THE RAFFLES BULLETIN OF ZOOLOGY 2010 Supplement No. **23**: 109–129
Date of Publication: 31 Oct.2010

ANNOTATED CHECKLIST OF ANOMURAN DECAPOD CRUSTACEANS OF THE WORLD (EXCLUSIVE OF THE KIWAOIDEA AND FAMILIES CHIROSTYLIDAE AND GALATHEIDAE OF THE GALATHEOIDEA) PART II – PORCELLANIDAE

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INTRODUCTION

Ng et al. (2008) and McLaughlin et al. (this volume) referred to the "windows" to the literature and the "springboards" for associating species with their scientific names that provided the foundations for subsequent brachyuran, paguroid and lithodoid research. For the porcellanids, one treatise in particular has provided a similar base upon which virtually all subsequent porcellanid reports have been patterned. Despite its regional focus, Haig's (1960) monograph of eastern Pacific species included 87 of the 225 species estimated to be present worldwide at the time (Chace, 1951). During the last half century the number of genera has increased from 14 prior to Haig's (1960) monograph to 30 and the number of valid species from 225 to 277.

HISTORY OF CLASSIFICATION

A. Milne-Edwards & Bouvier (1894) reviewed the early placements of the family and despite their superficial resemblance to brachyuran crabs, the classification of the Porcellanidae has had a much less convoluted path than seen for the lithodids and *Lomis*. By the time that Boas (1880) completed his studies of the Decapoda, there was general agreement that the Porcellanidae was correctly assigned to the Galatheoidea. That relationship has not been challenged, even though other changes in the superfamily Galatheoidea have been proposed (e.g., McLaughlin et al., 2007).

INFRAORDER ANOMURA MACLEAY, 1838

Superfamily Galatheoidea, extant family Porcellanidae
Superfamily Galatheoidea Samouelle 1819
Porcellanidae Haworth, 1825
= Porcellaniens H. Milne Edwards, 1837
= Porcellaniadae Randall, 1840
= Porcellanodea Henderson 1888
= Porcellainea Holmes, 1900

DESCRIPTIVE TERMS AND CURRENT STATUS

General morphology. – The general body shape is crab-like and the carapace is well calcified. Regions of the dorsal integument are not usually well defined. The anterior margin of the carapace is produced into a short rostrum or rostral lobe. The eyes are pigmented; ocular orbits are sometimes well developed and ocular acicles are absent. The antennules have broad basal segments. The antennal peduncles are four-segmented, with the distal three moveable; antennal acicles are absent. The third maxillipeds each have a broad and flattened ischium; no crista dentata is developed. Gills consist of 14 pairs of biserial phyllobranchiae, paired arthrobranchs are present on each third maxilliped and on pereopods 1–4; one pleurobranch is developed on body wall above each pereopod 2–5.

The chelipeds are symmetrical or asymmetrical, usually broad and dorsoventrally flattened, but sometimes inflated. Pereopods 2–4 are developed as ambulatory legs; pereopod 5 is reduced, modified, and frequently carried under carapace. The pleon is well developed, symmetrical, carried bent under cephalothorax, and held against thorax. It is composed of six pleomeres and a telson.

Adult males usually have well developed, paired pleopods on pleomere 2 that are modified as gonopods; occasionally these are reduced, rudimentary or absent. Females usually

have paired pleopods on each pleomere 3–5, but those of pleomere 3 are sometimes reduced or absent. The telson and uropods are well developed; the telson is composed of 5 or 7 segments.

Development. – Although early carcinologists considered porcellanid larvae to be quite similar to brachyuran zoeae, it would appear that the only characters shared by the two groups are the reduced and somewhat rod-shaped antennal endopod and the absence of a functional exopod on the third maxilliped. Porcellanid zoeae are very distinctive and immediately recognized by their very elongate rostral and posterolateral carapace spines. Only two zoeal stages are passed through prior to the molt to megalopa, except in *Petrocheles* Miers, 1876 where five zoeal stages have been documented. It is also only in this genus that uropods develop in a zoeal stage. In all other porcellanids studied to date, uropods develop in the megalopal stage. Development of larval pleopods occurs in the second zoeal stage and these pleopods become function in the megalopal stage, except in *Petrocheles*, where pleopods never develop. However, pleopods are reduced or lost with the molts to early crab stages. And in the cases of males, pleopods do not reoccur unless the second pair develops as gonopods, except in *Novorostrum* Osawa, 1998, and some species of *Petrolisthes* Stimpson, 1858, where reduced or moderately developed pleopods are seen on pleomeres 3–5. Egg-bearing pleopods do redevelop on pleomeres 3–5 or 4 and 5 in adult females.

Current status. – Among the phylogenetic analyses that have been reported in the past quarter century, the Porcellanidae have remained aligned with the Galatheoidea; however, the sister taxon varied between the Galatheidae (Martin & Abele, 1986; McLaughlin et al., 2007; Ahyong et al., 2009) or the Chirostylidae (Pérez-Losada et al., 2002; Ahyong & O'Meally, 2004; Macpherson et al., 2005), with Morrison et al. (2002) placing the Porcellanidae as sister to the Galatheidae-Chirostylidae pair. Although previous data indicated that the Porcellanidae was correctly placed in the Galatheoidea, Ahyong et al. (2009) found that the Porcellanidae nested in a paraphyletic Galatheidae. Thus the true phylogenetic relationship of this family to other galatheids is not as well understood as heretofore believed.

CHECKLIST

Family Porcellanidae Haworth, 1825

Aliaporcellana Nakasone & Miyake, 1969
= *Aliaporcellana* Nakasone & Miyake 1969 (type species *Porcellana suluensis* Dana, 1852, by original designation; gender feminine)
Aliaporcellana kikuchii Nakasone & Miyake, 1969
Aliaporcellana pygmaea (De Man, 1902) [*Porcellana*]
= *Polyonyx pugilator* Nobili, 1905
Aliaporcellana suluensis (Dana, 1852) [*Porcellana*] {1}
= *Polyonyx denticulatus* Paul'son, 1875
= *Polyonyx hexagonalis* Zehntner, 1894
Aliaporcellana telestophila (Johnson, 1958) [*Polyonyx*]
Allopetrolisthes Haig, 1960
= *Allopetrolisthes* Haig, 1960 (type species *Porcellana angulosa* Guérin, 1835, by original designation; gender masculine)
Allopetrolisthes angulosus (Guérin, 1835) [*Porcellana*]
= *Porcellana carinata* Kinahan, 1857
= *Petrolisthes reissi* Ortmann, 1892
Allopetrolisthes punctatus (Guérin, 1835) [*Porcellana*]
= *Porcellana cristata* H. Milne Edwards, 1837
Allopetrolisthes spinifrons (H. Milne Edwards, 1837) [*Porcellana*]
Ancylocheles Haig, 1978
= *Ancylocheles* Haig, 1978 (type species *Porcellana gravelei* Sankolli, 1963, by original designation; gender masculine)
Ancylocheles gravelei (Sankolli, 1963) [*Porcellana*]
Capilliporcellana Haig, 1978
= *Capilliporcellana* Haig, 1978 (type species *Porcellana murakamii* Miyake, 1942, by original designation; gender feminine)
Capilliporcellana murakamii (Miyake, 1942) [*Porcellana*]
Capilliporcellana wolffi Haig, 1981
Clastotoechus Haig, 1960
= *Clastotoechus* Haig, 1960 (type species *Petrolisthes diffractus* Haig, 1957, by original designation; gender masculine)
Clastotoechus diffractus (Haig, 1957) [*Petrolisthes*]
Clastotoechus gorgonensis Werding & Haig, 1983
Clastotoechus hickmani Harvey, 1999
Clastotoechus lasios Harvey, 1999
Clastotoechus nodosus (Streets, 1872) [*Petrolisthes*]
Enosteoides Johnson, 1970
= *Enosteoides* Johnson, 1970 (type species *Porcellana corallicola* Haswell, 1882, by original designation; gender masculine)
Enosteoides lobatus Osawa, 2009
Enosteoides melissa (Miyake, 1942) [*Porcellana*]
Enosteoides ornatus (Stimpson, 1858) [*Porcellana*]
= *Porcellana corallicola* Haswell, 1882
Enosteoides palauensis (Nakasone & Miyake, 1968) [*Porcellana*]
= *Enosteoides hainanensis* Yang & Sun, 2005
Euceramus Stimpson, 1860
= *Euceramus* Stimpson (type species *Euceramus praelongus* Stimpson, 1860, by monotypy; gender masculine)
Euceramus panatelus Glassell, 1938
Euceramus praelongus Stimpson, 1860
Euceramus transversilineatus (Lockington, 1878) [*Porcellana*]
Eulenaios Ng & Nakasone, 1993 {2}
= *Eulenaios* Ng & Nakasone, 1993 (type species *Polyonyx cometes* Walker, 1887, by original designation; gender masculine)
Eulenaios cometes (Walker, 1887) [*Polyonyx*]

Heteropolyonyx Osawa, 2001
= *Heteropolyonyx* Osawa, 2001 (type species *Heteropolyonyx biforma* Osawa, 2001, by original designation; gender masculine)
Heteropolyonyx biforma Osawa, 2001
Heteroporcellana Haig, 1978
= *Heteroporcellana* Haig, 1978 (type species *Porcellana corbicola* Haig, 1960, by original designation; gender feminine)
Heteroporcellana corbicola (Haig, 1960) [*Porcellana*]
Liopetrolisthes Haig, 1960
= *Liopetrolisthes* Haig, 1960 (type species *Porcellana mitra* Dana, 1852, by original designation; gender masculine)
Liopetrolisthes mitra (Dana, 1852) [*Porcellana*]
= *Porcellana spinosa* Philippi 1860
= *Porcellana patagonica* Cunningham, 1871
= *Porcellana pulchellula* Cano, 1889
Lissoporcellana Haig, 1978
= *Lissoporcellana* Haig, 1978 (type species *Porcellana quadrilobata* Miers, 1884, by original designation; gender feminine)
= ? *Porcellanides* Czerniavsky 1884 (type species *Porcellana kriczagini* Czerniavsky, 1884, by original designation; gender masculine) {3}
Lissoporcellana flagellicola Osawa & Fujita, 2005
Lissoporcellana furcillata (Haig, 1965) [*Porcellana*]
Lissoporcellana miyakei Haig, 1981
Lissoporcellana monodi Osawa, 2007
Lissoporcellana nakasonei (Miyake, 1978) [*Porcellana*] (replacement name)
= *Porcellana maculata* Miyake, 1957 (preoccupied name)
Lissoporcellana nitida (Haswell, 1882) [*Porcellana*]
Lissoporcellana pectinata Haig, 1981
Lissoporcellana quadrilobata (Miers, 1884) [*Porcellana*]
= *Porcellana streptochirus* White, 1847 (nomen nudum)
= *Porcellana streptochira* Miers, 1884
= *Porcellana gaekwari* Southwell, 1909
= *Lissoporcellana paraquadrilobata* Yang & Sun, 1992
Lissoporcellana spinuligera (Dana, 1853) [*Porcellana*] (replacement name)
= *Porcellana armata* Dana, 1852 (preoccupied name)
= *Porcellana latifons* Stimpson, 1858
Lissoporcellana streptochiroides (Johnson, 1970) [*Porcellana* (*Pisidia*)]
Madarateuchus Harvey, 1999 {4}
= *Madarateuchus* Harvey, 1999 (type species *Petrolisthes vanderhorsti* Schmitt, 1924, by monotypy; gender masculine)
Madarateuchus vanderhorsti (Schmitt, 1924) [*Petrolisthes*]
Megalobrachium Stimpson, 1858
= *Megalobrachium* Stimpson, 1858 (type species *Megalobrachium granuliferum* Stimpson, 1858, by original designation; gender neuter)
= *Porcellanides* Nobili, 1901 (type species *Porcellanides festae* Nobili, 1901, by monotypy; gender feminine) (preoccupied name)
= *Porcellanopsis* Rathbun 1910 (type species *Porcellana festae* Nobili, 1901, by monotypy; gender feminine) (replacement name) {5}
Megalobrachium erosum (Glassell, 1936) [*Pisosoma*]
Megalobrachium festae (Nobili, 1901) [*Porcellanides*] {6}
= *Porcellanides festae* Nobili, 1901
= *Porcellanopsis festai* (Nobili, 1901)
Megalobrachium garthi Haig, 1957
= *Pachycheles rotundus* A. Milne-Edwards & Bouvier 1894 (nomen nudum)
Megalobrachium mortenseni Haig, 1962
Megalobrachium pacificum Gore & Abele, 1974 {7}
Megalobrachium peruvianum Haig, 1960
Megalobrachium poeyi (Guérin-Méneville, 1855) [*Porcellana*] {8}
= *Megalobrachium granuliferum* Stimpson, 1858
= *Porcellana robusta* Torralbas, 1917
Megalobrachium roseum (Rathbun, 1900) [*Porcellana*]
Megalobrachium sinuimanus (Lockington, 1878) [*Petrolisthes* (*Pisosoma*)]
Megalobrachium smithi (Glassell, 1936) [*Pisosoma*]
Megalobrachium soriatum (Say, 1818) (*Porcellana*] {9}
= *Megalobrachium walteri* Rodrigues da Costa, 1968
Megalobrachium tuberculipes (Lockington, 1878) [*Pachycheles*]
Minyocerus Stimpson, 1858
= *Minyocerus* Stimpson, 1858 (type species *Porcellana angusta* Dana, 1852, by original designation; gender masculine)
= *Porcellina* Müller, 1862, (type species *Porcellina stellicola* by monotypy; gender feminine)
Minyocerus angustus (Dana, 1852) [*Porcellana*]
= *Porcellina stellicola* Müller, 1862
= *Porcellana rosamondae* Boone, 1930
Minyocerus kirki Glassell, 1938
Neopetrolisthes Miyake, 1937
= *Neopetrolisthes* Miyake, 1937 (type species *Neopetrolisthes ohshimai* Miyake, 1937, by original designation; gender masculine)
Neopetrolisthes alobatus (Laurie, 1926) [*Petrolisthes*]
Neopetrolisthes maculatus (H. Milne Edwards, 1837) [*Porcellana*] {10}
= *Neopetrolisthes ohshimai* Miyake, 1937 {10}
Neopetrolisthes spinatus Osawa & Fujita, 2001
Neopisosoma Haig, 1960 {11}
= *Neopisosoma* Haig, 1960 (type species *Neopisosoma bicapillatum* Haig, 1960, by original designation; gender neuter)
Neopisosoma angustifrons (Benedict, 1901) [*Pisosoma*]
Neopisosoma bicapillatum Haig, 1960
Neopisosoma curacaoense (Schmitt, 1924) [*Pisosoma*]
Neopisosoma dohenyi Haig, 1960
Neopisosoma mexicanum (Streets, 1871) [*Pachycheles*]

Neopisosoma neglectum Werding, 1986
Neopisosoma orientale Werding, 1986
Novorostrum Osawa, 1998
= *Novorostrum* Osawa, 1998 (type species *Petrolisthes indicus* De Man, 1893, by original designation; gender neuter)
Novorostrum decorocrus Osawa, 1998
Novorostrum indicum (De Man, 1893) [*Petrolisthes*]
Novorostrum phuketense Osawa, 1998 {12}
Novorostrum securiger (Melin, 1939) [*Petrolisthes*] {13}
Orthochela Glassell, 1936
= *Orthochela* Glassell, 1936 (type species *Orthochela pumila* Glassell, 1936, by original designation; gender feminine)
Orthochela pumila Glassell, 1936
Pachycheles Stimpson, 1858
= *Pachycheles* Stimpson, 1858 (type species *Porcellana grossimana* Guérin, 1835, by original designation; gender masculine)
= *Pisosoma* Stimpson, 1858 (type species *Porcellana pisum* H. Milne Edwards, 1837, by original designation; gender neuter)
Pachycheles ackleianus A. Milne-Edwards, 1880
= ? *Porcellana parrai* Guérin-Méneville, 1855
Pachycheles attaragos Harvey & de Santo, 1997
Pachycheles barbatus A. Milne-Edwards, 1878
= *Pachycheles ornatus* Bouvier, 1906
Pachycheles bellus (Osorio, 1887) [*Porcellana*]
Pachycheles biocellatus (Lockington, 1878) [*Petrolisthes* (*Pisosoma*)]
= *Petrolisthes* (*Pisosoma*) *gibbosicarpus* Lockington, 1878
= *Pisosoma aphrodita* Boone, 1932
Pachycheles calculosus Haig, 1960
Pachycheles chacei Haig, 1956
Pachycheles chubutensis Boschi, 1963
Pachycheles crassus (A. Milne-Edwards, 1869) [*Porcellana* (*Pachycheles*)]
Pachycheles crinimanus Haig, 1960
Pachycheles cristobalensis Gore, 1970
Pachycheles garciaensis (Ward, 1942) [*Pisosoma*]
Pachycheles granti Haig, 1965
Pachycheles greeleyi (Rathbun, 1900) [*Pisosoma*]
Pachycheles grossimanus (Guérin, 1835) [*Porcellana*]
Pachycheles hertwigi Balss, 1913
= *Pachycheles balssi* Miyake, 1943
Pachycheles holosericus Schmitt, 1921
= *Pachycheles holosericus* Schmitt, 1918 (in Nininger, 1918) (nomen nudum) {14}
Pachycheles johnsoni Haig, 1965
Pachycheles laevidactylus Ortmann, 1892
= *Pachycheles haigae* Rodrigues da Costa, 1960 {15}
Pachycheles marcortezensis Glassell, 1936
Pachycheles monilifer (Dana, 1852) [*Porcellana*]
= *Porcellana rugosimanus* White 1847 (nomen nudum)
Pachycheles natalensis (Krauss, 1843) [*Porcellana*]
Pachycheles panamensis Faxon, 1893
= *Pachycheles sonorensis* Glassell, 1936
Pachycheles pectinicarpus Stimpson, 1858
Pachycheles pilosus (H. Milne Edwards, 1837) [*Porcellana*]
Pachycheles pisoides (Heller, 1865) [*Porcellana*]
= *Pachycheles lifuensis* Borradaile, 1900
= *Pachycheles fronto* Melin, 1939
Pachycheles pubescens Holmes, 1900
Pachycheles riisei (Stimpson, 1859) [*Pisosoma*]
= *Pisosoma riisei* Stimpson, 1858 (nomen nudum)
= *Pisosoma glabra* Kingsley, 1880
= *Pisosoma reisei* Young, 1900 (misspelling of *riisei*)
= *Pisosoma risei* Moreira, 1920 (misspelling of *riisei*)
Pachycheles rudis Stimpson 1859
= *Pachycheles rudis* Stimpson, 1858 (nomen nudum)
Pachycheles rugimanus A. Milne-Edwards, 1880
Pachycheles sahariensis Monod, 1933
Pachycheles sculptus (H. Milne Edwards, 1837) [*Porcellana*]
= *Porcellana pisum* H. Milne Edwards, 1837
= *Porcellana pulchella* Haswell, 1882
= *Pachycheles sculptus* var. *tuberculatus* Borradaile, 1900
Pachycheles serratus (Benedict, 1901) [*Pisosoma*]
Pachycheles setiferous Yang, 1996
Pachycheles setimanus (Lockington, 1878) [*Petrolisthes* (*Pisosoma*)]
Pachycheles spinidactylus Haig, 1957
Pachycheles spinipes (A. Milne-Edwards, 1873) [*Porcellana*]
= *Porcellana sollasi* Whitelegge, 1897
Pachycheles stevensii Stimpson, 1858
Pachycheles subsetosus Haig, 1960
Pachycheles susanae Gore & Abele, 1974
Pachycheles tomentosus Hendersson, 1893
Pachycheles trichotus Haig, 1960
Pachycheles velerae Haig, 1960
Pachycheles vicarius Nobili, 1901
Parapetrolisthes Haig, 1962 {16}
= *Parapetrolisthes* Haig, 1962 (type species *Petrolisthes tortugensis* Glassell, 1945, by original designation; gender masculine)
Parapetrolisthes tortugensis (Glassell, 1945) [*Petrolisthes*]
Petrocheles Miers 1876 {17}
= *Petrocheles* Miers 1876 (type species *Petrolisthes* (*Petrocheles*) *spinosus* Miers, 1876, by subsequent designation by Haig, 1964; gender masculine)
Petrocheles australiensis (Miers, 1876) [*Petrolisthes* (*Petrocheles*)]
Petrocheles spinosus (Miers, 1876) [*Petrolisthes* (*Petrocheles*)]
Petrolisthes Stimpson, 1858 {18}
= *Petrolisthes* Stimpson, 1858 (type species *Porcellana violacea* Guérin, 1831, by original designation; gender masculine)

Petrolisthes aegyptiacus Werding & Hiller, 2007
Petrolisthes agassizii Faxon, 1893
Petrolisthes amoenus (Guérin Méneville, 1855) [*Porcellana*]
= *Perolisthes serratus* Henderson 1888
Petrolisthes armatus (Gibbes, 1850) [*Porcellana*]
= *Porcellana gundlachii* Guérin-Méneville, 1855
= *Porcellana leporina* Heller, 1862
= *Petrolisthes similis* Henderson, 1888 (nomen nudum)
= *Petrolisthes iheringi* Ortmann, 1897
= *Petrolisthes armatus* var. *pallidus* Verrill, 1908
Petrolisthes artifrons Haig, 1960
Petrolisthes asiaticus (Leach, 1820) [*Pisidia*]
= *Petrolisthes leporinoides* Ortmann, 1892
= *Petrolisthes yaeyamensis* Miyake, 1937
Petrolisthes bifidus Werding & Hiller, 2004
Petrolisthes bispinosus Borradaile, 1900
Petrolisthes bolivarensis Werding & Kraus, 2003
Petrolisthes borradailei Kropp, 1984
Petrolisthes boscii (Audouin, 1826) [*Porcellana*]
= ? *Porcellana rugosa*? White, 1847
= *Petrolisthes rugosus* Miers, 1884
= *Petrolisthes amakusensis* Miyake & Nakasone, 1966
Petrolisthes brachycarpus Sivertsen, 1933
= *Petrolisthes gracilis* var. *brachycarpus* Siversten, 1933
Petrolisthes cabrilloi Glassell, 1945
= *Petrolisthes cabrilloa* Glassell, 1945 {19}
Petrolisthes caribensis Werding, 1983
Petrolisthes carinipes (Heller, 1861) [*Porcellana*] {20}
Petrolisthes celebesensis Haig, 1981
Petrolisthes cinctipes (Randall, 1840) [*Porcellana*] {21}
= *Porcellana rupicola* Stimpson, 1857
Petrolisthes coccineus (Owen, 1839) [*Porcellana*]
= *Porcellana barbata* Heller, 1862
= *Petrolisthes nipponensis* Miyake, 1937
Petrolisthes cocoensis Haig, 1960
Petrolisthes columbiensis Werding, 1983
Petrolisthes crenulatus Lockington, 1878
Petrolisthes decacanthus Ortmann, 1897
Petrolisthes desmarestii (Guérin, 1835) [*Porcellana*]
= *Porcellana acanthophora* H. Milne Edwards & Lucas, 1844
= *Porcellana dubia* Kinahan, 1857
Petrolisthes dissimulatus Gore, 1983
Petrolisthes donadio Hiller & Werding, 2007
Petrolisthes donanensis Osawa, 1997
Petrolisthes edwardsii (de Saussure, 1853) [*Porcellana*] {22}
Petrolisthes eldredgei Haig & Kropp 1987
Petrolisthes elegans Haig, 1981
Petrolisthes elongatus (H. Milne Edwards, 1837) [*Porcellana*]
Petrolisthes eriomerus Stimpson, 1871
Petrolisthes extremus Kropp & Haig, 1994 {20}
Petrolisthes fimbriatus Borradaile, 1898
Petrolisthes galapagensis Haig, 1960
Petrolisthes galathinus (Bosc, 1802) [*Porcellana*]
= *Porcellana sexispinosa* Gibbes, 1850
= *Porcellana danae* Gibbes 1854
= *Porcellana egregia* Guérin-Méneville, 1855
= *Petrolisthes occidentalis* Stimpson 1858 (nomen nudum)
= *Petrolisthes occidentalis* Stimpson, 1859
= *Petrolisthes brasiliensis* S. I. Smith, 1869
Petrolisthes gertrudae Werding, 1996
Petrolisthes glasselli Haig, 1957
Petrolisthes gracilis Stimpson, 1859
= *Petrolisthes gracilis* Stimpson, 1858 (nomen nudum)
Petrolisthes granulosus (Guérin, 1835) [*Porcellana*]
= *Porcellana striata* H. Milne Edwards, 1837
Petrolisthes haigae Chace, 1962
Petrolisthes haplodactylus Haig, 1988
Petrolisthes hastatus Stimpson, 1858
= *Porcellana inermis* Heller, 1862
= *Petrolisthes tenkatei* De Man, 1893
Petrolisthes haswelli Miers, 1884
Petrolisthes heterochrous Kropp, 1986
Petrolisthes hians Nobili, 1901
= *Pisosoma flagraciliata* Glassell, 1937
Petrolisthes hirtipes Lockington, 1878
Petrolisthes hirtispinosus Lockington, 1878
Petrolisthes hispaniolensis Werding & Hiller, 2005
Petrolisthes holotrichus Nobili, 1901
Petrolisthes japonicus (De Haan, 1849 [*Porcellana*]
Petrolisthes jugosus Streets, 1872
Petrolisthes kranjiensis Johnson, 1970
Petrolisthes laevigatus (Guérin, 1835) [*Porcellana*]
= *Porcellana valida* Dana, 1852
Petrolisthes lamarckii (Leach, 1820) [*Pisidia*] {23}
= *Porcellana dentata* H. Milne Edwards, 1837
= *Porcellana pulchripes* White, 1847 (nomen nudum)
= *Porcellana speciosa* Dana, 1852
= *Porcellana bellis* Heller, 1865
Petrolisthes leptocheles (Heller, 1861) [*Porcellana*]
Petrolisthes lewisi (Glassell 1936) [*Pisosoma*]
= *Petrolisthes lewisi austrinus* Haig, 1960 {24}
Petrolisthes limicola Haig, 1988
Petrolisthes lindae Gore & Abele, 1974
Petrolisthes magdalenensis Werding, 1978
Petrolisthes manimaculis Glassell, 1945
Petrolisthes marginatus Stimpson, 1859
= *Petrolisthes marginatus* Stimpson, 1858 (nomen nudum)
? = *Porcellana Cessacii* A. Milne-Edwards, 1878 {25}
? = *Petrolisthes Cecoci* Balss, 1914 (misspelling of *cessaci* in figure legend)
Petrolisthes masakii Miyake, 1943
Petrolisthes melini Miyake & Nakasone, 1966 {20}
Petrolisthes mesodactylon Kropp, 1984 {26}
Petrolisthes militaris (Heller, 1862) [*Porcellana*] {27}
= *Porcellana annulipes* White, 1847 (nomen nudum)
= *Petrolisthes annulipes* Miers, 1884

Petrolisthes miyakei Kropp, 1984
Petrolisthes moluccensis (De Man, 1888) [*Porcellana* (*Petrolisthes*)]
Petrolisthes monodi Chace, 1956
= ? *Porcellana speciosa* Osorio, 1889
Petrolisthes nanshensis Yang, 1996
Petrolisthes nigrunguiculatus Glassell, 1936
Petrolisthes nobilii Haig, 1960
Petrolisthes novaezelandiae Filhol, 1885
= *Petrolisthes stewarti* Filhol, 1885
Petrolisthes obtusifrons Miyake, 1937
= *Petrolisthes varicolor* Osawa 1998
Petrolisthes ornatus Paul'son, 1875
= *Porcellana* (*Petrolisthes*) *mossambica* Hilgendorf, 1879
Petrolisthes ortmanni Nobili, 1901
Petrolisthes perdecorus Haig, 1981
Petrolisthes platymerus Haig, 1960
Petrolisthes politus (Gray, 1831) [*Porcellana*]
= *Porcellana magnifica* Gibbes, 1850
Petrolisthes polymitus Glassell, 1937
Petrolisthes pubescens Stimpson, 1858
Petrolisthes quadratus Benedict, 1901
Petrolisthes rathbunae Schmitt, 1921 {28}
= *Petrolisthes rathbunae* Schmitt, in Hilton, 1916 (nomen nudum)
Petrolisthes robsonae Glassell, 1945
Petrolisthes rosariensis Werding, 1982
Petrolisthes rufescens (Heller, 1861) [*Porcellana*]
Petrolisthes sanfelipensis Glassell, 1936
= *Petrolisthes felipensis* Glassell, 1937
Petrolisthes sanmartini Werding & Hiller, 2002
Petrolisthes scabriculus (Dana, 1852) [*Porcellana*] {27}
Petrolisthes schmitti Glassell, 1936
Petrolisthes squamanus Osawa, 1996
Petrolisthes teres Melin, 1939 {29}
= *Petrolisthes inermis* Haswell, 1882 (preoccupied name)
Petrolisthes tiburonensis Glassell, 1936
Petrolisthes tomentosus (Dana, 1852) [*Porcellana*]
= *Porcellana penicillata* Heller, 1862
= *Porcellana villosa* Richters, 1880
Petrolisthes tonsorius Haig, 1960
Petrolisthes tridentatus Stimpson, 1859
= ? *Porcellana affinis* Gray, 1831
= *Petrolisthes tridentatus* Stimpson, 1858 (nomen nudum)
Petrolisthes trilobatus Osawa, 1996
Petrolisthes tuberculatus (Guérin, 1835) [*Porcellana*]
= *Porcellana lobifrons* H. Milne Edwards, 1837
= *Porcellana tuberculifrons* Nicolet, 1849 (misspelling of *tubertculatus*)
Petrolisthes tuberculosus (H. Milne Edwards, 1837) [*Porcellana*] {30}
= *Porcellana affinis* Guérin, 1835 (preocccupied name)
= *Porcellana tuberculifrons* H. Milne Edwards & Lucas, 1843 (unnecessary replacement name)
Petrolisthes unilobatus Henderson, 1888
Petrolisthes violaceus (Guérin, 1831) [*Porcellana*]
= *Porcellana macrocheles* Poeppig, 1836
Petrolisthes virgatus Paul'son, 1875
= *Petrolisthes trivirgatus* Ortmann, 1894
Petrolisthes zacae Haig, 1968
Pisidia Leach, 1820
= *Pisidia* Leach, 1820 (type species *Cancer longicornis* Linnaeus, 1767, by subsequent designation by ICZN Opinion 701, 1964; gender feminine)
= *Streptochirus* Stimpson, 1907 (type species *Porcellana serratifrons* Stimpson, 1858, by subsequent designation by Haig, 1960; gender masculine)
Pisidia bluteli (Risso, 1816) [*Porcellana*] {31}
Pisidia brasiliensis Haig, in Rodrigues da Costa, 1968
Pisidia dehaanii (Krauss, 1843) [*Porcellana*]
Pisidia delagoae (Barnard, 1955) [*Porcellana*]
Pisidia dispar (Stimpson, 1858 [*Porcellana*] {32}
= *Polyonyx carinatus* Ortmann, 1892
= *Porcellana rostrata* Baker, 1905
Pisidia gordoni (Johnson, 1970) [*Porcellana* (*Pisidia*)]
Pisidia inaequalis (Heller, 1861 [*Porcellana*]
Pisidia longicornis (Linnaeus, 1767) [*Cancer*] {31}
= *Cancer hexapus* Linnaeus, 1767
= *Pisidia linnaeana* Leach, 1820
Pisidia longimana (Risso, 1816) [*Porcellana*] {31}
Pisidia magdalenensis (Glassell, 1936) [*Porcellana*]
Pisidia serratifrons (Stimpson, 1858) [*Porcellana*]
= *Porcellana spinulifrons* Miers, 1879
Pisidia streptocheles (Stimpson, 1858) [*Porcellana*]
Pisidia striata Yang & Sun, 1990
Pisidia variabilis (Yang & Sun, 1985) [*Enosteoides*] {32}
Polyonyx Stimpson, 1858
= *Polyonyx* Stimpson, 1858 (type species *Porcellana macrocheles* Gibbes, 1850, by original designation; gender masculine)
Polyonyx biunguiculatus (Dana, 1852) [*Porcellana*] {33}
= *Polyonyx parabiunguiculatus* Yang, 1996
Polyonyx boucheti Osawa, 2007
Polyonyx bouvieri Saint Joseph, 1900
Polyonyx confinis Haig, 1960
Polyonyx gibbesi Haig, 1956 (replacement name)
= *Porcellana macrocheles* Gibbes, 1850 (primary homonym)
= ? *Porcellana crepinii* Müller, 1862 (nomen nudum)
= ? *Porcellana* (*Polyonyx*) *creplinii* Müller, 1870
= ? *Polyonix creplinii* Ejchel, 1965 (misspelling of *Polyonyx*)
= ? *Polyonix creplini* Ejchel, 1965 (misspelling of *Polyonyx*)
Polyonyx haigae McNeil, 1968
Polyonyx hendersoni Southwell, 1909 {34}
Polyonyx loimicola Sankolli, 1965
Polyonyx maccullochi Haig, 1965
Polyonyx nitidus Lockington, 1878

Polyonyx obesulus Miers, 1884 {33}
= *Porcellana obesula* White, 1847 (nomen nudum)
= *Porcellana* (*Polyonyx*) *tuberculosa* De Man, 1888
= *Polyonyx parvidens* Nobili, 1905
= *Polyonyx paucidens* Nobili 1906 (misspelling of *parvidens*)
Polyonyx pedalis Nobili, 1905
Polyonyx plumatus Yang & Xu, 1994
Polyonyx quadratus Chace, 1956
Polyonyx quadriungulatus Glassell, 1935
Polyonyx senegalensis Chace, 1956
Polyonyx sinensis Stimpson, 1858
Polyonyx spina Osawa, 2007
Polyonyx splendidus Sankolli, 1963 {34}
Polyonyx thai Werding, 2001
Polyonyx transversus (Haswell, 1882) [*Porcellana*]
Polyonyx triunguiculatus Zehntner, 1894
= *Polyonyx acutifrons* De Man, 1896
Polyonyx tulearis Werding, 2001
Polyonyx utinomii Miyake, 1943
Polyonyx vermicola Ng & Sasekumar, 1993
Porcellana Lamarck, 1801
= *Porcellana* Lamarck, 1801 (type species *Cancer platy-cheles* Pennant, 1777, by monotypy; gender feminine)
= *Platycheles* Billberg, 1820 (type species *Cancer platy-cheles* Pennant, 1777, by tautonomy; gender masculine)
= *Enostea* Gistel, 1848 (unnecessary replacement name for *Porcellana*; type species *Cancer platycheles* Pennant, 1777)
Porcellana africana Chace, 1956 {35}
= *Porcellana platycheles africana* Chace, 1956
Porcellana cancrisocialis Glassell, 1936
Porcellana caparti Chace, 1956 {36}
Porcellana corbicola Haig, 1960
Porcellana curvifrons Yang & Sun, 1990
Porcellana elegans Chace, 1956 {36}
Porcellana foresti Chace, 1956 {36}
Porcellana habei Miyake, 1961
Porcellana hancocki Glassell, 1938
= *Porcellana hancocki* Glassell, 1937 (nomen nudum)
Porcellana lillyae Lemaitre & Campos, 2000
Porcellana paguriconviva Glassell, 1936
Porcellana persica Haig, 1966
Porcellana platycheles (Pennant, 1777) [*Cancer*] {35}
= *Porcellana paivacarvalhoi* Rodriguez da Costa, 1968 {35}
Porcellana pulchra Stimpson, 1858
Porcellana sayana (Leach, 1820) [*Pisidia*]
= *Porcellana sayii* Gray, 1831 (misspelling of *sayana*)
= *Porcellana ocellata* Gibbes, 1850
= *Porcellana sagrai* Guérin-Méneville, 1855
= *Percellana sagrai* Von Martens, 1872 (misspelling of *Porcellana*)
= *Porcellana stimpsoni* A. Milne-Edwards, 1880 {37}
= ? *Porcellana robertsoni* Henderson, 1888
Porcellana sigsbeiana A. Milne-Edwards, 1880
Porcellanella White, 1852
= *Porcellanella* White, 1852 (type species *Porcellanella triloba* White, 1852, by monotypy; gender feminine)
Porcellanella haigae Sankarankutty, 1963
Porcellanella triloba White, 1852
= *Porcellanella picta* Stimpson, 1858
Pseudoporcellanella Sankarankutty, 1961
= *Pseudoporcellanella* Sankarankutty 1961 (type species *Pseudoporcellanella manoliensis* Sankarankutty, 1961, by monotypy; gender feminine)
Pseudoporcellanella manoliensis Sankarankutty, 1961
Raphidopus Stimpson, 1858
= *Raphidopus* Stimpson, 1858 (type species *Raphidopus ciliatus* Stimpson, 1858, by monotypy; gender masculine)
Raphidopus ciliatus Stimpson, 1858
Raphidopus indicus Henderson, 1893
Raphidopus johnsoni Ng & Nakasone, 1994
Ulloaia Glassell, 1938
= *Ulloaia* Glassell, 1938 (type species *Ulloaia perpusillia* Glassell, 1938, by original designation; gender feminine)
Ulloaia perpusillia Glassell, 1938

Incerta sedis

Petrolisthes costai Rodriguez da Costa, 1968 {38}
Pisidia melloleitaoi Rodriguez da Costa, 1968 {38}
Porcellana mattosi Osorio, 1887 {39}

NOTES

{1} *Aliaporcellana suluensis* has variations in the morphology of the carapace, host animals, and coloration in life, which can be referred to species specific characters. Thus, the two species currently considered synonyms of *A. suluensis* may prove to be valid taxa.

{2} The status of *Eulenaios* has not been satisfactorily resolved. Ng & Nakasone's (1993) establishment of *Eulenaios* for *Polyonyx cometes* was not recognized by Werding (2001). However, Osawa (2007a) has suggested that the validity of *Eulenaios* does have support.

{3} Based on the author's diagnosis, Haig (1978) suggested that Czerniavsky's (1884) *Porcellanides* might be a senior synonym of *Lissoporcellana* because the type species, *P. kriczagini*, from Singapore was likely to be a member of *Lissoporcellana*.

{4} *Madarateuchus* was established by Harvey (1999) as a monotypic genus for *Clastotechus vanderhorsti*. Although the molecular analyses by Rodriquez et al. (2006) did not support the validity of the genus, it is presently considered a valid taxon.

{5} *Porcellanopsis* was proposed by Rathbun (1910) as a replacement name for *Porcellanides* Nobili, preoccupied by *Porcellanides* Czerniavsky. Although Haig (1960) considered *Porcellanopsis* a synonym of *Megalobrachium*, Rodriguez et al. (2006) suggested, based on molecular evidence, that Rathbun's taxon might actually be a distinct taxon.

{6} Haig (1957b) noted that the specific name *festae* must be spelled *festai* in accordance with current nomenculatorical practice. And while it is true the the initial generic assignment, *Porcellanides*, is masculine (ICZN Code, 1999), the name *festae* is a patronym, and as such does not change endings with generic reassignments. Although the feminine "e" rather than masculine "i" was used by the author without explanation, that is his original spelling and is to be maintained. Nobili (1901) did not specify a dedication to Enrico Festa, thus it is possible that the dedication was meant for his wife.

{7} Although Bulletin of Marine Science, 23(3) was supposed to have been published in September of 1973, the publication was delayed and that issue did not appear in print until early 1974.

{8} Ng et al. (2008) cited the footnote by Evenhuis (2003: 17) explaining the problem with correct citations of the author Guérin-Méneville. Guérin added the honorific suffix "Méneville" to his surname in 1836 after his Encyclopédie Méthodique was completed. Ng et al. (2008) choose to cite authorship of all taxa published by this author prior to 1836 simply as Guérin and Guérin-Méneville from 1836 onward. We have followed this same protocol.

{9} Based on their molecular analyses, Rodriguez et al. (2006) suggested that *Megalobrachium soriatum* contained a cryptic species.

{10} Haig (1965, 1979) considered *Neopetrolisthes ohshimai* a junior synonym of *N. maculatus* and pointed out that the Indian and Pacific Ocean populations of *N. maculatus* had different patterns of spots. However, Osawa & Fujita (2001) noted that both spot-patterns occurred in the Ryukyu Islands, western Pacific. Nor were the two species distinguishable from one other by morphological characters, thus supporting the status of *N. ohshimai* as a junior synonym. It was also found that *N. maculatus* had various spot sizes and patterns of reddish purple, red, or brown color on the carapace and pereopods. Further ecological and genetic studies are needed before these variations are fully understood.

{11} The generic status of *Neopisosoma* has been questioned since its establishment as was discussed by Gore (1970), Werding (1986), Werding & Müller (1990), Werding et al. (2001), and Rodríguez et al. (2004, 2005). Although Rodríguez et al. (2006) found that *Neopisosoma* was supported as a genus distinct from *Pachycheles* based on molecular analysis, a worldwide review of both genera will be required to clarify their relationships.

{12} Since the generic gender is neuter, the name *N. phuketensis* is emended to *N. phuketense*.

{13} Osawa (1998a) treated *N. securiger* as a junior synonym of *N. indicum*. Additional specimens from Taiwan and the Ogasawara and Ryukyu Islands, western Pacific, have shown that the differences Osawa considered size related are actually species specific characters. Melin's (1939) species has been reinstated (Osawa & Chan, 2010).

{14} Although *Pachycheles holosericus* Schmitt, 1918 was cited by name in Nininger (1918) and presumably accompanied by a figure, there was no description and according to Haig (1960) the text figure was unrecognizable to species. Schmitt (1921) described this taxon as a new species.

{15} Buckup & Bond-Buckup (1999) included *Pachycheles haigae* as a valid species in the Brazilian fauna, perhaps unaware that Harvey & de Santo (1996) had placed this taxon in synonymy with *Pachycheles laevidactylus*.

{16} *Parapetrolisthes* was established for *Petrolisthes tortugensis* on the basis of the shape of the fingers. However, the molecular analyses by Hiller et al. (2006) and Rodriguez et al. (2006) suggested that this species should be grouped with the *Petrolisthes galathinus* complex. The validity of the genus and its postulated relationship with the Galatheidae were not supported by these molecular studies. Nonetheless, it is retained as a valid genus until such time as revisionary studies determine its proper affiliation.

{17} The developmental and morphological characters of larvae and adults of *Petrocheles* suggest a close relationship between this genus and some galatheids (Hale, 1927; Wear, 1965; pers. obs. of one of the present authors, MO). Molecular analyses of Hiller et al. (2006) and Ahyong et al. (2009) suggested that *Petrocheles* should be excluded from the porcellanid clade or that the Galatheidae might be paraphyletic on the basis of an internally nested Porcellanidae.

{18} The genus *Petrolisthes* is the most species-rich genus in the Porcellanidae. Several informal species groups have been distinguished in this genus based on the adult and larval morphology (e.g., Haig, 1960; Osawa, 1995; Fujita et al., 2002). Molecular phylogenies

by Stillman & Reeb (2001) and Rodriguez et al. (2006) show *Petrolisthes* as currently recognized is paraphyletic on the basis of nested positions of species of *Allopetrolisthes*, *Clastotoechus*, *Liopetrolisthes*, *Megalobrachium*, and *Parapetrolisthes*.

{19} Haig (1960) emended the spelling from *cabrilloa* to *cabrilloi* to conform with the ICZN rule for the formation of specific names based on modern surnames.

{20} Miyake & Nakasone (1966) determined that the specimens reported by Melin (1939) as *P. carinipes* did not agree with Heller's (1861) taxon and proposed the name *Petrolisthes melini* for those specimens. Similarly, Lewinsohn (1974) found differences between Melin's (1939) material and the type of *P. carinipes*, but did not describe Melin's material as a new species. Recent studies suggest that *P. melini* as defined by Miyake & Nakasone (1966) agrees more closely with *P. extremus* Kropp & Haig, 1994 than with *P. carinipes*. If further study shows that *P. melini* and *P. extremus* are conspecific, *P. melini* has priority.

{21} The correct date of publication of Randall's paper in the Journal of the Academy of Natural Sciences, Philadelphia is 1840 (Melville & Smith, 1987)

{22} Whereas Ng et al. (2008) elected to omit the honorific "de" for all French authors, we have chosen to retain it for those authors commonly cited in Anomuran literature; e.g., de Saussure, de Saint Laurent.

{23} The taxonomic relationship of *Petrolisthes lamarckii* with its presumed synonyms is unsatisfactory. Examination by one of the current authors (MO) has shown that specimens from various western Pacific localities have exhibited considerable variations in certain significant characters, in addition to variations in living color. Further study will undoubtedly show that several distinct taxa have been confounded under the name *P. lamarckii*.

{24} Hendrickx & Harvey (1999) indicated that the subspecies *austrinus* and the nominal subspecies *lewisi* were not distinct and considered *P. lewisi austinus* a synonym.

{25} Gore (1983) placed *P. cessacii* in synonymy with *P. marginatus* on the basis of adult morphological characters, but cautioned that whether or not the eastern and western Atlantic populations of the species were reproductively isolated remained to be determined. At that time Gore believed that the answer might be found in a comparison of the larval morphology of the different populations. With the advances being made in molecular determinations, the answer well may be found in examinations of the populations' DNA.

{26} Certain characters of *P. mesodactylon* suggest a possible relationship between this species and *Novorostrum securiger*. It is possible that further study will show that *P. mesodactylon* actually should be assigned to *Novorostrum*.

{27} Two forms of both *Petrolithes militaris* and *P. scabriculus* have been found in the western Pacific, each differing in coloration and habitats. Further investigation is needed to determine if one or both represent more than one taxon.

{28} Although *Petrolisthes rathbunae* was cited by name in Hilton (1916) and presumably accompanied by a figure, there was no description and according to Haig (1960), the text figure was unrecognizable to species. Schmitt (1921) described this taxon as a new species.

{29} Melin (1939) proposed the replacement name *Petrolisthes teres* for *Petrolisthes inermis* Haswell, 1882, preoccupied by *Porcellana inermis* Heller, 1862 (= *Petrolisthes hastatus* Stimpson, 1858). Although the types of *Petrolisthes teres* should have been the material described as *P. inermis* by Haswell (1882), Melin (1939) used his non-type material from the Bonin (Ogasawara) Islands to describe *P. teres*. Re-examination of some Melin's (1939) specimens has shown that they are actually *P. japonicus* (De Haan, 1849). Judging from the photographs of the syntypes of *P. teres* (= *P. inermis* Haswell, 1882), there is a small spine on the anterior margin of the third segment of the antennal peduncle. Such spine is absent in *P. japonicus*. Among other morphologically allied congeners, the spine is present in *P. elongatus*, *P. kranjiensis*, *P. limicola*, as well as those '*P. inermis*' reported by Miyake (1943) and '*P. teres*' reported by Johnson (1970). The exact identity of *P. teres* has yet to be determined.

{30} Haig (1960) discussed the confusion that had existed among the names applied to *Petrolisthes tuberculosus*. She pointed out that although Ortmann (1897) argued that *Porcellana affinis* Gray, 1831 was undefined, thus not a homonym of *P. affinis* Guérin, 1835, Gray's description albeit brief, was sufficient to validate it. Consequently, Guérin's (1835) *P. affinis* was not available.

{31} The validity of *Pisidia bluteli*, *P. longicornis* and *P. longimana* as distinct species has been the subject of debate. Holthuis (1961) and Zariquiey Álvarez (1968) clearly distinguished the three species. In contrast, García Raso (1987) found what he believed to be a morphological cline that existed between *P. longicornis* and *P. longimana*, and d'Udekem d'Acoz (1999) discussed his belief that *P. bluteli* was not distinct from *P. longicornis*. However, Koukouras et al. (2002) found constant characters that separated the three.

{32} *Pisidia dispar* and *P. variabilis* differ considerably from other congeners in such characters as carapace convexity, rostral structure and orbital angle. The possibility exists that these species should be placed in a separate genus.

{33} The taxonomy of *Polyonyx biunguiculatus* and *P. obesulus* is still problematic (see Osawa, 2007b) and a review of specimens hitherto reported as the two species as well as their synonyms is needed.

{34} Werding (2001) suggested that *P. hendersoni* and *P. splendidus* represented a distinct genus, although no formal action was taken.

{35} Chace's (1956) subspecies of *Porcellana platycheles*, *P. p. africanus*, was considered a distinct taxon by d'Udekem d'Acoz (1999) and elevated to full specific rank. No additional subspecies have been described. Veloso & Melo (1993) also considered *P. paivacarvalhoi* to be a junior synonym of *P. platycheles*.

{36} In her revision of *Porcellana*, Haig (1978) established four new genera for nine species formerly assigned to the genus. Nonetheless, the retention of certain species in *Porcellana* is questionable. Haig mentioned that *P. caparti* and *P. elegans* should perhaps be reassigned to *Enosteoides* and *Capilliporcellana*, respectively. She believed that *P. foresti* appeared to be related to *Ancyclocheles*. Until the type materials of all three taxa are reexamined, the questions of generic placement remain ambiguous. However, based on the structures of the carapaces and chelipeds, at least *P. caparti* and *P. foresti* appear clearly different from species of *Enosteoides* and *Ancylocheles*.

{37} *Porcellana stimpsoni* was briefly described by A. Milne-Edwards (1880). The presumably differentiating characters of A. Milne-Edwards' taxon were found to be the result of abnormal development of the left cheliped and frontal region in the type specimen. Consequently, *P. stimpsoni* cannot be distinguished from *P. sayana*, and is considered a junior synonym of the latter species. (B. Werding, in litt.; see Lemaitre & Campos, 2000).

{38} According to Veloso & de Melo (1993) and Rodriguez et al. (2005), *Petrolisthes costai* Rodriguez da Costa, 1968 and *Pisidia melloleitaoi* Rodriguez da Costa, 1968 could not be confirmed as valid species.

{39} According to Chace (1956), until sufficient material is available, the true generic status of *Porcellana mattosi* Osorio, 1887, cannot be determined.

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Fig. 1. Galatheoidea. Representatives of Family Porcellanidae Haworth, 1825 (A, C, in situ): A, *Aliaporcellana* cf. *suluensis* (Dana, 1852), Wakayama Prefecture, Japan (M. Mitsugi); B, *Enosteoides lobatus* Osawa, 2009, Ryukyu Islands, Japan (M. Osawa); C, *Lissoporcellana flagellicola* Osawa & Fujita, 2005, Ryukyu Islands, Japan (M. Osawa); D, *Neopetrolisthes maculatus* (H. Milne Edwards, 1837), Philippines (T.-Y. Chan); E, *Novorostrum indicum* (De Man, 1893), Ryukyu Islands, Japan (M. Osawa); F, *Pachycheles garciaensis* (Ward, 1942), Ryukyu Islands, Japan (M. Osawa); G, *Pachycheles pisoides* (Heller, 1865), Ryukyu Islands, Japan (M. Osawa); H, *Petrolisthes asiaticis* (Leach, 1820), Ryukyu Islands, Japan (M. Osawa); I, *Petrolisthes celebesensis* Haig, 1981, Ryukyu Islands, Japan (M. Osawa).


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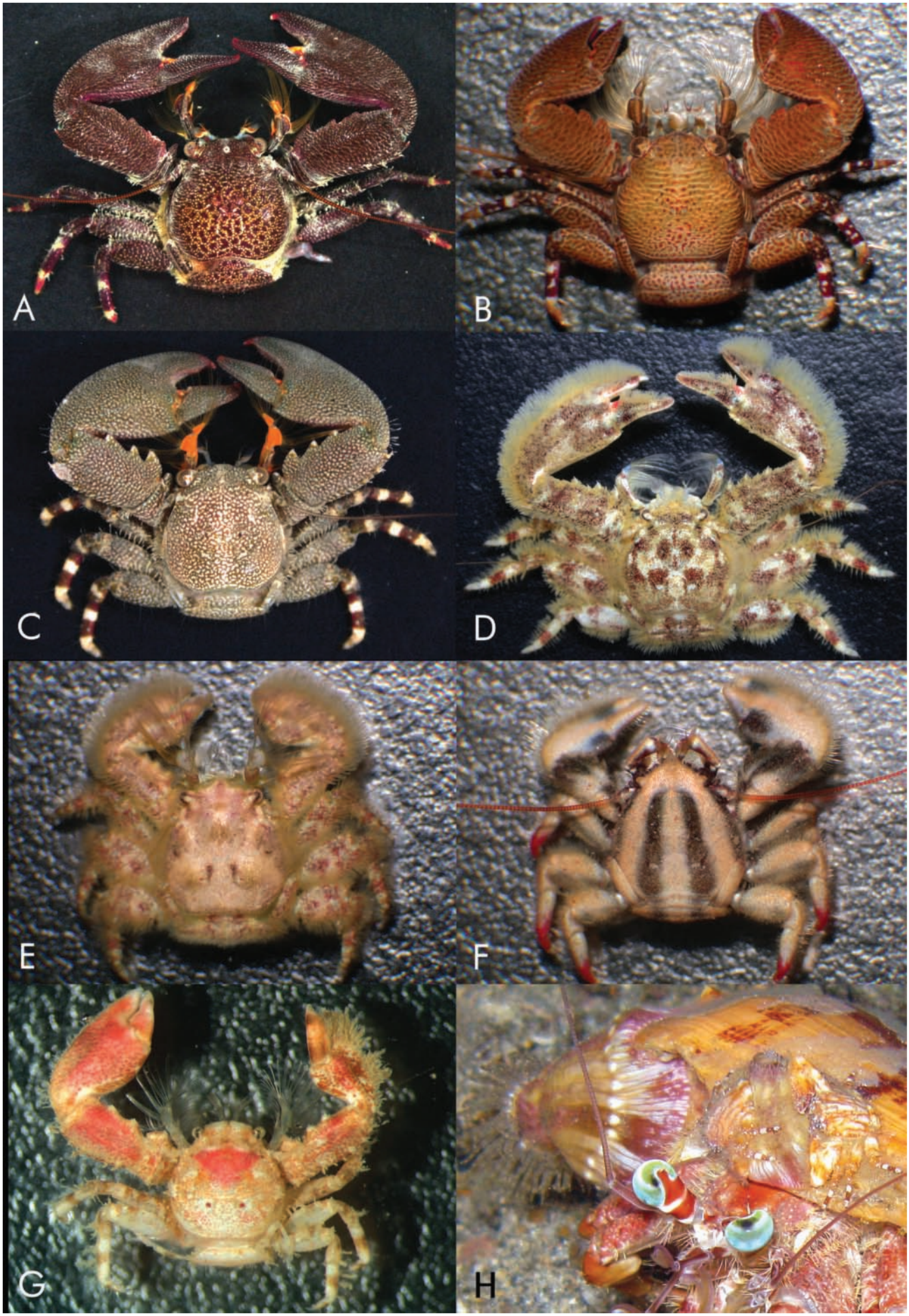
Fig. 2. Galatheoidea. Representatives of Family Porcellanidae Haworth, 1825: A, *Petrolisthes* cf. *lamarckii* (Leach, 1820), Ryukyu Islands, Japan (M. Osawa); B, *Petrolisthes moluccensis* (De Man, 1888), Ryukyu Islands, Japan (M. Osawa); C, *Petrolisthes obtusifrons* Miyake, 1937, Ryukyu Islands, Japan (M. Osawa); D, *Petrolisthes pubescens* Stimpson, 1858, Ryukyu Islands, Japan (M. Osawa); E, *Petrolisthes tomentosus* (Dana, 1852), Ryukyu Islands, Japan (M. Osawa); F, *Petrolisthes virgatus* Paul'son, 1875, Ryukyu Islands, Japan (M. Osawa); G, *Pisidia dispar* (Stimpson, 1858), Ryukyu Islands, Japan (M. Osawa); H, *Porcellana habei* Miyake, 1961, Lembeh, Indonesia, shown on shell occupied by *Dardanus pedunculatus* (Herbst, 1804) (T. Smit).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