

A SYNONYMIC LIST OF CHILEAN BULIMULIDS (MOLLUSCA: PULMONATA)

Lista sinonímica de Bulimúlidos chilenos (Mollusca: Pulmonata)

JOSE STUARDO* y CLAUDIO VALDOVINOS*

RESUMEN

Los Bulimúlidos chilenos, constituyen un componente importante de los moluscos terrestres del extremo sur de Sudamérica. Complementando información incluida en una sinopsis de los moluscos terrestres de Chile, publicada en otra revista, se presenta una lista de los sinónimos de 29 especies de *Bostryx s.l.* y de 10 especies y 1 subespecie del género *Plectostylus*.

ABSTRACT

The Chilean Bulimulidae are an important component of the land molluscan fauna of southern South America. The list gives additional information to a synopsis of the land molluscan fauna published elsewhere and includes the synonyms of 29 species of the genus *Bostryx s.l.* plus 10 species and 1 subspecies of the genus *Plectostylus*.

Keywords: Land molluscs, Chile, Bulimulidae, taxonomy, synonyms.

INTRODUCTION

Among the 14 families of land-mollusca registered from Chile, the Bulimulidae did not reach the oceanic islands; yet they are an important component of the continental fauna due to its diversity of genera and subgenera.

Following the information recently compiled by Stuardo and Vega (1985) we conclude that there are 29 species of the genus *Bostryx*, subgenera *Bostrix s.s.*, *Ataxus*, *Platybostryx*, *Peronaeus* and *Lissoacme*, and 10 species and one subspecies of the genus *Plectostylus*. A series of additional names have been listed as synonyms of one or other of the better known

species, although in some cases these synonyms have been proposed with doubts. Recently, Breure (1979) in a world revision of the family considers some of these synonyms as either valid species or *nomina inquirenda*, following the requirements posed by a present day taxonomy which (outside the shell) considers the description and analysis of various structures and organs, specially, the radula, the pallial organs and the penial complex.

Work in progress, considers a detailed synonymic analysis of the Chilean species by genera and subgenera. However, given the complexity of this group and aiming to advance information to facilitate an understanding of this malacofauna, we are presenting the following list of valid species and synonyms. It

*Departamento de Oceanología Universidad de Concepción Casilla 2407, Concepción, Chile.

considers traditional criteria, the important opinion of Breure (1979) and our own points of view.

In the list, only valid names are indicated in

italics and the original generic name is quoted after each specific name in brackets. Some punctual comments on the status of a few species are also included.

SYNONYMIC LIST

<i>affinis</i> Broderip, 1832 [Bulinus]	is	<i>Bostryx (Lissoacme) affinis</i>	
<i>albicans</i> Broderip, 1832 [Bulinus]	is	<i>Bostryx (Lissoacme) albicans</i>	
<i>albus</i> Sowerby, 1833 [Bulinus]	is	<i>Bostryx (Lissoacme) erythrostromus</i> var. <i>albus</i>	(1)
<i>albus</i> var. <i>albicans</i> Hidalgo, 1872			
	[Bulinus]	is	<i>albicans</i>
<i>aldunatea</i> Hupé, 1846 [Helix(Bulimus)]	is	<i>Plectostylus chilensis</i>	
<i>anachoreta</i> Pfeiffer, 1856, [Bulinus]	is	<i>Bostryx (Peronaeus) anachoreta</i>	
<i>argentinensis</i> Parodiz, 1951 [Plectostylus]	is ?	<i>mariae</i>	
<i>arrosus</i> Sowerby, 1841 [Bulinus]	is	<i>erosus</i>	
<i>atacamensis</i> Pfeiffer, 1856 [Bulinus]	is	<i>Bostryx (Peronaeus) atacamensis</i>	
<i>boithyanus</i> H. & A. Adams, 1855	is	<i>voithianus</i>	
	[Orthalicus (Mesenbrinus)]		
<i>broderipii</i> Sowerby, 1832 [Bulinus]	is	<i>Plectostylus broderipi</i>	
<i>buschii</i> Pfeiffer, 1842 [Succinea]	is	<i>Plectostylus buschii</i>	
<i>cactorum</i> d'Orbigny, 1835 [Helix]	is	<i>hennahi</i>	
<i>chilensis</i> Lesson, 1826 [Bulinus]	is	<i>Plectostylus chilensis</i>	
<i>conspersus</i> Potiez & Michaud, 1838			
	[Bulinus]	is	<i>albicans</i>
<i>coquimbensis</i> Broderip, 1832 [Bulinus]	is	<i>Plectostylus coquimbensis</i>	
<i>corrugatus</i> King, 1831 [Bulinus]	is	<i>peruvianus</i>	
<i>coturnix</i> Sowerby, 1832 [Bulinus]	is	<i>Plectostylus coturnix</i>	
<i>curtus</i> Koch, 1844 [Bulinus]	is	<i>derelectus</i>	
<i>derelectus</i> Broderip, 1832 [Bulinus]	is	<i>Bostryx (Lissoacme) derelectus</i>	
<i>elegans</i> Pfeiffer, 1842 [Bulinus]	is	<i>coquimbensis</i>	
<i>eremothauma</i> Pilsbry, 1896	is	<i>Bostryx (Platybostryx) eremothauma</i>	
	[Bostryx (Platybostryx)]		
<i>erosus</i> Broderip, 1832	is	<i>Bostryx (Lissoacme) erosus</i>	(1)
<i>erythrostroma</i> Sowerby, 1833 [Bulinus]	is	<i>Bostryx (Lissoacme) erythrostromus</i>	
<i>feisthameli</i> Hupé, 1854 [Bulinus]	is	<i>voithianus</i>	
<i>flavescens</i> King, 1831 [Partula]	is	<i>chilensis</i>	
<i>foveolatus</i> Reeve, 1849 [Bulinus]	is	<i>Thaumastus foveolatus</i>	
<i>gayi</i> Rehder, 1945 [Peronaeus]	is	<i>Bostryx (Peronaeus) gayi</i>	
<i>granifer</i> Beck, 1837 [Bulimulus]	is	<i>chilensis</i>	
<i>granulosus</i> Broderip, 1832 [Bulinus]	is	<i>chilensis</i>	
<i>gravesii</i> King, 1831 [Bulinus]	is	<i>peruvianus</i>	
<i>guttatus</i> Broderip, 1832 [Bulinus]	is	<i>Bostryx (Lissoacme) guttatus</i>	
<i>hamiltoni</i> Reeve, 1849 [Bulinus]	is	<i>Bostryx (Peronaeus) hamiltoni</i>	
<i>hennahi</i> Gray, 1830 [Bulinus]	is	<i>Bostryx (Lissoacme) hennahi</i>	
<i>holostoma</i> Pfeiffer, 1846 [Bulinus]	is	<i>Bostryx (Bostryx) holostoma</i>	
<i>huascensis</i> Reeve, 1848 [Bulinus]	is	<i>Bostryx (Lissoacme) huascensis</i>	
<i>infundibuliformis</i> Jay, 1848 [Bulinus]	is	<i>umbilicaris</i>	
<i>ischnus</i> Pilsbry, 1902			
	[Bulimulus (Bostryx)]	is	<i>Bostryx (Peronaeus) ischnus</i>

<i>lactifluus</i> Pfeiffer, 1857 [Bulimus]	is	<i>Bostryx (Peronaeus) lactifluus</i>	
<i>laurentii</i> Sowerby, 1833 [Bulimus]	is	<i>Bostryx (Lissoacme) laurentii</i>	
<i>leucostictus</i> Philippi, 1856 [Bulimus]	is	<i>Bostryx (Peronaeus) leucostictus</i>	
<i>lichenorum</i> d'Orbigny, 1835 [Helix]	is	<i>Bostryx (Peronaeus) lichenorum</i>	
<i>longurio</i> Crosse, 1869 [Bulimus]	is	<i>atacamensis</i>	
<i>lychenorum</i> Sowerby, 1838 [Bulimus]	is	<i>hennahi</i>	
<i>mariae</i> S.T. Brooks, 1936			
	[Plectostylus]	is	<i>Plectostylus mariae</i>
<i>mejillonensis</i> Pfeiffer, 1857			
	[Bulinus]	is	<i>Bostryx (Lissoacme) mejillonensis</i>
<i>metamorphus</i> Pilsbry, 1896			
	[Bulimulus (Bostryx)]	is	<i>Bostryx (Lissoacme) metamorphus</i>
<i>mexilloensis</i> Paetel, 1889 [Bulimus]	is	<i>mejillonensis</i>	
<i>moestai</i> Dunker, 1864 [Bulimus]	is	<i>Plectostylus moestai</i>	
<i>modestus</i> Broderip, 1832 [Bulinus]	is	<i>Bostryx (Lissoacme) modestus</i>	
<i>nanus</i> Reeve, 1849 [Bulimus]	is	<i>pumilio</i>	
<i>ochsenii</i> Dunker, 1855 [Bulimus]	is	<i>Plectostylus ochsenii</i>	
<i>olorinus</i> Duclos, 1833 [Bulimus]	is	<i>Bostryx (Lissoacme) erythrostomus</i> var. <i>albus</i> (2)	
<i>paposensis</i> Pfeiffer, 1856 [Bulimus]	is	<i>affinis</i>	
<i>peruvianus</i> Bruguière, 1789 [Bulimus]	is	<i>Plectostylus peruvianus</i>	
<i>philippii</i> Rheder, 1945 [Peronaeus]	is	<i>Bostryx (Peronaeus) philippii</i>	
<i>coquimbensis</i> var. <i>perelegans</i> Pilsbry, 1897		<i>Plectostylus coquimbensis</i>	
[Bulimulus (Plectostylus)]	is	var. <i>perelegans</i>	
<i>prolatus</i> Gould, 1846 [Bulimus]	is	<i>chilensis</i>	
<i>pruinus</i> Sowerby, 1833 [Bulinus]	is	<i>Bostryx (Lissoacme) pruinus</i>	
<i>pulicarius</i> Beck, 1837 [Bulimus]	is	<i>peruvianus</i>	
<i>pumilio</i> Rehder, 1945 [Peronaeus]	is	<i>Bostryx (Peronaeus) pumilio</i>	
<i>punctulifer</i> Sowerby, 1833 [Bulinus]	is	<i>Plectostylus punctulifer</i>	
<i>pupiformis</i> Broderip, 1832 [Bulinus]	is	<i>Bostryx (Peronaeus) pupiformis</i>	
<i>pustulosus</i> Broderip, 1832 [Bulinus]	is	<i>Bostryx (Peronaeus) pustulosus</i>	
<i>reentsi</i> Philippi, 1851 [Bulimus]	is	<i>Bostryx (Lissoacme) reentsi</i>	
<i>reentsii</i> Philippi, 1855 [Helix]	is	<i>eremothauma</i>	
<i>reflexa</i> Pfeiffer, 1842 [Succinea]	is	<i>Plectostylus reflexus</i>	
<i>rhodacme</i> Pfeiffer, 1842 [Bulimus]	is	<i>Bostryx (Peronaeus) rhodacme</i>	
<i>roualtii</i> Hupé, 1854 [Bulimus]	is	<i>pruinus</i>	
<i>rubescens</i> Reeve, 1848 [Bulimus]	is	<i>hennahi</i>	
<i>rupicolis</i> Reeve, 1848 [Bulimus]	is	<i>variegatus</i>	
<i>scabiosus</i> Sowerby, 1833 [Bulinus]	is	<i>Bostryx (Peronaeus) scabiosus</i>	
<i>scabrosus</i> Rehder, 1945 [Peronaeus]	is	<i>scabiosus</i>	
<i>scutulatus</i> Broderip, 1832 [Bulinus]	is	<i>Bostryx (Lissoacme) scutulatus</i>	
<i>spixii</i> Potiez & Michaud, 1838			
	[Bulimus]	is	<i>albicans</i> (4)
<i>terebralis</i> Pfeiffer, 1842 [Bulimus]	is	<i>ischnus</i>	
<i>umbilicaris</i> Souleyet, 1842 [Bulimus]	is	<i>Bostryx (Ataxus) umbilicaris</i>	
<i>vagabondiae</i> Brooks, 1936 [Plectostylus]	is	<i>Plectostylus vagabondiae</i>	
<i>variegata</i> Pfeiffer, 1842 [Succinea]	is	<i>Plectostylus variegatus</i>	
<i>virginalis</i> Morelet, 1860 [Bulimus]	is	<i>hennahi</i>	
<i>voithianus</i> Pfeiffer, 1847 [Bulimus]	is	<i>Bostryx (Lissoacme) voithianus</i> (3)	

TAXONOMIC REMARKS

1. *Bulimus albus* Sowerby, 1833 was considered by Pilsbry (1896) as a variety of *Bostryx* (*Lissoacme*) *erithrostomus* (Sowerby, 1833), and *Bulimus erosus* Broderip, 1832 ascribed by the same author to the genus *Bostryx*, subgenus *Bostryx* s.s. Breure (1979) placed both species in a list of *nomina inquirenda* for the genus *Simpulopsis*, subgenus *Eudioptus* Albers, 1960, suggesting, however, that they could belong to the genus *Bostryx*.

2. The species *Bulimus guttatus* Broderip, 1832, *Bulimulus* (*Bostryx*) *metamorphus* Pilsbry, 1896 and *Bulimus olorinus* Duclos, 1833, the latter considered here a synonym of *Bostryx* (*Lissoacme*) *erythrostomus* (Sowerby, 1833), are included in a list of *nomina inquirenda* for the

genus *Simpulopsis*, subgenus *Eudioptus* Albers, 1860, by Breure (*op. cit.*). This author, however, suggests that the three named species could belong to the genus *Bostryx*.

3. Breure (*op. cit.*) includes *Bulimus voithianus* Pfeiffer, 1847 in a list of *nomina inquirenda* for the genus *Scutalus*, 1850, subgenus *Vermiculatus* Breure, 1978. However, it also suggests that it might belong to the genus *Bostryx*.

4. Pilsbry (1896) considers *Bulimus spixii* Potiez and Michaud, 1835 as synonym of *Bostryx* (*Lissoacme*) *albicans*. Breure (1979) listed it among *nomina inquirenda* for the genus *Simpulopsis*, subgenus *Eudioptus* Albers, 1860, but also suggested that it might belong to the genus *Bostryx*.

BIBLIOGRAFIA

Stuardo, J. and R. Vega. 1985. Synopsis of the land mollusca of Chile. With remarks on distribution. Studies on Neotropical Fauna and Environment (In press).
Breure, A.S.H. 1979. Systematics, Phylogeny and Zoogeography of Bulimulinae (Mollusca). Zoologische Verhandelingen, 168: 3-215, 3 plates.

Pilsbry, H.A. 1896-1899. Bulimulidae. Manual of Conchology (2), 10 - 12.
Additional detailed references can be found in the above listed works.