

A CATALOGUE OF THE TYPE MATERIAL IN THE IVIC REFERENCE
COLLECTION OF DECAPODA, VENEZUELA

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A B S T R A C T

A catalogue of the type specimens deposited in the reference collection of decapod crustaceans built up by the late Gilberto Rodríguez and collaborators, from 1960 to 2004, at the Instituto Venezolano de Investigaciones Científicas (IVIC), Venezuela, is presented. It contains the field data and taxonomic information for 32 holotypes and 25 paratypes of 42 species and subspecies belonging to three families (2 Palaemonidae, 3 Trichodactylidae, and 37 Pseudothelphusidae).

R E S U M E N

Se presenta un catálogo de los especímenes tipo depositados en la colección de referencia de crustáceos decápodos establecida por el fallecido, Dr. Gilberto Rodríguez y colaboradores entre 1960 y 2004, en el Instituto Venezolano de Investigaciones Científicas (IVIC), Venezuela. El mismo contiene los datos de campo y la información taxonómica de 32 holotipos y 25 paratipos de 43 especies y subspecies pertenecientes a tres familias (2 Palaemonidae, 3 Trichodactylidae, y 38 Pseudothelphusidae).

This catalogue includes all type specimens belonging to the Reference Collection of Decapoda of the Instituto Venezolano de Investigaciones Científicas (IVIC), a dependence of the Venezuelan Ministry of Science and Technology. This collection was established in 1960 by the late Dr. Gilberto Rodríguez (1929–2004) and his collaborators Mr. Andrés Eloy Esteves and Cap. Eduardo Ormeño, in the former Marine Biology Laboratory of the Center of Ecology (IVIC), in Altos de Pipe, Miranda State, Venezuela. In July 2000, the collection was transferred to the Laboratory of Organismal Biology, and from 2002 onwards appears recorded with code MI-002 in the Venezuelan Museum and Collection Register of the Ministry of the Environment and Natural Resources. Later this year, the collection will officially be named “Gilberto Rodríguez Reference Collection of Decapoda,” as a posthumous homage to its founder.

The collection specializes in marine and freshwater crustacean species of the order Decapoda, currently including 1097 lots, with a representation of 175 genera and 380 species. It is remarkable because it contains a considerable number of freshwater crab taxa from South and Central America. A recent inventory yielded 162 Neotropical species, 32 belonging to the Natantia and 130 to the Brachyura. It also includes 95 species of the family Pseudothelphusidae and 35 Trichodactylidae. The total number of holotypes deposited in this collection represents approximately 20 percent of the freshwater decapod species so far described in the Neotropical region.

This catalogue presents the field data and taxonomic information for holotypes and / or paratypes of 42 species and subspecies of decapod crustaceans (Palaemonidae: 2, Trichodactylidae: 3, and Pseudothelphusidae: 37). All specimens mentioned are preserved in 70% ethanol, contained in glass jars, and stored in compactable, mobile cabinets, as is the entire collection, of which the author serves as curator.

In the catalogue, the highest hierarchical levels are ordered according to Martin and Davis (2001). Tribes and

genera are ordered according to Rodríguez (1982, 1992), and Rodríguez and von Sternberg (1998).

Species and subspecies are listed by alphabetical order. In every case, I retain the original combination of the Latin names attached to the types, but information regarding any subsequent taxonomic change is provided in the remarks, together with the citation of the relevant reference.

Abbreviations used are *leg.*, for *legit*; *cl.* for carapace length; *cb.* for carapace breadth; and *IVIC* for Instituto Venezolano de Investigaciones Científicas.

CATALOGUE

Order Decapoda Latreille, 1802

Suborder Pleocyemata Burkenroad, 1963

Infraorder Caridea Dana, 1852

Superfamily Palaemonoidea Rafinesque, 1815

Family Palaemonidae Rafinesque, 1815

Macrobrachium Bate, 1868

Macrobrachium aracamuni Rodríguez, 1980

Holotype.—Cerro Aracamuni, Estado Federal Amazonas - Venezuela, 10 de Febrero de 1981, *leg.*, Molina & E. Medina, 1 male, *cl.* 19.3 mm. IVIC 53.

Macrobrachium cortezi Rodríguez, 1982b

Holotype.—Balneario Tobogán, 30 km south of Puerto Ayacucho, Río Orinoco, Amazonas State - Venezuela, April 28, 1978, *leg.*, W. Pérez, 019-A6, 1 male, *cl.* 24.5 mm, IVIC 119.

Paratype.—Same data as Holotype; 1 male, *cl.* 23.3 mm.

Infraorder Brachyura Latreille, 1802

Section Eubrachyura de Saint Laurent, 1980

Subsection Heterotremata Guinot, 1977

Superfamily Portunoidea Rafinesque, 1815

Family Trichodactylidae H. Milne-Edwards, 1853

Subfamily Trichodactylinae H. Milne-Edwards, 1853

Trichodactylus Latreille, 1828*Trichodactylus kensleyi* Rodríguez, 1992

Paratype.—Arroyo Pindo at bridge on dirt hwy. (rte. 3) ca. 9 km N of Mbutuy, and ca. 67 km N of Coronel Oviedo, Río Manduvira der., San Pedro / Caaguazu - Paraguay, July 29, 1979, *leg.*, Taylor, Grimshaw and Creighton, Lat / Long, 24°52'54"S/56°19'48"W, Field Number P79-68, 1 male, cl. 16.68 mm, cb. 18.32 mm, IVIC 785.

Avotrichodactylus Pretzmann, 1968*Avotrichodactylus oaxensis* Rodríguez, 1992

Paratype.—Río San Antonio Cañada, Acatlán-Oaxaca - México, February 20, 1988, *leg.*, H. Wilkens, 1 male, lc. 16.58 mm, cb. 18.04 mm, IVIC 718.

Subfamily Dilocarcininae Pretzmann, 1978

Tribe Dilocarcinini Pretzmann, 1978

Fredilocarcinus Pretzmann, 1978*Fredilocarcinus musmuschiae*

(Pretzmann and Mayta, 1980)

Holotype.—Huacamayo River, Km 155, road to Basadre, Pucallpa Department—Aguaytia Province, Ucayali Region, Peru, November 24, 1983, *leg.*, H. Ortega and G. Contreras.

Remarks.—Only left gonopod of the holotype.

Superfamily Pseudothelphusoidea Ortmann, 1893

Family Pseudothelphusidae Ortmann, 1893

Subfamily Epilobocerinae Smalley, 1964

Epilobocera Stimpson, 1860*Epilobocera wetherbee* Rodríguez and Williams, 1995

Holotype.—Magua river, tributary of Mao river, Platicos ridge, northern slopes of the Cordillera Central, near the water divide, Santiago Province, Dominicana Republic, at waterfall, 2300 m, July 12, 1991, *leg.*, D. Wetherbee, 1 male, cl. 16.5 mm, cb. 26.6 mm, IVIC 486.

Paratypes.—Same data as Holotype, 1 male broken, cl. approx. 12.5 mm, cb. approx. 20.1 mm, 4 ovigerous females, cl. 14.7, 15.5, 16.1 and 16.8 mm, cb. 24.6, 25.8, 25.7 and 28.1 mm, 1 adult female, broken carapace, cl. 14.2 mm, cb. approx. 24.0 mm, 1 juvenile.

Subfamily Pseudothelphusinae Ortmann, 1893

Tribe Strengerianini Rodríguez, 1982

Strengeriana Pretzmann, 1971*Strengeriana tolimensis* Rodríguez and Díaz, 1981

Holotype.—Quebrada de Perales, Departamento de Tolima, Colombia, June 12, 1976, *leg.*, H. Díaz, 1 male, cl. 15.5 mm, cb. 24.5 mm, IVIC 716.

Paratypes.—Same data as Holotype, 9 males, lc. 15.31, 15.39, 15.30, 14.88, 14.29, 13.08, 13.07, 12.66, and 10.25, cb. 22.94, 23.73, 22.73, 21.84, 22.06, 20.00, 20.24, 18.90, and 14.83, 3 females, cl. 16.50, cb. 24.85 mm (with juveniles under abdomen), cl. 16.27, cb. 24.58 mm (mature), cl. 12.23, cb. 18.22 mm.

Chaceus Pretzmann, 1965*Chaceus caecus* Rodríguez and Bosque, 1990

Holotype.—Cueva Punto Fijo I, Río Guasare, Zulia State - Venezuela, January 20, 1989, *leg.*, C. Bosque and H. Suárez, 1 male, cl. 17.5 mm, cb. 27.5 mm, IVIC 455.

Paratypes.—Same data as Holotype, 1 male, cl. 16.0 mm, cb. 25.1 mm; Cueva Punto Fijo I, Río Guasare river, Zulia State - Venezuela, April 15, 1987, *leg.*, C. Galán, 2 males, cl. 18.9 and 18.2 mm, cb. 29.6 and 28.9 mm, IVIC 456.

Chaceus cesarensis Rodríguez and Viloría, 1992

Holotype.—Río Manaure canyon, 1 km from Finca El Suspiro, Valledupar Range, Perijá, Cesar Department, Colombia, 2150 m, March 22, 1989, *leg.*, A. L. Viloría, 1 male, cl. 11.8 mm, cb. 19.2 mm, IVIC 468.

Chaceus motiloni Rodríguez, 1980

Holotype.—Kunana, Río Negro, Perijá Range, Zulia State - Venezuela, 1500 m, December 19, 1950, *leg.*, F. Martin, 1 male, cl. 12.5 mm, cb. 21.8 mm, IVIC 469.

Paratypes.—Same data as Holotype, 1 male, cl. 12.3 mm, cb. 21.3 mm, 1 female cl. 10.6 mm, cb. 16.8 mm.

Chaceus turikensis Rodríguez and Herrera, 1994

Holotype.—Cueva de Las Lianas, Mesa Turik, Zulia State - Venezuela, 1750 m, March 9, 1991, *leg.*, C. Galán and F. Herrera, 1 male cl. 15.0 mm, cb. 26.6 mm, IVIC 475.

Paratype.—Same data as Holotype, 1 male, cl. 17.5 mm, cb. 17.6 mm.

Tribe Hypolobocerini Pretzmann, 1971

Hypolobocera Ortmann, 1897*Hypolobocera brevipenis* Rodríguez and Díaz, 1981

Holotype.—Ecuador, without additional data, *leg.*, M. Olaya, 1 male, cl. 12.0 mm, cb. 20.3 mm, IVIC 606.

Remarks.—Transferred to *Lindacatalina* Pretzmann by Rodríguez and von Sternberg (1998: 127).

Hypolobocera quevedensis Rodríguez and Díaz, 1981

Holotype.—36 km N of Quevedo, Río Quevedo, Ecuador, June 24, 1976, *leg.*, H. Díaz, 1 male, cl. 26.8 mm, cb. 41.9 mm, IVIC 628.

Remarks.—Synonymized with *Hypolobocera caputti* (Nobili, 1901) by Rodríguez and von Sternberg (1998: 115).

Hypolobocera dantae Rodríguez and Suárez, 2004

Holotype.—Huánuco, Dantas, La Molina, 9°38'5"S, 75°0'W, Peru, 450 m, May 19, 1987, *leg.*, Jeraldo Rodríguez, 1 male, cl. 22.6 mm, cb. 36.8 mm, IVIC 1105.

Hypolobocera konstanzae Rodríguez and von Sternberg, 1998

Holotype.—Estero San Agustín, 4 km S from the bridge of Río Banchal, Manabí, Ecuador, June 6, 1977, *leg.*, H. Díaz, 1 male, cl. 37.5 mm, cb. 56.8 mm, IVIC 593.

Hypolobocera mindonensis Rodríguez and
von Sternberg, 1998

Paratypes.—Confluence of Río Salaya and Río Mindo, between 1000 and 1200 m, Ecuador, September 1968, *leg.*, M. Olaya, 2 males, cl. 17.68, 14.77 mm, cb. 27.16, 23.64 mm, and 1 female mature, cl. 17.28 mm, cb. 25.15 mm, 1 ovigerous female, cl. 15.33 mm, cb. 23.87 mm, IVIC 623.

Hypolobocera muisnensis Rodríguez and
von Sternberg, 1998

Holotype.—Estero Lojca, Muisne Salima, Esmeraldas Province, October 21, 1988, *leg.*, J. C. Vieira, 1 male, cl. 31.1 mm, cb. 51.6 mm, IVIC 952.

Hypolobocera ucayalensis Rodríguez and
Suárez, 2004

Holotype.—Pucallpa, Ucayali, km. 59 of Basadre highway, Loreto Department, Perú, Sept. 10, 1985, *leg.*, H. Ortega, 1 adult male, cl. 26.5 mm, cb. 40.2 mm, IVIC 1115.

Moritschus Pretzmann, 1965

Moritschus narinnensis Campos and Rodríguez, 1988

Paratypes.—Quebrada Taibí, Barbacoas, Inspección Buena Vista, Piedra Verde, Colombia, August 16, 1987, *leg.*, M. H. Campos, 1140 m, 2 males, cl. 15.23 mm and 13.93 mm, cb. 22.42 mm and 20.97 mm, IVIC 652.

Neostrengeria Pretzmann, 1965

Neostrengeria charalensis

Campos and Rodríguez, 1985

Paratype.—Quebrada de Hormas, 7 km S of Moniquirá, 40 Km NW of Tunja, Boyacá Department, Colombia, June 15, 1977, *leg.*, H. Díaz, 1 male, cl. 16.4 mm, cb. 29.2 mm, IVIC 678.

Neostrengeria sketi Rodríguez, 1985

Paratype.—Hoyo del Aire, La Paz, Santander Department, Colombia, 1800 m, June 1984, *leg.*, B. Sket, 1 male, cl. 29.9 mm, cb. 47.3 mm, IVIC 685.

Ptychophallus Smalley, 1964

Ptychophallus barbillaensis Rodríguez and
Hedström, 2000

Paratype.—Caño Seco, affluent of Río Barbillas, Barbillas National Park, Costa Rica, January 7, 1999, *leg.*, I. Hedström, 300 m, 1 male, cl. 13.26 mm, cb. 20.81 mm, IVIC 1074.

Tribe Potamocarcinini Ortmann, 1897

Potamocarcinus H. Milne-Edwards, 1853

Potamocarcinus vulcanensis Rodríguez, 2001

Paratype.—Volcán Monte Cristo, 25 km N of Metapán, 2300 m, El Salvador, May 10, 1971, *leg.*, S. Peck, 1 male, cl. 11.94 mm, cb. 17.61 mm, IVIC 1102.

Tribe Pseudothelphusini Ortmann, 1897

Pseudothelphusa de Saussure, 1857

Pseudothelphusa contorta Rodríguez, 1966b

Holotype.—Venezuela, without additional data, 1 male, cl. 39.7 mm, cb. 63 mm, IVIC 558.

Remarks.—Synonymized with *Fredius beccarii* (Coifmann, 1939) by Rodríguez (1982b: 164).

Pseudothelphusa estevisi Rodríguez, 1966b

Holotype.—Venezuela, without additional data, 1 male, cl. 55.6 mm, cb. 90.0 mm, IVIC 576.

Paratype.—Same data as Holotype, 1 male cl. 43.2 mm, cb. 71.3 mm.

Remarks.—Transferred to *Fredius* Pretzmann by Rodríguez (1982a: 180).

Pseudothelphusa garmani trujillensis Rodríguez, 1967

Holotype.—Quebrada of Escuque town, Trujillo State - Venezuela, 1125 m, February 14, 1966, *leg.*, G. Rodríguez and A. E. Esteves, 1 male, cl. 46.5 mm, cb. 74.5 mm, IVIC 541.

Remarks.—Transferred to *Eudaniela* Pretzmann by Pretzmann (1972: 29).

Pseudothelphusa holthuisi Rodríguez, 1967

Holotype.—Quebrada La Negra, between Seboruco and Las Mesas, Táchira State - Venezuela, 700 m, February 16, 1966, *leg.*, G. Rodríguez and A. E. Esteves, 1 male, cl. 14.8 mm, cb. 24.2 mm, IVIC 692.

Paratypes.—Same data as Holotype, 2 males, cl. 13.1 and 9.5 mm, cb. 21.0 and 14.0 mm.

Remarks.—Transferred to *Orthothelphusa* Rodríguez (1980) by Rodríguez (1982a: 174).

Pseudothelphusa orinoccensis Rodríguez, 1966b

Holotype.—Cacurí, Alto Ventuari, Amazonas State - Venezuela, February 24, 1959, *leg.*, L. Durán, 1 male, cl. 42.5 mm, cb. 67.2 mm, IVIC 567.

Paratype.—Same data as Holotype, 1 male, cl. 36.1 mm, cb. 56.1 mm.

Remarks.—Synonymized with *Fredius chaffanjoni* (Rathbun, 1905) by Rodríguez (1982: 181).

Pseudothelphusa puntarenas Hobbs, 1991

Paratype.—Emus Cave, Provincia de Punta Arenas, Costa Rica, January 1, 1989, *leg.*, H. H. Hobbs III, 1 male, cl. 10.20 mm, cb. 15.18 mm, IVIC 715.

Pseudothelphusa racenisi Rodríguez, 1966a

Holotype.—Rancho Grande, Aragua State - Venezuela, August 5, 1949, *leg.*, J. Racenis, 1 male, cl. 27 mm, cb. 44 mm, IVIC 647.

Remarks.—Transferred to *Microthelphusa* Pretzmann (1968) by Rodríguez (1982: 163).

Tribe Kingsleyini Bott, 1970

Eudaniela Pretzmann, 1971

Eudaniela ranchograndensis Rodríguez, 1966a

Holotype.—Rancho Grande, Aragua State - Venezuela, August 18, 1949, *leg.*, J. Racenis, 1 male, cl. 30 mm, cb. 42 mm, IVIC 539.

Microthelphusa Pretzmann, 1968

Microthelphusa barinensis Rodríguez, 1980

Holotype.—Quebrada between La Soledad and Barinitas, Barinas State - Venezuela, 570 m, October 21, 1970, *leg.*, G. Rodríguez, 1 male, cl. 12.9 mm, cb. 20.8 mm, IVIC 643.

Paratypes.—Same data as Holotype, 2 males, cl. 11.2 and 10.8 mm, cb. 18.5 and 17.0 mm, 3 females cl. 13.7, 12.2 and 11.0 mm, cb. 22.3, 19.4 and 18.3 mm.

Microthelphusa bolivari Rodríguez, 1980

Holotype.—Road between El Dorado and Santa Elena de Guairén, 126 km from El Dorado, Bolívar State - Venezuela, 1350 m, December 24, 1972, *leg.*, E. Sierra, 1 male, cl. 19.0 mm, cb. 31.0 mm, IVIC 644.

Microthelphusa turumikiri Rodríguez, 1980

Holotype.—Cerro Turumikiri, Sucre State, 1500 m, June 23, 1968, *leg.*, J. A. Rivero, 1 male, cl. 15.2 mm, cb. 25.9 mm, IVIC 649.

Paratypes.—Same data as Holotype, 4 males, cl. 13.8, 13.6, 9.9 and 8.9 mm, cb. 22.7, 22.4, 15.6 and 14.1 mm, 6 females, the largest mature, cl. 17.0 mm, cb. 28.9 mm, 8 juveniles.

Oedothelphusa Rodríguez, 1980

Oedothelphusa orientalis Rodríguez, 1980

Holotype.—Sabana de Piedras, La Toma, Monagas State - Venezuela, 1210 m, December 29, 1966, *leg.*, F. Yoris, 1 male, cl. 14.3, cb. 22.3 mm, IVIC 687.

Prionothelphusa Rodríguez, 1980

Prionothelphusa eliasi Rodríguez, 1980

Holotype.—San Carlos de Río Negro, Amazonas State—Venezuela, April 4, 1976, *leg.*, R. Herrera, 1 male, cl. 24.5 mm, cb. 36.0 mm, IVIC 712.

Fredius Pretzmann, 1967

Fredius adpressus adpressus Rodríguez and Pereira, 1992

Holotype.—Quebrada El Garzón, 18 km from Río Parguaza, Bolívar State - Venezuela, 100 m, August 15, 1985, *leg.*, B. Bustos, 1 male, cl. 46.9 mm, cb. 79.6 mm, IVIC 555.

Fredius adpressus piaroensis Rodríguez and Pereira, 1992

Holotype.—San José del Cuao, Amazonas State - Venezuela, August 28, 1987, *leg.*, S. Zent, 1 male, cl. 54.9 mm, cb. 89.1 mm, IVIC 556.

Paratypes.—Same data as Holotype, 1 male, cl. 31.1 mm, cb. 49.7 mm, 1 immature female, cl. 49.3 mm, cb. 79.1 mm.

Fredius estevisi siapensis Rodríguez and Pereira, 1992

Holotype.—Siapa river, Amazonas State - Venezuela, 518 m, March 27, 1988, *leg.*, R. Royero, 1 male, cl. 37.5 mm, cb. 57.8 mm, IVIC 580.

Paratypes.—Same data as Holotype, 12 males, cl. 32.92, 31.44, 30.75, 27.69, 26.85, 26.75, 25.65, 23.18, 21.82, 21.47, 18.76, 13.80 mm, cb. 50.1, 47.90, 46.74, 41.60, 40.16, 40.21, 38.52, 33.98, 32.49, 31.40, 27.49, 19.99 mm, 8 juveniles, cl. 12.94, 10.50, 10.39, 10.37, 8.65, 8.40, 8.21, 8.05 mm, cb. 19.76, 14.65, 14.44, 14.95, 12.05, 12.15, 11.64, 10.99 mm, 10 immature females, cl. 32.70, 31.84, 31.30, 30.91, 30.62, 25.64, 22.68, 22.27, 20.10, 13.96 mm, cb. 50.24, 47.72, 47.34, 46.95, 47.52, 38.04, 32.91, 33.17, 22.62, 20.23 mm.

Fredius granulatus Rodríguez and Campos, 1998

Paratype.—Sitio La Sabana, Centro Providencia, Comunidad Makuna, Corregimiento La Pedrera, Amazonas Department, Colombia, November 15, 1994, *leg.*, M. R. Campos, 1 male, cl. 32.81 mm, cb. 50.04 mm, IVIC 1064.

Fredius platyacanthus Rodríguez and Pereira, 1992

Holotype.—El Abismo, Cantarrana, Río Icabarú, Bolívar State - Venezuela, 500 m, August 1984, *leg.*, J. Ayarza-guena and H. Castellanos, 1 male, cl. 58.5 mm, cb. 96.5 mm, IVIC 582.

Fredius stenolobus Rodríguez and Suárez, 1994

Holotype.—Río Majagua, affluent of Río Erebató, Bolívar State - Venezuela, March 7, 1992, *leg.*, E. León, 1 male, cl. 51.5 mm, cb. 81.3 mm, IVIC 586.

Paratypes.—Same data as Holotype, 2 males, cl. 18.8 and 25.0 mm, cb. 62.5 and 38.7 mm, 3 females, cl. 37.8, 35.3 and 33.5 mm, cb. 59.0, 54.4 and 51.8 mm.

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