

ADDITIONS TO THE HERPETOLOGICAL CATALOGUE OF THE MUSEO
DEL MAR, UNIVERSIDAD ARTURO PRAT, IQUIQUE, CHILE

*NUEVAS INCORPORACIONES AL CATALOGO HERPETOLOGICO DEL MUSEO
DEL MAR DE LA UNIVERSIDAD ARTURO PRAT, IQUIQUE, CHILE*

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ABSTRACT

Additions of new species of herpetological fauna to the Herpetological Collection of the Museo del Mar, Universidad Arturo Prat, Iquique, Chile, are documented. The Collection currently contains 56 herpetological species, 16 of which are Amphibia, and 40 of which are Reptilia, both terrestrial and marine. There is a total of 165 specimens, of which approximately 38% are Chilean species.

KEYWORDS: Herpetological catalogue, Chilean herpetofauna, Museo del Mar, Universidad Arturo Prat, Iquique, Chile.

RESUMEN

Se documentan las nuevas especies de herpetozoos incorporados a la Colección Herpetológica del Museo del Mar de la Universidad Arturo Prat de Iquique. La Colección cuenta actualmente con 56 especies de herpetozoos, 16 de anfibios y 40 de reptiles tanto terrestres como marinos, con un total de 165 ejemplares, correspondientes aproximadamente a un 38% del total de herpetozoos chilenos.

PALABRAS CLAVES: Catálogo herpetológico, Herpetofauna chilena, Museo del Mar, Universidad Arturo Prat, Iquique, Chile.

INTRODUCTION

The Museo del Mar of the Universidad Arturo Prat in Iquique, Chile, has decided as part of its initial activities, to place emphasis on the herpetological fauna of this country by means of its herpetological reference collection. The origin of this effort arose from the concern of the University in specializing regional studies of biodiversity.

The need for increasing the herpetological collections was mentioned by Formas (1995) and Veloso

et al. (1995). This requirement was particularly relevant to the northern portion of Chile, where this collection is the only one which has been developed.

The collection up until 2001 housed 100 specimens, belonging to 29 species grouped into 11 Genera and six Families (Moreno *et al.* 2001), and represented about 10% of the herpetological fauna of Chile. Presently, following the policy of strengthening the collection by the Chile Biodiversity Program of the Universidad Arturo Prat, the collection

has been able to significantly expand its taxonomic representation both regionally and nationally, now containing 56 species including 16 Amphibia and 40 Reptilia, both terrestrial and marine. The 165 specimens now held represent approximately 38% of known Chilean herpetological species.

Following new strategic orientation of the Program, it is expected that the present collection

will be important for reference at regional and national levels, to which end the present contributions are made.

The now presented catalogue includes, in sequential order, the acronym of the Museo del Mar (MUAP), the museum number for each specimen, its geographical location, Province and administrative Region with respective geographic coordinates (Table I), and collection date.

TABLE I. Geographic coordinates of cited localities.

TABLA I. Coordenadas geográficas de las localidades citadas.

Localities	Geographic coordinates
Algarrobal	28°06'S; 70°41' W
Alto Palena	43°37'S; 71°48' W
Bahía Mansa	40°33'S; 73°46' W
Calama	22°28'S; 68°56' W
Caspana	22°20'S; 68°14' W
Cauquenes	35°58'S; 72°21' W
Concepción	36°50'S; 73°03' W
Curicó	34°59'S; 71°14' W
Geysers del Tatio	22°25'S; 68°00' W
Huasco Bajo	28°28'S; 71°11' W
Iquique	20°10'S; 70°10' W
La Reina	33°10'S; 70°42' W
Lago Rupanco	40°34'S; 73°09' W
Laguna Santa Rosa	27°05'S; 69°10' W
Mamiña	20°05'S; 69°14' W
Mehuín	39°26'S; 73°10' W
Nacimiento	37°30'S; 72°40' W
Negrete	37°35'S; 72°31' W
Ollagüe	21°14'S; 68°16' W
Osorno	40°34'S; 73°09' W
Parajaya	19°02'S; 68°57' W
Parque Nacional Laguna del Laja	37°21'S; 71°19' W
Parque Nacional Nahuelbuta	37°43'S; 73°02' W
Pucatrihue	40°28'S; 73°43' W
Pudahuel	33°26'S; 70°50' W
Talinay	30°39'S; 71°44' W
Termas de Puritama	22°43'S; 68°02' W
Trumao	40°21'S; 73°11' W

The systematic representation for the major taxonomic categories follows Dowling and Duellman (1978). At the specific level, authorities include Cei (1962), Donoso-Barros (1966), Peters and Donoso-Barros (1970), Veloso and Navarro (1988), Frost and Etheridge (1989), Ortiz (1989), Núñez and Jaksic (1992) and Etheridge (1995).

CLASS Amphibia

Family Bufonidae Fitzinger 1826

Species *Bufo papillosus* (Philippi 1902)

MUAP0110: Parque Nacional Laguna del Laja (Bío-Bío, VIII); 7-12-1986.

Species *Bufo spinulosus* Wiegmann, 1835

MUAP 0103-04: Mamiña (Iquique, I); 15-10-1996;
MUAP 0107: Caspana (El Loa, II); 16-9-1986;
MUAP 0108-09: Geysers El Tatío (El Loa, II); 19-9-1986.

Family Leptodactylidae Berg, 1838

Species *Alsodes barrioi* Veloso, Díaz, Iturra & Penna 1981

MUAP 0144-46: Parque Nacional Nahuelbuta (Malleco, VIII); 16-11-1986.

Species *Batrachyla leptopus* Bell, 1843

MUAP 0115: Alto Palena (Palena, X); 19-2-1987.

Species *Batrachyla taeniata* (Girard 1854)

MUAP 0111-13: Osorno (Osorno, X); 21-6-1985;
MUAP 0114: Trumao (Osorno, X); 30-10-1986.

Species *Caudiverbera caudiverbera* (Linnaeus 1758)

MUAP 0142-43: Cauquenes (Cauquenes, VII); 15-2-1987.

Species *Eupsophus calcaratus* (Gunther 1881)

MUAP0116: Bahía Mansa (Osorno, X); 17-10-1987.

Species *Eupsophus migueli* Formas, 1978

MUAP 0117: Mehuín (Valdivia, X); 7-9-1987.

Species *Pleurodema bufonina* Bell 1843

MUAP 0118-20: Parque Nacional Laguna del Laja (Bío-Bío, VIII); 7-12-1986.

Species *Pleurodema thaul* (Lesson 1826)

MUAP 0121-23: Osorno (Osorno, X); 17-1-1984;

MUAP 0124: Concepción (Concepción, VIII); 6-4-1986.

Species *Telmatobius marmoratus* (Duméril & Bibron 1841)

MUAP0140-41: Parajaya (Iquique, I); 12-11-1990.

Family Rhinodermatidae Bonaparte 1850

Species *Rhinoderma darwini* Duméril & Bibron 1841

MUAP 0147: Pucatrihue (Osorno, X); 12-2-1987.

Family Pipidae Gray 1825

Species *Xenopus laevis* (Daudin 1802)

MUAP 0105-06: Pudahuel (Santiago, Región Metropolitana); 15-3-1992.

CLASS Reptilia

Subfamily Liolaeminae Frost & Etheridge 1989.

Species *Liolaemus constanzae* Donoso-Barros, 1961
MUAP 0127: Termas de Puritama (El Loa, II); 5-10-1997.

Species *Liolaemus copiapoensis* Müller & Hellmich, 1933

MUAP 0126; 0128: Quebrada Algarrobal (Huasco, III); 23-1-1984.

Species *Liolaemus cyanogaster cyanogaster* Duméril & Bibron 1837

MUAP 0148: Osorno (Osorno, X); 7-1-2002; MUAP 0149: Negrete (Bío-Bío, VIII); 26-3-2001.

Species *Liolaemus lemniscatus* Gravenhorst 1838
MUAP 0130-31: La Reina (Santiago, Región Metropolitana); 5-10-1983.

MUAP 0152-56: Nacimiento (Bío-Bío, VIII); 6-1-2002.

Species *Liolaemus* cf. *pantherinus* Pellegrin 1909
MUAP 0162: Ollagüe (El Loa, II); 7-1-2002.

Species *Liolaemus paulinae* Donoso-Barros 1961
MUAP 0150: Calama (El Loa, II); 6-12-2000.

Species *Liolaemus pictus pictus* Duméril & Bibron 1837

MUAP 0134-35: Concepción (Concepción, VIII); 20-10-1983.

MUAP 0157-58: Lago Rupanco (Osorno, X); 21-1-1984.

MUAP 0159-61: Bahía Mansa (Osorno, X); 9-1-2002.

Species *Liolaemus rosenmanni* Núñez & Navarro 1992

MUAP 0165: Laguna Santa Rosa (Copiapó, III); 14-1-1996.

Species *Liolaemus schroederi* Müller & Hellmich 1938

MUAP 0136-38: Concepción (Concepción, VIII); 20-10-1983.

Species *Liolaemus silvai* Ortiz, 1989

MUAP 0132-33: Huasco (Huasco, III); 18-10-1989.

Species *Liolaemus tenuis* Duméril & Bibron 1837

MUAP 0080; 0094; 0129: Concepción (Concepción, VIII); 20-10-1987.

Species *Liolaemus zapallarensis* Müller & Hellmich 1933

MUAP 0139: Talinay (Limarí, IV); 21-1-1969.

Species *Liolaemus reichei* (Werner 1907)

MUAP 0163: Iquique (Iquique, I); 12-9-2002.

Species *Phymaturus flagellifer* Bell 1843

MUAP 0151: Parque Nacional Laguna del Laja (Biobío, VIII); 16-11-1999.

Subfamily Polychrotinae Frost & Etheridge, 1989

Species *Pristidactylus torquatus* (Philippi 1861)

MUAP 0125: Curicó (Curicó, VII); 9-3-1985.

Family Cheloniidae Gray, 1825

Species *Lepidochelys olivacea* Eschscholtz, 1829

MUAP 0164: Iquique (Iquique, I); 20-4-1996.

COMMENTS

In agreement with geographic records for species in the present catalogue, the suggestions of Etheridge and Williams (1985) are accepted, regarding the distribution of *Pristidactylus torquatus* to the *Nothofagus* forests of Curicó, and that the geographic distribution suggested by Donoso-Barros (1966) from Chillán in southern Chile should be extended, which was also considered by

Lamborot and Díaz (1987). In the case of the “African toad” *Xenopus laevis*, an exotic species harmful to the autochthonous biota, this has been considered as another species within the diversity of Amphibia in the country as this species is widely dispersed in various aquatic systems in Chile’s central zone.

The present value of the herpetological fauna of the Collection at the biogeographic level reaches from the xeromorphic zone to the hygromorphic zone of the country, which suitably strengthens the scope of the collection. The continued strengthening of the collection through the Chile Biodiversity Program of the Universidad Arturo Prat, will permit defining strategies oriented toward the systematic enrichment of taxonomic representation both regionally and nationally, producing an important reference source for the northern portion of Chile as well as the rest of the country.

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