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Zulma Ageitos de Castellanos: Publications and status of described taxa

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Abstract

Zulma Ageitos de Castellanos was an Argentinian malacologist working in the “Facultad de Ciencias Naturales y Museo” at La Plata University where she taught invertebrate zoology between 1947 and 1990. Her scientific publications are listed in chronological order. Described genus-group and species-group taxa are listed. Information about the type locality and type material, and taxonomic remarks are also provided. Finally, type material of all described taxa was requested and, when located, illustrated.

Key words: Malacology, Taxonomy, Argentina, Mollusca

Introduction

Zulma Ageitos de Castellanos (April 6, 1922–August 29, 2010). Zulma Judith Ageitos de Castellanos was born in San Antonio de Areco, Buenos Aires Province, Argentina. She was the daughter of José María Ageitos and Leonor Deban. She spent her childhood in her hometown but the family later moved to La Plata city.

In 1947 she earned a Ph.D. in Natural Sciences after studying the nervous system of some Argentine mollusks under the aegis of Professor Raul Ringuelet. She taught at the Facultad de Ciencias Naturales y Museo, La Plata University, first as a teaching assistant and later Professor of Invertebrate Zoology between 1947 and 1990.

During the years she was involved in teaching she also contributed to enriching malacological collections, mainly in the Museo de La Plata (MLP) but also in the Museo Argentino de Ciencias Naturales (MACN). These two are the main Argentinean collections housing material studied by Argentinean and foreign naturalists, such as Carlos and Florentino Ameghino, Francisco P. Moreno, Carlos Burmeister, Irene Bernasconi, Alberto Carcelles, Egidio Feruglio, Joaquin Frenguelli, Juan Jose Parodiz, among others. The MLP-Ma collection is the result of extensive fieldwork and oceanographic expeditions in the Argentine Sea (e.g., *Shinkai Maru* and *SAO 1971*). It contains almost 13,000 lots of mollusks, including 511 type specimens. The invertebrate collection at the MACN has existed since the early days of the Museum. It was greatly expanded during the term of Burmeister as Director (1862), who secured donations of over five hundred species of mollusks from different regions of the world. The *Invertebrate Section* of the MACN (as later called during the Angel Gallardo administration) was curated by Martín Doello-Jurado during the first half of the twentieth century. He went on several field expeditions along the Argentine coast collecting a considerable number of specimens. The importance of the MACN-In collection in a regional context is reflected in the 39,000 lots deposited in the institution including over 450,000 specimens.

Zulma Ageitos de Castellanos supervised 21 doctoral theses and published 80 scientific articles, 17 reports, eight book chapters and four books, all in Spanish. Although her family name was Ageitos, in all publications she used her husband’s last name, i.e. Castellanos. She described 44 new species and three genera including the commercial squid species *Illex argentinus*, described in 1960. For many years, Zulma Ageitos de Castellanos edited the journal *Neotrópica* and the serial monograph *Fauna de Agua Dulce de la República Argentina*. She passed away in La Plata city on Sunday, August, 29, 2010 at the age of 87.

This work is focused on clarifying the current status of taxa described by her and collaborators. In addition, the type material is illustrated and type localities and repository reported.

Scientific publications. The scientific work of Zulma Ageitos de Castellanos is listed chronologically. Scientific articles, book chapters, books and government reports are included in this section.

Taxa lists. This catalogue lists all published genus-group and species-group names described by Zulma Ageitos de Castellanos.

Arrangement of the taxa. The genus-group names are listed alphabetically. In this section type species and method of designation are given. The species-group names are listed alphabetically in their original combination followed, when appropriate, by the current taxonomic combination between brackets. Currently valid species are highlighted in boldface. However, no taxonomic revisions of described species were undertaken. Homonyms and replacement names of species-group names are explained, when appropriate, in the Remarks section of each species.

Type locality. The type locality of each described species is given following the location cited by the author in the original description without translation. If additional localities of paratypes or examined material were mentioned in the original description, they were dealt with in the type material section.

Type material. Repository and catalogue number for type material described by Castellanos (if known) are provided after type locality section. Number of specimens, status of types and additional information is included in this section. In several cases the author did not specify any repository or catalogue number. Most descriptions were based on one or several specimens and these probably are the holotype and paratypes. Further revision may suggest designating lectotypes, but in the meantime we consider the type material as syntypes, if no contrary evidence is available. The information provided was directly drawn from examination of the MACN-in and MLP-Ma collections and comparisons with the original description for each species-group name. Although this publication is not intended to be a taxonomic revision, all available type material was tracked and examined and its purpose is to be a foundation for further studies on the material and taxa involved.

Taxonomic remarks. This section provides information related to the current status of each species described by Castellanos. Taxonomic references involving species-group names described by Castellanos are mentioned when relevant.

The following acronyms have been referred to in the catalogue

MACN	In. Museo Argentino de Ciencias Naturales “Bernardino Rivadavia,” Buenos Aires.
MLP	Ma. Museo de La Plata.
MNCN	Museo Nacional de Historia Natural, Madrid, Spain.

Scientific Publications (in chronological order)

- 1948a—Castellanos, Z.J.A. de. Estudio anatómico sobre *Mesodesma mactroides* Desh (Almeja amarilla). *Publicaciones técnicas – DAGI*, 5 (1), 1–49.
- 1948b—Castellanos, Z.J.A. de. Sobre seis especies de poliplacóforos argentinos. *Notas del Museo de La Plata, sección Zoología*, 13 (110), 192–202.
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- 1951—Castellanos, Z.J.A. de. Poliplacóforos del Museo Argentino de Ciencias Naturales. *Comunicaciones del Instituto Nacional de Investigación de las Ciencias Naturales anexo al Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”*, 1 (16), 1–31.
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- 1953b—Castellanos, Z.J.A. de. Los quitones del museo de la ciudad Eva Perón. *Notas del Museo de la ciudad Eva Perón, sección Zoología*, 16 (138), 173–204.
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- 1960c—Castellanos, Z.J.A. de. Una nueva especie de calamar argentino *Ommastrephes argentinus* sp. nov. (Mollusca, Cephalopoda). *Neotrópica*, 6 (20), 55–58.
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Genus–group names

- Bidentata* Castellanos, 1982c: 84, fig. 19. Type species: *Odostomia nova* Castellanos, 1982c, 84, by original designation.
- Lisosavatieria* Castellanos & Fernández, 1975a: 60, Type species: *Savatieria (Lisosavatieria) deseadense* Castellanos & Fernández, 1975a: 60, figs. 1–4, by original designation.
- Neocalliostoma* Castellanos & Fernández, 1976b: 146, Type species: *Calliostoma militaris* Ihering, 1907: 438, pl. 17, fig. 116, by original designation.

Species–group names

Acteon elongatus Castellanos, Rolán & Bartolotta, 1987b: 100 (Figure 1A–B)

Type locality. 50°29'S, 59°29'W, 152 m depth, San Jorge Gulf, Santa Cruz Province, Argentina.

Type material. Holotype and paratype deposited at MLP-Ma collection under the same number (MLP-Ma 4691). They were collected by the RV *Shinkai Maru*. Five additional specimens collected by the trawler *Puente Gondomar* were mentioned as hypotypical and deposited at MNCN 15.05/1060 and in the personal collection of E. Rolán.

Remarks. *Acteon elongatus* had been introduced previously by James de Carle Sowerby (1824: 88, pl. 460, fig. 3) for a fossil from Barton, United Kingdom. This species was placed into the genus *Tornatella* Lamarck, 1816 by Fleming (1828) and Deshayes (1835). However, other authors consider *Acteon* Montfort, 1810 a senior synonym of *Tornatella* (Gofas *et al.* 2001, Vaught 1989). Within this context, whether Castellanos *et al.* (1987b) introduced a primary homonym (ICZN, 1999, art. 57.2) is currently unresolved.

Anachis cancellata Castellanos, 1979b: 91–93, figs. 6 [currently *Amphissa cancellata* (Castellanos, 1979b)] (Figure 1C–D)

Type locality. 35°14'S, 52°W, collected by the RV *Austral* off Rio de la Plata estuary.

Type material. Catalogue number and repository were not specified in the original description. The author mentioned type and other specimens with no precision. Two lots were found at MLP-Ma, labeled as type (MLP-Ma 4683), and 11 paratypes (MLP-Ma 13774), collected by P. Penchaszadeh from Bahía Blanca (Buenos Aires Province, Argentina). However, they do not belong to the type series because the localities are different. The type material is probably lost.

Remarks. *Columbella cancellata* Gaskoin, 1851 is currently placed in the genus *Anachis*. On the other hand, the species described by Castellanos is placed in *Amphissa* (Rios, 2009, Bouchet & Monsecour, 2015). Thus the secondary homonym should not be replaced as the two species are not congeneric (ICZN, 1999, art. 59.2). The type material was previously assigned to *Pyrene agnesia* (Strebel, 1905) by Fernández & Castellanos (1973d). However, after the examination of new material from the Magellan Strait and Puerto Deseado, Castellanos considered the type material to be a new species.

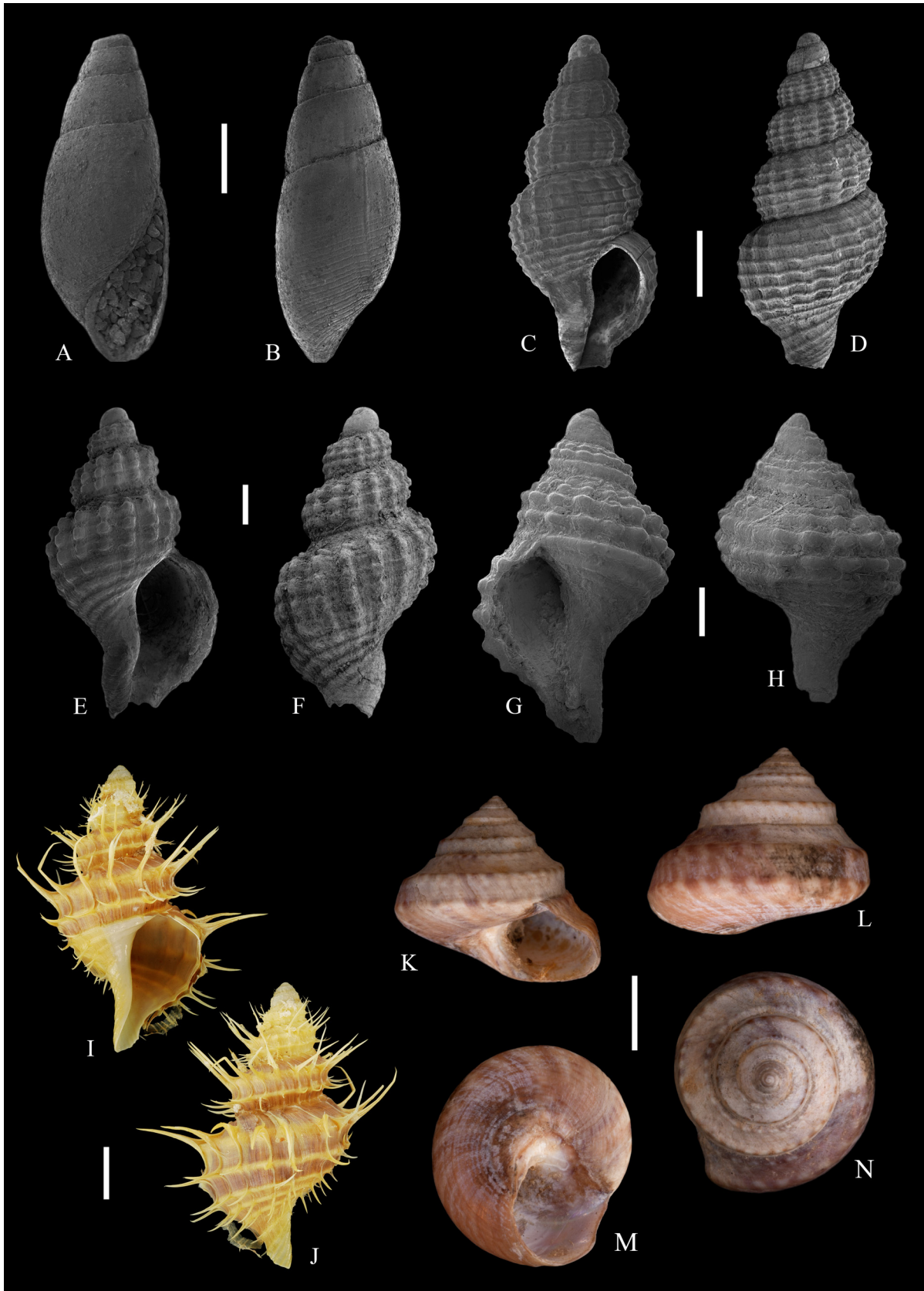


FIGURE 1. A–B. *Acteon elongatus* Castellanos, Rolán & Bartolotta, 1987, paratype MLP-Ma 4691, scale bar = 1 mm. C–D. *Anachis cancellata* Castellanos, 1979, MLP-Ma 4683, scale bar = 1 mm. E–F. *Anomacme multituberculata* Castellanos, Rolán & Bartolotta, 1987, holotype MLP-Ma 4689, scale bar = 500 μ m. G–H. *Antistreptus rolani* Castellanos, 1985, MLP-Ma 4692, scale bar = 500 μ m. I–J. *Bathydromus longisetosus* Castellanos & Fernández, 1972, paratype MLP-Ma 10969, scale bar = 1 cm. K–N. *Calliostoma coppingeri major* Castellanos & Fernández, 1976, syntype MLP-Ma 11026, scale bar = 400 μ m.

Anomacme multituberculata Castellanos, Rolán & Bartolotta, 1987b: 98–99, pl. 1, fig. 8; pl. 2, fig. 5 [currently *Meteuthria multituberculata* (Castellanos, Rolán & Bartolotta, 1987b)] (Figure 1E–F)

Type locality. 46°S, 60°W, 220 miles off San Jorge Gulf, 600 m depth, collected by the trawler *Puente Gondomar*.

Type material. Holotype, MLP-Ma 4689, two paratypes, MNCN 15.05/1061 and two additional paratypes in the personal collection of E. Rolán. Standard measurements (length, width and apertural length) of the type series were reported in the original description.

Remarks. This species was placed in *Meteuthria* by Dell (1990) based on examination of the radula. In addition, Dell (1990) described a new subspecies *M. multituberculata rossiana* from the Ross Sea in Antarctica.

Antistreptus rolani Castellanos, 1985: 132 (Figure 1G–H)

Type locality. 37°35'S, 56°25'W [off Buenos Aires province, Argentina], collected by the RV *Undine*.

Type material. The material collected by the RV *Undine* is mentioned as the holotype. Additional material collected by the trawler *Puente Gondomar* and the RV *Shinkai Maru* is cited in the original description. However, no repository or catalogue numbers were given. The material (MLP-Ma 4692) collected by the RV *Shinkai Maru*, cited as syntypes by Martín & César (2004) was checked. However, the holotype could not be identified.

Bathynomus longisetosus Castellanos & Fernández, 1972b: 81–86 [currently *Americominella longisetosus* Castellanos & Fernández, 1972b] (Figure 1I–J)

Type locality. Walter Herwig Expedition Sta. 191, 46°5'S, 59°54'W [off San Jorge gulf, Argentinean shelf], 800 m depth. Additional paratypes from sta. 248, 53°53'S, 59°42'W, 150 m depth, and sta. 290, 51°S, 62°10'W, 200 m depth.

Type material. Holotype, MLP-Ma 10967 (dry specimen); three paratypes, MLP-Ma 10966, 10968 and 10969. Two radula preparations, labeled as types were confirmed in the MLP-Ma collection.

Remarks. *Americominella duartei* and *Bathynomus longisetosus* were described by Klappenbach & Ureta (1972), and Castellanos & Fernández (1972b) respectively. The publication date of both papers is December 31, 1972, following the provisions of ICZN (1999) art. 21.3.2. Castellanos & Fernández (1972c) declared the species synonymous and considered *longisetosus* as senior. Within this context, Castellanos & Fernández (1972c), acting as the first revisers (ICZN, 1999, art. 24.2.2), resolved this nomenclatural problem. Figueiras & Sicardi (1980: 214) were not the first revisers and thus their statement considering *Americominella duartei* as valid is incorrect.

Calliostoma coppingeri major Castellanos & Fernández, 1976b: 144–145, pl. 3, figs. 1–4 [currently *Calliostoma coppingeri* (E.A. Smith, 1880)] (Figure 1K–N)

Type locality. 41°02'S, 64°02'W, San Matías Gulf, Río Negro Province, Argentina.

Type material. Only four syntypes were found in MLP-Ma 11026 despite the five originally cited by the authors. These specimens were mentioned by Martín & César (2004).

Remarks. Castellanos & Fernández (1976b) described this subspecies based on material collected in San Matías Gulf. They distinguished the new subspecies by the larger size of the shell and the presence of a single row of granules forming a belt above the suture, highlighting that Smith's species has two rows of granules. The taxonomic status of this taxon is not clear. Rios (2009) and Rosenberg (2009) consider the two species as synonyms.

Cerithiella (Stilus) axicostulata Castellanos, Rolán & Bartolotta, 1987b: 94–95, pl. 1, figs. 6–6a; pl. 2, fig. 2 [currently *Eumetula axicostulata* (Castellanos, Rolán & Bartolotta, 1987)] (Figure 2A–B)

Type locality. 46°S, 60°W, 600 m depth, 220 miles off San Jorge Gulf, Santa Cruz Province, Argentina.

Type material. Holotype, MLP-Ma 4685; one paratype MNCN 15.05/1058.

Remarks. Fernandes *et al.* (2015) revised this species and relocated it to the genus *Eumetula*.

Chilina fluminea tucumanensis Castellanos & Miquel, 1980b: 172, Figs. 1–2, 5 [currently *Chilina tucumanensis* Castellanos & Miquel, 1980b] (Figure 2C–D)

Type locality. Cochuna River, Tucumán Province, Argentina.

Type material. Holotype (MACN-In 9927) and three paratypes (MACN-In 9927-1) collected by M. Doello Jurado in 1917. Two additional paratypes, included in the original description (MLP-Ma 4042) were not found.

Remarks. The taxonomic status of *C. tucumanensis* was revised by Ovando & Gutierrez Gregoric (2012). They found new anatomic evidence including differences in the penis complex and nervous system that suggest raising *Chilina fluminea tucumanensis* to the rank of species and differentiating it from *C. fluminea* (Maton, 1811).

Chilina gallardoi Castellanos & Gaillard, 1981c: 30–31, fig. 4 (Figure 2E–F)

Type locality. Santa María Island, San Javier, Misiones Province, Argentina.

Type material. The holotype was not located. Two paratypes, MLP-Ma 4096 and 11067, and three paratypes (MACN-In 27279) were collected by J.J. Parodiz. We confirm the presence of many other paratypes (MACN-In 25801), some of them in alcohol and others dry.

Remarks. Named *in schedula* *Chilina gallardoi* by J.J. Parodiz. This is a valid species living in Rio del Plata basin. A detailed redescription was provided by Gutierrez Gregoric (2010).

Chilina guaraniana Castellanos & Miquel, 1980b: 171, Figs. 4, 6 (Figure 2G–H)

Type locality. Posadas, Misiones Province, Argentina.

Type material. The original description listed the holotype and seven paratypes deposited in the MACN-In and MLP-Ma collections. However, the holotype (MACN-In 568) collected in 1935 and only five paratypes (MACN-In 568-1) were confirmed, since the remaining specimens do not match the measurements stated in the original description.

Remarks. The taxonomic status of *C. guaraniana* is uncertain. This species was described from the Paraná River where the Yacyretá dam was built. In the original description, Castellanos & Miquel (1980b) mentioned additional material deposited in MLP-Ma. However, this material was not located by Rumi *et al.* (2008).

Chlamys argentinensis Castellanos, 1973a: 62, pl. 1 fig. 3 [currently *Aequipecten tehuelchus?* (d'Orbigny, 1842)?] (Figure 2I–J)

Type locality. San Matías Gulf, San Antonio Oeste, Argentina.

Type material. Holotype, MLP-Ma 2782, left valve, collected by F. Lahille in 1899.

Remarks. This nominal species had been cited as occurring exclusively in the San Matías Gulf. No additional occurrences of this species have been reported since the original description. Waloszek (1984) mentioned that the original material included eroded and single shells that must be compared with other Recent western Atlantic pectinids to confirm or reject the validity of this species, however he noted that it is similar to *Aequipecten tehuelchus*.

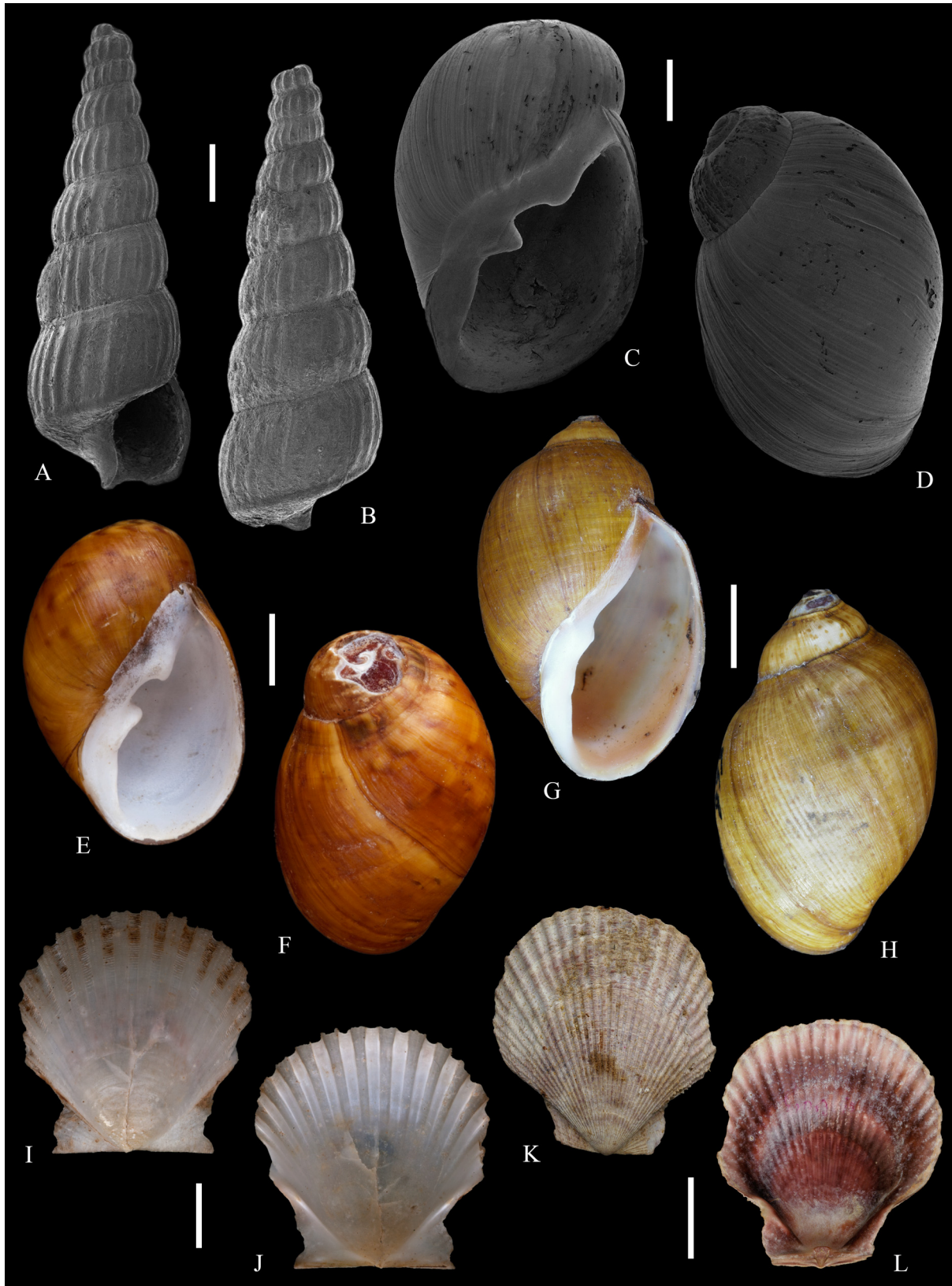


FIGURE 2. **A–B.** *Cerithiella (Stilus) axicostulata* Castellanos, Rolán & Bartolotta, 1987, holotype MLP-Ma 4685, scale bar = 500 μ m. **C–D.** *Chilina fluminea tucumanensis* Castellanos & Miquel, 1980, holotype MACN-In 9927-1, scale bar = 2 mm. **E–F.** *Chilina gallardoii* Castellanos & Gaillard, 1981, paratype MLP-Ma 4096, scale bar = 2.5 mm. **G–H.** *Chilina guaraniana* Castellanos & Miquel, 1980, holotype MACN-In 568, scale bar = 5 mm. **I–J.** *Chlamys argentinensis* Castellanos, 1973, holotype MLP-Ma 2782, Scale bar = 5 mm. **K–L.** *Chlamys lahillei* Castellanos, 1973, holotype MLP-Ma 13777, Scale bar = 2 cm.

Chlamys lahillei Castellanos, 1973a: 65, pl. 1 figs. 1–2, 5–6 [currently *Austrochlamys natans* (Philippi, 1845)] (Figure 2K–L)

Type locality. Santa Cruz Province, Argentina.

Type material. No catalogue number was given in the original description. The author based her description on two left valves collected by Lahille in 1899. Those valves were considered as syntypes and assigned to MLP-Ma 13777.

Remarks. This species was described from an inaccurate locality. The examined types consist of two eroded left valves that could belong to *Austrochlamys natans* (Philippi, 1845). Philippi's species was described from the Strait of Magellan and cited later by Carcelles & Williamson (1951) from the coast of southern Patagonia. The types of *A. natans* were illustrated by Dijkstra & Köhler (2008). Its shell morphology is very similar to that observed in *C. lahillei*. No significant differences were observed.

Crassinella marplatensis Castellanos, 1970a: 180–181, figs. 1–4 (Figure 3A–D)

Type locality. Mar del Plata, Buenos Aires Province, Argentina, RV *Goyena II*, Sta. 8, 38°1'S, 57°26'W.

Type material. Castellanos 1970a mentioned a single right valve deposited in MLP-Ma without a catalogue number. However, Ituarte (1998)—in a revision of the genus—reported that *C. marplatensis* types had not been found in the malacological collection of MLP-Ma and might be lost. In addition, Martín & César (2004) did not mention this material as deposited in MLP-Ma. At this stage the designation of a neotype is not necessary according to the ICZN (1999) art. 75.2 and 75.3.

Remarks. *Crassinella marplatensis* was revised by Ituarte (1998). It is a valid species distinguishable from *C. maldonadoensis* (Pilsbry, 1897) by its higher and flatter trigonal shell, central umbones and six to eight lamellate surface ribs. It is also distinguishable from *C. martinicensis* (d'Orbigny, 1846) by its larger shell, straight antero- and posterodorsal margin, and by having fewer commarginal ribs (Ituarte, 1998).

Cumingia antarctica Castellanos, 1963b: 5.

Type locality. Luna Bay, South Shetland Islands, Antarctica.

Type material. The type series consists of two specimens according to the original description, deposited into MLP-Ma without catalogue numbers. However, they were not located and are probably lost.

Remarks. This taxon has not been reported from the Antarctic region since its original description.

Eatoniella argentinense Castellanos & Fernández, 1972a: 6–8 [currently *Eatoniella argentinensis* Castellanos & Fernández, 1972a] (Figure 3E–F)

Type locality. Punta Loma, Nuevo Gulf, Chubut Province, Argentina

Type material. Syntypes, MLP-Ma 11108, collected by P. Penchaszadeh. This lot includes three complete specimens and three broken specimens that were dissected to extract the radulae and opercula.

Remarks. *Eatoniella argentinensis* is a valid species described from Chubut Province, the northernmost record of its distribution. Additional material of this species was recorded by Ríos *et al.* (2003) from the Strait of Magellan. Note the species epithet has been emended to “*argentinensis*” to agree in gender with *Eatoniella*.

Eatoniella rubrooperculata Castellanos & Fernández, 1972d: 231–234, figs. 2, 5–6 [currently *Crassitoniella rubrooperculata* (Castellanos & Fernández, 1972d)] (Figure 3G–H)

Type locality. 41°02'S, 65°08'W, San Matías Gulf, Argentina.

Type material. Syntypes, MLP-Ma 11109, nine specimens. Specimens collected by Dr. Olivier during the exploratory SAO I–1971 expedition to San Antonio Oeste, Río Negro Province in 1971.

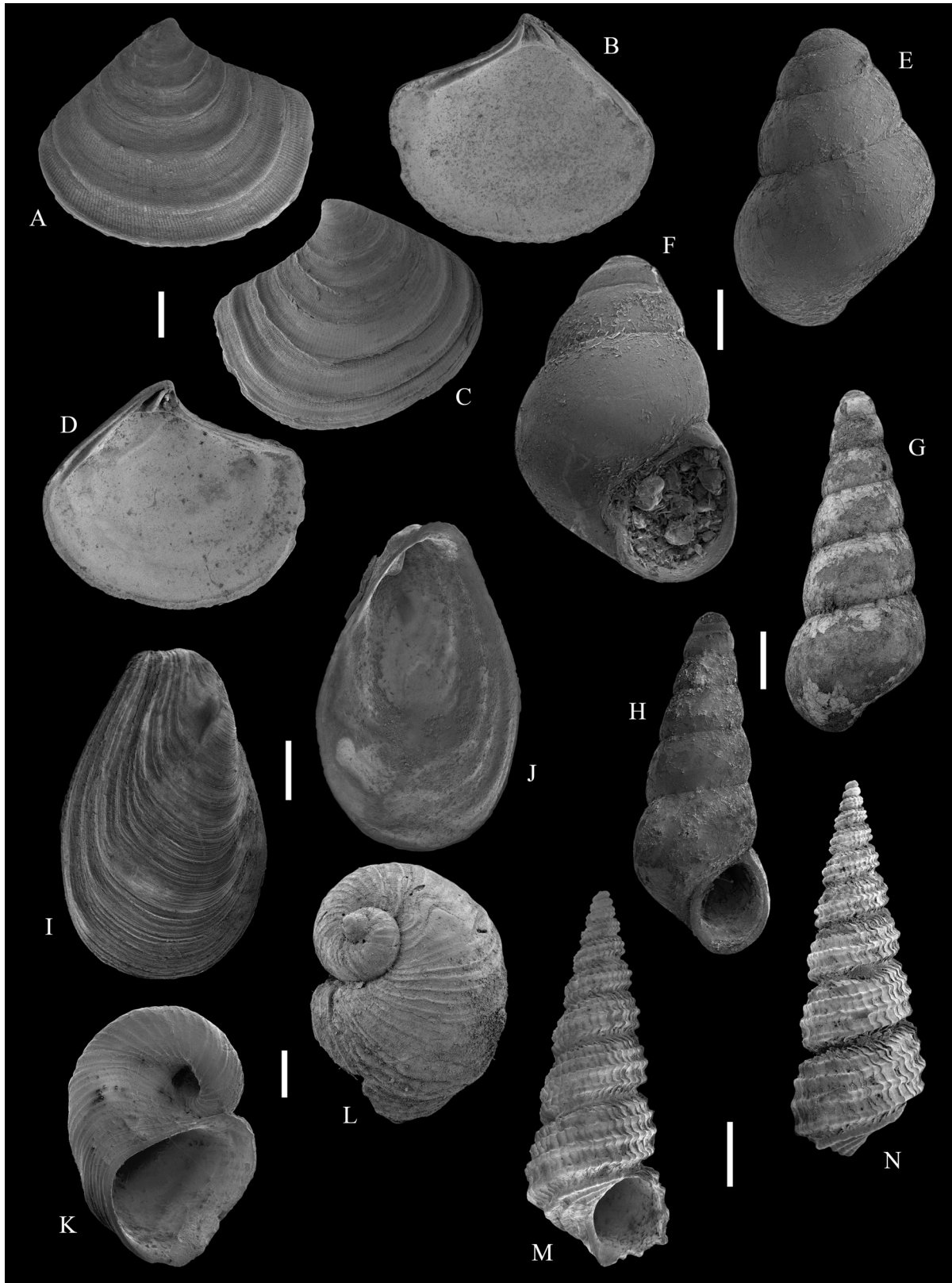


FIGURE 3. A–D. *Crassinella marplatensis* Castellanos, 1970, one complete specimen, MLP-Ma 5110, scale bar = 500 μ m. E–F. *Eatoniella argentinensis* Castellanos & Fernández, 1972, syntypes MLP-MA 11108, scale bar = 250 μ m. G–H. *Eatoniella rubrooperculata* Castellanos & Fernández, 1972, syntype MLP-Ma 11109, scale bar = 500 μ m. I–J. *Gastrochaena carcellesi* Castellanos, 1970, holotype MACN-In 18440, scale bar = 1 mm. K–L. *Macromphalina argentina* Castellanos, 1975, holotype MLP-MA 11267, scale bar = 500 μ m. M–N. *Mathilda argentina* Castellanos, 1990, holotype MLP-Ma 11268, scale bar = 2 mm.

Remarks. The generic placement of this species has been changed by several authors. It was placed in *Barleeia* by Ponder (1983) and confirmed by Castellanos (1989b) and Rios (1994). It was recently moved to *Crassitoniella* Ponder, 1965 by Rios (2009).

Eulimella (Careliopsis) bahiense Castellanos, 1982c: 79–80, fig. 14 [currently *Turbonilla bahiensis* (Castellanos, 1982c)]

Type locality. 41°46.8'S, 63°13.5'W [San Matías gulf], 35 m depth.

Type material. A catalogue number was not given in the original description. Neither was the type nor number of specimens identified. The author reported that the type material was collected by the RV *Shinkai Maru* and deposited at MLP-Ma by R. Bastida. Nevertheless, no lot has been located, so it is presumably lost.

Remarks. The grammatical concordance was fixed by Farinati (1993). Pimenta *et al.* (2011) examined the original description and illustration of *E. bahiensis*, revealing the presence of prominent axial ribs typical of *Turbonilla*. Because of this, they excluded Castellanos' species from *Eulimella* and moved it to *Turbonilla*.

Gastrochaena carcellesi Castellanos, 1970b: 266, pl. 24, fig. 13 [currently *Rocellaria carcellesi* (Castellanos, 1970b)] (Figure 3I–J)

Type locality. Puerto Quequén, Buenos Aires Province, Argentina, collected in 1929.

Type material. Holotype, MACN-In 18440 cited in the original description. The author gave the name to a single specimen published by Carcelles (1944, p. 294) as *Gastrochaena* sp.

Remarks. In the original description, the author compared the new species with *G. difficilis* Deshayes, 1855 and *G. cuneiformis* Spengler, 1783, leaving the species diagnosis unclear. A taxonomic comparison between *G. carcellesi* and other southwestern Atlantic species is required. Huber (2010) placed it in *Rocellaria* Blainville, 1828.

Leucosyrinx taludana Castellanos & Landoni, 1993b: 9, pl. 3, figs. 26, 32.

Type locality. 46°S, 60°W, 600 m depth, San Jorge Gulf, Santa Cruz Province, Argentina.

Type material. Not found in MLP-Ma or MACN-In collections. Not listed by Tablado & Mantinian (2004), probably lost.

Remarks. The authors reported the standard measurements (length, width and aperture length) for all specimens of the type series. The taxonomy of the species has not been revised. However, additional material was documented from the Strait of Magellan by Linse (1999).

Macromphalina argentina Castellanos, 1975b: 135–136, fig. 1 (Figure 3K–L)

Type locality. Ingeniero White, Bahía Blanca, Buenos Aires Province, Argentina.

Type material. Holotype MLP-Ma 11267, collected by E. Farinati.

Remarks. Species based on a single shell described from Holocene sediments drilled at Ingeniero White. Later Castellanos (1979b) cited new Recent material collected in San Matías Gulf by the RV *Shinkai Maru* and confirmed its occurrence as a living species.

Mathilda argentina Castellanos, 1990a: 19–20, pl. 2, fig. 15 (Figure 3M–N)

Type locality. 4th expedition of the RV *Shinkai Maru*, Sta. 93, 50°31'S, 60°29'W [Argentinean shelf 60 km Northwest from Malvinas/Falkland islands], 154 m depth.

Type material. Holotype, MLP-Ma 11268, four paratypes, MLP-Ma 11269. The catalogue numbers, not given in the original description, were later assigned by Martín & César (2004) and confirmed after the examination of MLP-Ma collection.

Melanella salvadori Castellanos, Rolán & Bartolotta, 1987b: 96–97, pl. 1, figs. 4–4a; pl. 2, figs. 3–4 (Figure 4A–B)

Type locality. 46°S, 60°W, 600 m depth, San Jorge Gulf, Santa Cruz Province, Argentina.

Type material. Holotype and two paratypes MLP-Ma 4687 deposited under the same catalogue number. Three additional paratypes are in the personal collection of E. Rolán.

Octopus lobensis Castellanos & Menni, 1969b: 92 [currently *Octopus tehuelchus* d'Orbigny, 1834] (Figure 4C–D)

Type locality. Puerto Lobos, Chubut Province, Argentina.

Type material. Six syntypes collected by M. Birabén and M.I. Hylton Scott, MLP-Ma 2073, 2075, 2086, 2087, 2088 and 2092, were cited in the original description. Martín & César (2004) confirmed the presence of all types in the MLP-Ma collection.

Remarks. Pujals (1984) reported this species as a junior synonym of *O. tehuelchus* d'Orbigny, 1834 (d'Orbigny date confirmed by Coan *et al.* 2011).

Odostomia (Bidentata) nova Castellanos, 1982c: 84, fig. 19.

Type locality. 4 km E of Las Grutas, Río Negro Province Argentina. Collected during the exploratory SAO I–1971 expedition by Dr. Olivier.

Type material. Not found. The author provided the standard measurements (length, width, last whorl and aperture length) for a single specimen, probable the holotype but did not specify repository or catalogue number. The type material of this species was not mentioned by Martín & César (2004) as deposited in MLP-Ma, and is probably lost.

Remarks. The species was cited by Castellanos *et al.* (1993c), who copied the data from the original description. The type material of *Odostomia (Bidentata) nova* is probably lost, but this does not affect the nomenclatural stability of the new generic name. It is not necessary to designate a neotype since the original description provides specific diagnostic characters and an illustration that allows recognition of the subgenus.

Odostomia (Chrysallida) multituberculata Castellanos, 1982c: 81–82, fig. 17 [currently *Chrysallida multituberculata* (Castellanos, 1982c)] (Figure 4E–F)

Type locality. 41°46.8'S, 63°13.5'W, 65 m depth, collected 5 km from Las Grutas, Río Negro Province, Argentina.

Type material. No repository or catalogue number were reported in the original description. Type material of this species was not mentioned by Martín & César (2004) as deposited into MLP-Ma collection. Tablado & Mantinian (2004) cited 83 paratypes from Chapadmalal, Buenos Aires Province, Argentina (MACN-In 28879). These materials were confirmed and illustrated.

Remarks. This species was mentioned by Forcelli (2000) as a probable synonym of *Boonea jadisi* (Olsson & McGinty, 1958). However, this was rejected by Pimenta *et al.* (2009) due to morphological differences reported in the original description. Although Castellanos (1982c) cited *Chrysallida* as a subgenus of *Odostomia*, it was considered a valid genus by other authors (Pimenta *et al.* 2009, Van der Linden & Eikenboom 1992)

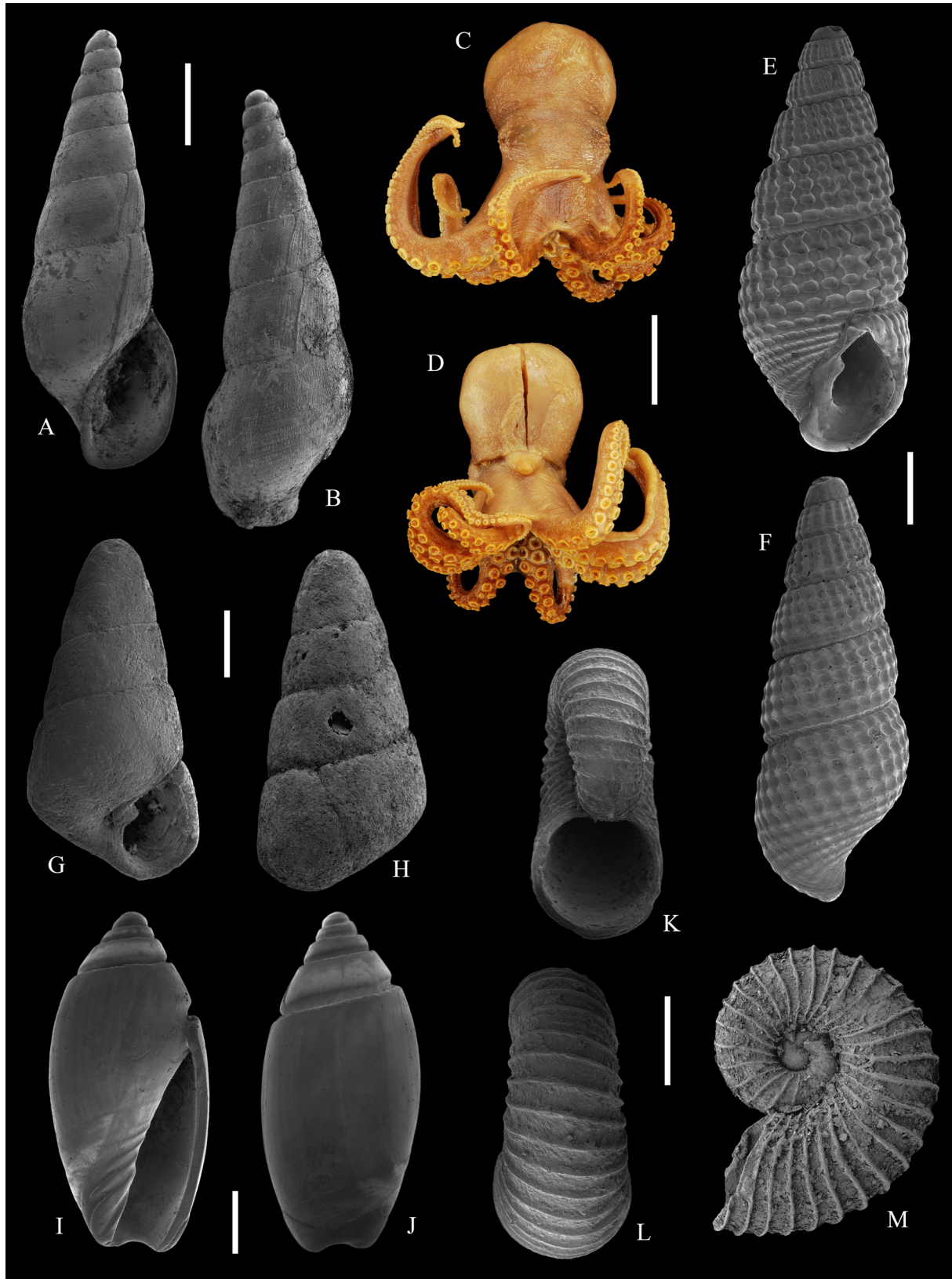


FIGURE 4. **A–B.** *Melanella salvadori* Castellanos, Rolán & Bartolotta, 1987, paratype MLP-Ma 4687, Scale bar = 1 mm. **C–D.** *Octopus lobensis* Castellanos & Menni, 1969, syntype MLP-Ma 2073, scale bar = 2 cm. **E–F.** *Odostomia (Chrysallida) multituberculata* Castellanos, 1982, MACN-In 28879, scale bar = 500 μ m. **G–H.** *Odostomia (Odostomia) puelchana* Castellanos, 1982, holotype MLP-Ma 9581, Scale bar = 500 μ m. **I–J.** *Olivella santacruzence* Castellanos & Fernández, 1965, holotype MLP-Ma 3863, scale bar = 1 mm. **K–M.** *Omalogyra taludana* Castellanos, 1988, holotype MLP-Ma 4834, scale bar = 500 μ m.

Odostomia (Odostomia) puelchana Castellanos, 1982c: 82, fig. 16 (Figure 4G–H)

Type locality. Monte Hermoso, Buenos Aires Province, Argentina.

Type material. The author reported the standard measurements (length, width, last whorl and aperture length) of type material, but no catalogue number. The holotype (MLP-Ma 9581) was reported by Martín & César (2004).

Remarks. Currently accepted (Rosenberg, 2009) as *O. puelchana* Castellanos, 1982. No taxonomic revision was found in the literature.

Olivella santacruzence Castellanos & Fernández, 1965c: 102–104, fig. 10–11 (Figure 4I–J)

Type locality. Punta Medanosa (approximately 48°04'S, 65°56'W), Santa Cruz Province, Argentina.

Type material. Holotype (MLP-Ma 3863) and six paratypes (MLP-Ma unnumbered) sensu original description. Holotype incorrectly published by the authors as MLP-Ma 27284. However, Pastorino (2009) revealed that none of the type specimens deposited in the cabinets match the published size of the holotype, which is either incorrectly measured or lost.

Remarks. *O. santacruzence*, only known from the type locality, is a valid species. Pastorino (2009) reported that only five of six paratypes belong to *O. santacruzence*, the sixth specimen is a juvenile male of *O. puelcha*.

Omalogyra taludana Castellanos, 1988c: 89–90, figs. 1–2 (Figure 4K–M)

Type locality. 46°15'S, 60°9'W, 570–600 m depth, San Jorge Gulf, Santa Cruz Province, Argentina.

Type material. Holotype and two paratypes, MLP-Ma 4834, collected by the trawler *Puente Gondomar*.

Remarks. The standard measurements (length, width and aperture length) of all specimens of type series were mentioned in the original description. Type material listed by Martín & César (2004) as deposited in the collection of MLP-Ma is confirmed.

Ommastrephes argentinus Castellanos, 1960c: 55–58 [currently *Illex argentinus* (Castellanos, 1960c)] (Figure 5A–B)

Type locality. 39°S, 55°W [250 km south east from Mar del Plata, off Buenos Aires province], Atlantic Ocean.

Type material. A female holotype, MLP-Ma 45001, and a male allotype, MLP-Ma 45002 were confirmed. In addition, three paratypes MLP-Ma 13950 were also confirmed, two females and one male. Two unnumbered paratypes were also mentioned in the original description but were not found in MACN-In.

Remarks. Several aspects of this valid and commercial species have been widely studied since its description (Re & Taylor 1981, Roper *et al.* 1984, Nigmatullin 1989, Arkhipkin 1990, Brunetti 1990, Vidal 1994; Voss *et al.* 1998; Crespi *et al.* 2009, 2011 among others).

Pallenopsis mariae Larramendy & Castellanos, 1978: 91.

Type locality. Creek Bay, Río Negro Province, Argentina, collected in 1970 and 1971

Type material. Holotype, MLP-Ma 160, five paratypes, MLP-Ma 160/1, all male specimens. None of these was found in MLP-Ma; they are presumably lost.

Remarks. Bamber (2012) recognized this as a valid pycnogonid species living in the southwestern Atlantic Ocean.

Papuliscala diminuta Castellanos, Rolán & Bartolotta, 1987b: 95–96, pl. 1, fig. 7; pl. 2, fig. 7 (Figure 5C–D)

Type locality. 46°S, 60°W, 600 m depth, 407; east of San Jorge Gulf, Santa Cruz Province, Argentina collected by the RV *Shinkai Maru*.

Type material. Holotype and five paratypes under the same catalogue number MLP-Ma 4686; two paratypes, MNCN 15.05/1059 and one additional paratype in the personal collection of E. Rolán were reported in the original description. The MLP-Ma specimens were confirmed.

Proneptunea minuta Castellanos, 1992b: 17, pl. 1, fig. 1.

Type locality. 48°21'S, 62°27'W [Off Puerto Deseado, Santa Cruz province, Argentina], 145 m depth.

Type material. Holotype and paratype were reported, but no repository or catalogue number were given. Type material not found.

Remarks. The author mentioned that this new species is similar to *P. fenestrata* Powell, 1951. The main difference was the number of whorls relative to the length of the specimen.

Propebela profunda Castellanos & Landoni, 1993b: 16–17, pl. 1, fig. 7 (Figure 5E–F)

Type locality. 46°S, 60°W, 600 m depth, San Jorge Gulf, Santa Cruz Province, Argentina.

Type material. Catalogue number not given in the original description. However, they were later assigned as holotype MACN-In 35153 and two paratypes MACN-In 35153-1.

Remarks. Our measurements of the type series do not agree with those given by the authors, a fact already reported by Tablado & Mantinian (2004). The types were probably incorrectly measured for the original description.

Pyrene bonariense Castellanos & Fernández, 1967b: 50–52, figs. 1–4 [currently *Astyris bonariensis* (Castellanos & Fernández, 1967b)] (Figure 5G–H)

Type locality. 35°30'S, 52°50'W [off Rio de la Plata estuary, Argentina], collected in 1925 by the RV *Undine* at 110–146 m depth.

Type material. The authors gave the catalogue numbers of the holotype and three paratypes comprising the same lot. They were later separated into two lots, holotype (MACN-In 16629) and paratypes (MACN-In 16629-1) (Tablado & Mantinian 2004).

Remarks. The authors provided the standard measurements (length, width, last whorl and aperture length) for all specimens of the type series. Scarabino (2004) included this species in *Zemitrella* Finlay, 1927. However, Rosenberg (2009) and Monsecour (2015) place it in *Astyris* H. Adams & A. Adams, 1853. Finally, the authorship was cited as Castellanos & Deambrosi (cita). The last name Deambrosi belongs to Delicia Fernandez's husband.

Pyrene rubra tuyuense Castellanos & Fernández, 1965a: 56 [currently *Mitrella rubra* (Martens, 1881)] (Figure 5I–J)

Type locality. In the original description the authors reported material from San Clemente del Tuyú, Mar del Plata and Puerto Militar deposited in MLP-Ma and MACN-In collections. None of these localities was cited as the type locality.

Type material. The species was described based on material from the MLP-Ma and MACN-In collections. No catalogue numbers were assigned in the original description. Three apparent syntype lots were found in the MACN-In collection under the numbers 10779, 11354 and 1482-1. The first one is from Mar del Plata and the other two are from Puerto Militar, Bahía Blanca. Type material associated with San Clemente del Tuyú was not found in MLP-Ma or MACN-In.

Remarks. This species is cited as a synonym of *Mitrella rubra* (Martens, 1881) by Monsecour (2015).

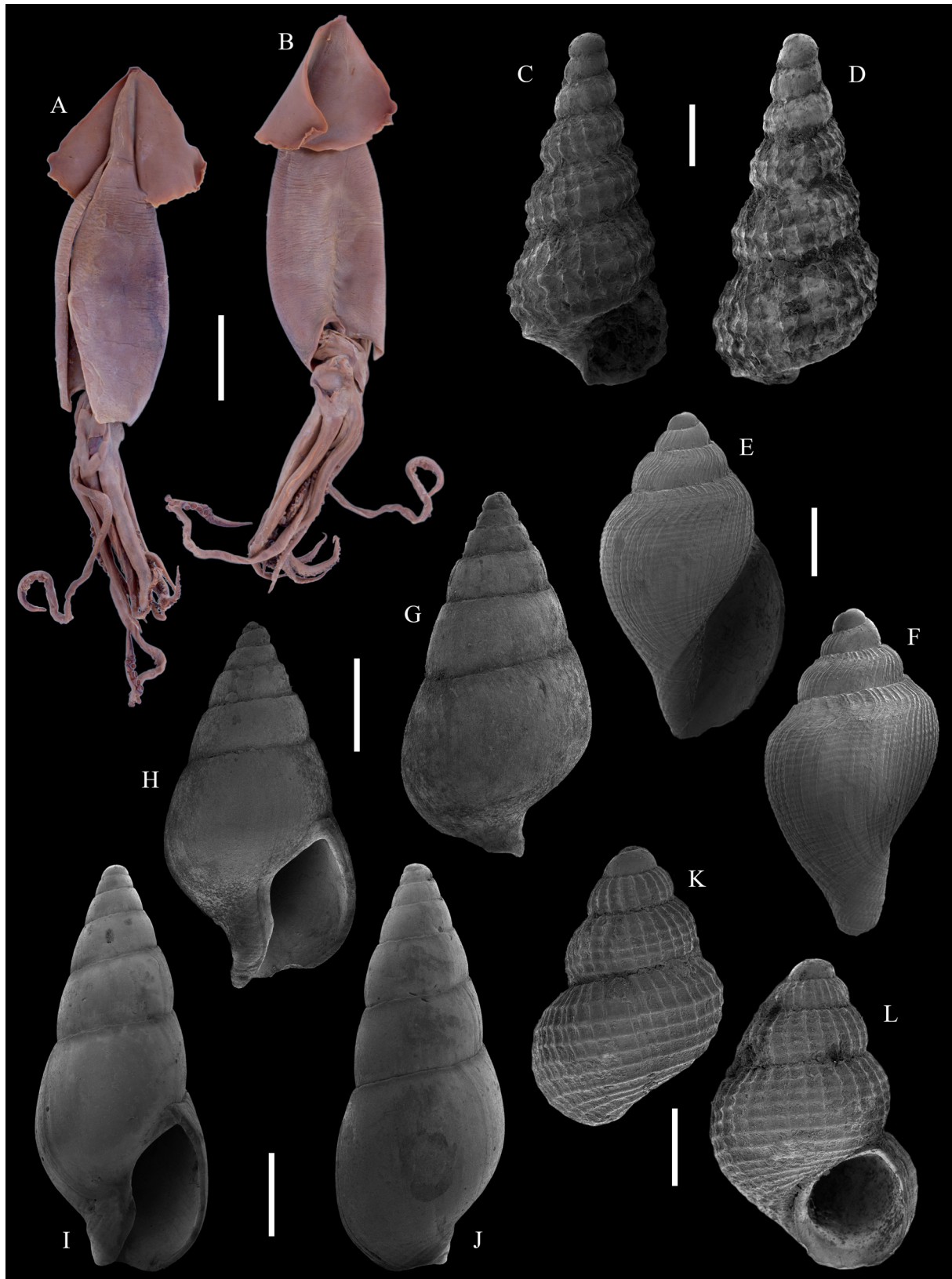


FIGURE 5. A–B. *Ommastrephes argentinus* Castellanos, 1960, holotype MLP-Ma 45001, Scale bar = 5 cm. C–D. *Papuliscala diminuta* Castellanos, Rolán & Bartolotta, 1987b, paratype MLP-Ma 4686, Scale bar = 500 μ m. E–F. *Propebela profunda* Castellanos & Landoni, 1993, paratype MACN-In 35153-1, scale bar = 1 mm. G–H. *Pyrene bonariense* Castellanos & Fernández, 1967, holotype MACN-In 16629, scale bar 2 mm. I–J. *Pyrene rubra tuyuense* Castellanos & Fernández, 1965, syntype MACN-In 10779, scale bar 2 mm. K–L. *Rissoa cruzi* Castellanos & Fernández, 1974, MLP-Ma 12135, Scale bar = 500 μ m.

Rissoa cruzi Castellanos & Fernández, 1974b: 153–154, figs. 3, 5–6 [currently *Alvania cruzi* (Castellanos & Fernández, 1974b)] (Figure 5K–L)

Type locality. 35°14'S, 52°36'W, 140 m depth, Bahía Blanca, Buenos Aires Province, Argentina collected from stomach contents of *Astropecten brasiliensis* by P. Penchaszadeh.

Type material. Measurements of the holotype and one paratype were reported in the original description, however, neither repository or catalogue numbers were provided. The confirmed type series was later assigned to MLP-Ma 12135.

Remarks. After the original description, the only record of *R. cruzi* in Uruguayan waters was by Scarabino (2004). Later Wiggers & Veitenheimer-Mendes (2009) placed *R. cruzi* in the genus *Alvania* Risso, 1826. Although the two genera are distinguishable by radular characters (Ponder, 1985), Wiggers & Veitenheimer-Mendes did not examine radular morphology.

Rissoa herwigia Castellanos & Fernández, 1974b: 154, figs. 1–2, 4, 7 [currently *Alvania herwigia* (Castellanos & Fernández, 1974b)]

Type locality. Walther Herwig Expedition, 35°43'S, 52°43'W [off Rio de la Plata estuary, Argentina], 1000 m depth. Collected by Pablo Penchaszadeh in 1966 from stomach contents of the asteroid *Psilaster herwigi* (Bernasconi, 1972).

Type material. Holotype not found. Martín & César (2004) did not cite type material of this taxon in MLP-Ma.

Savatieria (Lisosavatieria) deseadense Castellanos & Fernández, 1975a: 60, figs. 1–4 [currently *Savatieria (Lisosavatieria) deseadensis* Castellanos & Fernández, 1975a] (Figure 6A–B)

Type locality. Puerto Deseado, Santa Cruz Province, Argentina.

Type material. The authors reported a holotype and several paratypes deposited in MLP-Ma collection, and gave measurements for the holotype and two paratypes. Martín & César (2004) confirmed the presence of the holotype in the MLP-Ma collection with the catalogue number (MLP-Ma 11436). The specific epithet was emended to “*deseadensis*” to agree in gender with *Savatieria*.

Savatieria chordata Castellanos, Rolán & Bartolotta, 1987b: 97–98, pl. 1, fig. 3 (Figure 6C–D)

Type locality. 50°30'S, 62°31'W [Argentinean shelf 75 km Northwest from Malvinas/Falkland islands], 159 m depth collected by the RV *Shinkai Maru*.

Type material. The holotype and four paratypes were given the same catalogue number, MLP-Ma 4688. Measurements of all specimens from the type series were reported in the original description.

Remarks. After the original description, this species was reported from the Magellanic region by Linse (1999).

Trophon triacanthus Castellanos, Rolán & Bartolotta, 1987b: 99–100, pl. 1, fig. 5; pl. 2, fig. 1 [currently *Apixystus? triacanthus* (Castellanos, Rolán & Bartolotta, 1987b)] (Figure 6E–F)

Type locality. 46°S, 60°W, 600 m depth, 220 miles off San Jorge Gulf, Santa Cruz Province, Argentina, collected by the trawler *Puente Gondomar*.

Type material. Holotype MLP-Ma 4690 and one paratype MLP-Ma unnumbered. Type measurements were provided in the original description.

Remarks. This species was removed from *Trophon* due to several differences in protoconch and shell morphology and placed in *Apixystus* Iredale, 1929 by Pastorino (2005). *Apixystus* is currently (Houart, 1987) considered a synonym of *Gemixystus* Iredale, 1929, thus the taxonomic placement of this species must be revised.

Turbonilla (Bartschella) paralaminata Castellanos, 1982c: 74, 76, fig. 9 [currently *Turbonilla paralaminata* Castellanos, 1982c] (Figure 6G–H)

Type locality. *Shinkai Maru* Expedition, Sta. 16, 40°25'S, 61°34'W [southern coast of Buenos Aires province, Argentina], 30 m depth.

Type material. Holotype not found in MLP-Ma collection; paratypes MACN-In 30806 from Puerto Quequén and MACN-In 11348 from Puerto Militar, Bahía Blanca were confirmed.

Remarks. The author measured a single type specimen and additional examined material (from Puerto Quequén and Puerto Militar, Bahía Blanca). This species was later reported from the Holocene of Bahía Blanca, Buenos Aires Province by Farinati (1985, 1993) and Gordillo (1998). Additionally the species was recorded in Maldonado-Bay, Uruguay from empty shells (Scarabino *et al.* 2006).

Turbonilla (Bartschella) sanmatiense Castellanos, 1982c: 75, 76, fig. 6 [currently *Turbonilla sanmatiensis* Castellanos, 1982c]

Type locality. San Matías Gulf, Rio Negro Province, Argentina.

Type material. Measurements of the holotype and one paratype were given. They were deposited into the MLP-Ma collection *sensu* original description. However, these materials were not listed by Martín & César (2004) in the type cabinets at MLP-Ma, and the specimens have not been found.

Remarks. This species has been reported from Uruguayan waters (Scarabino *et al.* 2006), the coast of the Buenos Aires Province (Castellanos 1982c) and the Strait of Magellan (Ríos *et al.* 2003).

Turbonilla (Chemnitzia) elongata Castellanos, 1982c: 66, 76, fig. 8 (*non* Pease 1868) [currently *Turbonilla zulmae* Pimenta & Absalão, 1998] (Figure 6I–J)

Type locality. *Shinkai Maru* Expedition, Sta. 16, 40°25'S, 61°34'W [southern coast of Buenos Aires province, Argentina], 30 m depth collected by R. Bastida.

Type material. The author reported standard measurements (length and width) of the holotype and three paratypes (MACN-In 30807). The holotype was not found in MLP-Ma collection. Alongside the three measured paratypes, nine additional specimens were confirmed from the same lot (MACN-In 30807). The paratype series was found as stomach contents of *Astropecten cingulatus* (Carcelles & Parodiz 1938) collected in Puerto Quequén, Buenos Aires Province. Additional specimens cited in the original description and deposited in MACN-In under catalogue number 34015 are not paratypes as they were not designated by the original author (ICZN, 1999, art. 72.4.6), however, they are labeled as paratypes in the MACN-In collection (ICZN, 1999 art. 72.4.7).

Remarks. *Turbonilla (Chemnitzia) elongata* Castellanos, 1982c is a junior homonym of *Turbonilla elongata* Pease, 1861. *T. zulmae* is a replacement name (Pimenta & Absalão, 1998).

Turritellopsis marplatensis Castellanos & Landoni, 1984: 293, figs 2–4 (Figure 6K–L)

Type locality. Chapadmalal, Buenos Aires Province, Argentina.

Type material. Holotype, MACN-In 28924, one paratype MACN-In 28924–1 from Mar del Plata, Buenos Aires Province. The paratype MACN-In 31359 mentioned in the original description was never deposited under this number (Tablado & Mantinian, 2004).

Remarks. Farinati (1994) cited this species in the Holocene of Bahía Blanca, Buenos Aires Province.

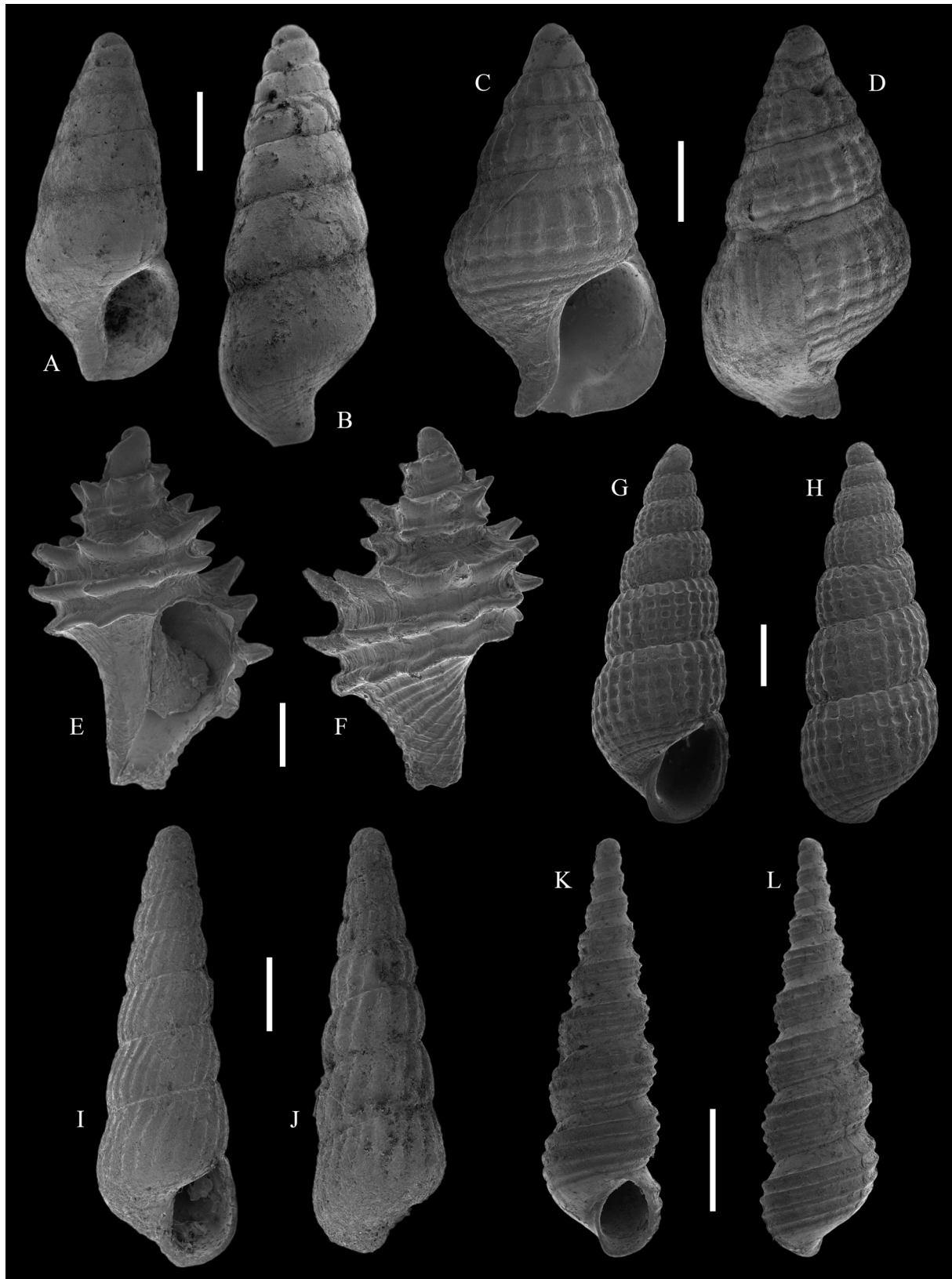


FIGURE 6. A–B. *Savatieria* (*Lisosavatieria*) *deseadensis* Castellanos & Fernández, 1975, holotype MLP-Ma 11436, scale bar = 1 mm. C–D. *Savatieria chordata* Castellanos, Rolán & Bartolotta, 1987, paratype MLP-Ma 4688, scale bar = 1 mm. E–F. *Trophon triacanthus* Castellanos, Rolán & Bartolotta, 1987, holotype MLP-Ma 4690, scale bar = 500 μ m. G–H. *Turbonilla* (*Bartschella*) *paralaminata* Castellanos, 1982, MACN-In 30806, juvenile, scale bar = 500 μ m. I–J. *Turbonilla* (*Chemnitzia*) *elongata* Castellanos, 1982, paratype MACN-In 30807, scale bar = 500 μ m. K–L. *Turritellopsis marplatensis* Castellanos & Landoni, 1984, holotype MACN-In 28924, scale bar = 1 mm.

Discussion

Castellanos' work includes 89 published articles, one book chapter, four edited books and 15 government reports between 1948 and 1996, all them published in Spanish. Her zoological work was focused mainly on mollusks. She described 44 species including six bivalves, two cephalopods, 35 gastropods and one pycnogonid. Three generic names were described for gastropod taxa, two of them as subgenera. In several cases descriptions were very rudimentary, and type materials were not supported by museum catalogue numbers. The types of eight nominal species were not located in the cited collections, and they are probably lost. In addition, after examination of the general cabinets of MLP-Ma none of the lost type material were found.

The literature analysis of taxa described by Castellanos and collaborators revealed the presence of thirty-eight species currently considered valid. Twelve of them have been transferred to other genera, and thirteen have not been taxonomically revised. Currently six species are considered junior synonyms. Finally two homonyms were introduced, and one of them has been resolved (Pimenta & Absalão 1998). This work is part of a series of contributions related to Argentinean malacologists and their work.

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