New records of 20 species of Majoidea and Parthenopoidea (Crustacea: Decapoda) along the Pacific coast of Mexico

Fifty–eight species of Majoidea have so far been reported from the Gulf of California, Mexico (Garth 1958, 1960, Hendrickx and van der Heiden 1983, 1984, Hendrickx 1987). Of these, about 21 are inhabitants of the rocky intertidal and shallow subtidal environments; they are usually captured by hand or with small dredges on or near rocky substrate or in sea–grass beds. The other 37 species are found much below the intertidal habitat and must be collected with trawls and dredges operated from ships.

Regarding the Parthenopoidea, 15 species have been recorded in the area (Garth 1958, 1960), of which 13 are found exclusively well below the lower limit of the intertidal.

During recent sampling operations in the Gulf of California, Mexico, 52 species of Majoidea and 10 species of Parthenopoidea were collected by hand in the intertidal or with the B/O “El Puma”, UNAM, on the continental platform. The present paper presents range extensions within the Gulf of California for 18 of these species. Two species of Majoidea are also reported for the first time in the Gulf of California.

The taxonomic sequence followed for the Majoidea is that proposed by Drach and Guinot (1983). All the specimens collected during this study are held in the Reference Collection of the Laboratorio de Invertebrados y Peces Bentonicos, Estación Mazatlán, UNAM.

Superfamily Majoidea Samouelle, 1819
Family Inachidae Dana, 1851
Eucinerosus lucasi Stimpson, 1860.

Previous records: Several localities along the Gulf of California west coast, from Cabo San Lucas to Puerto Refugio; from Bahia Cholla to Bahia Catalina, on the east coast of the Gulf (Garth 1958).

New record: Puerto Viejo, Mazatlan, 1 9 ovig. collected by hand, rocky intertidal (March, 1983).

Colloides gibbosus (Bell, 1835)

Previous records: Bahia San Francisco, Cabo San Francisco, Cabo Parado and Isla Salango, Ecuador; Panama, Colombia and Guatemala; Acapulco, Mexico (Garth 1958).

New records: Several collection sites along the coast of Sinaloa, in the Gulf of California: off Mazatlan, 1 9 and 1 9 ovig. obtained from a bottom grab sample at 14 m (30IV/80); off Mazatlan, 1 9 ovig. with an otter–trawl at 24 m (25V/80); off Bahia Santa Maria, 1 9, with an otter–trawl at 102 m (03V/82).

Colloides tenirostris Rathbun, 1893.

Previous records: From Isla Cedros, on the west coast of Baja California, and from Isla Angel de la Guarda and Bahia Tepoca, south to Bahia Sechura, Peru (Garth 1958).

New records: In addition to collections from as many as 32 stations throughout the central and southern Gulf of California, Colloides tenirostris was also collected for the first time in the northern Gulf: off Roca Consg. 7 9, 5 9 and 10 9 ovig., with an otter–trawl at 60 m (9V/82); off Punta Willard, 1 9, with an otter–trawl at 77 m (8V/82); south of Roca consg. 13 9 and 12 9 collected with an otter–trawl at 95–103 m (16III/85).

Parasysxygus depressus (Bell, 1835)

Previous records: Gulf of California, from Bahia Concepcion and Ensenada de San Francisco, south to Bahia Cuvita, Colombia (Garth 1958).

New records: Parasysxygus depressus was found abundantly in 4 stations in the northern and eastern central Gulf of California: north of Isla Tiburon, 3 9 and 9 9 collected with an otter–trawl at 112 m (14III/85); off Punta Willard, 1 9, with an otter–trawl at 79 m; south of Roca Consg. 16 9 and 9 9, with an otter–trawl at 93–103 m (16II/85) and 2 9 and 2 9 ovig., with an otter–trawl at 74 m (5VII/85); off Cabo Tepoca, 28 9, 14 9 and 5 9 ovig., with an otter–trawl at 91–102 m (17III/85).

Family Epialtidae McLeay, 1838
Epialtus salticus Stimpson, 1860
Previous records: Bahia Santa Maria, on the west coast of Baja California and up to Isla San Marcos on the east coast (Garth 1958).

New records: First record of this species along the east coast of the Gulf of California, at Mazatlan: Punta Chiles, 1 δ and 2 η collected by hand, rocky intertidal (4/VI/82); Puerto Viejo, 1 δ and 3 η collected with a dredge at 4-5 m (20/IX/82); 1 δ, by hand, on rocky beach (24/III/83), and 2 δ and 1 η collected with a dredge at 1-3 m (10/VIII/83).

_Euplectrodon peruvianus_ (Rathbun, 1923)

Previous records: This species has been reported from Iquique, Chile, north to Salinas, Ecuador (Garth 1958, Biez 1985).

New records: One ovigerous female, collected by hand in the rocky intertidal at Punta Piaxtla, in the southeastern Gulf of California (23/XI/84).

_Family Pteridae Dana, 1851_

_Pelta pacifica_ A. Milne Edwards, 1875.

Previous records: From Tumbes, Peru, north to Mazatlan, Sinaloa (de Soler 1970, Hendricks and van der Heiden 1984).

New record: Punta Piaxtla, Sinaloa, 3 δ and 2 η and 2 η ovig., (22/IX/79), and 9 δ, 3 η and 10 η ovig. (22/XI/84), all collected by hand, rocky intertidal.

_Herbstia tumida_ (Stimpson, 1871)

Previous records: From Santa Elena, Ecuador, north to Manzanillo, Colima and Banco Arena, Baja California, Mexico; Islas Cocos and Revillagigedo (Garth 1958).

New record: Punta Chiles, Mazatlan, 1 δ collected by hand, rocky intertidal (25/XI/81).

_Lobivia mexicana_ Rathbun, 1892

_Previous records: Known only from the northern Gulf of California (Garth 1958)._

New records: Off Estero Tastiota, Sonora, 10 δ and 14 η, otter-trawl at 35 m; off Bahia San Esteban, Sinaloa, 1 η, otter-trawl at 40 m (1/V/80); off Macapule, Sinaloa, 2 η, otter-trawl at 15 m.

_Family Mithridacidae Bartsch, 1829_

_Mithrax (Mithrax) armatus_ de Saussure, 1853

Previous records: This species is known from Panama to Los Frailes, Baja California, and to Mazatlan, Sinaloa (Garth 1958).

New record: Punta Piaxtla, Sinaloa, 4 η ovig. (22/IX/79), 8 δ and 3 η (23/XI/84) collected by hand, rocky intertidal.

_Mithrax (Mithrax) spinipes_ (Bell, 1835)

Previous records: Several localities along the east coast of Baja California, from Banco Arena to Bahia Agua Verde; Isla Cocos and Galapagos (Garth 1958).

New record: First record on the east coast of the Gulf of California, at Mazatlan, Sinaloa, 1 δ collected by hand, rocky intertidal (4/XII/79).

_Mithrax (Mithraculus) denticulatus_ Bell, 1835

Previous records: San Diego, California (extralimitals); in the Gulf of California, the species has been collected up to Bahia Agua Verde on the west coast and at Isla Isabel on the east coast; south to Guaymas, Ecuador; Isla Cocos (Garth 1958).

New records: Punta Chiles, Mazatlan, 1 δ, 2 η and 4 η ovig. (25/XI/80), 4 δ and 6 η ovig. (13/IV/82), 3 η and 5 η (12/III/83), by hand, rocky intertidal; Puerto Viejo, Mazatlan, 3 δ, 3 η and 1 η ovig. (23/III/83), 1 η ovig. (10/VIII/83) and 1 δ (7/VI/83), by hand, rocky intertidal; Isla pajaros, Mazatlan, 2 δ and 1 ·, in tide-pools, rostenota (15/III/84); Punta Piaxtla, Sinaloa, 1 δ, 1 η and 2 η ovig. (22/XI/84), by hand, rocky intertidal; Guaymas, Sonora, 3 δ and 2 η, by hand, rocky intertidal (5/IV/86).

_Teleobrychus cristulipes_ Stimpson, 1860.

Previous records: From Bahia Santa Maria, on the west coast of Baja California; from Agua Verde and Isla Isabel, in the southern Gulf of California, to Bahia Manta, Ecuador; Islas Galapagos, Clipperton, Revillagigedo, Cocos and Malpelo (Garth 1958, Birkeland et al. 1975).

New record: Punta Piaxtla, Sinaloa, 1 δ collected by hand in rocky intertidal (23/XI/84).

_Stariccionops beebei_ Glassell, 1936.

Previous records: From Bahia Magdalena, on the west coast of Baja California; Gulf of California, along the west coast up to Isla Angel de la Guarda and along the east coast from Isla Tiburon to Guaymas, Sonora (Garth 1958, 1960).

New records: Off Roca Consag, in the northern Gulf, 1 δ collected at 60 m, otter-trawl (9/VI/82); off Rio Fuerte, 1 δ collected at 97 m, otter-trawl (20/VIII/85); off Bahia Santa Maria, 2 δ collected at 61–67 m, otter-trawl (10/III/85), in the southern Gulf.

_Superfamily Parthenopoidae Mc Leay, 1838_

_Family Parthenopidae Mc Leay, 1838._
Parthenope (Platylambra) exilipes (Rathbun, 1893).

**Previous records:** Punta San Domingo, on the west coast of Baja California; Cabo San Lucas to Boca de La Trinidad and Islas Tres Marias, Gulf of California; south to Isla Lobos de Añuera, Peru; Isla Cocos (Garth 1959).

**New records:** Off Punta Piaxtla, Sinaloa, 2♂ and 1♀, oyster-trawl at 66 m (23/VIII/81); off Bahia Santa Maria, Sinaloa, 1♂ and 1♀ ovig., oyster-trawl at 51 m (20/III/85); off Estero Tacticola, Sonora, 1♀, oyster-trawl at 57 m (6/VIII/85); off Cabo San Miguel, 1♂, oyster-trawl at 107–118 m (1/VIII/85).

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Parthenope (Pseudolambrus) excavata (Stimpson, 1871)

**Previous records:** Gulf of California, from Isla Angel de la Guarda and Isla Isabel, south to Panama (Garth 1958).

**New record:** Bahia Santa Maria, on the east coast of the Gulf of California, 1♀, oyster-trawl at 30 m (September 1979).

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Parthenope (Pseudolambrus) stimpsoni Garth, 1958.

**Previous records:** Known only from Islas Tres Marias, in the southern Gulf of California and to Isla Gorgona, Colombia (Garth 1958).

**New record:** Off Banco Gordo, Baja California, 1♀, oyster dredge at 38 m (13/V/82).

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Solenolambrus arcuatus Stimpson, 1871.

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**Previous records:** From Los Frailes, Baja California and Bahia Tepoca, Sonora, to Bahia Santa Elena, Ecuador; Islas Galápagos and Revillagigedo (Garth 1958, 1960).

**New records:** Off Punta San Marcial, 1♂, 1♀ and 1♀ ovig., oyster-trawl at 23–39 m (30/VII/85) and off Cabo San Miguel, 3♀ ovig., oyster-trawl at 27 m (13/III/85), on the east coast of the Gulf of California.

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Leiolambrus punctatissimus (Owen, 1839).

**Previous records:** From Punta Tosca (west coast), Cabeza Ballena (east coast), Baja California, and Gasaynas, Sonora, to Tumbes, Peru (del Solar 1970).

**New records:** North of Isla Tiburón, Sonora, 14♂, 3♀ and 1♀ ovig., oyster-trawl at 112 m (14/III/85); off Punta Willard, Baja California, 1♂, oyster-trawl at 76–82 m (2/III/85).

Mesorhosa bellii (A. Milne Edwards, 1878).

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**Previous records:** West coast of Baja California, south of Punta Abejera; Gulf of California, from Islas Angel de la Guarda and San Jorge, south to Tumbes, Peru (Garth 1958, del Solar et al. 1970).

**New record:** Off Roca Consag, 21♂, 5♀ and 1♀ ovig., oyster-trawl at 32 m (16/III/85).

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**ACKNOWLEDGEMENTS**

We thank J.S. Garth, Allan Hancock Foundation, for his precious help and numerous suggestions regarding the taxonomy of brachyuran crabs in general. One of us (MEH) thanks J. Bouillon and M. Jangoux for the facilities provided in the Laboratoire de Biologie Marine, Université Libre de Bruxelles during part of this study, which was partly supported by CONACyT, México (IECXXNA-021926) and the DGPA, UNAM.

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