



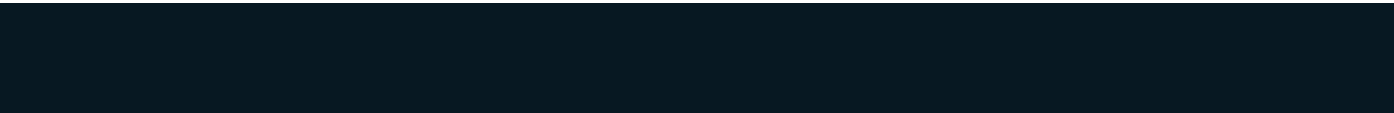
# VISAYA

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**RECENT CONTINENTAL MALACOLOGICAL RESEARCHES AND INVENTORY IN  
THE SOUTHERN BRAZIL AND THE GENERAL “ATLANTIC SLOPE OF THE SOUTH  
CONE” REGION, SOUTH AMERICA: A COMPARATIVE RELATIONSHIP ADDENDA**

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July 21, 2008



# Recent Continental Malacological Researches and Inventory in the Southern Brazil and the General “Atlantic Slope of the South Cone” Region, South America: A Comparative Relationship Addenda

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I already eat previously informed, in the course of the month of March 2008, the first stage of our private project that seeks the integral rising of marine, freshwater and terrestrial malacofauna existent in the Santa Catarina's State, SC, Southern Brazil region (Agudo & Bleicker 2006 a; Agudo 2007 a; Agudo-Padrón 2007, 2008) (Fig. 1) was ended, with a reasonable total swinging of 766 confirmed species and subspecies (608 marine, 55 freshwater - 32 gastropods & 23 bivalves, and 103 terrestrial – Figs. 2, 3, 4), systematically included in 5 classes, 173 families and 390 genera, completing 12 years of exhaustive regional researches (1996 - 2008) and involving, before besides the essential cadaster of regional biodiversity of mollusks commented, important considerations as the taxonomy, ecology and zoogeography, as well as exhaustive analysis of the regional historical bibliography production, generated to the 59 year-old plaza, between 1949 and 2008.



**Fig. 1:** Geographical localization of Santa Catarina State, SC, in the Brazilian southern region and the

“Atlantic Slope of the South Cone”, South America.



**Fig. 2:** Other representative native tree snails of tropical forest in Santa Catarina State: *Simpulopsis decussata* Pfeiffer, 1856 (Top) and *Cyclodontina catharinae* (Pfeiffer, 1856) (Bottom) (Photos: Agudo-Padrón).

However, and in parallel syntony with the work developed in Santa Catarina's State, SC, since the year of 2001 we met developing in the same molds more another inventory of terrestrial and freshwater mollusks, in the neighboring territory of the State of Paraná, PR (Agudo 2008 a-c) (Fig. 1), with a total up to now confirmed of 130 species e subspecies (77 terrestrial and 53 freshwater - 31 gastropods & 22 bivalves), systematically included in 2 classes, 35 families and 63 genera.



**Fig. 3:** Some exotic invasive gastropods present in Santa Catarina State: Slug *Pallifera* sp. (Bottom) and *Lissachatina* (= *Achatina*) *fulica* (Bowdich, 1822) (Upper) (Photo: Agudo-Padrón).

The sudamerican countries of BRAZIL through its southern region (Simone 2006; Agudo-Padrón 2007; Thomé et al 2007; Agudo 2008; Mansur 2008 b), URUGUAY (Scarabino 2003, 2004; Simone 2006; Scarabino & Mansur 2007; Thomé et al 2007) and ARGENTINA (Simone 2006; Miquel et al 2007; Thomé et al 2007; Rumi et al 2008), they integrate in its group the geography of the “Atlantic Slope of the South Cone” (Fig. 1), presenting reasonable well-known risings of freshwater and terrestrial mollusks (Table 1).



**Fig. 4:** Terrestrial gastropods forms of Santa Catarina State: native slug *Sarasasinula linguaeformis* (Semper, 1885) (Top) and exotic carnivorous snail *Rumina decollata* (Linnaeus, 1758) (Bottom) (Photos: Agudo-Padrón).

**Table 1:** Total number of well-known Continental Mollusks species in the Southern Cone Atlantic Slope of South America (see Fig. 1), esteemed until the month of March of 2008

	Terrestrial gastropods	Freshwater gastropods	Freshwater bivalves
<b>BRAZILIAN SOUTHERN REGION STATES</b>			
Paraná, PR	77	31	22
Santa Catarina, SC	103	32	23
Rio Grande do Sul, RS	165	53	60
<b>SOUTHERN NEIGHBORING COUNTRIES</b>			
Argentina	264	101	65
Uruguay	71	52	43

Particularly, in what it respects to the freshwater mussel naiads (UNIONOIDA: MYCETOPODIDAE & HYRIIDAE), specialists esteem the existence today of at least 116 species and well-known subspecieses in the world (Cummings & Bogan 2006: 317-Table 25.1), as well as among 150-200 valid species of freshwater clams (VENEROIDA: SPHAERIIDAE) (Korniushin 2006: 327). Of this totality they are recognized for the vast territory of Brazil in South America 115 species and subspecieses, included four representatives VENEROIDA of the family CORBICULIDAE (one native and three exotics) and the asiatic golden mussel (MYTILIDAE) *Limnoperna fortunei* (Dunker, 1857) (Agudo 2006, 2007 b; Agudo-Padrón 2007), with expectation of that number to arrive for 150 (Avelar 1999: 67), numbers these considered by the specialists as weak and, maybe, underestimated, in face of the high diversity of the Brazilian mainland fauna (Simone 2006: 3; Thomé et al 2006: 39, 47), still involving unhappily the exotic forms and those native species threatened of extinction (Agudo & Bleicker 2006 b; Simone 2006: 312; Agudo 2007 a: 12-13, 2008: 12; Callil 2008; Mansur 2008 a, b).

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