

Checklist of brachyuran crabs (Crustacea: Decapoda) from the eastern tropical Pacific

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Abstract

Literature dealing with brachyuran crabs from the east Pacific is reviewed. Marine and brackish water species reported at least once in the Eastern Tropical Pacific zoogeographic subregion, which extends from Magdalena Bay, on the west coast of Baja California, Mexico, to Paita, in northern Peru, are listed and their distribution range along the Pacific coast of America is provided. Unpublished records, based on material kept in the author's collections were also considered to determine or confirm the presence of species, or to modify previously published distribution ranges within the study area. A total of 450 species, belonging to 181 genera, are included in the checklist, the first ever made available for the entire tropical zoogeographic subregion of the west coast of America. A list of names of species and subspecies currently recognized as invalid for the area is also included.

Keywords: Brachyura, Eastern Tropical Pacific, Checklist.

Résumé

La littérature concernant les crabes (Brachyura) du Pacifique Est a été révisée. Les espèces marines et d'eau saumâtre citées au moins une fois pour la sous-région zoogéographique du Pacifique Est tropical, qui s'étend depuis la baie de Magdalena, le long de la côte ouest de la Basse-Californie, au Mexique, jusqu'à Paita, dans le nord du Pérou, ont été incorporées dans une liste taxonomique. Des registres non-publiés, provenant des collections obtenues par l'auteur, ont aussi été pris en compte, afin de confirmer ou de modifier les limites de distribution de certaines espèces. Cette liste, qui contient 450 espèces et 181 genres, est la première disponible pour cette sous-région et permet de connaître les limites exactes de distribution de chaque espèce. D'autre part, une liste des noms d'espèces et de sous-espèces actuellement reconnus comme non valables pour la sous-région concernée est également incluse.

Mots clés: Brachyura, Pacifique Est tropical, liste taxonomique.

Introduction

When available, reliable checklists of marine species occurring in distinct geographic regions of the world are of multiple use. In addition of providing comparative figures for biodiversity studies, they serve as an important tool in defining extension of protected area, inferring potential impact of anthropogenic activity and complexity of communities, and estimating availability of living resources. Checklists for zoogeographic regions or provinces also facilitate biodiversity studies in specific habitats, which serve as points of departure for (among others) studying the structure of food chains, the relative abundance of species, and number of species or total number of organisms of various physical sizes (MAY, 1992). It is now recognized that a significant increase of comprehensive surveys and inventories would help reinforce conservation practice in poorly known areas of the tropics (HATCHER *et al.*, 1989; MCNEELY *et al.*, 1990). Although subtropical and tropical marine invertebrates communities remain largely undescribed, a significant effort in studying this fauna has recently increased in some species-rich areas of the world, including the Indo-West Pacific, tropical Atlantic and the Eastern Tropical Pacific (see FOREST, 1989; RICHER de FORGES, 1990; MACPHERSON, 1991; BIANCHI, 1991; CERVIGNON *et al.*, 1992; HENDRICKX, 1993b).

Decapod crustaceans are important members of tropical benthic communities. Beside the fact that the largest, most abundant species are usually used as a food source for human consumption (e.g. shrimps, lobsters, crabs), there exists a very large variety of smaller species which all contribute to the size, complexity and functioning of tropical ecosystems. In every habitats, decapod crustaceans also include major predatory species which play an important role in regulating benthic communities trophic relationships.

Since the last monographic or review papers dealing with brachyuran crabs of the Pacific coast of America were published by the late Mary Jane Rathbun and John S. Garth, only a few contributions attempting at treating this group as a whole or for a given geographic area of the East Pacific have been produced. Comprehensive information published on decapod crustaceans, including

Brachyura, from the Eastern Tropical Pacific (ETP) has been recently reviewed by HENDRICKX (1993b), who proposed a checklist of all species known from the Pacific coast of Mexico. For comparative purposes, the same author also estimated the total number of species of decapod crustaceans occurring in the whole Eastern Tropical Pacific (HENDRICKX, 1993b: 316), from Magdalena Bay, Lower California, to Paita, Peru, totaling 926 species belonging to 329 genera. Apart from a few papers that slightly modify distribution range of some species, two significant contributions could not be taken into account by HENDRICKX (*op. cit.*). The first is a review of decapod crustaceans from the Pacific coast of Colombia proposed by LEMAITRE & ALVAREZ LEON (1992) and which contains 378 species cited at least once for this area. The second is a similar paper, dealing with Anomura and Brachyura of Pacific Costa Rica (MORAN & DITTEL, 1993), in which 186 valid species of Brachyura are listed.

Two little known papers were also published in 1987 and 1991. The contribution of RODRIGUEZ DE LA CRUZ (1987) to the study of the Gulf of California Brachyura (a reprint of her Master Thesis manuscript written in 1976) in which identification keys to species were included. Unfortunately, this contribution did not take into account the numerous taxonomic and distribution changes that had occurred in the intervening period, and reproduced the same mistakes or omissions included in the 1976 manuscript. The more recent work by CORREA-SANDOVAL & CARVACHO (1992) is an analysis of the distribution of Brachyuran crabs in the Gulf of California. This monographic work, however, is based on yet another paper (CORREA-SANDOVAL, 1991) which contains many taxonomic mistakes (e.g. species cited twice in different genera; junior synonyms not recognized as such; species and nominal subspecies counted separately). As a consequence, these works have to be used with caution.

Methods

Records in the checklist were derived from the review of literature dealing with Eastern Tropical Pacific brachyuran crabs and from unpublished data obtained by the author during recent surveys of the decapod crustaceans fauna of the Pacific coast of Mexico. Some new records were also provided or confirmed by the late John S. GARTH (in litt.). The Eastern Tropical Pacific zoogeographic region is defined herein as the area extending from Magdalena Bay, on the west coast of Baja California, Mexico, to Paita, in northern Peru (Hendrickx, 1992, 1993a). The taxonomic sequence is the one followed by HENDRICKX (1993a, 1993b), in which subfamilies of Majidae are treated at the family level and the Xanthidae are maintained as a single, unified family (*sensu* BALSS, 1957).

Because they are not always widely recognized among carcinologists, subgenera have not been considered in the

list. An “?” has been used to emphasize the existence of reasonable doubt concerning record of a species at a given locality or whenever a species presents an unreliable record for a country or area.

Presence of species in other geographic regions of the world has been indicated by the following abbreviations: I-PAC, Indo-Pacific; PAC, Pacific Ocean; W-ATL, West Atlantic; ATL, West and East Atlantic; N-PAC, North Pacific; MED, Mediterranean. Records on offshore islands or rocks are cited separately, as they often indicate southern or northern distribution limits markedly different from those known along the continent. As a rule, only oceanic islands (Guadalupe, Clarion and Socorro, Revillagigedo, Mexico; Clipperton, France; Coco, Costa Rica; Malpelo, Colombia; Galapagos, Ecuador; Juan Fernandez, Chile) or rocks (Alijos, Mexico) have been considered as “offshore” records. It should be noted that for the sake of clarity, records for “Isla del Coco”, Costa Rica, have all been noted as “Coco”, stating for all the “Coco Island, Cocos Island, isla Coco, isla Cocos and (rarely) isla del Coco” found in the literature. Records on Gulf of California islands, Tres Marias, Gorgona and Gulf of Panama islands have been included in the general continental range of the species as they occur much closer to shore.

Genera and species have been listed by alphabetic order within their respective family. Author and date of the original description is provided. If the range was given in the original description and has not been modified since, the source is the original citation which is therefore included in the list of references. Otherwise, authors citations are given at the end of the range. An appendix, at the end of the list, provides names of unvalid species or subspecies cited for the Eastern Tropical Pacific. The correct, currently recognized valid name is provided in parenthesis in such a way that the reader can refer to it in the list. Invalid species names cited for other zoogeographic regions are not included as they are not relevant to this study.

Results

The present paper provides an updated taxonomic list of all species of Brachyura known from the area: 450 species. Although it is not intended to be a systematic paper where taxonomic position or validity of species are discussed, the following comments are in order. *Notolopas lamellatus* STIMPSON, 1871, reported from the Gulf of California, Mexico, to Ecuador is also cited for Beaufort, North Carolina, by RATHBUN (1925, a single ovigerous female) but has never been caught again in the western Atlantic. The distribution limits of the three subspecies of *Portunus xantusii* (STIMPSON, 1860) are these provided by GARTH & STEPHENSON (1966) modified according to new data available later than 1966. It should be noted, however, that due to the existence of intermediate forms, these ranges must be considered with caution. *Cancer porteri* RATHBUN, 1930, is known with certainty from Lobos de

Afuera Islands, Peru, to Concepcion Bay, Chile. Records north of this range published before the description of *C. johngarthi* by CARVACHO (1989), however, need to be confirmed. Most records of *Panopeus bermudensis* BENEDICT & RATHBUN, 1891, in the Eastern Tropical Pacific have now been recognized as belonging to one or several of the species described by ABELE & KIM (1989) from Panama. *Micropanope? maculatus* (RATHBUN, 1898) is herein cited as *Lophopanopeus maculatus* RATHBUN, 1898, thus following Garth's last published report of this species (GARTH, 1992a). *Cycloxanthops sexdecimdentatus* (H. MILNE EDWARDS & LUCAS, 1844), reported for Islas Marias, in the SE Gulf of California by RATHBUN (1930: 290) is known from Peru to Chile (GARTH, 1957). The material examined by RATHBUN (*loc. cit.*), an immature male, is considered insufficient to include this southern temperate species into a checklist of eastern tropical brachyuran crabs. *Trapezia corallina* GERSTAECKER, 1856 and *T. formosa* SMITH, 1869, two species described from Panama, have been successively considered as synonyms of *T. digitalis* LATREILLE, 1825 (RATHBUN, 1930), as two valid species belonging to the *digitalis* group (SERÈNE, 1969), and as synonyms of *T. ferruginea* (FINNEY & ABELE, 1981). CASTRO (1982) considered *corallina* and *formosa* as two valid species, and although his conclusions were partly based on the colour pattern of specimens examined, they were somewhat supported by detailed morphometric analysis made by HUBER (1985). *Xanthodius cooksoni* (MIERS, 1877), a species previously included in the genus *Leptodius*, was reported by BOONE (1929: 568 and fig. 5) from Pearl and Tabogilla Islands, Bay of Panama. This record from the mainland, the first of its kind at that time, was apparently overlooked by GARTH (1946a) who did not cite BOONE 1929's paper and considered the species to be an oceanic island endemic (Galapagos and Clarion) (GARTH 1992a). Specimens of *Elamenopsis kempfi* (CHOPRA & DAS, 1930), originating from southern Iraq, were reported from Miraflores locks, Panama, by ABELE & KIM (1989). Supposedly introduced by ships, these crabs belong to the fresh water family Hymenosomatidae, not treated herein.

List of species

DROMIIDAE de HAAN, 1833

1. *Cryptodromiopsis larraburei* (RATHBUN, 1910)
Monterey Bay, California, USA, to Sechura Bay, Peru, including the entire Gulf of California, Mexico; Galapagos Islands (HENDRICKX, 1990a; MCLAY, 1993).
2. *Hypoconcha californiensis* BOUVIER, 1898
San Jose Island, SW Gulf of California, Mexico, to Taboga Island, Panama; Revillagigedo Islands (RATHBUN, 1937; CRANE, 1937a; GARTH, 1992a).

3. *Hypoconcha lowei* RATHBUN, 1933
San Felipe, northern Gulf of California, Mexico, to La Libertad, Ecuador (GARTH, 1948; BRUSCA, 1980).
4. *Hypoconcha panamensis* SMITH, 1869
From the upper Gulf of California, Mexico, south to Matapalo (Capon), Peru; Galapagos and Revillagigedo Islands (HENDRICKX, 1990a).

HOMOLIDAE de HAAN, 1839

5. *Paromola faxoni* (SCHMITT, 1921)
From Tajiguas, California, USA, to Cedros Islands, west coast of Baja California, Mexico (KUCK & MARTIN, 1994). A single record at San Jose Island, Gulf of California, Mexico (CORREA-SANDOVAL, 1991).

DYNOMENIDAE ORTMANN, 1892

6. *Dynomene ursula* STIMPSON, 1860
Espiritu Santo Island, Gulf of California, Mexico, to La Plata Island, Ecuador; Revillagigedo, Clipperton, Malpelo and Galapagos Islands (GARTH, 1965; BIRKELAND *et al.*, 1975; VILLALOBOS-HIRIART *et al.*, 1989).

CYCLODORIPPIDAE ORTMANN, 1892

7. *Clythrocerus edentatus* GARTH, 1966
Gulf of Fonseca, El Salvador (GARTH, 1966).
8. *Deilocerus decorus* (RATHBUN, 1933)
From Soberanes Point, California, USA, south to the Central Gulf of California, Mexico (WICKSTEN, 1988; HENDRICKX, 1990a).
9. *Deilocerus hendrickxi* TAVARES, 1993
Known only from north of Angel de la Guarda Island, Gulf of California, Mexico (TAVARES, 1993).
10. *Deilocerus laminatus* (RATHBUN, 1935)
Central Gulf of California, Mexico; Clarion and Galapagos Islands (HENDRICKX, 1990a).

RANINIDAE de HAAN, 1839

11. *Notosceles ecuadoriensis* (RATHBUN, 1935)
From San Miguel Cape (28°10'N - 112°47'W) and Puerto Refugio (29°32'N - 113°34'W), Gulf of California, Mexico, south to La Plata, Ecuador; Galapagos Islands (GARTH, 1946a, 1948, 1960a; HENDRICKX unpubl. data).
12. *Ranilia angustata* STIMPSON, 1860
Tiburon Island, La Paz and San Lucas Cape, Gulf of California, Mexico (RATHBUN, 1937).

13. *Ranilia fornicata* (FAXON, 1893)
From Santa Maria Bay, west coast of Baja California, and Santa Ines Bay, Gulf of California, Mexico, south to Santa Elena Cape, Ecuador; Galapagos and Revillagigedo Islands (RATHBUN, 1937; GARTH, 1960a; HENDRICKX unpubl. data).
14. *Raninoides benedicti* RATHBUN, 1935
Throughout the northern Gulf of California, Mexico, south to Ecuador (00°32'S) (HENDRICKX, 1990b).
15. *Symethis garthi* GOEKE, 1980
Puerto Refugio, Carmen and Espiritu Santo Islands, Gulf of California, Mexico, south to Honda Bay, Panama (GOEKE, 1980; HENDRICKX unpubl. data).

DORIPPIDAE MCLEAY, 1838

16. *Ethusa ciliatifrons* FAXON, 1893
Off Arboleda Point, Sonora, east coast of the Gulf of California and north of Angel de la Guarda Island, Gulf of California, Mexico, south to Paita, Peru (HENDRICKX, 1989a; HENDRICKX unpubl. data).
17. *Ethusa lata* RATHBUN, 1893
Cedros Island, west coast of Baja California, and throughout the Gulf of California, Mexico, south to Tumbes, Peru; Coco and Galapagos Islands (HENDRICKX, 1989a).
18. *Ethusa panamensis* FINNEGAN, 1931
Throughout the Gulf of California, Mexico, and south to Santa Elena Point, Ecuador (HENDRICKX, 1989a).
19. *Ethusa steyaerti* HENDRICKX, 1989
Known only from the central part of the Gulf of California, Mexico (HENDRICKX, 1990a).
20. *Ethusina faxonii* RATHBUN, 1933
Off Tres Marias Islands, SE Gulf of California, and from Western Mexico to Peru (RATHBUN, 1937; WICKSTEN, 1989).
21. *Ethusina gracilipes* (MIERS, 1886)
San Lucas Cape, Baja California, Mexico, south to Panama and Ecuador (RATHBUN, 1937; LUKE, 1977; LEMAITRE & RAMOS, 1992).
22. *Ethusina robusta* (MIERS, 1886)
Bay of Panama to Ecuador; Galapagos Islands (WICKSTEN, 1989). **W-PAC**
23. *Ethusina smithiana* FAXON, 1893
Off Coco Island, Costa Rica, and Malpelo Island, Colombia (WICKSTEN, 1989).
24. *Acanthocarpus delsolari* GARTH, 1973
From Panama to Mancora Bank, Peru (del ROSARIO & ABELE, 1976; Von PRAHL & SANCHEZ, 1986).
25. *Calappa convexa* de SAUSSURE, 1853
From Magdalena Bay, west coast of Baja California, and Peñasco Point, Sonora, Gulf of California, Mexico, to Tumbes, Peru; Galapagos Islands (RATHBUN, 1937; GARTH, 1966; del SOLAR, 1970).
26. *Calappa hepatica* (LINNAEUS, 1764)
Clipperton Island (GARTH, 1965). **I-PAC**
27. *Calappa saussurei* RATHBUN, 1898
From Tosca Point, west coast of Baja California, and throughout the Gulf of California, Mexico, south to La Plata Island, Ecuador (HENDRICKX, 1990a).
28. *Cycloes bairdii* STIMPSON, 1860
From Santa Maria Bay, west coast of Baja California, Los Frailes and Santa Maria Bay, Gulf of California, Mexico, south to La Libertad, Ecuador; Revillagigedo, Coco and Galapagos Islands (RATHBUN, 1937; Von PRAHL & SANCHEZ, 1986). **W-ATL**
29. *Hepatella amica* SMITH, 1869
From the Bay of Mazatlan, SE Gulf of California, Mexico, to Cape San Francisco, Ecuador (RATHBUN, 1937).
30. *Hepatella peruviana* RATHBUN, 1933
Panama to Peru (RATHBUN, 1937).
31. *Hepatus kossmanni* NEUMANN, 1878
Abrejos Point, west coast of Baja California, throughout the Gulf of California, Mexico, and south to La Libertad, Ecuador (RATHBUN, 1937; GARTH, 1960a; BRUSCA, 1980).
32. *Hepatus lineatus* RATHBUN, 1898
Abrejos Point, west coast of Baja California, and from the upper Gulf of California south to La Paz and Macapule Bay, Mexico (HENDRICKX, 1990a).
33. *Osachila acuta* STIMPSON, 1871
From Manzanillo, Western Mexico, to La Libertad, Ecuador (RATHBUN, 1937).
34. *Osachila galapagensis* RATHBUN, 1935
Galapagos Islands (GARTH, 1946a).
35. *Osachila lata* FAXON, 1893
Santa Ines Bay and Piaxtla Point, Gulf of California, Mexico, to Manzanillo, Colima, Mexico (GARTH, 1966).
36. *Osachila levis* RATHBUN, 1898
Puerto Refugio and San Pedro Nolasco Island, Gulf of California, Mexico, to La Plata Island, Ecuador, Galapagos Islands (RATHBUN, 1937; GARTH, 1966).
37. *Osachila sona* GARTH, 1940
Known only from Honda Bay and Hannibal Bank, Panama (GARTH, 1966).
38. *Platymera gaudichaudii* H. MILNE EDWARDS, 1837
From the Columbia River mouth, Oregon, USA, to Talca, Chile, including the Gulf of California, Mexico, south of Arena Bank and Santa Maria Bay (RATHBUN, 1937; GARTH, 1960a; HAIG & WICKSTEN, 1975; GALIL, 1993).

CALAPPIDAE de HAAN, 1833

24. *Acanthocarpus delsolari* GARTH, 1973
From Panama to Mancora Bank, Peru (del ROSARIO & ABELE, 1976; Von PRAHL & SANCHEZ, 1986).
25. *Calappa convexa* de SAUSSURE, 1853
From Magdalena Bay, west coast of Baja California, and Peñasco Point, Sonora, Gulf of California, Mexico, to Tumbes, Peru; Galapagos Islands (RATHBUN, 1937; GARTH, 1966; del SOLAR, 1970).

LEUCOSIIDAE SAMOUELLE, 1819

39. *Ebalia clarionensis* RATHBUN, 1935
Clarion Island (RATHBUN, 1935).
40. *Ebalia cristata* RATHBUN, 1898
From Abrejos Point, south along the west coast of Baja California, and throughout the Gulf of California, Mexico (RATHBUN, 1937; HENDRICKX unpubl.

- data). A single record at Tumbes, Peru (del SOLAR, 1970).
41. *Ebalia hancocki* RATHBUN, 1933
Socorro (Revillagigedo) and Galapagos Islands (RATHBUN, 1937).
 42. *Ebalia magdalenensis* RATHBUN, 1933
From Ojo de Liebre (Scammon) Lagoon, west coast of Baja California, Concepcion Bay and Rocky Point, Gulf of California, Mexico, south to La Libertad, Ecuador (RATHBUN, 1937; GARTH, 1960a).
 43. *Iliacantha hancocki* RATHBUN, 1935
From Santa Maria Bay, west coast of Baja California, and Arboleda Point (26°47'N), Sonora, Mexico, south to Cape Santa Elena, Ecuador (HENDRICKX, 1990a).
 44. *Iliacantha schmitti* RATHBUN, 1935
Tosca Point, west coast of Baja California, and the Central Gulf of California, Mexico, to La Plata Island, Ecuador (HENDRICKX, 1990a).
 45. *Leucosilia jurinei* (de SAUSSURE, 1853)
Tiburon Island, Gulf of California, Mexico, to Sechura Bay, Peru (VILLALOBOS-HIRIART *et al.*, 1989).
 46. *Lithadia cumingii* BELL, 1855
From Magdalena Bay, west coast of Baja California, Puerto Refugio and San Jorge Island, Gulf of California, Mexico, to La Plata Island, Ecuador; Galapagos Islands (RATHBUN, 1937; GARTH, 1960a).
 47. *Persephona edwardsii* BELL, 1855
From Santa Maria Bay, west coast of Baja California, and Piaxtla Point, SE Gulf of California, Mexico, south to Cape San Francisco, Ecuador; Galapagos Islands (GARTH, 1960a; 1966).
 48. *Persephona orbicularis* BELL, 1855
Perlas Islands, Panama to Valparaiso, Chile (GARTH, 1957).
 49. *Persephona subovata* (RATHBUN, 1893)
Abrejos Point, on the west coast of Baja California, Angel de la Guarda and Tiburon Islands, Gulf of California, Mexico, south to Utria Port, Colombia (RATHBUN, 1937; GARTH, 1960a).
 50. *Persephona townsendi* (RATHBUN, 1893)
From San Firmin Point and Cape Lobos, Gulf of California, Mexico, south to Cape San Francisco, Ecuador (RATHBUN, 1937; GARTH, 1960a).
 51. *Randallia agaricias* RATHBUN, 1898
Thurloe Bay, west coast of Baja California, Cape San Lucas, and Arboleda Point, Mexico, south to La Libertad, Ecuador; Galapagos Islands (RATHBUN, 1937; GARTH, 1966).
 52. *Randallia americana* (RATHBUN, 1893)
Gulf of California, Mexico, from the northern end to Gorda Bank (west coast) and Santa Maria Bay (east coast) (HENDRICKX, 1990a).
 53. *Randallia bulligera* RATHBUN, 1898
From San Diego, California, USA, to Callao, Peru, including the SE Gulf of California, Mexico, up to San Ignacio Bay (RATHBUN, 1937; GARTH, 1960a).
 54. *Randallia minuta* RATHBUN, 1935
Costa Rica to Panama (RATHBUN, 1937).
 55. *Randallia ornata* (RANDALL, 1839)
From San Francisco, California, USA, to Magdalena Bay, west coast of Baja California, and from the northern Gulf of California to San Carlos Point, Sonora, Mexico (HENDRICKX, 1990a).
 56. *Speloeophorus digueti* (BOUVIER, 1898)
Puerto Refugio and Rocky Point, Gulf of California, Mexico, south to Secas Islands, Panama (RATHBUN, 1937; GARTH, 1960a).
 57. *Speloeophorus schmitti* GLASELL, 1935
Northern Gulf of California, Mexico (RATHBUN, 1937; BRUSCA, 1980).
 58. *Uhlias ellipticus* STIMPSON, 1871
From Salsipuedes Island, Gulf of California, Mexico, to Ecuador; Galapagos Islands (VILLALOBOS-HIRIART *et al.*, 1989).
- INACHIDAE MCLEAY, 1838
59. *Anomalothir hoodensis* GARTH, 1939
Galapagos Islands (GARTH, 1946a).
 60. *Erileptus spinosus* RATHBUN, 1893
From Santa Barbara, California, USA, to Cardones Island, Panama including the whole Gulf of California, Mexico (HENDRICKX, 1990a).
 61. *Eucinetops lucasi* STIMPSON, 1860
Throughout the Gulf of California, Mexico, except south of Mazatlan (HENDRICKX *et al.*, 1990).
 62. *Eucinetops panamensis* RATHBUN, 1923
From Angel de la Guarda and Tiburon Islands, Gulf of California, Mexico, south to La Libertad, Ecuador (GARTH, 1958).
 63. *Eucinetops rubellula* RATHBUN, 1923
Tortuga Island, Cape San Lucas and Mazatlan, Gulf of California, to Maruata Bay, Michoacan, Mexico; Revillagigedo Islands (VILLALOBOS-HIRIART *et al.*, 1989; GARCIA MADRIGAL, 1994).
 64. *Podochela angulata* FINNEGAN, 1931
From Puerto Culebra, Costa Rica, to Gorgona Island, Colombia (GARTH, 1946, 1958).
 65. *Podochela casoae* HENDRICKX, 1987
Gulf of California, from Cape San Miguel to San Marcial Point (west coast), and Tres Marias Islands and Mita Point (east coast), Mexico (HENDRICKX, 1987).
 66. *Podochela hemphillii* (LOCKINGTON, 1877)
From Monterey Bay, California, USA, and Gulf of California, Mexico, south of Angel de la Guarda and Tiburon Islands, to Corrientes Cape, Colombia; Guadalupe, Coco and Revillagigedo Islands (HENDRICKX, 1990a).
 67. *Podochela latimanus* (RATHBUN, 1893)
From the northern Gulf of California to Mazatlan and La Paz, Mexico (GARTH, 1958; HENDRICKX, 1987).

68. *Podochela lobifrons* RATHBUN, 1893
From Mugu Point, California, USA, to Cape San Lucas, and throughout the Gulf of California except south of Arboleda Point (26°50'N - 110°05'W), Mexico (HENDRICKX, 1990a).
69. *Podochela margaritaria* RATHBUN, 1902
Galapagos Islands (GARTH, 1946a).
70. *Podochela schmitti* GARTH, 1939
Galapagos Islands (GARTH, 1946a).
71. *Podochela veleronis* GARTH, 1958
From Mazatlan and Carmen Island, Gulf of California, Mexico, south to Salango Island, Ecuador; Alijos Rocks (GARTH, 1958; HENDRICKX, 1987; VILLALOBOS-HIRIART *et al.*, 1989; WICKSTEN, 1995).
72. *Podochela vestita* (STIMPSON, 1871)
From Santa Maria Bay, west coast of Baja California, Angel de La Guarda Island and Cholla Bay, Gulf of California, Mexico, south to Utria Port and Gorgona Island, Colombia; Revillagigedo Islands (GARTH, 1958).
73. *Podochela ziesenhennei* GARTH, 1940
Tenacatita Bay, Mexico, to Ecuador (GARTH, 1946).
74. *Stenorhynchus debilis* (SMITH, 1871)
From Magdalena Bay, west coast of Baja California, and the northern Gulf of California, Mexico, to Valparaiso, Chile; Alijos Rocks, Revillagigedo, Coco and Galapagos Islands (HENDRICKX, 1990a; WICKSTEN, 1995).
- INACHOIDIDAE DANA, 1851
75. *Collodes gibbosus* (BELL, 1835)
Santa Maria Bay, Gulf of California, Mexico, south to Salango Island, Ecuador (HENDRICKX *et al.*, 1990).
76. *Collodes granosus* STIMPSON, 1860
From La Paz and Piaxtla Point, Gulf of California, Mexico, south to Santa Elena Bay, Ecuador (GARTH, 1958).
77. *Collodes robsonae* GARTH, 1946
Gulf of Fonseca, El Salvador, to Canal zone, Panama (GARTH, 1959).
78. *Collodes tenuirostris* RATHBUN, 1893
From Cedros Island, west coast of Baja California, throughout the Gulf of California, Mexico, and south to Sechura Bay, Peru (HENDRICKX *et al.*, 1990).
79. *Collodes tumidus* RATHBUN, 1898
Known from Cedros Island, west coast of Baja California southward, the entire west coast of the Gulf of California, and San Pedro Nolasco Island, Sonora, Mexico (GARTH, 1958).
80. *Euprognatha bifida* RATHBUN, 1893
From San Benito Island, west coast of Baja California, and throughout the Gulf of California, except north of Angel de la Guarda Island and Tepoca Bay, Mexico, to Cape San Francisco, Ecuador; Revillagigedo and Coco Islands (GARTH, 1958).
81. *Euprognatha granulata* FAXON, 1893
Galapagos and Coco Islands (GARTH, 1958).
82. *Inachoides laevis* STIMPSON, 1860
From Cedros Island, west coast of Baja California, and throughout the Gulf of California, Mexico, south to Santa Elena Bay, Ecuador (GARTH, 1958).
83. *Paradasygius depressus* (BELL, 1835)
Throughout the Gulf of California, Mexico, south to Cueva Bay, Colombia (HENDRICKX *et al.*, 1990).
84. *Pyromaia tuberculata* (LOCKINGTON, 1877)
From Tomales Bay, California, USA, throughout the Gulf of California, Mexico, and south to Cape Corrientes, Colombia (HENDRICKX, 1990a).
- TYCHIDAE DANA, 1851
85. *Pitho picteti* (de SAUSSURE, 1853)
From Ojo de Liebre (Scammon) Lagoon, west coast of Baja California, Concepcion Bay and Tepoca Bay, Gulf of California, Mexico, to the Bay of Panama (GARTH, 1958).
86. *Pitho quinquentata* BELL, 1835
Bay of Panama to Paita (?), Peru; Galapagos Islands (GARTH, 1958).
87. *Pitho sexdentata* BELL, 1835
From Santa Ines Point and Tiburon Island, Gulf of California, Mexico, to Manta Bay, Ecuador; Revillagigedo and Galapagos Islands (GARTH, 1958; HERNANDEZ-AGUILERA *et al.*, 1986).
88. *Tyche clarionensis* GARTH, 1958
Clarion Island (GARTH, 1958).
89. *Tyche galapagensis* GARTH, 1958
Galapagos Islands (GARTH, 1958).
90. *Tyche lamellifrons* BELL, 1835
From Agua Verde Bay and Isabel Island, Gulf of California, Mexico, south to La Libertad, Ecuador (GARTH, 1958).
91. *Tyche sulae* VON PRAHL & GUHL, 1982
Gorgona Island, Colombia (VON PRAHL & GUHL, 1982).
- EPIALTIDAE MCLEAY, 1838
92. *Acanthonyx petiveri* H. MILNE EDWARDS, 1834
From Santa Maria Bay, west coast of Baja California, La Paz and Mazatlan, southern Gulf of California, Mexico, to Valparaiso, Chile; Revillagigedo and Galapagos Islands (GARTH, 1958). W-ATL
93. *Epialtoides murphyi* (GARTH, 1948)
Gorgona Island, Colombia, and La Plata Island, Ecuador (GARTH, 1958).
94. *Epialtoides paradigmus* GARTH, 1958
Known only from Angel de la Guarda, Tiburon and Tres Marias Islands, and from Cholla Point and Guaymas, Sonora, on the east coast of the Gulf of California, Mexico (GARTH, 1958; HENDRICKX unpubl. data).

95. *Epialtus minimus* LOCKINGTON, 1877
From 28°12'N, west coast of Baja California, and throughout the Gulf of California to Acapulco, Mexico (GARTH, 1958; VOGEL, 1966).
96. *Epialtus sulcirostris* STIMPSON, 1860
From Santa Maria Bay, west coast of Baja California, and from Mazatlan and San Marcos Island, Gulf of California, to del Caño Island, Costa Rica (HENDRICKX *et al.*, 1990; MORAN & DITTEL, 1993).
97. *Eupleurodon peruvianus* (RATHBUN, 1923)
Santa Catalina Island and Piaxtla Point, Gulf of California, Mexico, south to Iquique, Chile (VILLALOBOS-HIRIART *et al.*, 1989; HENDRICKX *et al.*, 1990).
98. *Eupleurodon rathbunae* GARTH, 1939
Galapagos Islands (GARTH, 1958).
99. *Eupleurodon trifurcatus* STIMPSON, 1871
Known only from Cape San Lucas, Cabeza Ballena, Mazatlan and Acapulco, Mexico, del Caño Island, Costa Rica, and Manta, Ecuador (GARTH, 1958; MORAN & DITTEL, 1993; HENDRICKX unpubl. data).
100. *Sphenocarcinus agassizi* RATHBUN, 1893
From Angel de la Guarda Island and Cape Lobos (29°55'N), Gulf of California, Mexico, south to Honda Bay, Panama; Coco and Galapagos Islands (HENDRICKX, 1990a).
101. *Taliepus dentatus* (H. MILNE EDWARDS, 1834)
Panama (?) to Chile; Chiloe Islands (GARTH, 1958).
102. *Taliepus marginatus* (BELL, 1835)
From Independence Bay, Peru, to Guacajan, Chile; Galapagos Islands (RATHBUN, 1925; GARTH, 1990).
W-ATL (?).
- PISIDAE DANA, 1851
103. *Herbstia camptacantha* (STIMPSON, 1860)
From Concepcion Bay and San Pedro Bay, Gulf of California, south to Puerto Guatulco, Oaxaca, Mexico; Alijos Rocks (GARTH, 1958; WICKSTEN, 1995).
104. *Herbstia edwardsi* BELL, 1835
Galapagos Islands (GARTH, 1958).
105. *Herbstia pubescens* STIMPSON, 1871
Partida Island, Gulf of California, Mexico, to La Plata, Ecuador; Clipperton Island (VILLALOBOS-HIRIART *et al.*, 1989).
106. *Herbstia pyriformis* (BELL, 1835)
Galapagos Islands (GARTH, 1958).
107. *Herbstia tumida* (STIMPSON, 1871)
From Mazatlan and Arena Bank, southern Gulf of California, Mexico, to Santa Elena, Ecuador; Coco and Revillagigedo Islands (HENDRICKX *et al.*, 1990).
108. *Libinia mexicana* RATHBUN, 1892
Northern Gulf of California and along the east coast to Macapule, Sinaloa, Mexico (HENDRICKX *et al.*, 1990).
109. *Libinia rostrata* BELL, 1835
Known only from Paita, Peru (GARTH, 1958).
110. *Lissa aurivilliusi* RATHBUN, 1898
From Santa Maria Bay, west coast of Baja California, and Angel de la Guarda Island, west coast of the Gulf of California, to Tenacatita, Jalisco, Mexico, and Santa Elena Bay, Ecuador; Galapagos Islands (GARTH, 1958).
111. *Lissa tuberosa* RATHBUN, 1898
From Magdalena Bay, west coast of Baja California, Tortugas and Tres Marias Islands, Gulf of California, Mexico, south to Utria Bay, Colombia; Revillagigedo, Coco and Malpelo Islands (GARTH, 1958, 1992a; BIRKELAND *et al.*, 1975).
112. *Neodoclea boneti* BUITENDIJK, 1950
From Macapule, Sinaloa, Mexico, to Tumbes, Peru (GARTH, 1958; HOLTHUIS, 1966).
113. *Notolopas lamellatus* STIMPSON, 1871
From Rocky Point, Gulf of California, Mexico, to La Libertad, Ecuador (GARTH, 1958, 1959).
W-ATL (?)
114. *Notolopas mexicanus* GARTH, 1940
West coast of Mexico, from Piaxtla Point, Gulf of California, to White Friars, Guerrero (GARTH, 1958, 1960a).
115. *Pelia pacifica* A. MILNE EDWARDS, 1875
From Piaxtla Point, SE Gulf of California, Mexico, south to Tumbes, Peru (HENDRICKX *et al.*, 1990).
116. *Pelia pulchella* BELL, 1835
Galapagos Islands (GARTH, 1958).
117. *Pelia tuberculata* (WICKSTEN, 1987)
Gulf of Nicoya, Costa Rica, to Miraflores Locks, Panama (ABELE & KIM, 1989).
118. *Pelia tumida* (LOCKINGTON, 1877)
From Los Angeles, California, USA, to Petatlan Bay, including the whole Gulf of California, Mexico (GARTH, 1958).
119. *Pisoides edwardsii* (BELL, 1835)
Panama (?), and Peru to Chile; Galapagos and Chiloe Islands (GARTH, 1958; del SOLAR, 1970).
120. *Rochinia cornuta* (RATHBUN, 1898)
Galapagos Islands (GARTH, 1958).
121. *Rochinia occidentalis* (FAXON, 1893)
Galapagos Islands (GARTH, 1958).
122. *Rochinia vesicularis* (RATHBUN, 1907)
From San Benito Island and Abreojos Point to Cape San Lucas, west coast of Baja California, and Gorda Bank, SE Gulf of California, Mexico, to Tumbes, Peru; Revillagigedo and Galapagos Islands (GARTH, 1958; del SOLAR, 1970; HENDRICKX, 1992).
- MAJIDAE SAMOUELLE, 1819
123. *Maiopsis panamensis* FAXON, 1893
From Abreojos Point, west coast of Baja California, and off Topolobampo, Gulf of California, Mexico, to Caleta La Cruz, Peru; Revillagigedo Islands (HENDRICKX, 1990c).

MITHRACIDAE BALSS, 1929

124. *Ala cornuta* (STIMPSON, 1860)
Throughout the Gulf of California, Mexico, south to Utria Port, Colombia (GARTH, 1958).
125. *Hemus analogus* RATHBUN, 1898
Concepcion Bay to Espiritu Santo Island, west coast of the Gulf of California, and from Tenacatita Bay, Jalisco, Mexico (GARTH, 1958).
126. *Hemus finneganai* GARTH, 1958
From Angel de la Guarda Island and Puerto San Carlos (Guaymas), Gulf of California, Mexico, to Santa Elena Bay, Ecuador; Revillagigedo Islands (GARTH, 1958, 1959).
127. *Macrocoeloma heptacanthum* (BELL, 1835)
San Lucas Cape, Mexico, to Bay of Panama (GARTH, 1958).
128. *Macrocoeloma maccullochiai* GARTH, 1940
Isabel Island, SE Gulf of California, Mexico, to Tumbes, Peru (GARTH, 1958; del SOLAR *et al.*, 1970).
129. *Macrocoeloma villosum* (BELL, 1835)
From Santa Ines Point to San Lucas Cape, west coast of Gulf of California, Mexico, and from Manta Bay, Ecuador, to Tumbes, Peru (GARTH, 1958; del SOLAR *et al.*, 1970).
130. *Microphrys aculeatus* (BELL, 1835)
Santa Elena Bay, Ecuador to Chimbote, Peru; Galapagos Islands (GARTH, 1958).
131. *Microphrys branchialis* RATHBUN, 1898
From San Eugenio Point, west coast of Baja California, Los Angeles Bay and Puerto Libertad, Gulf of California, Mexico, south to Santa Elena Bay, Ecuador; Coco Island (GARTH, 1959; BRUSCA, 1980).
132. *Microphrys platysoma* (STIMPSON, 1860)
Known from Malarrimo Point, west coast of Baja California, Angel de la Guarda Island and Peñasco Point, Sonora, Mexico to Santa Elena Bay, Ecuador; Socorro (Revillagigedo), Malpelo and Galapagos Islands (GARTH, 1958; VOGEL, 1966; BIRKELAND *et al.*, 1975).
133. *Microphrys triangulatus* (LOCKINGTON, 1877)
From Concepcion Bay and Isabel Island, Gulf of California, Mexico, south to Honda Bay, Panama; Galapagos Islands (GARTH, 1958, 1959).
134. *Microphrys weddelli* H. MILNE EDWARDS, 1851
Santa Elena Bay, Ecuador, to Chile (GARTH, 1957) W-ATL.
135. *Mithrax armatus* de SAUSSURE, 1853
From Los Frailes and Piaxtla Point, southern Gulf of California, Mexico, to Panama (GARTH, 1958).
136. *Mithrax bellii* GERSTAECKER, 1857
Galapagos Islands (GARTH, 1958).
137. *Mithrax denticulatus* BELL, 1835
From San Diego, California, USA, and from Agua Verde Bay and Piaxtla Point, in the southern Gulf of California, Mexico, south to Guayaquil, Ecuador; Coco Island (HENDRICKX, 1990a).
138. *Mithrax nodosus* BELL, 1835
Galapagos Islands (GARTH, 1958).
139. *Mithrax pygmaeus* BELL, 1835
From Isabel Island, Nayarit, Mexico, to Esmeraldas, Ecuador; Revillagigedo, Malpelo and Galapagos Islands (GARTH, 1959; BIRKELAND *et al.*, 1975).
140. *Mithrax sinensis clarionensis* GARTH, 1940
Clarion Island (GARTH, 1958, 1992a).
141. *Mithrax sinensis sinensis* RATHBUN, 1892
From Angel de la Guarda and San Esteban Islands to Gorda Bank, west coast of the Gulf of California, Mexico, and from Secas Islands, Panama, to La Plata Island, Ecuador, with no records in the intervening area; Socorro (Revillagigedo) Island (GARTH, 1958, 1992a).
142. *Mithrax spinipes* (BELL, 1835)
From Agua Verde Bay to Arena Bank and Mazatlan, southern Gulf of California, Mexico; Galapagos and Coco Islands (HENDRICKX, 1990a).
143. *Mithrax tuberculatus* STIMPSON, 1860
From Carmen Island and Mazatlan, Gulf of California, Mexico, to La Libertad, Ecuador (GARTH, 1958, 1960a).
144. *Stenocionops angusta* (LOCKINGTON, 1877)
From Magdalena Bay, west coast of Baja California, and throughout the Gulf of California, except along the east coast south of Ensenada San Francisco, Sonora, Mexico (GARTH, 1958; BRUSCA, 1980).
145. *Stenocionops beebei* GLASSELL, 1936
From Magdalena Bay, west coast of Baja California, and throughout the Gulf of California, Mexico, except south of Santa Maria Bay (HENDRICKX *et al.*, 1990).
146. *Stenocionops ovata* (BELL, 1835)
From Abrejos Point, west coast of Baja California, Angel de La Guarda Islands and off Consag Rocks, Gulf of California, Mexico, south to Santa Elena Bay, Ecuador; Coco and Galapagos Islands (GARTH, 1958; HENDRICKX, 1990a).
147. *Telephrys cristulipes* STIMPSON, 1860
Santa Maria Bay, west coast of Baja California, Angel de la Guarda Island and Mazatlan, Gulf of California, Mexico, to Ecuador; Revillagigedo, Cliperton, Malpelo, Coco and Galapagos Islands (VILLALOBOS-HIRIART *et al.*, 1989).
148. *Telephrys tumidus* (CANO, 1889)
Paíta and Sechura Bay, Peru (GARTH, 1958).
149. *Thoe erosa* BELL, 1835
Santa Elena Bay, Ecuador; Galapagos Islands (GARTH, 1958).
150. *Thoe sulcata panamensis* NOBILI, 1901
Salinas Bay, Costa Rica, to Humboldt Bay and Gorgona Island, Colombia (GARTH, 1958).
151. *Thoe sulcata sulcata* STIMPSON, 1860
From Angel de la Guarda and Tiburon Islands, Gulf of California, Mexico, to Tangola Tangola Bay, Oaxaca; Revillagigedo Islands (GARTH, 1958).

PARTHENOPIDAE MCLEAY, 1838

152. *Cryptopodia hassleri* RATHBUN, 1925
From Magdalena Bay, west coast of Baja California, Angel de la Guarda Island and Ensenada de San Francisco, Sonora, Gulf of California, Mexico, south to Santa Elena Bay, Ecuador (GARTH, 1958).
153. *Heterocrypta colombiana* GARTH, 1940
Salinas Bay, Costa Rica, to Port Utria, Colombia (GARTH, 1958).
154. *Heterocrypta craneae* GARTH, 1959
From La Union, Gulf of Fonseca, El Salvador to Miraflores Locks, Panama (ABELE & KIM, 1989).
155. *Heterocrypta macrobrachia* STIMPSON, 1871
From Magdalena Bay, west coast of Baja California, and throughout the Gulf of California, except south of Angel de la Guarda Island on the west coast, Mexico, south to La Libertad, Ecuador (GARTH, 1958, 1959).
156. *Heterocrypta occidentalis* (DANA, 1854)
From Drakes Bay, California, USA, Gorda Bank and Boca de las Piedras (Sinaloa), Gulf of California, Mexico, to Utria Port, Colombia (GARTH, 1958).
157. *Leiolambrus punctatissimus* (OWEN, 1839)
From Tosca Point, west coast of Baja California, Willard Point and Tiburon Island, Gulf of California, Mexico, to Tumbes, Peru (HENDRICKX *et al.*, 1990).
158. *Parthenope depressiuscula* (STIMPSON, 1871)
From Isabel Island, Gulf of California, Mexico, to Santa Elena Bay, Ecuador (GARTH, 1959).
159. *Parthenope excavata* (STIMPSON, 1871)
From Angel de la Guarda Island and Piaxtla Point, Gulf of California, Mexico, south to Taboga Island, Panama (HENDRICKX *et al.*, 1990).
160. *Parthenope exilipes* (RATHBUN, 1893)
From San Domingo Point, west coast of Baja California, San Miguel Cape and Estero Tastiota, Gulf of California, Mexico, south to Lobos de Afuera Island and Tumbes, Peru; Revillagigedo, Galapagos and Coco Islands (HENDRICKX *et al.*, 1990; GARTH, 1992a).
161. *Parthenope hyponca* (STIMPSON, 1871)
From Mazatlan, Gulf of California, Mexico, to Caleta la Cruz, Tumbes, Peru (GARTH, 1958; del SOLAR *et al.*, 1970).
162. *Parthenope stimpsoni* GARTH, 1958
Gorda Bank and Tres Marias Islands, Southern Gulf of California, Mexico, to Gorgona Island, Colombia (HENDRICKX *et al.*, 1990).
163. *Parthenope triangulata* (STIMPSON, 1860)
From Magdalena Bay, west coast of Baja California, south to San Lucas Cape, and north to Puerto Escondido along the Gulf of California west coast, Mexico; a single record in La Plata Island, Ecuador; Revillagigedo, Clarion and Galapagos Islands (GARTH, 1958).

164. *Solenolambrus arcuatus* STIMPSON, 1871
From San Miguel Cape and Tepoca Bay, Gulf of California, to Santa Elena Bay, Ecuador; Revillagigedo and Galapagos Islands (HENDRICKX *et al.*, 1990).
165. *Thyrolambrus astroides* RATHBUN, 1894
Socorro Island (Revillagigedo) (GARTH, 1992b).
W-ATL
166. *Thyrolambrus glasselli* GARTH, 1958
From Magdalena Bay, west coast of Baja California, and south of San Lorenzo Channel, Gulf of California, to Esmeraldas, Ecuador; Socorro and Clarion (Revillagigedo), and Coco Islands (GARTH, 1958, 1992a).

AETHRIDAE DANA, 1851

167. *Aethra scutata* SMITH, 1869
San Lucas Cape, Baja California, and Mazatlan, Gulf of California, Mexico; Revillagigedo and Galapagos Islands (GARTH, 1958, 1992a).

DALDORFIIDAE RATHBUN, 1904

168. *Daldorfia garthi* GLASSELL, 1940
San Lucas Cape, Baja California, and from Guatulco, Oaxaca, Mexico, to Octavia Bay, Colombia; Galapagos Islands (GARTH, 1958, 1959).
169. *Mesorhoea belli* (A. MILNE EDWARDS, 1878)
From Abreojos Point, west coast of Baja California, throughout the Gulf of California, Mexico, and south to Tumbes, Peru; Galapagos Islands (HENDRICKX *et al.*, 1990).

DAIRIDIDAE NG & RODRIGUEZ, 1986

170. *Daira americana* STIMPSON, 1860
From Salsipuedes and Isabel Islands, Gulf of California, Mexico, to Ecuador; Alijos Rocks, Galapagos and Revillagigedo Islands (CRANE, 1947; HERNANDEZ-AGUILERA & MARTINEZ-GUZMAN, 1992; WICKSTEN, 1995).

ATELECYCLIDAE ORTMANN, 1893

171. *Acanthocyclus hassleri* RATHBUN, 1898
Panama (extralimital) to San Vicente Bay, Chile (RETAMAL, 1981).
172. *Pliosoma parvifrons* STIMPSON, 1860
From Magdalena Bay to Los Cabos, west coast of Baja California, and from Carmen Island, Gulf of California, Mexico, to Guatemala (RATHBUN, 1930; CRANE, 1937b; GARTH, 1960a).

173. *Trachycarcinus corallinus* FAXON, 1893
Off Altata, Gulf of California, Mexico, to Peru (7°58'S); Galapagos Islands (GARTH & HAIG, 1971).

PORTUNIDAE RAFINESQUE, 1815

174. *Arenaeus mexicanus* (GERSTAECKER, 1857)
From Santa Maria Bay, west coast of Baja California, Puerto Escondido and Tepoca Bay, Gulf of California, Mexico, to Callao, Peru; Coco Island (GARTH & STEPHENSON, 1966).
175. *Callinectes arcuatus* ORDWAY, 1863
From Los Angeles, California, USA, throughout the Gulf of California, Mexico, and south to Mollendo, Peru; Galapagos Islands (GARTH & STEPHENSON, 1966; WILLIAMS, 1974).
176. *Callinectes bellicosus* (STIMPSON, 1859)
From San Diego, California, USA, throughout the Gulf of California, and south to the Gulf of Tehuantepec, Mexico (GARTH & STEPHENSON, 1966).
177. *Callinectes exasperatus* (GERSTAECKER, 1856)
Panama (Miraflores Locks) (ABELE & KIM, 1989).
178. *Callinectes toxotes* Ordway, 1863
From Cape San Lucas and Piaxtla River, southern Gulf of California, Mexico, to Tumbes, Peru; Juan Fernandez Islands, Chile (HENDRICKX, 1984a).
179. *Cronius ruber* (LAMARCK, 1818)
From Cedros Bay, west coast of Baja California, Concepcion Bay and Kino Bay, Gulf of California, Mexico, to Paita, Peru; Alijos Rocks, Clipperton and Galapagos Islands (GARTH & STEPHENSON, 1966; HENDRICKX, 1984a). ATL
180. *Euphylax dovii* STIMPSON, 1860
From San Diego, California, USA, and from Santa Maria Bay, Gulf of California, Mexico, south to Talcahuano, Chile. Also pelagic, from Santa Monica, California, to 9°23'N - 119°W (GARTH & STEPHENSON, 1966; JERDE, 1967, 1970; HENDRICKX unpubl. data), and to 17°30'S, off Mollendo, Peru (extralimital; "El Niño" effect).
181. *Euphylax robustus* A. MILNE EDWARDS, 1874
Throughout the Gulf of California, Mexico, and to Paita, Peru (HENDRICKX, 1990a; unpubl. data).
182. *Portunus acuminatus* (STIMPSON, 1871)
From Santa Maria Bay, west coast of Baja California, and Canjeme (Guaymas), Gulf of California, Mexico, to Parado Cape, Ecuador (GARTH & STEPHENSON, 1966).
183. *Portunus angustus* RATHBUN, 1898
Galapagos Islands (GARTH & STEPHENSON, 1966).
184. *Portunus asper* (A. MILNE EDWARDS, 1861)
From Canjeme (Guaymas), Sonora, on the east coast of the Gulf of California, Mexico, to Chile (locality unknown); Revillagigedo Islands (GARTH & STEPHENSON, 1966).
185. *Portunus brevimanus* (FAXON, 1895)
Gorgona Island, Colombia; Clarion and San Benedicto (Revillagigedo), and Coco Islands (GARTH & STEPHENSON, 1966).
186. *Portunus guaymasensis* GARTH & STEPHENSON, 1966
Known only from the type-locality, Guaymas, Gulf of California, Mexico (GARTH & STEPHENSON, 1966).
187. *Portunus iridescens* (RATHBUN, 1893)
San Lazaro Cape, west coast of Baja California, Diggs Point and Lobos Cape, Gulf of California, Mexico, to Mancora, Peru (HENDRICKX, 1990a).
188. *Portunus stanfordi* RATHBUN, 1898
Galapagos Islands (GARTH & STEPHENSON, 1966).
189. *Portunus tuberculatus* (STIMPSON, 1860)
San Lucas Cape, Los Frailes and Isabel Island, Gulf of California, Mexico, south to Ecuador (01°07'N-79°53'W); Revillagigedo, Clipperton and Galapagos Islands (GARTH & STEPHENSON, 1966).
190. *Portunus xantusii affinis* (FAXON, 1893)
San Lucas Cape and San Lorenzo River Southern Gulf of California, Mexico, to Lobos de Afuera Island, Peru; Revillagigedo, Clarion and Galapagos Islands. Also pelagic from 20°N to 01°N (GARTH & STEPHENSON, 1966; JERDE, 1967, 1970; HENDRICKX, 1984a, unpubl. data).
191. *Portunus xantusii minimus* RATHBUN, 1898
Off Coronado Islands, California, USA (extralimital). From Magdalena Bay, west coast of Baja California, and throughout the Gulf of California to the Gulf of Tehuantepec, Mexico (GARTH & STEPHENSON, 1966; SOSA-HERNANDEZ *et al.*, 1980).
192. *Portunus xantusii xantusii* (STIMPSON, 1860)
From Santa Barbara, California, USA, to the Gulf of California, Mexico, where it is reported from Concepcion Bay to San Lucas Cape, and from Huatabampo to Teacapan (GARTH & STEPHENSON, 1966; HENDRICKX, 1990a).
193. *Thalamita picta* STIMPSON, 1858
Clipperton Island (GARTH 1965). I-PAC

CANCRIDAE LATREILLE, 1803

194. *Cancer amphioetus* RATHBUN, 1898
Newport Bay, Oregon, USA, south to Magdalena Bay, west coast of Baja California and in the northern and southern Gulf of California, Mexico (HENDRICKX, 1990a). N-PAC
195. *Cancer antennarius* STIMPSON, 1856
Pribilof Island, Alaska, USA, to San Lucas Cape, Baja California, Mexico (CARVACHO & BONFIL, 1989).
196. *Cancer edwardsi* BELL, 1835
Guayaquil, Ecuador, to Strait of Magellan (GARTH, 1957).

197. *Cancer johngarthi* CARVACHO, 1989
Guadalupe Island, Baja California, and off San Lorenzo River, Gulf of California, Mexico, to Bay of Panama (CARVACHO, 1989).
198. *Cancer polyodon* POEPPIG, 1836
Guayaquil, Ecuador, to Taitao Peninsula, Chile (GARTH, 1957).
199. *Cancer porteri* RATHBUN, 1930
From Lobos de Afuera Island, Peru, to Concepcion Bay, Chile. Records in literature from north of Lobos de Afuera Islands need to be confirmed (RETAMAL, 1981; CARVACHO, 1989).
- XANTHIDAE MCLEAY, 1838
200. *Actaea angusta* RATHBUN, 1898
Mazatlan, SE Gulf of California, Mexico; Galapagos Islands (GARTH, 1946a; HENDRICKX unpubl. data).
201. *Carpilius convexus* (FORSSKÅL, 1775)
Clipperton Island (GARTH, 1965). I-PAC
202. *Cataleptodius occidentalis* (STIMPSON, 1871)
From Tortuga Bay, west coast of Baja California, San Luis Gonzaga Bay and Guaymas, Gulf of California, Mexico, to "Panama"; Revillagigedo and Galapagos Islands (HERNANDEZ-AGUILERA *et al.*, 1986; WICKSTEN, 1987).
203. *Cataleptodius snodgrassi* (RATHBUN, 1902)
Galapagos Islands (GARTH, 1946a).
204. *Cataleptodius taboganus* (RATHBUN, 1912)
West coast of Costa Rica to Salinas, Ecuador (RATHBUN, 1930; Von PRAHL & FROIDEFOND, 1985).
205. *Chacellus pacificus* HENDRICKX, 1989
From off Willard Point, off Fuerte River and off Teacapan, Gulf of California, Mexico (HENDRICKX, 1990a).
206. *Coralliope armstrongi* (GARTH, 1948)
Guayabo Chiquito, Panama, to La Plata Island, Ecuador (GARTH, 1948).
207. *Cycloxanthops bocki* GARTH, 1957
Panama (ABELE, 1976).
208. *Cycloxanthops vittatus* (STIMPSON, 1860)
San Ildelfonso Island and San Carlos Bay, Guaymas, Gulf of California, Mexico, to Los Negritos, Colombia; Revillagigedo, Clipperton and Galapagos Islands (GARTH, 1960a, 1992a; Von PRAHL & FROIDEFOND, 1985; VILLALOBOS-HIRIART *et al.*, 1989).
209. *Domecia hispida* EYDOUX & SOULEYET, 1842
From Espiritu Santo and Isabel Islands, Gulf of California, Mexico, to La Plata Island, Ecuador; Revillagigedo, Clipperton and Galapagos Islands (GARTH, 1960a, 1961). I-PAC
210. *Ectaeesthesius bifrons* RATHBUN, 1898
Galapagos Islands (RATHBUN, 1898).
211. *Edwardsium crosslandi* (FINNEGAN, 1931)
Galapagos Islands (FINNEGAN, 1931).
212. *Edwardsium lobipes* (RATHBUN, 1898)
From Santa Maria Bay, west coast of Baja California, Santa Ines Bay and Estero Tastiota, Gulf of California, Mexico, to Igua, Colombia; Galapagos Islands (GARTH, 1960a; Von PRAHL & FROIDEFOND, 1985; HENDRICKX, 1990a).
213. *Epixanthus tenuidactylus* (LOCKINGTON, 1877)
From Concepcion Bay and Piaxtla Point, Gulf of California, Mexico, to Gorgona Island, Colombia; Revillagigedo Islands (GARTH, 1948; HENDRICKX & VAN DER HEIDEN, 1983a).
214. *Eriphia granulosa* A. MILNE EDWARDS, 1880
Chile (? Unknown locality); Galapagos Islands (GARTH, 1946a).
215. *Eriphia squamata* STIMPSON, 1859
From San Juanico Bay, west coast of Baja California, throughout the Gulf of California, Mexico, and south to Capon, Peru; ? Chile; Coco and Galapagos Islands (GARTH, 1946a, 1957).
216. *Eriphides hispida* (STIMPSON, 1860)
West coast of Nicaragua to Gorgona Island, Colombia; Galapagos Islands (Von PRAHL & FROIDEFOND, 1985).
217. *Eurypanopeus canalensis* ABELE & KIM, 1989
From Pabellon coastal lagoon, Gulf of California, Mexico, to Panama Canal (SALGADO-BARRAGAN & HENDRICKX, 1995).
218. *Eurypanopeus confragosus* RATHBUN, 1933
San Felipe, Mazatlan and Teacapan, Gulf of California, Mexico (RATHBUN, 1933; HENDRICKX, unpubl. data).
219. *Eurypanopeus crenatus* (H. MILNE EDWARDS & LUCAS, 1844)
Puna, Ecuador, to Strait of Magellan; Juan Fernandez Islands (GARTH, 1957; RETAMAL & YAÑEZ, 1973).
220. *Eurypanopeus dissimilis* (BENEDICT & RATHBUN, 1891)
Miraflores Locks, Panama (ABELE & KIM, 1989). W-ATL
221. *Eurypanopeus ovatus* (BENEDICT & RATHBUN, 1891)
From San Felipe and Puerto Peñasco, south to Puerto Escondido (west coast) and Topolobampo (east coast), Gulf of California, Mexico (GARTH, 1960a; VOGEL, 1966; HENDRICKX, unpubl. data).
222. *Eurypanopeus planissimus* (STIMPSON, 1860)
From Cedros Island, west coast of Baja California, and throughout the Gulf of California, north to Santa Ines Bay and Tepoca Bay, Mexico (CRANE, 1937b; GARTH, 1960a).
223. *Eurypanopeus planus* (SMITH, 1869)
From San Carlos Bay, Guaymas, Gulf of California, Mexico, south to Santa Elena, Ecuador (RATHBUN, 1930; GARTH, 1948).
224. *Eurypanopeus transversus* (STIMPSON, 1860)
"Mexico" (locality unknown) to San Nicolas Bay (15°10'S), Peru; Galapagos Islands (GARTH, 1946a).
225. *Eurytium affine* (STREETS & KINGSLEY, 1877)
From Tortuga Bay, west coast of Baja California,

- San Luis Gonzaga Bay and Guaymas, Gulf of California, Mexico, to southern Colombia;? Ecuador; Galapagos Islands (RATHBUN, 1930; Von PRAHL & FROIDEFOND, 1985).
226. *Eurytium albidigitum* RATHBUN, 1933
From San Felipe and El Desemboque, northern Gulf of California, to Agua Brava, Nayarit, SE Gulf of California, Mexico (HENDRICKX & VAN DER HEIDEN, 1984).
227. *Eurytium tristani* (RATHBUN, 1906)
El Triunfo, El Salvador, to Capon, Peru (GARTH, 1961; Von PRAHL & FROIDEFOND, 1985).
228. *Garthiope anchialina* GUINOT & ILIFFE, 1991
Isabela Island, Galapagos Islands (GUINOT & ILIFFE, 1991).
229. *Garthiope fraseri* (GARTH, 1946)
Galapagos Islands (GARTH, 1946b).
230. *Globopilumnus xantusii* (STIMPSON, 1860)
San Lucas Cape and Arena Bank, Mexico, to Santa Elena Bay, Ecuador; Alijos Rocks, Galapagos and Revillagigedo Islands (Von PRAHL & FROIDEFOND, 1985; GARTH, 1992a; WICKSTEN, 1995).
231. *Glyptoplax consagae* HENDRICKX, 1989
Northern Gulf of California, Mexico (HENDRICKX, 1989b).
232. *Glyptoplax pugnax* SMITH, 1870
Gulf of California (unknown locality), Mexico, Punta Arenas, Costa Rica, and Panama (RATHBUN, 1918; GARTH, 1960a).
233. *Glyptoxanthus hancocki* GARTH, 1939
Galapagos Islands (GARTH, 1939).
234. *Glyptoxanthus labyrinthicus* (STIMPSON, 1860)
From Perlas Islands, Panama to Gorgona Island, Colombia (GARTH, 1948).
235. *Glyptoxanthus meandricus* (LOCKINGTON, 1877)
Known only from the northern Gulf of California south to San Francisco Island (Baja California) and Puerto Libertad (Sonora), Mexico (GARTH, 1960a; BRUSCA, 1980).
236. *Gonopanope angusta* (LOCKINGTON, 1877)
Magdalena Bay, west coast of Baja California, Estero Tastiota, Sonora, and from Mulege Bay to San Jose Island, on the west coast of the Gulf of California, Mexico (RATHBUN, 1930; HENDRICKX, unpubl. data).
237. *Gonopanope areolata* (RATHBUN, 1898)
From San Juanico Bay, west coast of Baja California, and in the Gulf of California from Cape San Miguel to Los Frailes and from Cholla Bay to Arboleda Point, Mexico (GARTH, 1960a; HENDRICKX, unpubl. data).
238. *Gonopanope nitida* (RATHBUN, 1898)
West coast of the Gulf of California, from Angel de la Guarda Island to Arena Bank, Mexico (VILLALOBOS-HIRIART *et al.*, 1989).
239. *Heteractaea lunata* (H. MILNE EDWARDS & LUCAS, 1843)
From San Diego, California, USA, Agua Verde Bay and Topolobampo, Gulf of California, Mexico, to Valparaiso, Chile (GARTH, 1948, 1960a; HENDRICKX, unpubl. data).
240. *Heteractaea peterseni* GARTH, 1940
San Francisco Island, Gulf of California, Mexico, Hannibal Bank, Panama, and Octavia Bay, Colombia (GARTH, 1961).
241. *Hexapanopeus beebei* GARTH, 1961
From Pabellon coastal lagoon, Gulf of California, Mexico, to the Panama Canal (Pacific side) (SALGADO-BARRAGAN & HENDRICKX, 1995).
242. *Hexapanopeus cartagoensis* GARTH, 1939
Galapagos Islands (GARTH, 1939).
243. *Hexapanopeus costaricensis* GARTH, 1940
Puerto Parker, Costa Rica to Honda Bay, Panama (GARTH, 1961).
244. *Hexapanopeus nicaraguensis* (RATHBUN, 1904)
From El Salvador to Puriche, Colombia (Von PRAHL & FROIDEFOND, 1985).
245. *Hexapanopeus orcutti* RATHBUN, 1930
From Peñasco Point, Sonora, east coast of the Gulf of California, Mexico, to Golfito, Costa Rica (GARTH, 1961; VOGEL, 1966).
246. *Hexapanopeus rubicundus* RATHBUN, 1933
Ojo de Liebre (Scammon) Lagoon and San Quintin Bay, Baja California, and Gulf of California, from San Felipe to La Paz, Mexico (GARTH, 1960a).
247. *Hexapanopeus sinaloensis* RATHBUN, 1930
From Santa Maria Bay, west coast of Baja California, and Teacapan, southeastern Gulf of California, Mexico, to Malaga Bay, Colombia (GARTH, 1948, 1961).
248. *Homalaspis plana* (H. MILNE EDWARDS, 1834)
Guayaquil, Ecuador, to Strait of Magellan; Juan Fernandez Islands (GARTH, 1957).
249. *Kraussia americana* GARTH, 1939
Puerto Refugio, Gulf of California, Mexico, to Secas Islands, Panama; Galapagos Islands (GARTH, 1939, 1946a).
250. *Liomera cinctimana* (WHITE, 1847)
Puerto Escondido and Teacapan, Gulf of California, Mexico, to Gorgona Island, Colombia; Coco, Clipperton, Clarion Malpelo and Galapagos Islands (GARTH, 1946a, 1960a; BIRKELAND *et al.*, 1975).
I-PAC
251. *Lipaesthesius leeanus* RATHBUN, 1898
La Paz, San Jose, Tiburon and Tres Marias Islands, Gulf of California, Mexico, to Colombia; Galapagos Islands (GARTH, 1946a, 1960a; Von PRAHL & FROIDEFOND, 1985).
252. *Lophopanopeus frontalis* (RATHBUN, 1893)
From the area of Los Angeles, south to San Diego, USA, and from the northern Gulf of California to Tobolobampo and La Paz, Mexico (RATHBUN, 1930; GARTH, 1960a; HENDRICKX, unpubl. data).
253. *Lophopanopeus maculatus* RATHBUN, 1898
La Paz and San Lucas Cape, Baja California, Mexico, to Salinas, Ecuador, and Colombia; Revillagigedo and Galapagos Islands (GARTH, 1946a, 1992a; Von PRAHL & FROIDEFOND, 1985).

254. *Lophoxanthus lamellipes* (STIMPSON, 1860)
From San Marcos and Tres Marias Islands, Gulf of California, Mexico, to Salinas, Ecuador; Revillagigedo and Galapagos Islands (VILLALOBOS-HIRIART *et al.*, 1989; GARTH, 1992a).
255. *Maldivia galapagensis* GARTH, 1939
Pacific coast of Costa Rica; Galapagos Islands (GARTH, 1946a; MORAN & DITTEL, 1993).
256. *Medaeus* (*sensu* RATHBUN, 1930) *pelagius* (GLASSELL, 1936)
From Magdalena Bay, west coast of Baja California, and throughout the Gulf of California, Mexico, south to Gorgona Island, Colombia (GARTH, 1960a; Von PRAHL & FROIDEFOND, 1985).
257. *Medaeus* (*sensu* RATHBUN, 1930) *spinulifer* (RATHBUN, 1898)
From Los Frailes and Piaxtla Point, Gulf of California, Mexico, to Utria Bay, Colombia; Clarion, Galapagos and Malpelo Islands (BIRKELAND *et al.*, 1975; HENDRICKX & VAN DER HEIDEN, 1983a).
258. *Menippe frontalis* A. MILNE EDWARDS, 1879
From Piaxtla Point, SE Gulf of California, Mexico, to Paita, Peru (PAUL *et al.*, 1981).
259. *Menippe obtusa* STIMPSON, 1859
From Corinto, Nicaragua, to Los Negritos, Colombia; Malpelo and Galapagos Islands (BIRKELAND *et al.*, 1975; Von PRAHL & FROIDEFOND, 1985).
260. *Metopocarcinus concavatus* CRANE, 1947
El Salvador and Costa Rica (HOLTHUIS, 1954; MORAN & DITTEL, 1993).
261. *Metopocarcinus truncatus* STIMPSON, 1860
From San Lucas Cape and Piaxtla Point, southern Gulf of California, Mexico, to San Miguel, El Salvador, and Valparaiso, Chile (GARTH, 1957; HENDRICKX, 1993a).
262. *Micropanope armstrongi* (GARTH, 1948)
From Santa Maria Bay, west coast of Baja California, Mexico, to La Plata, Ecuador (GARTH, 1948, 1960a).
263. *Micropanope ashcrafti* GARTH, 1986
Medidor Island, Panama (GARTH, 1986).
264. *Micropanope cristimanus* STIMPSON, 1871
From San Lucas Cape and Mazatlan, southern Gulf of California, to Manzanillo, Colima, Mexico (HENDRICKX, 1993a).
265. *Micropanope lata* (FAXON, 1893)
San Jaime Bank, west coast of Baja California, San Pedro Nolasco Island, Gulf of California, Mexico, and Bay of Panama; Revillagigedo Islands (GARTH, 1960a).
266. *Micropanope latimanus* STIMPSON, 1871
From San Diego, California, USA, to San Lucas Cape, Baja California, Mexico (RATHBUN, 1930).
267. *Micropanope manteri* GARTH, 1986
Galapagos Islands (GARTH, 1986).
268. *Micropanope taylori* GARTH, 1986
Secas Islands, Panama, and Gorgona Island, Colombia; Galapagos Islands (GARTH, 1986).
269. *Microcassiope xantusii* (STIMPSON, 1871)
From Partida and Isabel Islands, southern Gulf of California, Mexico, to La Plata Island, Ecuador; Revillagigedo, Clipperton and Galapagos Islands (GARTH, 1960a, 1961, 1992a).
270. *Nanocassiope polita* (RATHBUN, 1893)
From Cedros Islands, west coast of Baja California, Angel de la Guarda Island, and Estero Tastiota, Gulf of California, Mexico, to Colombia; Revillagigedo, Coco and Galapagos Islands (HENDRICKX, 1990a; LEMAITRE & ALVAREZ LEON, 1992).
271. *Neopanope peterseni* GLASSELL, 1933
Puerto San Carlos, Sonora, and Los Angeles Bay, Baja California, Gulf of California, Mexico (GARTH, 1960a).
272. *Ozius perlatus* STIMPSON, 1860
From Cabeza Ballena, Baja California, and Mazatlan, southern Gulf of California, Mexico, to Santa Elena Island, Ecuador; Revillagigedo, Malpelo and Galapagos Islands (GARTH, 1960a, 1992a; BIRKELAND *et al.*, 1975; HENDRICKX, 1993a).
273. *Ozius verreauxii* de SAUSSURE, 1853
From Magdalena Bay, west coast of Baja California, and Piaxtla Point, SE Gulf of California, Mexico, to Ecuador (unknown locality); Galapagos Islands (RATHBUN, 1930; GARTH, 1960a).
274. *Panopeus chilensis* H. MILNE EDWARDS & LUCAS, 1844
From Guaymas, Sonora, Gulf of California, Mexico, to Paita, Peru, and to Chile (unknown locality) (RATHBUN, 1930; GARTH, 1960a).
275. *Panopeus diversus* RATHBUN, 1933
San Felipe and Cholla Bay, Gulf of California, Mexico (GARTH in litt.).
276. *Panopeus mirafloresensis* ABELE & KIM, 1989
From Pabellon costal lagoon, Gulf of California, Mexico, to Miraflores Locks, Panama (SALGADO-BARRAGAN & HENDRICKX, 1995).
277. *Panopeus purpureus* LOCKINGTON, 1877
From Cedros Island, west coast of Baja California, San Felipe, Baja California, and Guaymas, Sonora, Mexico, to Tumbes, Peru (RATHBUN, 1930; GARTH, 1960a).
278. *Panopeus rugosus* A. MILNE EDWARDS, 1880
Panama Canal (Pacific side) (ABELE & KIM, 1989).
W-ATL
279. *Paractaea sulcata* (STIMPSON, 1860)
From Espiritu Santo and Tiburon Islands, Gulf of California, Mexico, to La Plata Island, Ecuador; Revillagigedo, Clipperton and Galapagos Islands (GARTH, 1948, 1960a).
280. *Paraxanthias insculptus* (STIMPSON, 1871)
San Lucas Cape, Baja California, and Tres Marias Islands, Nayarit, Mexico; Galapagos Islands (GARTH, 1946a; HERNANDEZ-AGUILERA *et al.*, 1986).

281. *Paraxanthias taylora* (STIMPSON, 1861)
From Monterey Bay, California, USA, to Zihuatanejo, Guerrero, Mexico (GARTH & ABBOTT, 1980; SALCEDO-MARTINEZ *et al.*, 1988).
282. *Pilumnoides perlatus* (POEPPIG, 1836)
Taboga Island, Panama (? extralimital) to Strait of Magellan (GUINOT & MACPHERSON, 1987).
283. *Pilumnoides rotundus* GARTH, 1940
Area of Cedros Island, west coast of Baja California, and Gulf of California north of San Miguel Cape, Baja California, and Tiburon Island, Sonora, Mexico, to Mancora Bank, Peru; Ecuador (?) (GARTH, 1940, in litt.; GUINOT & MACPHERSON, 1987; HENDRICKX, unpubl. data).
284. *Pilumnus depressus* STIMPSON, 1871
Known only from San Lucas Cape, Baja California, Mexico (RATHBUN, 1930; GARTH, in litt.).
285. *Pilumnus fernandezi* GARTH, 1973
Costa Rica to Punta Sal, Peru. (MORAN & DITTEL, 1993).
286. *Pilumnus gonzalensis* RATHBUN, 1893
From San Luis Gonzalez Bay (= Bahía Gonzaga), Baja California, and from Tepoca Bay, Sonora, throughout the Gulf of California, Mexico, and south to Costa Rica (RATHBUN, 1930; GARTH in litt.).
287. *Pilumnus limosus* SMITH, 1869
From Gonzaga Bay, Baja California, and along the east coast of the Gulf of California, Mexico, south to Zorritos (Paita), Peru (RATHBUN, 1930; GARTH, 1961; BRUSCA, 1980).
288. *Pilumnus nobilii* GARTH, 1948
From Malaga Bay, Colombia, to Santa Elena Bay, Ecuador (Von PRAHL & FROIDEFOND, 1985).
289. *Pilumnus palmeri* GARTH, 1986
Cape San Francisco, Ecuador (GARTH, 1986).
290. *Pilumnus pygmaeus* BOONE, 1927
From Santa Maria Bay, west coast of Baja California, San Marcos Island and Mazatlan, Gulf of California, Mexico, to Utria Port and Malpelo Island, Colombia; Galapagos Islands (GARTH, 1960a; HENDRICKX & VAN DER HEIDEN, 1983).
291. *Pilumnus reticulatus* STIMPSON, 1860
From Mazatlan, SE Gulf of California, Mexico, to the Gulf of Panama (ABELE & KIM, 1989; HENDRICKX, 1993a). W-ATL
292. *Pilumnus stimpsonii* MIERS, 1886
San Lucas Cape, Baja California, Mexico (MIERS, 1886).
293. *Pilumnus spinohirsutus* (LOCKINGTON, 1877)
From San Pedro, California, along the Baja California Peninsula to Magdalena Bay, and San Miguel Cape, Gulf of California, Mexico (RATHBUN, 1930; GARTH & ABBOTT, 1980; HENDRICKX, unpubl. data).
294. *Pilumnus tectus* RATHBUN, 1933
San Felipe, Gulf of California, Mexico (GARTH, in litt.).
295. *Pilumnus townsendi* RATHBUN, 1923
From San Luis Gonzalez Bay (= Bahía Gonsaga), Baja California, and Cholla Bay, Sonora, Mexico, to Malaga Bay, Colombia (RATHBUN, 1930; Von PRAHL & FROIDEFOND, 1985).
296. *Platyactaea dovii* (STIMPSON, 1871)
Known from Coronado and San Francisco Islands, Gulf of California, Mexico, and along Central America south to Humboldt Bay, Colombia; Clipperton and Galapagos Islands (GARTH, 1948; VILLALOBOS-HIRIART *et al.*, 1989).
297. *Platypodiella gemmata* (RATHBUN, 1902)
Taboga Island, Panama; Galapagos Islands (GARTH, 1946a).
298. *Platypodiella rotundata* (STIMPSON, 1860)
From Santa Maria Bay, west coast of Baja California, Salsipuedes Island, Baja California, and Guaymas, Sonora, Gulf of California, Mexico, south to Santa Elena Point, Ecuador; Revillagigedo and Clipperton Islands;? Galapagos Islands (GARTH, 1946a, 1960a; VILLALOBOS-HIRIART *et al.*, 1989).
299. *Quadrella nitida* SMITH, 1869
From Carmen Island, Baja California, and Tiburon Island, Sonora, Mexico, to Perlas Islands, Panama; Malpelo and Galapagos Islands (BIRKELAND *et al.*, 1975; HENDRICKX & VAN DER HEIDEN, 1983b; HENDRICKX, unpubl. data).
300. *Tetraxanthus* aff. *rathbunae* CHACE, 1940
Galapagos Islands (GARTH, 1946a).
301. *Trapezia corallina* GERSTAECKER, 1856
From Chiriqui Gulf, Panama, to Gorgona Island, Colombia; Galapagos Islands (CASTRO, 1982).
302. *Trapezia digitalis* LATREILLE, 1825
From Espiritu Santo and Isabel Islands, Southern Gulf of California, Mexico, to La Plata Island, Ecuador; Revillagigedo, Clipperton and Galapagos Islands (GARTH, 1948, 1960a, 1992a). I-PAC
303. *Trapezia ferruginea* LATREILLE, 1825
From Santa Catalina and Isabel Islands, southern Gulf of California, Mexico, to La Plata Island, Ecuador; Revillagigedo, Coco, Clipperton, Malpelo and Galapagos Islands (GARTH, 1948; VILLALOBOS-HIRIART *et al.*, 1989). I-PAC
304. *Trapezia formosa* SMITH, 1869
From Panama to Gorgona Island, Colombia; Galapagos Islands (CASTRO, 1982).
305. *Xanthodius cooksoni* (MIERS, 1877)
From the SE tip of Baja California Peninsula to Puerto Escondido, on the west coast of the Gulf of California, Mexico, and in the Bay of Panama; Galapagos and Clarion Islands (BOONE, 1929; GARTH, 1960a, 1992a).
306. *Xanthodius* (*sensu* RATHBUN, 1930) *stimpsoni* (A. MILNE EDWARDS, 1879)
Isla Tortuga and Topolobampo, Gulf of California, Mexico, to Salinas, Ecuador; Tres Marias Island (VILLALOBOS-HIRIART *et al.*, 1989; HENDRICKX, unpubl. data).

307. *Xanthodius sternberghii* STIMPSON, 1859
From Magdalena Bay, west coast of Baja California, and throughout the Gulf of California, Mexico, to Paita, Peru (RATHBUN, 1930; GARTH, 1960a).

GONEPLACIDAE MCLEAY, 1838

308. *Acidops fimbriatus* STIMPSON, 1871
San Lucas Cape and Tres Marias Islands, Mexico;? Ecuador; Galapagos Islands (GARTH, 1946a; HERNANDEZ-AGUILERA *et al.*, 1986).
309. *Chasmocarcinus latipes* RATHBUN, 1898
From Cedros Island, west coast of Baja California, and throughout the Gulf of California, Mexico, south to Esmeraldas, Ecuador (CRANE, 1937b; GARTH, 1948, 1961).
310. *Chasmocarcinus longipes* GARTH, 1940
Panama to Ecuador (LEMAITRE & ALVAREZ LEON, 1992).
311. *Chasmophora macrophthalma* (RATHBUN, 1898)
From Tosca Point, west coast of Baja California, and Santa Maria Bay, Gulf of California, Mexico, south to the Bay of Panama (GARTH, 1960a, 1961; HENDRICKX, unpubl. data).
312. *Cyrtoplax panamensis* ZIESENHENNE, 1940
Northern Gulf of California, Mexico, to Utria Port, Colombia (GARTH, 1940).
313. *Cyrtoplax schmitti* RATHBUN, 1935
From Topolobampo, Gulf of California, Mexico, to Salinas, Ecuador (HENDRICKX, unpubl. data).
314. *Euryplax polita* SMITH, 1870
From off Estero Tastiota, Sonora, Gulf of California, Mexico, south to the Bay of Panama and probably to Tumbes, Peru; Revillagidedo Islands (GARTH, 1960a, 1961, 1992a; del SOLAR, 1970).
315. *Malacoplax californiensis* (LOCKINGTON, 1877)
Morro Bay, California, and throughout the Gulf of California, Mexico, south to Golfo Dulce, Costa Rica (GARTH, 1960a, 1961; HENDRICKX, 1984b; HUBBARD & DUGAN, 1989).
316. *Pseudorhombila xanthiformis* GARTH, 1940
From Fuerte River, Gulf of California, Mexico, south to Gorgona Island, Colombia (HENDRICKX, 1993c).
317. *Odontoplax chacei* GARTH, 1966
La Union, El Salvador, to Caleta La Cruz, Peru (GARTH, 1966).
318. *Oediplax granulata* RATHBUN, 1893
Northern Gulf of California and along the eastern coast of Mexico to Tumbes, Peru (RATHBUN, 1893; GARTH, 1960a; del SOLAR, 1970).
319. *Panoplax mundata* GLASSELL, 1935
Northern and Southwestern Gulf of California, Mexico (GLASSELL, 1935b; GARTH, 1960a; HENDRICKX, unpubl. data).
320. *Prionoplax ciliata* SMITH, 1870
From Tosca Point, west coast of Baja California, and from an unknown locality in the Gulf of Cali-

fornia, Mexico, to Sechura Bay, Peru (RATHBUN, 1910; GARTH, 1961; GARTH in litt.).

321. *Speocarcinus granulimanus* RATHBUN, 1893
From Cedros Island, west coast of Baja California, in the northern and along the eastern coast of the Gulf of California, Mexico, south to Golfito, Costa Rica (RATHBUN, 1910; GARTH, 1960a, 1961).
322. *Speocarcinus spinicarpus* GUINOT, 1969
Northern Gulf of California, south to Willard Point (29°46'N), Baja California, and to Tepoca Cape, Sonora (HENDRICKX, unpubl. data).
323. *Trizocarcinus dentatus* (RATHBUN, 1893)
Throughout the Gulf of California, Mexico, and south to Tumbes, Peru (del SOLAR, 1970; HENDRICKX, 1990a).
324. *Trizocarcinus peruvianus* GARTH, 1973
Paita, Peru (WICKSTEN, 1989).

HEXAPODIDAE MIERS, 1886

325. *Hexapus williamsi* GLASSELL, 1938
San Jose, Guatemala (GLASSELL, 1938).

GECARCINIDAE MCLEAY, 1838

326. *Cardisoma crassum* SMITH, 1870
Todos Santos (23°28'N - 110°15'W), west coast of Baja California, Agua Verde Bay and Guaymas, Gulf of California, Mexico, to China River, Peru (RATHBUN, 1923; MANRIQUE, 1981; BRIGHT & HOGUE, 1972).
327. *Gecarcinus malpilensis* FAXON, 1893
Malpelo Island (Von PRAHL & MANJARREZ, 1984).
328. *Gecarcinus planatus* STIMPSON, 1860
From Bacochoibampo, Sonora, Mexico, to Gorgona Island, Colombia; Revillagidedo and Clipperton Islands (MANRIQUE, 1981; Von PRAHL, 1983; GARTH, 1992a).
329. *Gecarcinus quadratus* de SAUSSURE, 1853
Eastern coast of Gulf of California, Mexico, south to Santa Elena Bay, Ecuador (GARTH, 1948; BRUSCA, 1980).

GRAPSIDAE MCLEAY, 1838

330. *Aratus pisoni* (H. MILNE EDWARDS, 1837)
From Magdalena Bay, west coast of Baja California, and the Altata coastal lagoon, SW Gulf of California, Mexico, south to Capon, Peru; Chacabuco, Chile (?) (GARTH, 1957; HENDRICKX, 1984a; SALGADO-BARRAGAN, 1993). W-ATL
331. *Armases angustum* (SMITH, 1870)
From Tenacatita Bay, Jalisco, Mexico, to Ecuador; Coco Island (ABELE, 1992).
332. *Armases magdalenense* (RATHBUN, 1918)
Known from Magdalena Bay, west coast of Baja

- California, and from Altata coastal lagoon, south to Agua Brava, Gulf of California, Mexico (HENDRICKX & SALGADO-BARRAGAN, 1992).
333. *Cyclograpsus cinereus* DANA, 1851
Panama (extralimital) to Calbuco, Chile (GARTH, 1957).
334. *Cyclograpsus escondidensis* RATHBUN, 1933
Central Gulf of California, Mexico (BRUSCA, 1980).
335. *Euchirograpsus americanus* A. MILNE EDWARDS, 1880
Galapagos Islands (GARTH, 1946a).
336. *Geograpsus lividus* (H. MILNE EDWARDS, 1837)
From San Francisquito Island and Kino Bay, Gulf of California, Mexico, south to Caleta Coloso, Chile; Revillagigedo, Clipperton and Galapagos Islands (GARTH, 1957, 1960a; BRUSCA, 1980). **ATL, HAWAII**
337. *Glyptograpsus impressus* SMITH, 1870
From Acapulco, Mexico, to Colombia (LEMAITRE & ALVAREZ LEON, 1992).
338. *Goetice americanus* RATHBUN, 1923
From Tortola Bay, west coast of Baja California, and in the Gulf of California, north of Guaymas, Mexico (RATHBUN, 1923; BRUSCA, 1980).
339. *Goniopsis cruentata* (LATREILLE, 1802)
Miraflores Locks, Panama (ABELE & KIM, 1989). **W-ATL**
340. *Goniopsis pulchra* LOCKINGTON, 1877
From Santa Maria Bay, west coast of Baja California, Santa Rosalia and Kino Bay, Gulf of California, Mexico, south to Capon, Peru (BRUSCA, 1980; HENDRICKX, 1984b).
341. *Grapsus grapsus* (LINNAEUS, 1758)
From Cedros Island, west coast of Baja California, and throughout the Gulf of California, Mexico, south to Talcahuano Bay, Chile; Alijos Rocks, Revillagigedo, Galapagos, Clipperton, Malpelo and Juan Fernandez Islands (GARTH, 1957, 1960a, 1992a; WICKSTEN, 1995). **ATL**
342. *Hemigrapsus nudus* (DANA, 1851)
From Yakobi Islands, Alaska, to Tortuga Bay, Baja California, Mexico (GARTH & ABBOTT, 1980). A single record at Los Angeles Bay, Gulf of California (LUKE, 1977).
343. *Hemigrapsus oregonensis* (DANA, 1851)
From Resurrection Bay, Alaska, to Todos Santos Bay, Baja California, Mexico (GARTH & ABBOTT, 1980). A single record at San Felipe, northern Gulf of California (LUKE, 1977).
344. *Pachygrapsus crassipes* RANDALL, 1839
From Oregon, USA, south to Magdalena Bay, west coast of Baja California, and in the Gulf of California, north of Santa Ines Bay and Guaymas, Mexico; Alijos Rocks (RATHBUN, 1918; BRUSCA, 1980; WICKSTEN, 1995).
345. *Pachygrapsus minutus* A. MILNE EDWARDS, 1873
Clarion and Revillagigedo Islands (GARTH, 1992a). **I-PAC**
346. *Pachygrapsus planifrons* de MAN, 1888
Clipperton Island (GARTH, 1965). **IP**
347. *Pachygrapsus transversus* (GIBBES, 1850)
From California (unknown locality), USA, and Cedros Island, west coast of Baja California, Agua Verde Bay and Topolobampo, Gulf of California, Mexico, south to San Lorenzo Island, Peru; Revillagigedo and Galapagos Islands (RATHBUN, 1918; GARTH, 1960a). **ATL+MED**
348. *Percnon abbreviatum* (DANA, 1851)
Clarion and Clipperton Island (GARTH, 1965; HERNANDEZ-AGUILERA & MARTINEZ-GUZMAN, 1992). **I-PAC**
349. *Percnon gibbesi* (H. MILNE EDWARDS, 1853)
San Lucas Cape, Mazatlan and Tres Marias Islands, SW Gulf of California, Mexico, and La Plata, Ecuador; Revillagigedo, Clipperton and Galapagos Islands (GARTH, 1965, 1992a; HERNANDEZ-AGUILERA & MARTINEZ-GUZMAN, 1992; HENDRICKX, 1993a). **ATL**
350. *Percnon planissimum* HERBST, 1804
Revillagigedo Islands (GARTH, 1992a). **I-PAC**
351. *Plagusia depressa tuberculata* LAMARCK, 1818
San Lucas Cape and Piaxtla Point, Gulf of California, to Acapulco, Mexico; Clipperton Island and Alijos Rocks (GARTH, 1965; HENDRICKX, 1993a; WICKSTEN, 1995). **I-PAC**
352. *Plagusia immaculata* LAMARCK, 1818
From Southern Sinaloa, Gulf of California, Mexico, south to Santa Elena Bay; Coco and Galapagos Islands (GARTH, 1946a, 1948; Von PRAHL & SANCHEZ, 1985; HENDRICKX, 1993a). **I-PAC**
353. *Plagusia speciosa* DANA, 1851
Clipperton Island (GARTH, 1965). **PAC**
354. *Planes cyaneus* DANA, 1852
From California, USA, Santa Ines Bay and Estero El Verde, Gulf of California, Mexico, to Paita, Peru; Magellan Strait; Clarion and Galapagos Islands (as *P. minutus*) (GARTH, 1946a, 1957; MANNING & HOLTHUIS, 1981; HERNANDEZ-AGUILERA & MARTINEZ-GUZMAN, 1992). **I-PAC**
355. *Sesarma aequatoriale* ORTMANN, 1894
From Acapulco, Mexico, to Esmeraldas, Ecuador (ABELE, 1992).
356. *Sesarma occidentale* SMITH, 1870
El Salvador to Ecuador (ABELE & KIM, 1989).
357. *Sesarma rhizophorae* RATHBUN, 1906
From Estero El Verde, Gulf of California, Mexico, to Puerto Pizarro, Peru (HENDRICKX, 1984b; ABELE, 1992).
358. *Sesarma rubinofforum* ABELE, 1973
Costa Rica and Panama (ABELE, 1992).
359. *Sesarma sulcatum* SMITH, 1870
From San Ignacio Lagoon, west coast of Baja California, Concepcion Bay and Puerto Lobos, Gulf of California, Mexico, south to Utria Port, Colombia (BRUSCA, 1980; HENDRICKX, 1984b; ABELE, 1992).

360. *Tetragrapsus jouyi* (RATHBUN, 1893)
Gulf of California, Mexico, except south of Mazatlan (VOGEL, 1966; BRUSCA, 1980).
- PINNOTHERIDAE de HAAN, 1833
361. *Alarconia seaholmi* GLASSELL, 1938
Acapulco, Mexico (GLASSELL, 1938).
362. *Calyptraeotheres granti* (GLASSELL, 1933)
Magdalena Bay, Baja California and San Felipe and Bay of Mazatlan, in the Gulf of California, Mexico (GLASSELL, 1938; HENDRICKX *et al.*, 1982; CAMPOS-GONZALEZ, 1990).
363. *Clypeasterophilus ususfructus* (GRIFFITH, 1987)
From San Miguel Cape, and off Fuerte River, Gulf of California, Mexico to Santa Elena Bay, Ecuador (CAMPOS & GRIFFITH, 1990; HENDRICKX, 1990d).
364. *Dissodactylus glasselli* RIOJA, 1944
Chiapas, Mexico, to Puerto El Triunfo, El Salvador (GRIFFITH, 1987).
365. *Dissodactylus lockingtoni* GLASSELL, 1935
Known only from San Felipe and Puerto Peñasco, northern Gulf of California, Mexico (GRIFFITH, 1987; CAMPOS *et al.*, 1992).
366. *Dissodactylus nitidus* SMITH, 1870
Abreojos Point, Baja California, Concepcion Bay and Puerto Peñasco, Gulf of California, Mexico, to Sechura Bay, Peru (GRIFFITH, 1987).
367. *Dissodactylus schmitti* GRIFFITH, 1987
White Friars (17031'N), Mexico (GRIFFITH, 1987).
368. *Dissodactylus xantusi* GLASSELL, 1936
San Felipe and Puerto Peñasco, northern Gulf of California, Mexico, to Venado Beach, Panama (GRIFFITH, 1987).
369. *Juxtafabia muliniarum* (RATHBUN, 1918)
Known only from San Jose Island and Pichilingue, Baja California, Gulf of California, Mexico (GREEN, 1985; CAMPOS-GONZALEZ, 1989b; CAMPOS, 1993).
370. *Opisthopus transversus* RATHBUN, 1893
Monterey Bay, California, USA, to San Ignacio Lagoon, west coast of Baja California, and San Felipe, northern Gulf of California, Mexico (CAMPOS *et al.*, 1992; BONFIL *et al.*, 1992).
371. *Orthotheres unguifalcula* (GLASSELL, 1936)
Puerto Peñasco, Sonora, Gulf of California, Mexico (CAMPOS-GONZALEZ, 1989a).
372. *Parapinnixa glasselli* GARTH, 1939
Galapagos Islands (GARTH, 1939).
373. *Parapinnixa nitida* (LOCKINGTON, 1877)
Known from Magdalena Bay, West coast of Baja California, from San Felipe to La Paz, and from San Carlos Bay, and Gulf of California, Mexico (SCHMITT *et al.*, 1973).
374. *Pinnaxodes chilensis* (H. MILNE EDWARDS, 1837)
Ecuador (locality unknown) to Puerto Barroso, Tierra de Fuego, Chile; Galapagos and Chiloe Islands (GARTH, 1946a; 1957).
375. *Pinnaxodes gigas* GREEN, 1992
Morro Colorado (Estero Tastiota), Sonora, Mexico (GREEN, 1992).
376. *Pinnixa abbotti* GLASSELL, 1935
San Felipe, Gulf of California, Mexico (GLASSELL, 1935a).
377. *Pinnixa affinis* RATHBUN, 1898
Known from the Bay of Mazatlan and an unknown locality, Gulf of California, Mexico, to the Bay of Panama (SCHMITT *et al.*, 1973; HENDRICKX, unpubl. data).
378. *Pinnixa barnharti* RATHBUN, 1918
From Puget Sound to California, USA and reported at Zihuatanejo, Guerrero, Mexico (SCHMITT *et al.*, 1973).
P. costaricana; see "note added in proof".
379. *Pinnixa darwini* GARTH, 1960a
Galapagos Islands (GARTH, 1960ab).
380. *Pinnixa felipensis* GLASSELL, 1935
San Felipe, Gulf of California, Mexico (GLASSELL, 1935a).
381. *Pinnixa fusca* GLASSELL, 1935
San Felipe, Gulf of California, Mexico (GLASSELL, 1935a).
382. *Pinnixa huffmanii* GLASSELL, 1935
Puerto Peñasco and Las Casitas, Sonora, Mexico (GLASSELL, 1935b; RODRIGUEZ DE LA CRUZ, 1987).
383. *Pinnixa occidentalis* RATHBUN, 1893
Unimak Island, Alaska, USA, to Magdalena Bay, Baja California, and Gulf of California (unknown locality), Mexico (ZMARZLY, 1992).
384. *Pinnixa pembedtoni* GLASSELL, 1935
San Felipe and Bay of Mazatlan, Gulf of California, Mexico (GLASSELL, 1935b; HENDRICKX, unpubl. data).
385. *Pinnixa petersi* BOTT, 1955
El Salvador (SCHMITT *et al.*, 1973).
386. *Pinnixa plectrophoros* GLASSELL, 1935
Peñasco Point and Las Casitas, Sonora, Mexico (GLASSELL, 1935b; RODRIGUEZ DE LA CRUZ, 1987).
387. *Pinnixa richardsoni* GLASSELL, 1936
Balboa, Panama to Colombia (WICKSTEN, 1982; LEMAITRE & ALVAREZ LEON, 1992).
388. *Pinnixa cf. schmitti* RATHBUN, 1918
Port Levasheff, Unalaska, to Morro Bay, California, USA, and Bay of Mazatlan, Sinaloa, Mexico (SCHMITT *et al.*, 1973; HENDRICKX, 1994).
389. *Pinnixa tomentosa* LOCKINGTON, 1877
Monterey to San Clemente Island, California, USA, San Felipe and Los Angeles Bay, Gulf of California, Mexico (SCHMITT *et al.*, 1973; ZMARZLY, 1992).
390. *Pinnixa transversalis* (H. MILNE EDWARDS & LUCAS, 1844)
San Felipe, Consag Rocks and Rocosa Point, Gulf of California, Mexico, to Coquimbo (?), Chile; Galapagos Islands (SCHMITT *et al.*, 1973; HENDRICKX, unpubl. data).

391. *Pinnixa valerii* RATHBUN, 1931
Cajeme, Sonora, Gulf of California, Mexico, to San Lucas Island, Costa Rica and to Colombia (CAMPOS-GONZALEZ & CAMPOY-FAVELA, 1987; LEMAITRE & ALVAREZ LEON, 1992).
392. *Pinnotheres angelicus* LOCKINGTON, 1877
San Felipe, Los Angeles Bay and San Jose Island, Gulf of California, Mexico, to Colombia (SCHMITT *et al.*, 1973; LEMAITRE & ALVAREZ LEON, 1992).
393. *Pinnotheres clavapedatus* GLASSELL, 1935
Magdalena Bay, west coast of Baja California, and San Felipe, northern Gulf of California, Mexico (GLASSELL, 1935b).
394. *Pinnotheres lithodomi* SMITH, 1870
Magdalena Bay, west coast of Baja California, Mexico, and Perlas Islands, Panama (SCHMITT *et al.*, 1973).
395. *Pinnotheres malaguena* GARTH, 1948
Malaga Bay, Colombia (GARTH, 1948).
396. *Pinnotheres orcutti* RATHBUN, 1918
Consag Rocks, Gulf of California, south to Manzanillo, Colima, Mexico (GLASSELL, 1938, HENDRICKX, unpubl. data).
397. *Pinnotheres pichilinguei* RATHBUN, 1923
Pichilingue, La Paz Bay, Gulf of California, Mexico (RATHBUN, 1923).
398. *?Pinnotheres trapeziformis* (NAUCK, 1880)
Doubtfully from Mazatlan, Mexico (SCHMITT *et al.*, 1973).
399. *Scleroplax granulata* RATHBUN, 1893
From Gabriola and Vancouver Islands, British Columbia, Canada, to Ensenada, Baja California, and in Estero El Verde, Gulf of California, Mexico (HENDRICKX, 1984b).
400. *Tetrias scabripes* RATHBUN, 1918
Cerralvo Channel, San Miguel Cape, Santa Barbara and Mita Point, Gulf of California, Mexico (RODRIGUEZ DE LA CRUZ, 1987; HENDRICKX, unpubl. data).
401. *Tumidotheres margarita* (SMITH, 1869)
Bahia del Rosario, Baja California, Laguna Percebu and Kino Bay, Gulf of California, Mexico, to Panama Bay (CAMPOS-GONZALEZ, 1989b).
- OCYPODIDAE RAFINESQUE, 1814
402. *Ocypode ceratophthalma* (PALLAS, 1772)
Clipperton Island (GARTH, 1965). I-PAC
403. *Ocypode gaudichaudii* (H. MILNE EDWARDS & LUCAS, 1843)
From the Gulf of Fonseca, El Salvador to Chile; Galapagos Islands (GARTH, 1946a).
404. *Ocypode occidentalis* STIMPSON, 1860
Todos Santos Bay, west coast of Baja California, Mexico, to Iquique, Chile, including the Gulf of California (GARTH, 1960a; BRUSCA, 1980).
405. *Uca argillicola* CRANE, 1941
From Gulf of Dulce, Costa Rica, to Buenaventura, Colombia (CRANE, 1975).
406. *Uca batuenta* CRANE, 1941
From El Triunfo, El Salvador, to Puerto Pizarro, Peru (CRANE, 1975).
407. *Uca beebei* CRANE, 1941
From El Triunfo, El Salvador, to northern Peru (CRANE, 1975).
408. *Uca brevifrons* STIMPSON, 1860
San Jose del Cabo and La Paz Bay, Baja California, and Acapulco, Mexico, south to Colombia (CRANE, 1975; LEMAITRE & ALVAREZ LEON, 1992).
409. *Uca crenulata coloradensis* (RATHBUN, 1893)
Guaymas and Colorado River delta, northern end of the Gulf of California, Mexico (CRANE, 1975).
410. *Uca crenulata crenulata* LOCKINGTON, 1877
Goleta Slough, Santa Barbara, California, USA, to Tenacatita Bay, Jalisco, including the entire Gulf of California, Mexico (HENDRICKX, 1984b; HUBBARD & DUGAN, 1989).
411. *Uca deichmanni* RATHBUN, 1935
From Puerto Parker, Costa Rica, to Colombia (CRANE, 1975; LEMAITRE & ALVAREZ LEON, 1992).
412. *Uca dorotheae* Von HAGEN, 1968
From the Canal Zone, Panama to Puerto Pizarro, Peru (CRANE, 1975).
413. *Uca festae* NOBILI, 1902
From El Salvador to Guayaquil, Ecuador (CRANE, 1975).
414. *Uca galapagensis galapagensis* RATHBUN, 1902
From Tumaco, Colombia to Puerto Pizarro, Peru; Galapagos Islands (CRANE, 1975).
415. *Uca galapagensis herraduraensis* BOTT, 1954
From La Herradura, El Salvador, to Panama;? Mexico (CRANE, 1975).
416. *Uca helleri* RATHBUN, 1902
Galapagos Islands (RATHBUN, 1902).
417. *Uca heteropleura* (SMITH, 1870)
From El Triunfo, El Salvador, to Puerto Pizarro, Peru (CRANE, 1975).
418. *Uca inaequalis* RATHBUN, 1935
From El Triunfo, El Salvador to Puerto Pizarro, Peru (CRANE, 1975).
419. *Uca intermedia* Von PRAHL & TORO, 1985
Buenaventura Bay, Colombia (Von PRAHL & TORO, 1985).
420. *Uca latimanus* (RATHBUN, 1893)
From Tortugas Bay, west coast of Baja California, and throughout the Gulf of California, Mexico, south to Puerto Bolivar, Ecuador (CRANE, 1975; HENDRICKX, 1984b).
421. *Uca leptochela* BOTT, 1954
El Triunfo, El Salvador; Galapagos Islands (CRANE, 1975).
422. *Uca limicola* CRANE, 1941
From La Union Bay, El Salvador, to Panama City, Panama (HOLTHUIS, 1954; CRANE, 1975).
423. *Uca maracoani insignis* (H. MILNE EDWARDS, 1852)
Gulf of Fonseca, El Salvador, to Puerto Pizarro,

- Peru; Chile? (CRANE, 1975).
424. *Uca musica musica* RATHBUN, 1914
From Santa Maria Bay, west coast of Baja California, and throughout the Gulf of California, Mexico (CRANE, 1975).
425. *Uca musica terpsichores* CRANE, 1941
From Corinto, Nicaragua, and perhaps La Union, El Salvador, to Puerto Pizarro, Peru (CRANE, 1975).
426. *Uca oerstedii* RATHBUN, 1904
From the Gulf of Fonseca, El Salvador, to Colombia (CRANE, 1975; LEMAITRE & ALVAREZ LEON, 1992).
427. *Uca ornata* (SMITH, 1870)
From Central America, at least from Panama, south to Puerto Pizarro, Peru (CRANE, 1975).
428. *Uca panamensis* (STIMPSON, 1859)
From the Gulf of Fonseca, El Salvador, to Paita, Peru (CRANE, 1975).
429. *Uca princeps monilifera* RATHBUN, 1914
Restricted to the Northern end of the Gulf of California (BRUSCA, 1980).
430. *Uca princeps princeps* (SMITH, 1870)
From San Bartolome Bay, west coast of Baja California, Raza Island and Empalme (Guaymas), Gulf of California, Mexico, south to Zamurilla River, Peru (VILLALOBOS-HIRIART *et al.*, 1989).
431. *Uca pygmaea* CRANE, 1941
From Golfito, Costa Rica, to Buenaventura, Colombia (CRANE, 1975).
432. *Uca saltitanta* CRANE, 1941
From El Triunfo, El Salvador, to Buenaventura, Colombia (CRANE, 1975).
433. *Uca stenodactylus* (H. MILNE EDWARDS & LUCAS, 1843)
From the Gulf of Fonseca, El Salvador, to Puerto Pizarro, Peru; probably to Valparaiso, Chile (CRANE, 1975; RETAMAL, 1981).
434. *Uca stylifera* (H. MILNE EDWARDS, 1852)
From the Gulf of Fonseca, El Salvador, to Puerto Pizarro, Peru (CRANE, 1975).
435. *Uca tallanica* Von HAGEN, 1968
From Puerto Bolivar, Ecuador, to Puerto Pizarro, Peru (CRANE, 1975).
436. *Uca thayeri umbralita* CRANE, 1941
From La Herradura, El Salvador to Colombia (CRANE, 1975; LEMAITRE & ALVAREZ LEON, 1992).
437. *Uca tenuipedis* CRANE, 1941
Ballenas Bay, Costa Rica and Puerto Pizarro, Peru (CRANE, 1975).
438. *Uca tomentosa* CRANE, 1941
From Los Blancos, El Salvador, to Puerto Pizarro, Peru (CRANE, 1975).
439. *Uca vocator ecuadoriensis* MACCAGNO, 1928
From Kino Bay, east coast of the Gulf of California, Mexico, to Puerto Pizarro, Peru (HENDRICKX, 1984b).
440. *Uca zacae* CRANE, 1941
From Altata coastal lagoon, Gulf of California, Mexico, south to Golfito, Costa Rica (HENDRICKX & SALGADO-BARRAGAN, 1992).
441. *Ucides occidentalis* (ORTMANN, 1897)
From Mazatlan and Espiritu Santo Island, Southern Gulf of California, Mexico, to Tumbes, Peru (GARTH, 1960a; BRIGHT & HOGUE, 1972).
- PALICIDAE RATHBUN, 1898
442. *Palicus cortezi* (CRANE, 1937)
From Santa Ines Bay, Gulf of California, Mexico, to Mancora, Peru; Galapagos Islands (GARTH, 1946a; del SOLAR, 1972).
443. *Palicus fragilis* (RATHBUN, 1893)
From Puerto Refugio (Angel de la Guarda Island), and off Estero Tastiota, Gulf of California, to Ecuador (3°59'N); Coco and Galapagos Islands (GARTH, 1946, 1960a; HENDRICKX, unpubl. data).
444. *Palicus lucasii* RATHBUN, 1898
From Angel de la Guarda Island and along the Gulf of California west coast south to San Lucas Cape, Baja California, Mexico; Clarion and Galapagos Islands (RATHBUN, 1898; GARTH, 1946a, 1960a).
445. *Palicus tuberculata* (FAXON, 1893)
Bay of Panama to Colombia (WICKSTEN, 1989; LEMAITRE & ALVAREZ LEON, 1992).
446. *Palicus velerae* (GARTH, 1939)
Galapagos Islands (GARTH, 1939).
447. *Palicus zonata* (RATHBUN, 1893)
Known from Magdalena Bay, west coast of Baja California, San Lucas Cape and along the west coast of the Gulf of California, from Tiburon Island to Ensenada de San Francisco (Guaymas), Mexico (CRANE, 1937b; GARTH, 1960a).
- CRYPTOCHIRIDAE PAULSON, 1875
448. *Hapalocarcinus marsupialis* STIMPSON, 1859
Known from Espiritu Santo Island, SW Gulf of California, Mexico, Panama, Utria Port and Gorgona Island, Colombia; Clipperton Island (GARTH, 1965; Von PRAHL, 1982). I-PAC
449. *Opecarcinus crescentus* (EDMONSON, 1925)
San Lucas Cape, Baja California, Mexico, to Gorgona Island, Colombia; Clipperton Island (GARTH, 1965, 1974; GARTH & HOPKINS, 1968; LEMAITRE & ALVAREZ LEON, 1992). I-PAC

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NOTE ADDED IN PROOF

Another species of Pinnotheridae: (450) *Pinnixa costaricana* WICKSTEN, 1982, is also known from Coco Beach, Guanacaste Province, Costa Rica.

WICKSTEN, M.K., 1982. *Pinnixa costaricana*, a new species of crab from Central America (Brachyura: Pinnotheridae). *Proceedings of the Biological Society of Washington*, 95 (3): 579-582.

Appendix

List of invalid names (with the original orthograph) cited for the Eastern Tropical Pacific. The valid name to which they are currently synonymized appears in parenthesis. Invalid names cited only for other zoogeographic regions where ETP species occur (e.g. Western Atlantic, Indo-West Pacific) have not been included in the list.

Dromiidae

Hypoconcha digueti BOUVIER, 1898 (= *H. panamensis*)
Hypoconcha peruviana RATHBUN, 1910 (= *H. panamensis*)

Raninidae

Raninoides laevis lamarcki BOONE, 1930 (= *R. benedicti*)

Dorippidae

Aethusa pubescens FAXON, 1893 (= *E. lata*)
Ethusa mascarone americana A. MILNE EDWARDS, 1880
(Pacific records = *E. panamensis*)
Ethusa mascarone panamensis FINNEGAN, 1931
(= *E. panamensis*)
Ethusina gracilipes var. *robusta* MIERS, 1886 (= *E. robusta*)

Calappidae

Platymera californiensis RATHBUN, 1893 (= *P. gaudichaudii*)

Leucosiidae

Ebalia tuberculata RATHBUN, 1898 (= *E. cristata*)
Randallia angelica GARTH, 1940 (= *R. ornata*)

Inachidae

Anasimus rostratus RATHBUN, 1893 (= *Erileptus spinosus*)
Batrachonotus nicholsi RATHBUN, 1894 (= *Euprognatha bifida*)
Podocheila mexicana RATHBUN, 1893 (= *P. vestita*)
Podocheila tenuipes RATHBUN, 1893 (= *P. hemphillii*)

Inachoididae

Inachoides magdalenensis RATHBUN, 1893
(= *Pyromaia tuberculata*)
Neorhynchus mexicanus RATHBUN, 1893
(= *Pyromaia tuberculata*)
Pyromaia tuberculata mexicana GARTH, 1958
(= *Pyromaia tuberculata*)
Batrachonotus nicholsi RATHBUN, 1894 (= *Euprognatha bifida*)

Tychidae

Miccipa ovata LOCKINGTON, 1876 (= *Pitho picteti*)
Othonia nicholsi RATHBUN, 1892 (= *Pitho picteti*)
Tyche brevipostris LOCKINGTON, 1877 (= *T. lamellifrons*)

Epialtidae

Acanthonyx emarginatus H. MILNE EDWARDS & LUCAS, 1843
(= *A. petiveri*)
Epialtus crenulatus RATHBUN, 1923 (= *E. minimus*)
Inachus mitis POEPPIG, 1836 (= *Taliepus dentatus*)

Pisidae

Fisheria depressa LOCKINGTON, 1876 (= *H. camptacantha*)
Pelia clausa RATHBUN, 1907 (= *P. tumida*)

Mithracidae

Ala spinosa LOCKINGTON, 1876 (= *A. cornuta*)
Libinia macdonaldi RATHBUN, 1892 (= *Stenocionops ovata*)
Mithrax aerolatus LOCKINGTON, 1877 (= *M. denticulatus*)
Mithrax mexicanus GLASSELL, 1936 (= *M. spinipes*)
Mithrax orcutti RATHBUN, 1925 (= *M. armatus*)
Mithrax clarionensis GARTH, 1940 (= *M. sinensis clarionensis*)
Mithrax sonorensis RATHBUN, 1933 (= *H. camptacantha*)
Mithrax trigonopus CANO, 1889 (= *A. cornuta*)
Microphrys error KINGSLEY, 1879 (= *M. platysoma*)
Pericera contigua RATHBUN, 1892 (= *Stenocionops angusta*)
Pericera fossata STIMPSON, 1860 (= *Macrocoeloma villosum*)
Pericera triangulata RATHBUN, 1892 (= *Stenocionops ovata*)
Pisoides celatus LOCKINGTON, 1876 (= *Microphrys platysoma*)
Pisoides tuberculatus H. MILNE EDWARDS & LUCAS, 1843
(= *P. edwardsii*)
Platypes edentata LOCKINGTON, 1876 (= *Thoe sulcata sulcata*)
Thoe panamensis NOBILI, 1901 (= *T. sulcata panamensis*)

Parthenopidae

Lambrus hassleri FAXON, 1893 (= *Parthenope exilipes*)
Lambrus frons-acuteis LOCKINGTON, 1876
(= *Heterocrypta occidentalis*)
Thyrolambrus rathbunae BALSS, 1935 (= *T. glaselli*)

Aethridae

Aethra scruposa scutata SMITH, 1869 (= *A. scutata*)

Daldorfiidae

Mesorhoea gilli RATHBUN, 1893 (= *M. belli*)

Portunidae

Achelous transversus STIMPSON, 1871 (= *Portunus asper*)
Achelous panamensis STIMPSON, 1871 (= *Portunus asper*)
Portunus pichilinqueni RATHBUN, 1930
(= *Portunus xantusii minimus*)
? *Amphitrite paucispinis* LOCKINGTON, 1877
(= *Portunus xantusii minimus*)
Callinectes pleuriticus ORDWAY, 1863 (= *Callinectes arcuatus*)
Callinectes nitidus A. MILNE EDWARDS, 1879
(= *Callinectes arcuatus*)
Callinectes dubia Kingsley, 1879 (= *Callinectes arcuatus*)
Callinectes ochoterenai CONTRERAS, 1930
(= *Callinectes bellicosus*)
Callinectes robustus A. MILNE EDWARDS, 1879
(= *Callinectes toxotes*)
Arenaeus bidens SMITH, 1871 (= *A. mexicanus*)
Amphitrite edwardsii LOCKINGTON, 1877 (= *Cronius ruber*)

Cancridae

Trichocarcinus dentatus MIERS, 1879 (= *Cancer amphioetus*)
Cancer edwardsii var. *annulipes* MIERS, 1881
(= *Cancer edwardsii*)
Cancer longipes BELL, 1835 (= *Cancer porteri*)
Cancer setosus MOLINA, 1782 (= *Cancer polyodon*)
Cancer dentatus BELL, 1835 (= *Cancer polyodon*)

Xanthidae

Actaea crockeri GLASSELL, 1936 (= *Edwardsium lobipes*)
Atergatis cristatissimo LOCKINGTON, 1876
(= *Platypodiella rotundata*)
Glyptoxanthus felipensis RATHBUN, 1935 (= *G. meandricus*)

- Hexapanopeus setipalpus* FINNEGAN, 1931 (= *H. sinaloensis*)
Liomera cocosana BOONE, 1927 (= *L. cinctimana*)
Chlorodius fisheri LOCKINGTON, 1877
 (= *Cataleptodius occidentalis*)
Lophopanopeus lockingtoni RATHBUN, 1910 (= *L. frontalis*)
Medaeus rugosus BOONE, 1926 (= *Lipaesthesius leeanus*)
Ozius agassizii A. MILNE EDWARDS, 1880
 (= *Epixanthus tenuidactylus*)
Panopeus validus SMITH, 1869 (= *P. chilensis*)
Panopeus bradleyi SMITH, 1869 (= *P. chilensis*)
Eurypanopeus peruvianus A. MILNE EDWARDS, 1880
 (= *E. crenatus*)
Pilumnoides fusillus RATHBUN, 1902 (= *Paraxanthias insculptus*)
Panopeus tanneri FAXON, 1893 (= *Nanocassiope polita*)
Panopeus transversus LOCKINGTON, 1876 (= *Eurytium affine*)
Trapezia cymodoce ferruginea LATREILLE, 1825
 (= *T. ferruginea*)
Trapezia nigro-fusca STIMPSON, 1860 (= *T. digitalis*)
Pilumnus beebei BOONE, 1927 (= *Microcassiope xantusii*)
Xanthias serrulata FINNEGAN, 1931 (= *Microcassiope xantusii*)
Xantho denticulata STIMPSON, 1860 (= *Xanthodius stimpsoni*)
Xantho grandimanus LOCKINGTON, 1876 (= *Ozius verreauxii*)
Xantho multidentatus LOCKINGTON, 1877
 (= *Xanthodius stimpsoni*)
Daira ecuadoriensis RATHBUN, 1935 (= *Xanthodius stimpsoni*)
Xanthodes leucomanus LOCKINGTON, 1876
 (? = *Lophopanopeus frontalis*)
Xanthodius hebes STIMPSON, 1860 (= *Xanthodius sternberghii*)
Acteodes mexicanus LOCKINGTON, 1876
 (= *Xanthodius sternberghii*)
Pilumnus marginatus STIMPSON, 1871 (= *P. stimpsoni*)
Pilumnoides danai KINAHAN, 1857 (= *P. perlatus*)
Heteractaea pilosus LOCKINGTON, 1877 (= *H. lunata*)
Leptodius lobatus A. MILNE EDWARDS, 1880
 (= *Xanthodius cocksoni*)

Goneplacidae

- Chasmocarcinus ferrugineus* GLASSELL, 1936 (= *C. latipes*)
Cyrtoplax valeriana RATHBUN, 1928 (? = *Prionoplax ciliata*)
Nanoplax garthi GUINOT, 1969 (= *Pseudorhombila xanthiformis*)
Speocarcinus ostreaticola RATHBUN, 1910
 (? = *Prionoplax ciliata*)

Gecarcinidae

- Cardiosoma latimanus* LOCKINGTON, 1876
 (= *Cardiosoma crassum*)
Gecarcinus digueti BOUVIER, 1895 (= *G. planatus*)
Gecarcinus lateralis quadratus de SAUSSURE, 1853
 (= *G. quadratus*)
Gecarcinus regius POEPPIG, 1836 (= *Homalaspis plana*)

Grapsidae

- Grapsus ornatus* H. MILNE EDWARDS, 1853 (= *G. grapsus*)
Grapsus altifrons STIMPSON, 1860 (= *G. grapsus*)
Glyptograpsus spinipes CANO, 1889 (= *G. impressus*)
Geograpsus occidentalis STIMPSON, 1860 (= *G. lividus*)
Goniopsis cruentata pulchra LOCKINGTON, 1876 (= *G. pulchra*)
Pachygrapsus socius STIMPSON, 1871 (= *P. transversus*)
Sesarma ophioderma NOBILI, 1902 (= *Armases angustum*)

Pinnotheridae

- Cryptophrys pubescens* HOLMES, 1894
 (= *Tumidotheres margarita*)
Dissodactylus smithi RIOJA, 1944 (= *D. nitidus*)
Pinnixa panamensis FAXON, 1893 (= *P. transversalis*)
Pinnotheres jamesi RATHBUN, 1923 (= *Juxtafabia muliniarum*)
Pinnotheres reticulatus RATHBUN, 1918
 (= *Juxtafabia muliniarum*)
Pinnaxodes hirtipes HELLER, 1875 (= *Pinnaxodes chilensis*)

Ocypodidae

- Gelasimus gracilis* RATHBUN, 1893 (= *Uca crenulata crenulata*)
Gelasimus armatus SMITH, 1870 (= *Uca maracoani insignis*)
Gelasimus gibbosus SMITH, 1870 (= *Uca stenodactylus*)
Gelasimus heterophthalmus SMITH, 1870 (= *Uca stylifera*)
Uca platydactyla var. *stylifera* H. MILNE EDWARDS, 1852
 (= *Uca stylifera*)
Gelasimus macrodactylus H. MILNE EDWARDS & LUCAS, 1843
 (= *Uca galapagensis galapagensis*)
Uca lanigera VON HAGEN, 1968 (= *Uca vocator ecuadoriensis*)
Uca leptochela eibl VON BOTT, 1958 (= *Uca leptochela*)
Uca macrodactyla glabromana VON BOTT, 1954
 (= *Uca galapagensis herradurensis*)
Uca pizarri VON HAGEN, (= *U. ornata*)
Uca schmitti CRANE, 1943 (= *U. vocator ecuadoriensis*)
Uca thayeri zilchi VON BOTT, 1954 (= *U. thayeri umbralita*)
Uca mertensi VON BOTT, 1954 (= *U. tomentosa*)
Uca guayaquilensis RATHBUN, 1935 (= *U. festae*)
Uca orthomana VON BOTT, 1954 (= *U. festae*)
Uca leptochela VON BOTT, 1954 (= *U. festae*)
Uca stenodactyla beebei CRANE, 1941 (= *U. beebei*)
Uca saltitanta batuenta CRANE, 1941 (= *U. batuenta*)
Ucides cordatus occidentalis (ORTMANN, 1897)
 (= *U. occidentalis*)

Palicidae

- Cymopolia zaca* GLASSELL, 1936 (= *Palicus fragilis*)