia orbicellae* (Hiro, 1934: 367)**

Indo-west Pacific: Mergui Arch.; Singapore; China; Japan; Palau Is; Fiji; associated with living scleractinian corals (eg. *Galaxea fascicularis* (Linnaeus), *G. lamarcki* Milne-Edward & Haime).
(205, 259, 260, 345, 429, 430, 462); (170, 171, 182, 187, as *Pyrgoma orbicellae*); (372, as *Pyrgoma goniopora*e).

***Nobia sinica* Ren, 1986: 148**

S China Sea, 18°45'N 110°45'E and 19°30'N 113°00'E; 98-145 m; associated with *Dendrophyllia* sp.
(205, 429, 430).

Genus *Pyrgoma* Leach, 1817

***Pyrgoma anglicum* Sowerby, 1823: no pagination**

North America; Mediterranean; Indo-west Pacific: Indian Ocean; Malay Arch.; S China Sea; China; Japan; associated with *Heterocyathus* sp., *Dendrophyllia* sp.
(479, 42, 88, 128, 182, 372, 501, 547); (205, 345, 429, 430, 462, as *Boscia anglica*).

***Pyrgoma cancellata* Leach, 1818: 171**

Indo-west Pacific: Indian Ocean; Mergui Arch.; Maldives; N Australia; Malay Arch.; Gulf of Siam; Hong Kong; China; Philippines; Japan; Palau Is; associates with *Dendrophyllia japonica* Rehbeg, *Turbinaria mantonae* Crossland, *Turbinaria peltata*
(36, 88, 92, 113b, 129, 171, 182, 187, 200, 205, 234, 280, 293, 329a, 345, 372, 429, 430, 462, 522, 528, 539); (279, as var. *japonica*); (547, as var. *japonica* nov.)

Tribe Pyrgopsellini Ross & Newman, 1995

Genus *Pyrgopsella* Zullo, 1967

***Pyrgopsella stellula* Rosell, 1975b: 211**

Hong Kong; Bauang Dakula reef, Tandubas, Tawutawi, Sulu Arch., Philippines (5°9'24"N, 120° 17'30"E); embedded in calcareous sponges (eg. *Spirastrella vagabunda*); littoral, lowest levels.
(113b, 329a, 447).

Tribe Hoekiini Ross & Newman, 1995

Genus *Hoekia* Ross & Newman, 1973

***Hoekia monticulariae* (Gray, 1831: 6)**

Indo-west Pacific: Indian Ocean; Mauritius; Bay of Bengal; Singapore; Malay Arch.; Japan.; associated with coral reefs.
(20, 26, 88, 119, 128, 164, 171, 182, 200, 259, 261, 345, 372, 438).

Subfamily Bosciinae Newman & Ross, 1976

Genus *Boscia* Fèrussac, 1822

***Boscia oulastreae* (Utinomi, 1962: 227)**

?Kei Is; Hong Kong; China; S Japan; associated with living scleractinian corals (eg. *Coscinaraea columnata*, *Dendrophyllia* sp., *Oulastrea crispata*, *Tubastrea* sp.).
(113b, 205, 345, 462, 464, 528, 539); (512, as *Creusia spinulosa* forma *quarta*); (532, as *Megatrema oulastrea*); (171, as *Pyrgoma anglicum*).

Family Balanidae Leach, 1817
Subfamily Balaninae Leach, 1817
Genus *Balanus* da Costa, 1778
Group of *Balanus balanus*

***Balanus crenatus* Bruguière, 1789: 168**

N Pacific; Arctic; N Atlantic; S China* (*unverified locality according to Newman & Ross, 1976: 61).
(40, 48, 88, 95, 96, 144, 148, 173, 205, 345, 357, 403, 434, 478, 487, 505, 537).

Group of *Balanus concavus*

***Balanus concavus sinensis* Broch, 1931: 63**

Hong Kong. (NOTE : *Balanus concavus concavus* is a circumtropical fouling form).
(44, 156); (345, synonymy with *Balanus concavus concavus* Bronn, 1831: 127).

Group of *Balanus amphitrite*

***Balanus albicostatus albicostatus* Pilsbry, 1916: 90**

Australia; Hong Kong; S China Sea; China, Taiwan, Japan, S Honsyu, Kyusyu & Ryukyu Is; Korea; California; low littoral, fouling.
(94, 95, 96, 104, 113b, 128, 156, 160, 161, 186, 189, 193, 203, 205, 211, 214, 217, 230, 232, 234, 245, 250, 259, 267, 271, 272, 275, 277, 310, 311, 312, 329a, 345, 347, 371, 376, 380, 426, 434, 501, 505, 512, 518, 522, 523, 528, 532, 536, 537, 539, 575, 576, 594); (182, 184, 192, 194, 279, 403, as *Balanus amphitrite albicostatus*); (127, as *Balanus violaceus*); (184, as *Balanus amphitrite formosanus*); (532, as *Balanus albicostatus albicostatus*).

***Balanus albicostatus formosanus* Hiro, 1938a: 306**

Taiwan.
(184, 193, 271, 276, 277, 345, 532).

***Balanus amphitrite amphitrite* Darwin, 1854: 240**

Cosmopolitan in warm and temperate seas; England & W Europe to S coast of Africa Red, Black and Mediterranean Seas; Suez Canal; SE Africa; Indian Ocean; Australia; Malaysia; Réam (Cambodia); Gulf of Siam; Condor Is; Tang Trien (South Annam); Cauda Nhatrang; Hongay, Tonkin; S China Sea; Hong Kong; China; Bohai Sea; Taiwan; Philippines; Japan; S Honsyu, Kyusyu & Ryukyu Is; Vladivostok; Hawaii; central California to SW Mexico; littoral to sublittoral fringe, fouling.
(34, 39, 43, 46, 54, 88, 94, 95, 96, 111, 112a, 113b, 138, 139, 156, 184, 203, 204, 205, 206, 207, 213, 211, 212, 230, 232, 234, 291, 304, 302, 324, 329a, 345, 346, 347, 357, 379, 396, 406, 417, 433, 434, 450, 451, 453, 478, 497, 499, 501, 505, 512, 520, 527, 528, 532, 535, 537, 542, 565, 569, 575, 576, 596, 597); (169b, 182, 193, 194, 365, as *Balanus amphitrite communis*); (372, as *Balanus amphitrite hawaiiensis*); (439, as *Balanus amphitrite saltonensis*, as *Balanus amphitrite herzi*, as *Balanus amphitrite franciscanus*); (449, as *Balanus (Balanus) amphitrite amphitrite*); (495, part); (496, as *amphitrite* var *variegatus*).

***Balanus amphitrite poecilosculpta* Broch, 1931: 59**

Indonesia; South China Sea; C. St. Jacques, Cochinchina; Cauda Nhatrang; 33-853 m. (44, 46, 92, 182, 345, 364, 522).

***Balanus amphitrite rafflesia* Nilsson-Cantell, 1934a: 64**

Pulau Sakra, near Singapore; on mangroves. (345, 367); (364, as *Balanus rafflesia*).

***Balanus cirratus* (Darwin, 1854: 241)**

Indo-west Pacific: India; Australia; Indonesia; Sunda Islands; Malay Arch.; Singapore; S Vietnam (Nhatrang Bay, Cua Bé); Hong Kong; S China Sea; China; Philippines; Taiwan; Japan; S Honshu, Kyushu, Ryukyu Is; Korea; littoral to sublittoral fringe, fouling. (53, 90, 94, 95, 96, 104, 127, 128, 138, 156, 184, 193, 205, 211, 213, 230, 232, 234, 270, 272, 275, 277, 297, 310, 345, 361, 411, 434, 444, 475, 532, 537, 539, 542, 557, 569, 594, 597); (88, 547, as *Balanus amphitrite* var. *9 cirratus*); (192, 347, 357, 364, 363, 372, 512, 528, 532, as *Balanus amphitrite cirratus*); (449, as *Balanus (Balanus) variegatus cirratus*); (496, as *Balanus amphitrite* var. *cirratus*); (505, ? as *Balanus amphitrite vladivostokensis*); (113b, as *Balanus variegatus cirratus*).

***Balanus eburneus* Gould, 1841: 15**

Endemic to W Atlantic; introduced to Europe, Mediterranean; Indian Ocean; China; Bohai Sea; Japan; Hawaii and other islands of Pacific Oceania; fouling species. (81, 88, 95, 96, 116a, 128, 152, 202, 205, 259, 332, 345, 347, 357, 372, 403, 404, 434, 478, 505, 524, 531, 537, 547).

***Balanus improvisus* Darwin, 1854: 250**

E coast of the Americas; N Atlantic; W coast of Africa to C of Good Hope; Mediterranean; Black Sea; Red Sea; NW coast of U.S.A.; Ecuador; Australia; Strait of Malacca; Singapore; China; Bohai Sea; Japan; fouling. (40, 88, 95, 96, 128, 148, 152, 205, 202, 248, 259, 345, 347, 350, 357, 403, 434, 478, 505, 531, 534, 537, 547).

***Balanus kondakovi* Tarasov & Zevina, 1957: 191**

Indo-west Pacific: India; Sumatra; SW Australia; mainland coast of SE Asia; Gulf of Thailand; Yellow Sea; Japan; New Zealand; fouling. (154, 156, 241, 244, 279, 297, 345, 416, 444, 568); (505, as *Balanus amphitrite kondakovi*); (184, 193, 520, 594, as *Balanus amphitrite krugeri*); (251, 532, 537, as ? *Balanus uliginosus*); (372, as *Balanus pallidus krugeri*); (403, (part) as *Balanus amphitrite albicostatus*).

***Balanus littoralis* Ren & Liu 1978:92**

China: Zhanjiang, Guangdong Province; Donghaidao & Ya-xian, Guangdong Province; Chi-Sha, Guangxi Zhuang Autonomous Region; fouling. (95, 205, 434).

***Balanus pallidus* Darwin, 1854: 240**

W Indies to N coast of S America; Panama Canal; W Africa from Morocco to mouth of Congo; Mediterranean Sea; Indo-west Pacific: Zanzibar; Bombay, India; ?Sumatra; Australia; Java Sea; Straits of Malacca to Hong Kong, Philippine Arch. Known with certainty from W Africa and W coast of India.

(24, 88, 156, 202, 230, 232, 234, 329a, 345, 497, 532).

***Balanus patellaris* (Spengler, 1780: 101)**

SW coast of India to Straits of Malacca; Java Sea, Malay Arch. to Philippine Arch.

(6, 56, 61, 88, 127, 128, 200, 345, 351, 347, 372, 534, 547); (156, as *Balanus patelliformis*).

***Balanus poecilotheca* Kruger, 1911a: 48**

Indo-west Pacific: SW Africa; SW Australia; Malay Arch.; Sulu Arch.; China; Taiwan; Japan. (27, 95, 96, 156, 184, 193, 205, 279, 280, 345, 403, 434, 512, 522, 528, 539); (44, as *Balanus amphirrite* forma *poecilotheca*); (182, 193, 505, as *Balanus amphirrite poecilotheca*); (364, as *Balanus amphirrite poecilosculpta*).

***Balanus pulchellus* Ren, 1989a: 468**

Zhujiang River estuary, S China Sea; fouling species.

(205, 432).

***Balanus reticulatus* Utinomi, 1967: 216**

Circumtropical - SE USA to W Indies; Mediterranean Sea; SE Africa to Malaysia; Hong Kong to Gulf of Siam; east Asia from China, Yellow Sea, S China Sea; Australia; Malay Arch to Japan and Hawaii; fouling form.

(52, 55, 94, 95, 96, 113b, 154, 156, 203, 205, 207, 211, 212, 213, 230, 232, 234, 273, 329a, 345, 426, 434, 477, 494, 532, 537, 542, 569, 574, 572, 570, 571, 573, 575, 576, 596, 597); (39, as *Balanus amphirrite* forma *communis*); (44, 184, 253, 520, 527, 529, 536, as *Balanus amphirrite communis*); (88 (in part), 200, as *Balanus amphirrite* var. (1) *communis*); (310, as *Balanus amphirrite tessellatus*); (444, as *Balanus amphirrite amphirrite*); (478, as *Balanus amphirrite amphirrite* var.); (539, as *Balanus amphirrite tessellatus* nom. nov.).

***Balanus rhizophorae* (Ren & Liu, 1978: 148)**

S China Sea; Indian Ocean.

(433); (434, as *Balanus littoralis*).

***Balanus uliginosus* Utinomi, 1967c: 202**

S China Sea; China; Taiwan; Bohai Sea; southern Japan; S Honsyu, Kyusyu, Ryukyu Is; southern Korea; littoral to sublittoral fringe, fouling.

(532, 95, 96, 184, 193, 204, 205, 208, 209, 210, 310, 311, 313, 345, 417, 434, 532, 536, 537, 575, 576, 594); (192, as *Balanus amphirrite Krugeri*); (279, as *Balanus amphirrite niveus*); (359, 444, 505, 512, 528, as *Balanus amphirrite krugeri*); (539, as *Balanus amphirrite tessellatus* nom. nov.).

***Balanus variegatus variegatus* Darwin, 1854: 241**

Indo-west Pacific: Bay of Bengal; Sumatra; New Zealand, Australia; Indonesia; Vietnam; Gulf of Siam; Hong Kong, W Kyushu; Vladivostok; fouling.

(33, 38, 44, 79, 80, 81, 82, 83, 128, 131, 138, 156, 200, 215, 230, 232, 234, 238, 244, 321, 329a, 345, 364, 365, 372, 496, 505, 547, 552); (88, as *Balanus amphitrite* var. 8, *variegatus*); (111, as *Balanus amphitrite malayensis*); (240, larval comparison with *Balanus amphitrite*); (411, as *Balanus amphitrite cirratus*); (534, includes *Balanus amphitrite malayensis* Hoek, 1913: 172).

***Balanus zhujiangensis* Ren, 1989a: 467**

Zhujiang River Estuary, S China Sea; fouling species.
(205, 432).

Group of *Balanus trigonus*

***Balanus minutus* Hoek, 1913: 177**

Kwandang Bay, Indonesia; Singapore; Malay Arch.; Sulu Is; Philippines; S Japan; Bonin Is; 26-146 m.
(39, 200, 345, 534).

***Balanus trigonus* Darwin, 1854: 223**

Cosmopolitan in tropical and warm temperate seas; Pacific, Indian and Southern Atlantic Oceans; Cauda Nhatrang; S China Sea; Hong Kong; China; 3-120 m, sublittoral fouling.
(27, 44, 46, 88, 94, 95, 96, 112a, 113b, 132, 165, 182, 194, 194, 205, 211, 212, 206, 208, 203, 213, 230, 232, 233, 234, 259, 279, 345, 321, 329a, 347, 350, 379, 434, 453, 505, 495, 498, 499, 501, 512, 522, 534, 535, 537, 539, 542, 554, 569, 597); (128, as *Balanus armatus*); (403, includes *Balanus armatus* Müller, 1868: 393).

Subfamily Megabalaninae Newman, 1979

Genus *Megabalanus* Hoek, 1913

***Megabalanus ajax* (Darwin, 1854: 214)**

Indo-west Pacific: Indian Ocean; Maldive, Seychelles and Chagos Is; N Australia; Philippines; Japan; Solomon Is; New Caledonia; Pacific Ocean; attached to *Millipora complanata* Lamarck, 1816.

(88 (part), 108, 127, 128, 130, 134, 135, 157, 200, 235, 234, 268, 269, 284, 345, 403 (part), 547); (372, as *Balanus ajax*).

***Megabalanus crispatus* (Schroter, 1786: 534)**

La Rochelle, Senegal; East Indies; China; fouling (Note: Henry & McLaughlin, 1986: 29 say distribution of this species is unknown).

(30, 95, 127, 157, 345, 403, 501, 547); (469, as *Lepas crispata*); (88, as *Balanus tintinnabulum* var. *crispatus*); (96, 205, as *Balanus tintinnabulum crispatus*).

***Megabalanus occator* (Darwin, 1854: 196)**

Indo-west Pacific: Indian Ocean; Indonesia; Xisha Is., S China Sea; E China Sea; China; Taiwan; Philippines (Mindanao); Bonin I.; Fiji Is. (35, 108, 111, 128, 157, 259, 284, 345, 377, 512, 546b, 547); (88, as *Balanus occator*); (95, as *Balanus (Megabalanus) occator*); (95, 205, 434, as *Balanus (Megabalanus) xishaensis*); (96, 193, 205, 263, 372, 403, 516, as *Balanus tintinnabulum occator*).

***Megabalanus rosa* (Pilsbry, 1916: 61)**

N Australia; China; Taiwan; Japan; S Honshu, Kyushu and Ryukyu Is.; fouling species. (44, 95, 157, 160, 194, 205, 230, 232, 234, 246, 247, 249, 259, 284, 345, 357, 512, 522, 528); (165, 182, 359, 403, as *Balanus tintinnabulum rosa*); (96, as *Balanus rosa*); (434, 566, as *Balanus (Megabalanus) rosa*); (505, 537, as *Balanus (Megabalanus) tintinnabulum rosa*).

***Megabalanus tintinnabulum* (Linnaeus, 1758: 668)**

Worldwide: W Africa from Mediterranean to Cape of Good Hope; Europe, east Mediterranean; Indo-west Pacific: Madagascar; Arabian Sea; Bay of Bengal; N Australia; Thailand; Hong Kong; E & S China Seas; Taiwan; Japan; New Zealand, Brazil, Venezuela; fouling species. (27, 95, 128, 157, 181, 192, 193, 205, 230, 232, 234, 279, 321, 329a, 357, 426, 433, 495, 497, 505, 512, 569, 572); (298, as *Lepas Tintinnabulum*); (88, 200, as *Balanus tintinnabulum* var. *communis*); (96, 193, 372, 403, 499, 501, 594, as *Balanus tintinnabulum tintinnabulum*); (345, as *Megabalanus antillensis*); (379, as *Balanus tintinnabulum* var. *tintinnabulum*); (403, as *Balanus tintinnabulum antillensis*); (434, as *Balanus (Megabalanus) tintinnabulum tintinnabulum*).

***Megabalanus validus* (Darwin, 1854: 195)**

SW Australia; Malay Arch.; Taiwan; fouling. (44, 127, 128, 157, 230, 232, 234, 282, 284, 345, 372, 547); (88, 200, as *Balanus tintinnabulum* var. *validus*).

***Megabalanus volcano* (Pilsbry, 1916: 60)**

Indo-west Pacific: Indian Ocean; N Australia; Hong Kong; E & S China Sea; S. Taiwan; Japan, S Honshu, Kyushu & Ryukyu Islands; low tidal, sublittoral fringe. (95, 113b, 157, 186, 194, 205, 203, 230, 232, 234, 284, 311, 329a, 345, 433, 512, 522, 523, 536, 537, 539, 566, 572); (403, part, as *Balanus tintinnabulum* var. *crispatus*); (96, as *Balanus volcano*); (182, 360, 372, 403, as *Balanus tintinnabulum volcano*); (279, ?as *Balanus tintinnabulum* var. *communis*); (349, as *Balanus tintinnabulum peninsularis*); (434, as *Balanus (Megabalanus) volcano*); (505, as *Balanus (Megabalanus) tintinnabulum volcano*); (594, as *Balanus tintinnabulum occator*).

***Megabalanus zebra* (Darwin, 1854: 195)**

Atlantic Ocean; W Africa; Indo-west Pacific: Indian Ocean; Bombay; Thailand; China; Philippines. (27, 30, 95, 127, 128, 133, 135, 157, 192, 193, 205, 238, 259, 316, 345, 495, 498, 547); (88, 244, as *Balanus tintinnabulum* var. *zebra*); (96, 90, 193, 403, 501, as *Balanus tintinnabulum zebra*); (534, as *Balanus (Megabalanus) tintinnabulum zebra*).

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