

# CHECKLIST OF THE TERRESTRIAL AND FRESHWATER DECAPODA OF PUERTO RICO

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DURING the last few years of extensive studies on the millipeds of the Greater Puerto Rico Region, the author became extremely interested in the geographic distribution and certain ecological aspects of the terrestrial and freshwater decapods of this area. As a result this, a fair size collection has now been accumulated, which is now being studied in order to have a clearer picture of certain aspects of the biology of these crustaceans in these islands.

Although it seems that most species present on these islands have already been reported in previous works, the latter merely indicate scattered records of the species involved and with only very few exceptions (*Cardisoma guanhumi*) has the distribution or ecology been treated extensively or adequately. The most important and comprehensive studies in Puerto Rico thus far, have been those Benedict (1901), Rathbun (1902, 1933), and Schmitt (1935). Only one paper (Feliciano, 1962) deals in some detail with the biology of any one species (*Cardisoma guanhumi*). The monumental monograph of Holthuis (1952) on the Palaemoninae has not only clarified the taxonomy of the genus *Macrobrachium* but has also added a new record for Puerto Rico. In a latter publication the same author (1954) erected the genus *Potimirim* to replace (in part) *Ortmannia* Rathbun, 1902). The newly proposed genus *Potimirim* included two Puerto Rican species

*Ortmannia mexicana* (de Saussure, 1858), and *O. serrei* Bouvier, 1909, however, in 1961 Hart became aware of the fact that it was advisable to segregate *Potimirim serrei* into a new monotypical genus which he named *Jonga*.

Because the work that is being carried out in this group at present will take some time for completion, it seems advisable to publish at this time the following Checklist of The Terrestrial and Freshwater Decapoda as a preliminary step of this project, since it should be of some assistance to those biologists who might want to pursue studies on the biology of these crustaceans. Most of the common species present in mangrove swamps sandy beach shores and river banks as well as those forms of *Callinectes*, which might at one time or another go up some distance into the rivers have been included in this paper.

Since the synonymy of the species mentioned here is so extensive, only the most important specific synonymies concerned with the Puerto Rican region are given.

Class CRUSTACEA  
Order DECAPODA  
Superorder NATANTIA  
Section CARIDEA  
Superfamily PALAEMONOIDEA  
Family PALAEMONIDAE  
Genus PALAEMON Weber, 1795

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## PALAEMON PANDALIFORMIS (Stimpson, 1871)

*Leander pandaliformis* Stimpson, 1871.  
*Palaemon cubensis* Schmitt, 1935.  
*Palaemon pandaliformis*: Holthuis, 1952.

Genus MACROBRACHIUM Bate, 1868

## MACROBRACHIUM ACANTHURUS (Wiegmann, 1836)

*Palaemon acanthurus* Wiegmann, 1836.  
*Palaemon forceps* Gundlach, 1887.  
*Bithynis acanthurus*: Rathbun, 1902.  
*Macrobrachium acanthurus*: Schmitt, 1935;  
 Holthuis, 1952.

## MACROBRACHIUM CARCINUS (Linnaeus, 1758)

*Cancer carcinus* Linnaeus, 1758.  
 ?*Palaemon jamaicensis*?: Stahl, 1883.  
*Palaemon jamaicensis*: Gundlach, 1887.  
*Bithynis jamaicensis*: Rathbun, 1902.  
*Periclimenes portoricensis*: Schmitt, 1933, 1935.  
*Macrobrachium jamaicensis*: Schmitt, 1935.  
*Macrobrachium olfersii*: Hedgpeh, 1949;  
 Holthuis, 1952.

## MACROBRACHIUM FAUSTINUM (de Saussure, 1857)

*Palaemon faustinus* de Saussure, 1857.  
 ?*Palaemon faustinus*?: Stahl, 1883.  
*Palaemon faustinus*: Gundlach, 1887.  
*Bithynis olfersii* Rathbun, 1902.  
*Macrobrachium olfersii*: Schmitt, 1935; Holthuis, 1952.

## MACROBRACHIUM HETEROCHIRUS (Wiegmann, 1836)

*Palaemon heterochirus* Wiegmann, 1836.  
*Bithynis jamaicensis*: Rathbun, 1902.  
*Macrobrachium heterochirus*: Holthuis, 1952.

SUPERFAMILY OPLOPHOROIDEA  
 FAMILY ATYIDAE

Genus ATYIA Leach, 1817

ATYIA OCCIDENTALIS Newport, 1847  
 Schmitt, 1935

*Atyia scabra* Rathbun, 1902 (in part).

ATYIA SCABRA Leach, 1815; Rathbun, 1902;  
 Schmitt, 1935

Genus JONGA Hart, 1961  
 JONGA SERREI (Bouvier, 1909)

*Ortmannia serrei* Bouvier, 1909.  
*Ortmannia serrei* Schmitt, 1935.

*Potimirim serrei*: Holthuis, 1954.  
*Jonga serrei* Hart, 1961 (new combination).

Genus MICRATYA Bouvier, 1925

*Micratyia poeyi* (Guerin-Meneville, 1856  
 [1857])

*Atyia poeyi* Guerin-Neneville, 1856 [1857].  
*Micratyia poeyi*: Bouvier, 1925; Schmitt, 1935.

Genus POTIMIRIM Holthuis, 1954

POTIMIRIM MEXICANA (de Saussure, 1858)

*Caridina mexicana* de Saussure, 1858.  
*Atyiodia potimirim* Müller, 1881.  
*Ortmannia Potimirim*: Rathbun, 1902.  
*Ortmannia mexicana*: Bouvier, 1925; Schmitt,  
 1935.  
*Potimirim mexicana*: Holthuis, 1954.

Genus XIPHOCARIS von Martens, 1872

MICRAITYA POEYI (Guerin-Meneville, 1856  
 1856 [1857]); Gundlach, 1887; Pocock,  
 1889; Rathbun, 1902; Schmitt, 1935.

*Xiphocaris brevirostris* Pocock, 1889.  
*Xiphocaris gladiator* Pocock, 1889.  
*Xiphocaris gladiator* var. *intermedia* Pocock,  
 1889.

Superorder REPTANTIA

Section ANOMURA

Superfamily COENOBITOIDEA

Family COENOBITIDAE

Genus COENOBITA Latreille, 1826

COENOBITA CLYPEATUS (Herbst, 1791 [1796])

*Cancer clypeatus* Herbst, 1791 [1796].  
*Coenobita Diogenes*: Stahl, 1883; Gundlach,  
 1887.  
*Coenobita diogenes*: Benedict, 1902.  
*Coenobita clypeatus*: Schmitt, 1935.

Section BRACHYURA

Superfamily BRACHYRHYNCHA

Family PORTUNIDAE

Genus CALLINECTES Stimpson, 1860

CALLINECTES BOUCORTI A. Milne Edwards,  
 1879; Rathbun, 1902, 1930, 1933

CALLINECTES DANAE Smith, 1852; Rathbun, 1902, 1930, 1933

CALLINECTES EXASPERATES (Gerstaecker, 1856)

*Lupa exasperata* Gerstaecker, 1856.  
*Callinectes exasperatus* Rathbun, 1902, 1930, 1933.

CALLINECTES MARGINATUS (A. Milne Edwards, 1861)

*Neptunus marginatus* A. Milne Edwards, 1861.  
*Callinectes marginatus* Rathbun, 1902, 1930, 1933.

CALLINECTES ORNATUS Ordway, 1963; Rathbun, 1902, 1930, 1933

CALLINECTES SAPIDUS ACUTIDENS Rathbun, 1895, 1902, 1930, 1933

#### Family POTAMONIDAE

Genus EPILOBOCERA Stimpson, 1860

EPILOBOCERA SINUATIFRONS (A. Milne Edwards, 1866)

*Boscia sinuatifrons* A. Milne Edwards, 1866.  
*Epilobocera cubensis* Stahl, 1883.  
*Epilobocera* . . . . . Gundlach, 1887.  
*Epilobocera sinuatifrons*: Rathbun, 1898, 1902, 1933.

#### Family OCYPODIDAE

Genus OCYPODE Fabricius, 1798

OCYPODE ALBICANS Bose, 1902; Rathbun, 1902, 1918, 1933

*Ocypoda arenaria* Stahl, 1883; Gundlach, 1887.  
¿*Ocypode rhombea*? Gundlach, 1887.

Genus UCA Leach, 1814

UCA LEPTODACTYLA Rathbun, 1898, 1902, 1918, 1933

UCA MORDAX (Smith, 1870)

*Gelasimus mordax* Smith, 1870.  
*Uca mordax*: Rathbun, 1902, 1918, 1933.

UCA PUGNAX RAPAX (Smith, 1870)

*Gelasimus rapax* Smith, 1870.  
*Uca pugnax rapax*: Rathbun, 1902, 1918, 1933.

UCA THAYERI Rathbun, 1900, 1902, 1918, 1933

#### Family GRAPSIDAE

Genus ARATUS H. Milne Edwards, 1853

ARATUS PISONII (H. Milne Edwards, 1837)

*Sesarma pisonii* H. Milne Edwards, 1837; Stahl, 1883; Gundlach, 1887.  
*Aratus pisonii* Rathbun, 1902, 1918, 1933.

Genus CYCLOGRAPSPUS H. Milne Edwards, 1837

CYCLOGRAPSPUS INTEGER (H. Milne Edwards, 1837)

*Grapsus integer* H. Milne Edwards, 1837.  
*Cyclograpsus integer* Rathbun, 1902, 1918, 1933.

Genus GONIOPSIS de Haan, 1833

GONIOPSIS CRUENTATA (Latreille, 1803)

*Grapsus cruentata* Latreille, 1803; Stahl, 1883; Gundlach, 1887.  
*Goniopsis cruentata* Rathbun, 1902, 1918, 1933.

Genus PACHYGRAPSPUS Randall, 1840

PACHYGRAPSPUS TRANSVERSUS (Gibbes, 1850)

*Grapsus transversus* Gibbes, 1850.  
*Pachygrapsus transversus* Rathbun, 1902, 1918, 1933.

Genus SESARMA Say, 1817

SESARMA ANGUSTIPES Dana, 1852; Rathbun, 1918, 1933

SESARMA CURACAOENSE de Man, 1892; Rathbun, 1902, 1918, 1933

SESARMA RICORDI H. Milne Edwards, 1853; Rathbun, 1902, 1918, 1933

SESARMA ROBERTI H. Milne Edwards, 1853; Rathbun, 1918, 1933

#### Family GEOCARCINIDAE

Genus CARDISOMA Latreille, 1825

CARDISOMA GUANHUMI Latreille, 1825; Stahl, 1883; Gundlach, 1887; Rathbun, 1902, 1918, 1933; Feliciano, 1962

Genus GEOCARCINUS Leach, 1814

GEOCARCINUS LATERALIS (Fremenville, 1835)

*Ocypoda lateralis* Fremenville, 1835.  
*Geocarcinus lateralis*: Stahl, 1883; Gundlach, 1887; Rathbun, 1902, 1918, 1933.

## GEOCARCINUS RURICOLA (Linnaeus, 1758)

*Cancer ruricola* Linnaeus 1758.  
*Geocarcinus ruricola*: Rathbun, 1918.

Genus UCIDES Rathbun, 1897

UCIDES CORDATUS, (Linnaeus, 1763)

*Cancer cordatus* Linnaeus 1763.  
*Ucides cordatus*: Rathbun, 1902, 1918, 1933.

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