



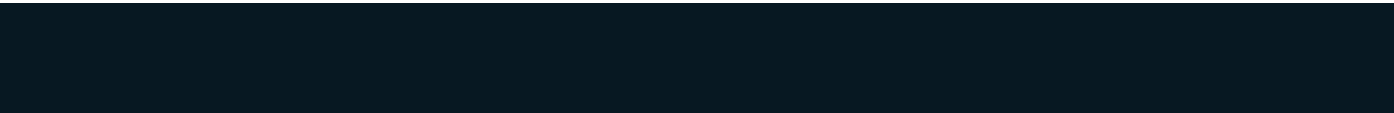
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N E T

**RECENT TERRESTRIAL AND FRESHWATER MOLLUSCS OF SANTA CATARINA  
STATE, SC, SOUTHERN BRAZIL REGION: A COMPREHENSIVE SYNTHESIS AND  
CHECK LIST**

Aisur Ignacio Agudo-Padrón  
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# Recent Terrestrial And Freshwater Molluscs Of Santa Catarina State, Sc, Southern Brazil Region: A Comprehensive Synthesis And Check List

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Based in our preliminary technical report (Agudo-Padrón 2008), a comprehensive synthesis of the general revision on the recent continental mollusks that happen in the geographical territory of Santa Catarina's State (SC) is presented to proceed, product of twelve year-old exhaustive regional researches (between 1996 and 2008), understanding checklist of 158 known and reported species and subspecies (55 freshwater and 103 terrestrial forms), among them 135 GASTROPODA – 16 PROSOBRANCHIA, 9 GYMNOPHILA & 110 PULMONATA - and 23 BIVALVIA - 15 UNIONOIDA & 8 VENEROIDA, systematically distributed in 82 genus, 36 families and 2 classes, established until the month of March 2008, with base in wide bibliographical revision starting from the historical contributions of MORRETES (1949, 1951), and the exam of copies deposited in Brazilian institutional and private collections, as well as of specimens obtained during field collections and/or for the road of sporadic donations.

For a basic knowledge of the geographical area that he understands the present study, portion of the Brazilian region in the Southern Cone Atlantic Slope of South America (Fig. 1), consult our previous available contributions in the net (Agudo & Bleicker 2006; Agudo 2007, 2008).

The species like this striped they were examined with support in the approaches exposed in the specialized literature for continental forms of GASTROPODA (\*) and BIVALVIA (\*\*).

(\*) Including contributions of PILSBRY 1895-6; HUBENDICK 1951; PARAENSE 1975; THOMÉ 1975; PITONI et al 1976; THOMÉ 1976; HODASI 1984; PARKINSON et al 1987; ABBOTT 1989; THOMÉ 1993; OLIVEIRA & ALMEIDA 1999, 2000; COWIE & THIENGO 2003; SALGADO & COELHO 2003; SCARABINO 2003; SANTOS 2003; SCARABINO 2004; BOUCHET & ROCROI 2005; FONTANILLA et al 2006; SIMONE 2006; THOMÉ et al 2006, 2007 and RUMI et al 2008 ...

(\*\*) Including contributions of ORTMANN 1921; PARODIZ 1968; HAAS 1969; MANSUR 1969, 1970; PITONI et al 1976; MANSUR et al 1987; ITUARTE 1994; SIMONE 1994; ITUARTE 2000; MANSUR & PEREIRA 2006; SIMONE 2006 and SCARABINO & MANSUR 2007 ...

The exposed systematic order, simplified, accompanies the one of the authors basically previously referred, mainly THOMÉ et al (2006: 46):



**Fig. 1:** Geographical localization of Santa Catarina State (red area) in the Southern region of Brazil.

Class GASTROPODA

(135 species, 74 genus, 32 families)

SubClass PROSOBRANCHIA

(16 species, 10 genus, 5 families)

Family AMPULLARIIDAE Gray, 1824

(6 species, 3 genus)

*Asolene (Pomella) megastoma*  
(Sowerby, 1825)

*Felipponea iheringi* (Pilsbry, 1983)

*Pomacea bridgesii* (Reeve, 1856) (Fig. 2)



**Fig. 2:** Freshwater “Apple Snail” *Pomacea bridgesii* (Reeve, 1856) of Santa Catarina State and your typical posture (behind) (Photo: Agudo-Padrón).

*Pomacea canaliculata* (Lamarck, 1819)

*Pomacea paludosa* (Say, 1829)

*Pomacea sordida* (Swainson, 1822)

Family HELICINIDAE Gray, 1842

(3 species, 3 genus)

*Helicina brasiliensis* Gray, 1824

*Helicina* cf. *angulifera* Wagner, 1910

*Oxyrhombus densestriatus* Wagner, 1910

*Alcadia iheringi* Wagner, 1910

Family DIPLOMMATINIDAE Pfeiffer, 1856

(1 species, 1 genus)

*Adelopoma paraguayana* Parodiz, 1944

Family HYDROBIIDAE Troschel, 1857

(4 species, 2 genus)

*Littoridina (= Heleobia) piscium (= australis)*  
(d’Orbigny, 1835)

*Littoridina charruana* d’Orbigny, 1843

*Potamolithus catharinae* Pilsbry, 1911

*Potamolithus philippianus* Pilsbry, 1911

Family THIARIDAE Gill, 1871 (1 species, 1 genus)

*Melanoides tuberculatus* (Müller, 1774)

SubClass GYMNOPHILA

(9 species, 4 genus, 1 family)

Family VERONICELLIDAE Gray, 1840

(9 species, 4 genus)

*Belocaulis angustipes* (Heynemann, 1885)

*Phyllocaulis boraceiensis* Thomé, 1976

*Phyllocaulis soleiformis* (d’Orbigny, 1835)

*Phyllocaulis tuberculatus* (Martens, 1868)

*Phyllocaulis variegatus* (Semper, 1885)

*Sarasinula dubia* (Semper, 1885) Thomé, 1972

*Sarasinula linguaeformis* (Semper, 1885)

Thomé, 1972 (Fig. 3)

*Sarasinula plebeia* (Fischer, 1868) (Fig. 3)



**Fig. 3:** Native terrestrial slugs *Sarasinula linguaeformis* (Semper, 1885) (Top) and *Sarasinula plebeia* (Fischer, 1868) (Bottom), agricultural pests in Santa Catarina State (Photos: Agudo-Padrón).

*Vaginulus taunayi* Férussac, 1821

#### SubClass PULMONATA

(110 species, 59 genus, 26 families)



**Fig. 4:** Representative pulmonate gastropods of Santa Catarina State: terrestrial megasnails *Megalobulimus oblongus* Müller, 1775 (Upper), Aquatic/Limnic snails *Biomphalaria tenagophila* (d'Orbigny, 1835) (Down), and Tree snail *Cyclodontina catharinae* (Pfeiffer, 1856) (Center) (Photo: Agudo-Padrón).

#### Família SUCCINEIDAE Beck, 1837

(2 species, 2 genus)

*Omalonyx convexa* (Martens, 1868)

*Succinea meridionalis* d'Orbigny, 1846

#### Family ANCYLIDAE Rafinesque, 1815

(2 species, 2 genus)

*Burnupia ingae* Lanzer, 1991

*Ferrissia gentilis* Lanzer, 1991(2)

#### Family CHILINIDAE Gray, 1828

(3 species, 1 genus)

*Chilina fluminea* (d'Orbigny, 1835)

*Chilina globosa* Frauenfeld, 1881

*Chilina parva* Martens, 1868

#### Family ELLOBIIDAE Muhlefeld, 1816

(2 species, 2 genus)

*Melampus coffeus* (Linnaeus, 1758)

*Pedipes mirabilis* (Mohlfeld, 1816)

#### Family PHYSIDAE Fitzinger, 1833

(2 species, 2 genus)

*Physa acuta* (= *cubensis*) Draparnaud, 1805

*Aplexa* (*Stenophysa*) *marmorata*

Guilting, 1828

#### Family LYMNAEIDAE Rafinesque, 1815

(3 species, 1 genus)

*Lymnaea* (= *Pseudosuccicnea*) *columella*  
Say, 1817

*Lymnaea rupestris* Paraense, 1982

*Lymnaea viatrix* d'Orbigny, 1835

#### Family PLANORBIDAE Rafinesque, 1815

(10 species, 4 genus)

*Biomphalaria glabrata* (Say, 1818)

*Biomphalaria occidentalis* Paraense, 1981

*Biomphalaria oligoza* Paraense, 1981

*Biomphalaria peregrina* (d'Orbigny, 1835)

*Biomphalaria schrammi* (Crosse, 1864)

*Biomphalaria straminea* (Dunker, 1848)

*Biomphalaria tenagophila* (d'Orbigny, 1835)

(Fig. 5)



**Fig. 5:** Aquatic snails *Biomphalaria tenagophila* (d'Orbigny, 1835) in your limnic habitat in Santa Catarina State (Photo: Agudo-Padrón).

*Acorbis petricola* Odhner, 1937  
*Drepanotrema cimex* (Moricand, 1838)  
*Drepanotrema pfeifferi* (Strobel, 1874)

Family SUBULINIDAE Thiele, 1931

(7 species, 5 genus)

*Subulina octona* Bruguière, 1972  
*Lamellaxis gracilis* Hutton, 1834  
*Allopeas* (= *Lamellaxis*) *micra*  
 (d'Orbigny, 1835)  
*Leptinaria concentrica* (Reeve, 1849)  
*Leptinaria monodon* (C. B. Adams, 1849)  
*Leptinaria unilamellata* (d'Orbigny, 1835)  
*Rumina decollata* Linnaeus, 1758

Family PHILOMYCIDAE Keferstein, 1866

(1 species, 1 genus)

*Pallifera* sp (\*)  
 (\*)Species in process of systematical specific  
 determination (Thomé et al 2006: 64)

Family LIMACIDAE Gray, 1824

(2 species, 2 genus)

*Limacus flavus* (Linnaeus, 1758)  
*Limax maximus* (Linnaeus, 1758)

Family AGRIOLIMACIDAE Wagner, 1935

(1 species, 1 genus)

*Deroceras* (= *Agriolimax*) *laeve* (= *laevis*)  
 (Müller, 1774)

Family ACHATINIDAE Swainson, 1840

(1 species, 1 genus)

*Lissachatina* (= *Achatina*) *fulica* (Bowdich,  
 1822) (Fig. 6)



**Fig. 6:** Invasive terrestrial giant african snails *Lissachatina fulica* (Bowdich, 1822), agricultural pest in Santa Catarina State (Photos: Agudo-Padrón).

Family BULIMULIDAE Tryon, 1896

(15 species, 7 genus)

*Bulimulus angustus* Weyrauch, 1966  
*Bulimulus tenuissimus* (d'Orbigny, 1935)  
*Bulimulus turritellatus* Beck, 1837  
*Drymaeus acervatus* Pilsbry, 1895  
*Drymaeus henselii* (Martens, 1868)  
*Drymaeus magus* Wagner, 1827  
*Drymaeus papyraceus papyraceus* (Mawe,  
 1823) (Fig. 7)



**Fig. 7:** Native tree snails *Drymaeus papyraceus papyraceus* (Mawe, 1823) of Santa Catarina State (Photos: Agudo-Padrón).

*Mesembrinus interpunctus* (Martens, 1887)  
*Naesiotus eudioptus* (Ihering in Pilsbry, 1897)  
*Protoglyptus dejectus* (Fulton, 1907)  
*Rhinus obeliscus* Haas, 1936  
*Thaumastus hebes* (Strebel, 1910)  
*Thaumastus largillierti* (Phillippi, 1845)  
*Thaumastus* (?) *sellovii* (King, 1831) n. comb.  
*Thaumastus taunaisii* (Férussac, 1821)

Family AMPHIBULIMIDAE Crosse & Fischer, 1873  
 (6 species, 2 genus)

*Simpulopsis (Eudioptus) araujoii* Breure, 1975  
*Simpulopsis (Simpulopsis) pseudosulculosa*  
 Breure, 1975  
*Simpulopsis (Simpulopsis) sulculosa*  
 Férussac, 1819  
*Simpulopsis (Simpulopsis) wiebesi*  
 Breure, 1975  
*Simpulopsis decussata* Pfeiffer, 1856  
*Eudioptus citrinovitreus* (Moricand, 1836)

Family MEGALOBULIMIDAE Leme, 1973

(11 species, 1 genus)

*Megalobulimus grandis* (von Martens, 1798)  
*Megalobulimus granulatus* (Rang, 1831)  
*Megalobulimus gummatum* Hidalgo, 1870

*Megalobulimus haemastomus* (Scopoli, 1786)  
*Megalobulimus proclivis* (Martens, 1888)  
*Megalobulimus ovatus* (Müller, 1774)  
*Megalobulimus toriis* Morretes, 1937  
*Megalobulimus (= Psiloicus) oblongus*  
 Müller, 1775 (Fig. 8)



**Fig. 8:** Native terrestrial megasnail *Megalobulimus oblongus* Müller, 1775 of Santa Catarina State, with posture (Top) and “calf” (Bottom) (Photos: Agudo-Padrón).

*Megalobulimus (= Psiloicus) oblongus*  
*elongatus* Bequaert, 1948  
*Megalobulimus (= Psiloicus) oblongus*  
*musculus* (Bequaert, 1948)  
*Megalobulimus terrestris* (Spix, 1827)

Family STROPHOCHEILIDAE Thiele, 1926

(6 species, 3 genus)

*Mirinaba fusoides* (Bequaert, 1948)  
*Strophocheilus (= Mirinaba) erythrosoma*  
 (Pilsbry, 1895)  
*Strophocheilus (= Mirinaba) planidens*  
 Michelin, 1831  
*Strophocheilus (= Mirinaba) pudicus*  
 Müller, 1774  
*Strophocheilus (= Mirinaba) unidentatus*  
 (Sowerby, 1825)

*Gonyostomus turnix* Gold, 1846

Family ODONTOSTOMIDAE Pilsbry & Vanatta, 1898  
(11 species, 5 genus)

*Cyclodontina* (= *Odontostomus*) *catharinae*  
(Pfeiffer, 1856) (Fig. 9)



**Fig. 9:** Tree snail *Cyclodontina catharinae* (Pfeiffer, 1856) in your forest habitat in Santa Catarina State (Photo: Agudo-Padrón).

*Odontostomus* (= *Cyclodontina* / *Bahiensis*)  
*punctatissimus* (Lesson, 1830)

*Odontostomus* (= *Bahiensis*) *reevei*  
(Deshayes, 1851)

*Odontostomus* (= *Cyclodontina* / *Bahiensis*)  
*tudiculatus* (Martens, 1868)

*Cyclodontina fusiformis* (Menke, 1828)

*Bahiensis occultus* (Reeve, 1849)

*Macrodontes grayanus* (Pfeiffer, 1845)

*Macrodontes gargantua* (Férussac, 1821)

*Macrodontes* (= *Odontostomus*) *fasciatus*  
(Pfeiffer, 1869)

*Odontostomus* (= *Macrodontes*) *odontostomus*  
(Sowerby, 163)

*Moricandia parallela* (Pfeiffer, 1857)

Family BRADYBAENIDAE Pilsbry, 1934  
(1 species, 1 genus)

*Bradybaena similaris* (Férussac, 1821)

Family STREPTAXIDAE Gray, 1806  
(6 species, 3 genus)

*Streptaxis contusus* (Férussac, 1821)

*Streptaxis cypsele* (Pfeiffer, 1849)

*Streptaxis iheringi* Thiele, 1927

*Rectartemon* (= *Artemon*) *mülleri*  
(Thiele, 1927)

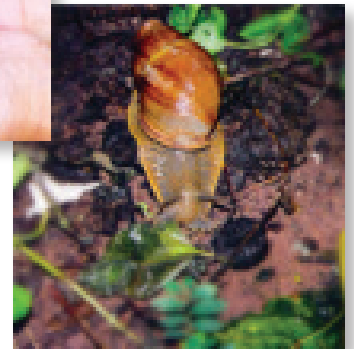
*Rectartemon candidus* (Wagner, 1827)

*Rectartemon depressus* (Hyneman, 1868)

Family HELICIDAE Rafinesque, 1820

(1 species, 1 genus)

*Helix* (*Cornu*) *aspersa* (Müller, 1774) (Fig. 10)



**Fig. 10:** Encounter of two worlds: european terrestrial snails *Helix aspersa* (Müller, 1774) (Top) and native terrestrial megasnail *Megalobulimus oblongus* Müller, 1775 (Bottom), edible species of Santa Catarina State (Photos: Agudo-Padrón).

Family SYSTROPHIIDAE Thiele, 1927

(7 species, 4 genus)

*Entodina gionensis* Morretes, 1940

*Prohappia* (= *Happia*) *besckei* (Dunker, 1847)

*Happia insularis* (Boettger, 1889)  
*Happia microdiscus* Thiele, 1927  
*Happia vitrina mülleri* Thiele, 1927  
*Happia vitrina* (Wagner, 1827)  
*Miradiscops brasiliensis* (Thiele, 1927)

Family CHAROPIDAE Hutton, 1884

(6 species, 4 genus)

*Radiodiscus bolachaensis* Fonseca &  
 Thomé, 1994  
*Radiodiscus costellifer* Scott, 1957  
*Radiodiscus goeldii* (Thiele, 1927)  
*Zilchogyra clara* (Thiele, 1927)  
*Lilloiconcha gordurasensis* (Thiele, 1927)  
*Rotadiscus schuppi* (Suter, 1900)

Family EUCONULIDAE Baker, 1928

(2 species, 2 genus)

*Habroconus* (= *Euconulus*) *martinezi*  
 (Hidalgo, 1869)  
*Habroconus* (= *Pseudoguppya*) *semenlini*  
 (Moricand, 1846)

Família ZONITIDAE Mörch, 1864

(1 species, 1 genus)

*Oxychilus nitidus* (Müller, 1774)

Family HELMINTHOGLYPTIDAE Pilsbry, 1939

(1 species, 1 genus)

*Epiphragmophora semiclausa* (Martens, 1868)

Classe BIVALVIA

(23 species, 9 genus, 4 families)

Ordem UNIONOIDA

Freshwater Mussels / Naiads

(15 species, 6 genus, 2 families)

Family MYCETOPODIDAE Gray, 1840

(9 species, 4 genus)

*Mycetopoda legumen* (Martens, 1888)  
*Mycetopoda siliquosa* Spix, 1827  
*Anodontites tenebricosus* (Lea, 1834)  
 (Figure 11)



**Fig. 11:** Native freshwater mussel naiad *Anodontites tenebricosus* (Lea, 1834) of Santa Catarina State (Photo: Agudo-Padrón).

*Anodontites ferrarisi* (d'Orbigny, 1835)  
*Anodontites patagonicus* (Lamarck, 1819)  
*Anodontites obtusus* (Spix, 1927)  
*Anodontites trapesialis* (Lamarck, 1819)  
 (Fig. 12)



**Fig. 12:** Shells of the giant native freshwater mussel naiad *Anodontites trapesialis* (Lamarck, 1819) of Santa Catarina State (Photos: Agudo-Padrón).

*Leila blainvilleana* (Lea, 1834)  
*Monocondylaea minuana* d'Orbigny, 1835

## Family HYRIIDAE Swainson, 1840

(6 species, 2 genus)

- Rhipidodonta charruana* (d'Orbigny, 1835)  
*Diplodon ellipticus* (Wagner in Spix, 1827)  
*Diplodon expansus* (Küster, 1856)  
*Diplodon multistriatus* (Lea, 1834)  
*Diplodon delodontus* (Lamarck, 1819)  
*Diplodon rhuacoicus* (d'Orbigny, 1835)

## Ordem VENEROIDA

## Freshwater Clams

(8 species, 3 genus, 2 families)

## Family CORBICULIDAE Gray, 1847

(2 species, 1 genus)

- Corbicula fluminea* (Müller, 1774)  
*Corbicula largillierti* (Philippi, 1844) (Fig. 13)



**Fig. 13:** Invasive freshwater asian clam *Corbicula largillierti* (Philippi, 1844) of Santa Catarina State (Photos: Agudo-Padrón).

## Family SPHAERIIDAE Deshayes, 1854

(6 species, 2 genus)

- Eupera klappenbachi* Mansur &  
 Veitenheimer-Mendes, 1975

*Eupera platensis* Doello-Jurado, 1921*Pisidium globulus* Clessin, 1888*Pisidium* (= *Sphaerium*) *observationis*  
(Pilsbry, 1911)*Pisidium pipoense* (Ituarte, 2000)*Pisidium taraguayense* (Ituarte, 2000)

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