

Thirteen new records to inventory of marine mollusc species from Santa Catarina State, Central Southern Brazil

A. Ignacio Agudo-Padrón

Project “Avulsos Malacológicos - AM”, Caixa Postal 010, CEP 88010-970, Florianópolis, SC, Brazil. E-mail: ignacioagudo@gmail.com.
<http://noticias-malacologicas-am.webnode.pt>

Abstract. Based in reliable bibliographical technical reports of recent production, a new total of thirteen marine mollusc forms (eleventh gastropods - sea slugs, and two bivalves) are added and incorporated to the previous systematic malacological inventory of Santa Catarina's State-SC, Central Southern Brazil Region, the species *Pleurobranchus testudinarius* Cantraine, 1835, *Cuthona* cf. *iris* Edmunds & Just, 1983, *Flabellina* cf. *marcosorum* Gosliner & Kuzirian, 1990, *Dondice occidentalis* Engel, 1925, *Phidiana lynceus* Bergh, 1867, *Tyrinna* (= *Okenia*) *evelinae* (Marcus, 1958), *Felimida* (= *Hypselodoris*) *marci* (Marcus, 1971), *Tambja* sp, *Roboastra* sp, *Glaucus atlanticus* Foster, 1777, *Bursatella leachi* Blainville, 1817, *Eurytellina angrensis* Marques & Simone, 2014, and *Crassostrea mangle* Amaral & Simone, 2014, included in thirteen genera and eleventh families, raise the state record for 667 species and subspecies regionally known (11 Polyplacophora, 408 Gastropoda, 10 Scaphopoda, 228 Bivalvia, and 10 Cephalopoda).

Keywords: Marine molluscs, Santa Catarina State, Species inventory.

The coastal plain of the State of Santa Catarina - SC (Lindner, 2014), 25° 57' 41" S - 29° 23' 55" S, having a length of 580 km of meandering and diverse mainland and island coast, is located on a large “transition zone”, still subject to technical discussions because of the complexity of its nuances and dynamic oceanographic, result of “convergence” between two major ocean currents: “Brazil”, hot to the North, and “Falkland or Malvinas”, cold to the South, apparently the section of the coast of Brazil between “Rio de Janeiro - RJ” and “Santa Catarina - SC” regions functions as an “ecological filter”, preventing the dispersal of species, they are thermophilic - typical of the marine zoogeographical Caribbean Province - or cryophilic - typical of the Patagonian

Marine Zoogeographical Province (Agudo-Padrón and Bleicker, 2014).

Sensibly, this condition determines in the local environment a sensitive, diverse and heterogeneous biotic faunal composition, whose characteristics are to have a high potential on the contemporary practice of marine malacoculture (Agudo-Padrón and Bleicker, 2009) as well as incentive for the development of accurate research on the marine biotic diversity occurring in it (Agudo-Padrón, 2012). Due to this and for obvious zoogeographic reasons, the occurrence of species such as the gastropod sea slug *Tritonia eriosi* (Ev. Marcus, 1983) (Nudibranchia, Dendronotina, Tritoniidae) should be confirmed in the near future.

Continuing the work of regional survey, the present contribution

Received
July 27, 2014

Accepted
August 18, 2014

Released
December 31, 2014



Open Access
Full Text Article

incorporates in this opportunity the record of further thirteen forms to previous systematic inventories of known marine molluscs of the Santa Catarina's State (SC), the Geographical Central Portion of Southern Brazil Region (Agudo-Padrón and Bleicker, 2014), included in thirteen genera and eleventh families, raise the state record for 667 species and subspecies regionally known (11 Polyplacophora, 408 Gastropoda, 10 Scaphopoda, 228 Bivalvia, and 10 Cephalopoda).

Paradoxically, the literature of recent production (Cunha et al., 2014) unexpectedly speculates that only about 550 species occur on the coast of Santa Catarina State, fact that only reflects the profound regional collective unfamiliarity that still prevails around the subject, when earlier contributions already published outweigh said numerical estimate (Agudo-Padrón et al., 2009).

The taxonomic arrangement basically continues accompanying the original proposal contained in Agudo-Padrón and Bleicker (2014), based on the monographic contributions of Garcia et al. (2008) and Rios (2009), beyond to Souza et al. (2011).

CLASS GASTROPODA Cuvier, 1787

SUBCLASS OPISTHOBRANCHIA

Milne Edwards, 1848

ORDER NOTASPIDEA P. Fischer, 1883

GROUP PLEUROBRANCHACEA Férussac, 1822

Family Pleurobranchidae J. E. Gray, 1827

Pleurobranchus testudinarius
Cantraine, 1835

Santa Catarina (SC) (Cunha et al., 2014: 47-Photo).

ORDER ANASPIDEA P. Fischer, 1883

Family Aplysiidae Lamarck, 1809

Bursatella leachi Blainville, 1817

Santa Catarina (SC) (Cunha et al., 2014: 50-Photo). Species previously expected in the State by zoogeographic reasons (Agudo-Padrón and Bleicker, 2014).

ORDER NUDIBRANCHIA Blainville, 1814

SUBORDER DORIDINA Odhner, 1934

Family Policeridae Alder & Hancock, 1845

Tambja sp

Santa Catarina (SC) (Cunha et al., 2014: 49-Photo).

Roboastra sp

Santa Catarina (SC) (Cunha et al., 2014: 49-Photo).

Family Chromodorididae Bergh, 1891

Felimida (= *Hypselodoris*) *marci*
(Marcus, 1971)

Santa Catarina (SC) (Cunha et al., 2014: 49-Photo).

Tyrinna (= *Okenia*) *evelinae*
(Marcus, 1958)

Santa Catarina (SC) (Cunha et al., 2014: 49-Photo).

Family Flabellinidae Bergh, 1889

Flabellina cf. *marcorum*
Gosliner & Kuzirian, 1990

Santa Catarina (SC) (Cunha et al., 2014: 48-Photo).

Family Facelinidae Bergh, 1889

Phidiana lynceus Bergh, 1867

Santa Catarina (SC) (Cunha et al., 2014: 48-Photo).

Dondice occidentalis Engel, 1925

Santa Catarina (SC) (Cunha et al., 2014: 48-Photo).

Family Glaucidae Gray, 1827

Glaucus atlanticus Foster, 1777

Florianópolis Beach, Santa Catarina Island, SC (Cunha et al., 2014: 50-Photo). Species previously expected in the State by zoogeographic reasons (Agudo-Padrón and Bleicker 2014: 14).

Family Tergipedidae Bergh, 1889

Cuthona cf. *iris* Edmunds & Just, 1983

Santa Catarina (SC) (Cunha et al., 2014: 47-Photo).

CLASS BIVALVIA Linnaeus, 1758
 SUBCLASS PTERIOMORPHIA
 Beurlen, 1944
 ORDER OSTREOIDA Waller, 1978
 Family Ostreidae Rafinesque, 1815
Crassostrea mangle Amaral &
 Simone, 2014
 Porto Belo (North Point of the Porto Belo
 Beach), Santa Catarina (SC) (MZSP 36319)
 (Amaral and Simone, 2014).

SUBCLASS HETERODONTA
 Neumayr, 1884
 ORDER VENEROIDA H. & A.
 Adams, 1850
 Family Tellinidae Blainville, 1814
Eurytellina angrensis Marques &
 Simone, 2014
 Porto Belo, Santa Catarina (SC) (MZSP
 108179), Marques and Simone (2014).

Abbreviations: MZSP - Malacological
 Collection of Museu de Zoologia da
 Universidade de São Paulo, São Paulo/SP,
 Brazil.

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