

FLORIDA FOSSIL INVERTEBRATES

Part 13

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MOLLUSCA Bermont Formation (Middle Pleistocene)

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FLORIDA FOSSIL INVERTEBRATES

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Florida Fossil Invertebrates is a publication of the Florida Paleontological Society, Inc., and is intended as a guide for identification of the many common invertebrate fossils found within the state. Each part deals with a specific taxonomic group and contains a brief discussion of that group's life history (based on modern analogs) along with the pertinent geological setting. This series deals solely with published taxa; no new species descriptions are included. Some of the specimens figured in this series are on display at Powell Hall, the museum's Exhibit and Education Center. **This publication is made possible through the generous financial support of James and Lori Toomey.**

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- Part 10.** Mollusca – Anastasia Formation (Late Pleistocene to Holocene) (R. W. Portell and B. A. Kittle).
- Part 11.** Eocene and Oligocene corals (R. W. Portell and S. K. Donovan) (**expected publication early 2011**).
- Part 12.** Mollusca – Fort Thompson Formation (Late Pleistocene) (B. A. Kittle and R. W. Portell).

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MOLLUSCA

Bermont Formation (Middle Pleistocene)

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INTRODUCTION

The *Florida Fossil Invertebrates* series pertaining to the phylum Mollusca continues with shells from the Middle Pleistocene Bermont Formation and includes color images of 102 species of mostly bivalves and gastropods (Plates 1-11). The Bermont Formation species checklist (Table 1) consists of 172 marine and three freshwater bivalves, eight scaphopods (tusk shells), 364 marine, seven freshwater, and seven land snails, and two each of pteropods and chitons for a total of 565 mollusks. The checklist was compiled from published occurrences, as well as specimens deposited in the Invertebrate Paleontology Collection of the Florida Museum of Natural History. Highly doubtful records, synonyms, and most subspecies have been removed from the list. However, some published records based on spoil collected material from mixed stratigraphic units or from supposed Bermont Formation sediments, although questionable, remain on the list. The authors are confident that this checklist will expand when recently collected bulk samples from several *in situ* Bermont Formation sites are processed, especially when all micro-mollusks are added.

Many of the mollusk species listed herein can still be found living today along Florida's coasts. However, some are known only to occur within the Bermont Formation and therefore are considered to be index taxa for the unit. Examples include the

bivalve, *Miltha carmenae* and the gastropods, *Strombus mayacensis*, *Vasum floridanum*, *Fasciolaria okeechobeensis*, and *Fusinus watermani*.

In early works on southern Florida stratigraphy, the Bermont Formation sediments were considered part of the Caloosahatchee Formation's strata. DuBar (1962) referred to the "uppermost fossiliferous marine sands exposed along Shell Creek in the Bermont quadrangle, Charlotte County" as Unit F of the Caloosahatchee Formation. However, Vokes (1963) believed this unit was distinct from the Caloosahatchee Formation and informally referred to it as the "Glades formation". Soon after, Olsson in Olsson & Petit (1964) referred to this horizon as "Unit A", a yet unnamed formation which was found above the Caloosahatchee Formation (Figure 2) and below the Ft. Thompson Formation. In 1974, DuBar informally proposed the name Bermont Formation for his previously named "Unit F" of DuBar (1962). Most recently, Petuch (2007) informally divided the formation into three members (Belle Glade, Okeelanta, and Holey Land) and provided his interpretation of the lithology, age, correlation, and fauna.

The Bermont Formation is widely distributed in southern Florida from Hillsborough County (west coast) and St. Lucie County (east coast) southward (Figure 1). Although DuBar (1974) reported the unit as occurring as far north as Levy County on the west coast and Volusia, Putnam, and Seminole Counties on the east coast we have been unable to substantiate these more northerly occurrences. Thickness of the Bermont Formation ranges from 0.6 to 2.7 meters along Shell Creek in Charlotte County, to a maximum of approximately 9.0 meters in the subsurface of Palm Beach County (DuBar, 1974). DuBar interpreted the environment of deposition to be open

marine to brackish water, shallow continental shelf conditions of depths less than 15 meters.

Like the Late Pleistocene Fort Thompson Formation (see Florida Fossil Invertebrates 12) and Anastasia Formation (see Florida Fossil Invertebrates 10), few reliable numerical age estimates have been published for the Bermont Formation. Based on strontium isotope analyses of venerid bivalves, Webb et al. (1989) concluded that the Bermont Formation (as recognized in southwestern Hillsborough County) ranges in age from about 1.1 to 1.8 million years old (Middle Pleistocene).

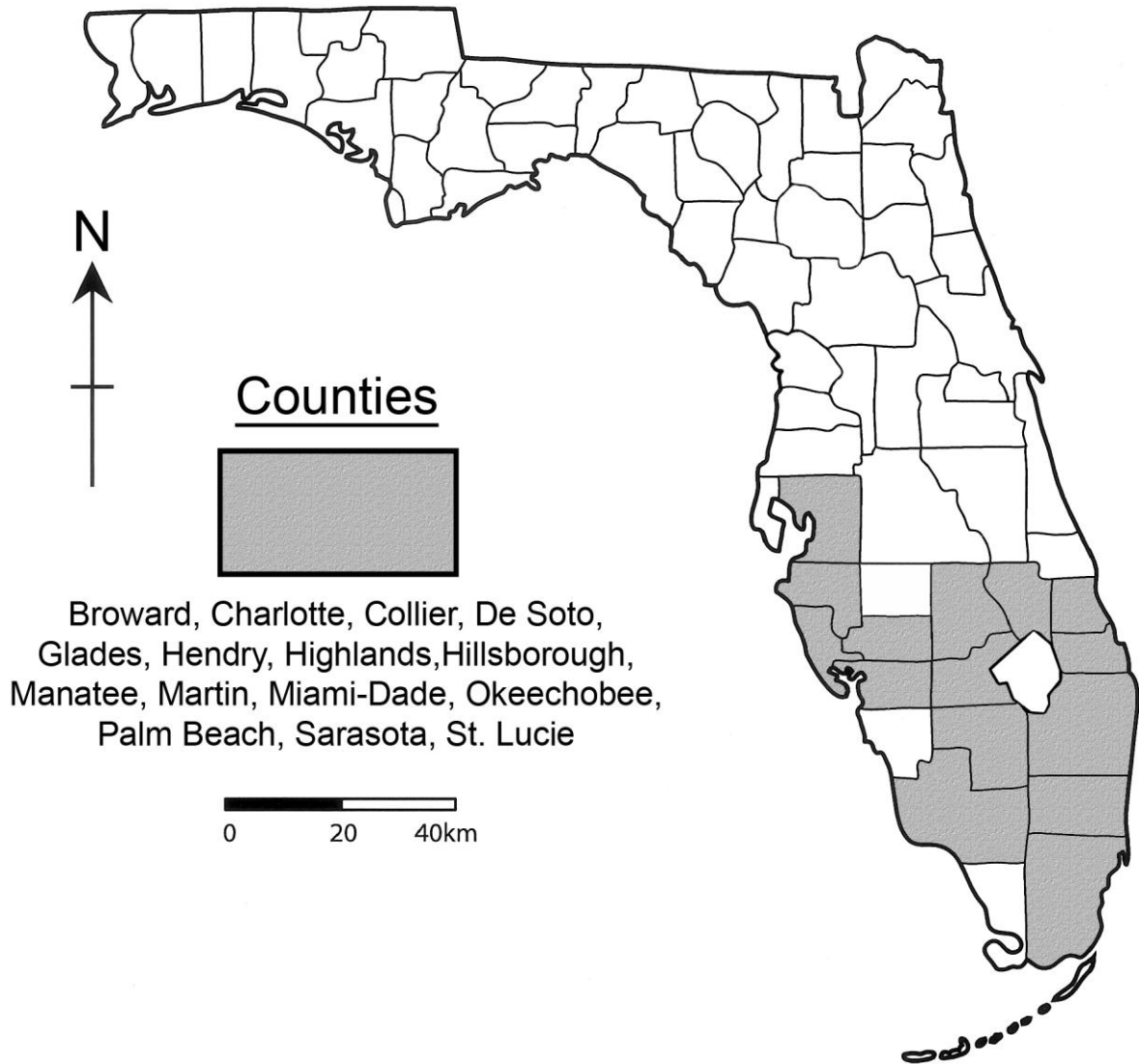


Figure 1. Counties with confirmed Bermont Formation (Middle Pleistocene) surface exposures, including areas along coastline and rivers (either above or below water level). Occurrence data, from the Invertebrate Paleontology Collection in the Florida Museum of Natural History, were used to augment published records.

EPOCH	STRATIGRAPHIC UNITS
EARLY-MIDDLE PLEISTOCENE	BERMONT FORMATION
	CALOOSAHATCHEE FORMATION
LATE PLIOCENE	TAMIAMI FORMATION

Figure 2. Some Late Pliocene to Middle Pleistocene stratigraphic units of southern peninsular Florida. For Bermont Formation occurrences (by county) see Figure 1.

Note: Revisions by the International Commission on Stratigraphy (see 2008 International Stratigraphic Chart) shifted the Pliocene-Pleistocene boundary from approximately 1.8 million years ago to 2.588 million years ago thereby moving all of the Caloosahatchee Formation and a portion of the Tamiami Formation into the Pleistocene Epoch.

PLATE 1

ARCIDAE

- 1) *Anadara aequilitas* (Tucker & Wilson, 1932); UF 6462; external view of right valve; 1x.
- 2) *Anadara aequilitas* (Tucker & Wilson, 1932); UF 6462; internal view of right valve; 1x.
- 3) *Anadara catararca* (Dall, 1898); UF 30266; external view of right valve; 1x.
- 4) *Anadara catararca* (Dall, 1898); UF 30266; internal view of right valve; 1x.
- 5) *Arca zebra* (Swainson, 1833); UF 30269; external view of right valve; 1x.
- 6) *Arca zebra* (Swainson, 1833); UF 30269; internal view of right valve; 1x.
- 7) *Cucullaearca candida* (Helbling, 1779); UF 19369; external view of left valve; 1x.
- 8) *Cucullaearca candida* (Helbling, 1779); UF 19369; internal view of left valve; 1x.

GLYCYMERIDIDAE

- 9) *Glycymeris americana* (Defrance, 1826); UF 13567; external view of right valve; 0.5x.
- 10) *Glycymeris americana* (Defrance, 1826); UF 13567; internal view of right valve; 0.5x.

MYTILIDAE

- 11) *Gregariella coralliophaga* (Gmelin, 1791); UF 6445; external view of right valve; 2x.
- 12) *Gregariella coralliophaga* (Gmelin, 1791); UF 6445; internal view of right valve; 2x.
- 13) *Modiolus americanus* (Leach, 1815); UF 6486; external view of left valve; 1x.
- 14) *Modiolus americanus* (Leach, 1815); UF 6486; internal view of left valve; 1x.

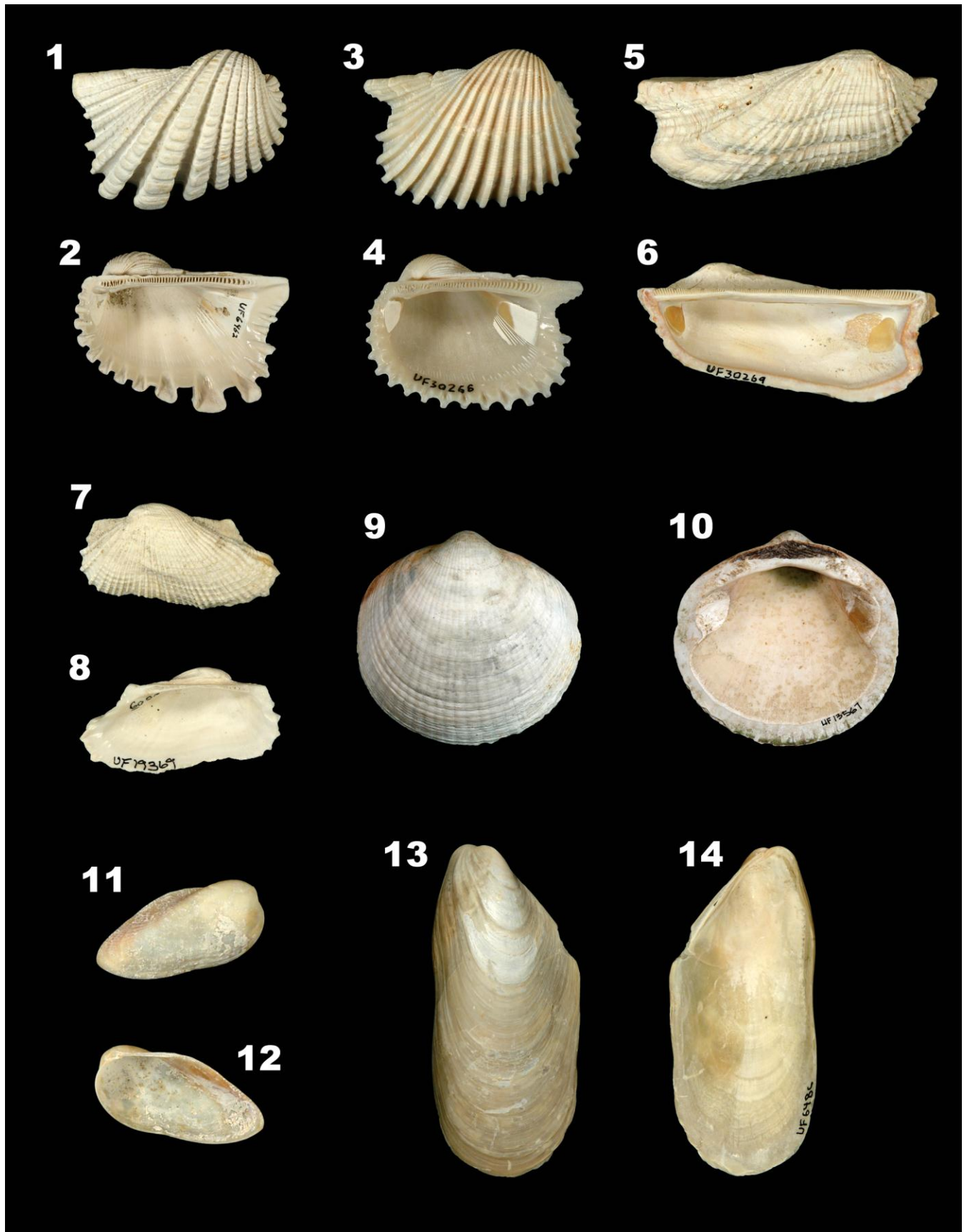


PLATE 2

OSTREIDAE

- 1) *Conradostrea sculpturata* (Conrad, 1840); UF 19360; external view of right valve; 1x.
- 2) *Conradostrea sculpturata* (Conrad, 1840); UF 19360; internal view of right valve; 1x.

LIMIDAE

- 3) *Ctenoides scabra* (Born, 1778); UF 19390; external view of left valve; 1x.
- 4) *Ctenoides scabra* (Born, 1778); UF 19390; internal view of left valve; 1x.
- 5) *Limatula subovata* (Jeffreys, 1876); UF 6448; external view of left valve; 6x.
- 6) *Limatula subovata* (Jeffreys, 1876); UF 6448; internal view of left valve; 6x.

PECTINIDAE

- 7) *Brachtechchlamys antillarum* (Recluz, 1853); UF 6442; external view of left valve; 2x.
- 8) *Brachtechchlamys antillarum* (Recluz, 1853); UF 6442; internal view of left valve; 2x.
- 9) *Euvola raveneli* (Dall, 1898); UF 26351; external view of right valve; 2x.
- 10) *Euvola raveneli* (Dall, 1898); UF 26351; internal view of right valve; 2x.
- 11) *Nodipecten fragosus* (Conrad, 1849); UF 26237; external view of left valve; 1x.
- 12) *Nodipecten fragosus* (Conrad, 1849); UF 26237; internal view of left valve; 1x.

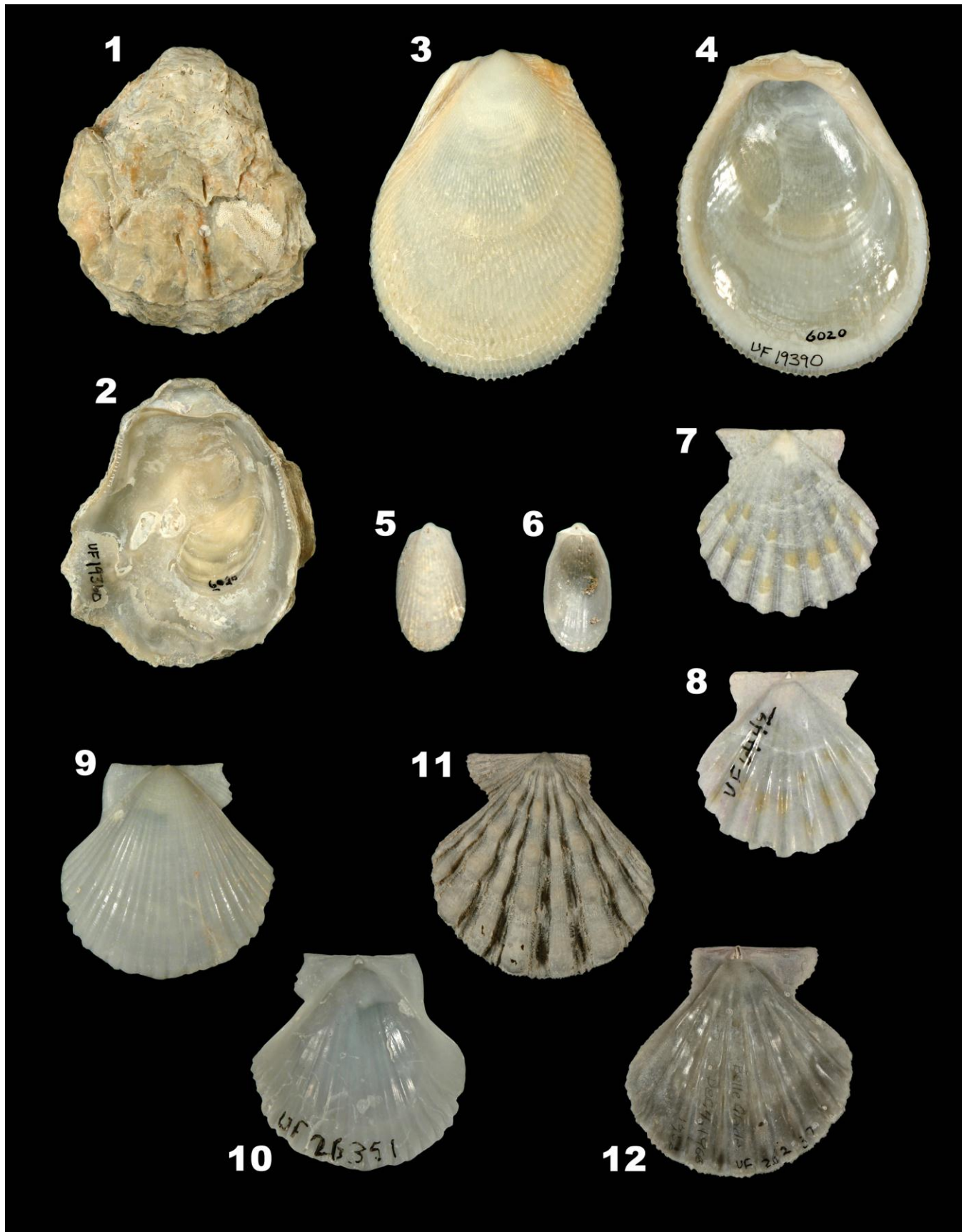


PLATE 3**SPONDYLIDAE**

- 1) *Spondylus cf. americanus* Hermann, 1781; UF 6474; external view of right valve; 1x.
- 2) *Spondylus cf. americanus* Hermann, 1781; UF 6474; internal view of right valve; 1x.

UNIONIDAE

- 3) *Megaloniaias boykiniana* (Lea, 1840); UF 152321; external view of left valve; 0.5x.
- 4) *Megaloniaias boykiniana* (Lea, 1840); UF 152321; internal view of left valve; 0.5x.

PANDORIDAE

- 5) *Pandora bushiana* Dall, 1886; UF 26106; external view of left valve; 2x.
- 6) *Pandora bushiana* Dall, 1886; UF 26106; internal view of left valve; 2x.
- 7) *Pandora trilineata* Say, 1822; UF 26162; external view of left valve; 2x.
- 8) *Pandora trilineata* Say, 1822; UF 26162; internal view of left valve; 2x.

THRACIIDAE

- 9) *Cyathodonta rugosa* (Lamarck, 1818); UF 26180; external view of left valve; 2x.
- 10) *Cyathodonta rugosa* (Lamarck, 1818); UF 26180; internal view of left valve; 2x.

LUCINIDAE

- 11) *Armimiltha disciformis* (Heilprin, 1866); UF 19434; external view of left valve; 0.75x.
- 12) *Armimiltha disciformis* (Heilprin, 1866); UF 19434; internal view of left valve; 0.75x.
- 13) *Divaricella dentata* (Wood, 1815); UF 19389; external view of right valve; 1x.
- 14) *Divaricella dentata* (Wood, 1815); UF 19389; internal view of right valve; 1x.
- 15) *Miltha carmenae* Vokes, H.E., 1969; UF 19506; external view of left valve (note the predatory snail borehole); 0.5x.
- 16) *Miltha carmenae* Vokes, H.E., 1969; UF 19506; internal view of left valve (note the predatory snail borehole); 0.5x.

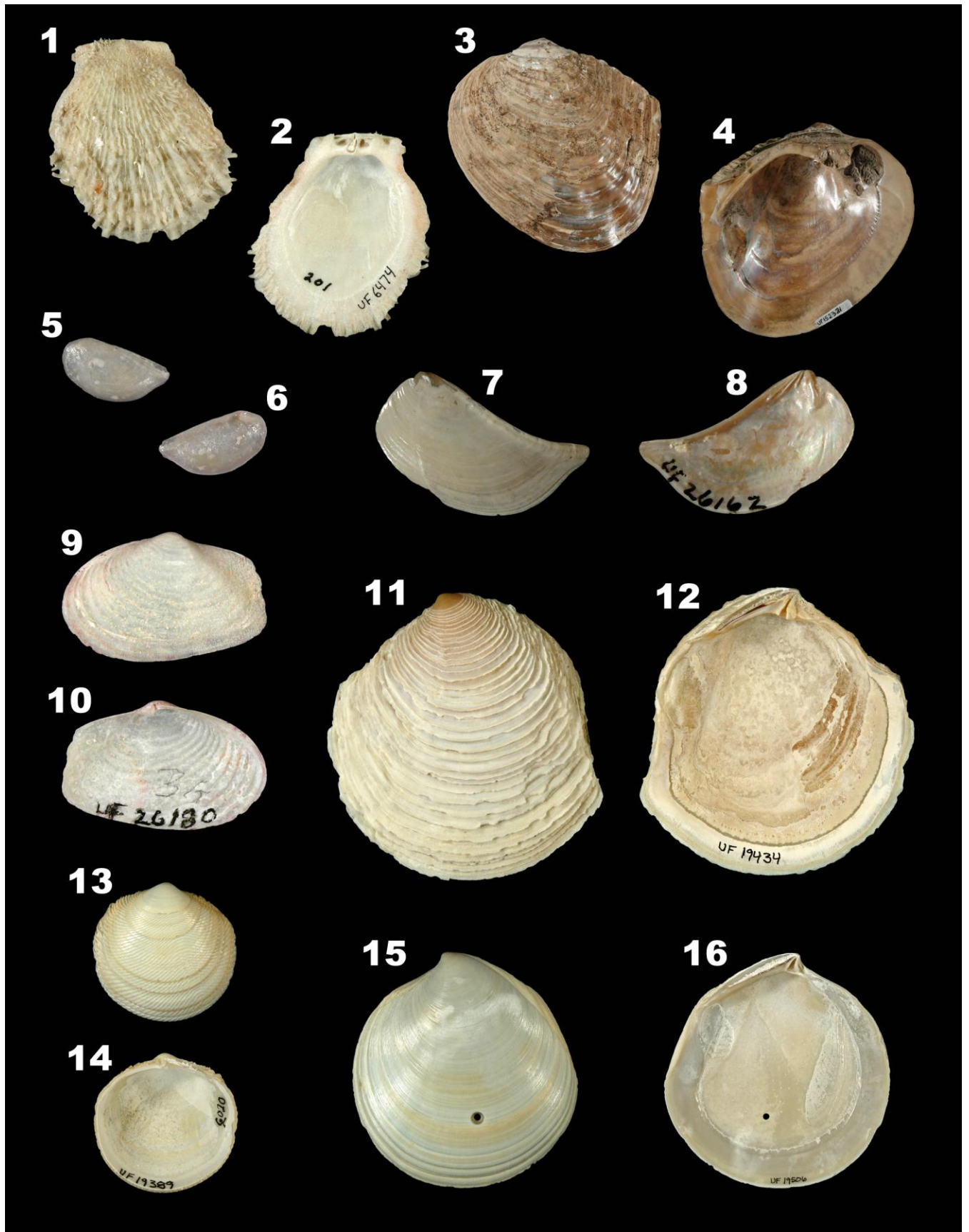


PLATE 4

CHAMIDAE

- 1) *Chama macerophylla* Gmelin, 1791; UF 6309; external view of right valve; 1x.
- 2) *Chama macerophylla* Gmelin, 1791; UF 6309; internal view of right valve; 1x.

HIATELLIDAE

- 3) *Hiatella arctica* (Linnaeus, 1767); UF 6490; external view of right valve; 1x.
- 4) *Hiatella arctica* (Linnaeus, 1767); UF 6490; internal view of right valve; 1x.

SPORTELLIDAE

- 5) *Ensitelops tabula* Olsson & Harbison, 1953; UF 26313; external view of left valve; 3x.
- 6) *Ensitelops tabula* Olsson & Harbison, 1953; UF 26313; internal view of left valve; 3x.

CARDIIDAE

- 7) *Acrosterigma declive* (Gabb, 1881); UF 26416; external view of left valve; 1x.
- 8) *Acrosterigma declive* (Gabb, 1881); UF 26416; internal view of left valve; 1x.
- 9) *Ctenocardia media* (Linnaeus, 1758); UF 30124; external view of right valve; 1x.
- 10) *Ctenocardia media* (Linnaeus, 1758); UF 30124; internal view of right valve; 1x.
- 11) *Laevicardium serratum* (Linnaeus, 1758); UF 19449; external view of right valve; 1x.
- 12) *Laevicardium serratum* (Linnaeus, 1758); UF 19449; internal view of right valve; 1x.
- 13) *Papyridea soleniformis* (Bruguiere, 1789); UF 19443; external view of right valve; 1x.
- 14) *Papyridea soleniformis* (Bruguiere, 1789); UF 19443; internal view of right valve; 1x.

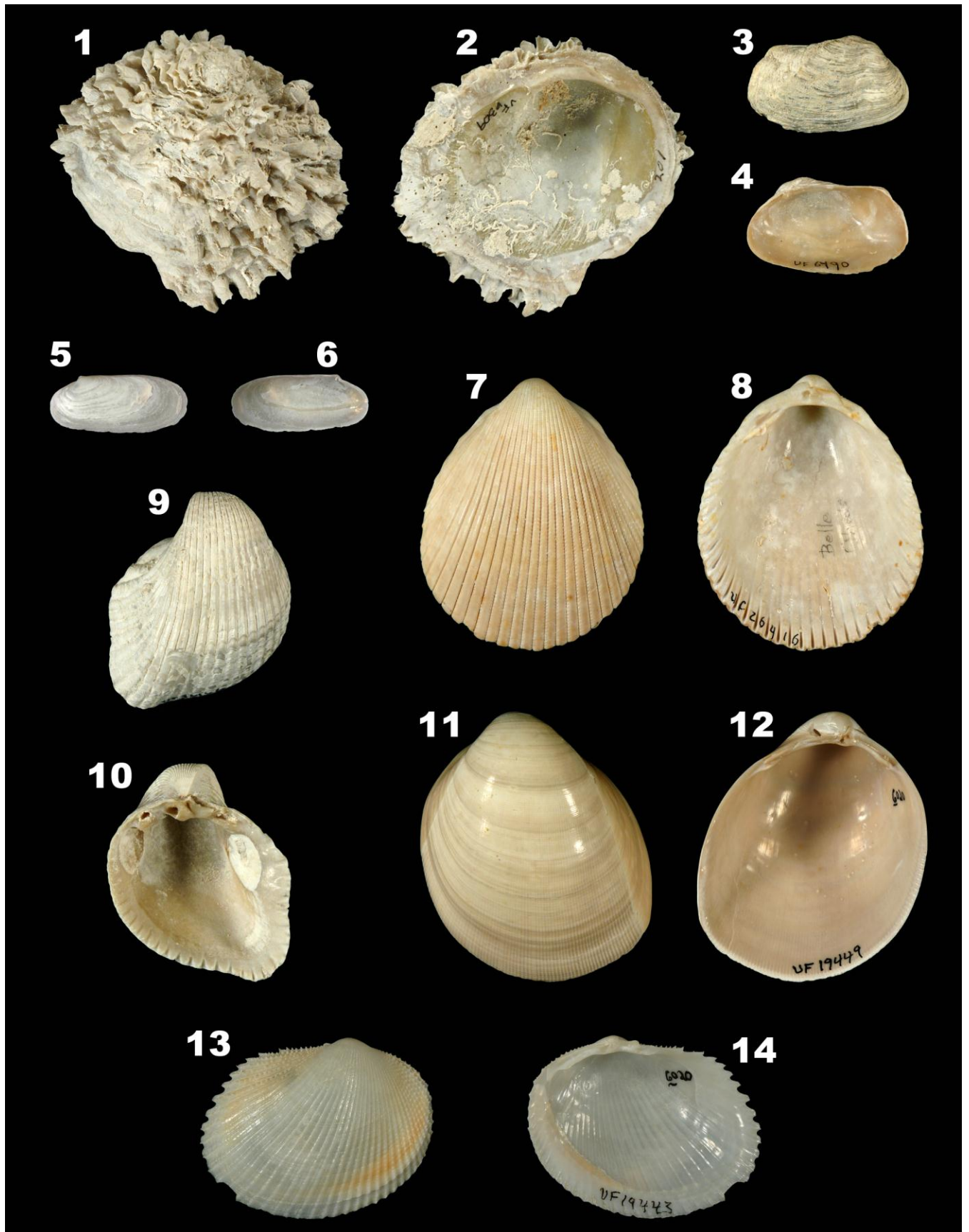


PLATE 5**VENERIDAE**

- 1) *Chionopsis intapurpurea* (Conrad, 1849); UF 14795; external view of left valve; 1x.
- 2) *Chionopsis intapurpurea* (Conrad, 1849); UF 14795; internal view of left valve; 1x.
- 3) *Choristodon robustus* (Sowerby, 1834); UF 26081; external view of right valve; 1x.
- 4) *Choristodon robustus* (Sowerby, 1834); UF 26081; internal view of right valve; 1x.
- 5) *Globivenus rugatina* (Heilprin, 1886); UF 6298; external view of right valve; 1x.
- 6) *Globivenus rugatina* (Heilprin, 1886); UF 6298; internal view of right valve; 1x.

TELLINIDAE

- 7) *Acorylus gouldii* (Hanley, 1846); UF 26249; external view of left valve; 2x.
- 8) *Acorylus gouldii* (Hanley, 1846); UF 26249; internal view of left valve; 2x.
- 9) *Arcopagia fausta* (Pulteney, 1799); UF 6496; external view of left valve; 1x.
- 10) *Arcopagia fausta* (Pulteney, 1799); UF 6496; internal view of left valve; 1x.
- 11) *Cymatoica orientalis* (Dall, 1890); UF 26394; external view of right valve; 3x.
- 12) *Cymatoica orientalis* (Dall, 1890); UF 26394; internal view of right valve; 3x.
- 13) *Laciolina magna* (Spengler, 1798); UF 170434; external view of right valve (note the predatory snail borehole); 0.5x.
- 14) *Laciolina magna* (Spengler, 1798); UF 170434; internal view of right valve (note the predatory snail borehole); 0.5x.
- 15) *Leporimetis intastriata* (Say, 1826); UF 6300; external view of right valve (note the predatory snail borehole); 1x.
- 16) *Leporimetis intastriata* (Say, 1826); UF 6300; internal view of right valve (note the predatory snail borehole); 1x.

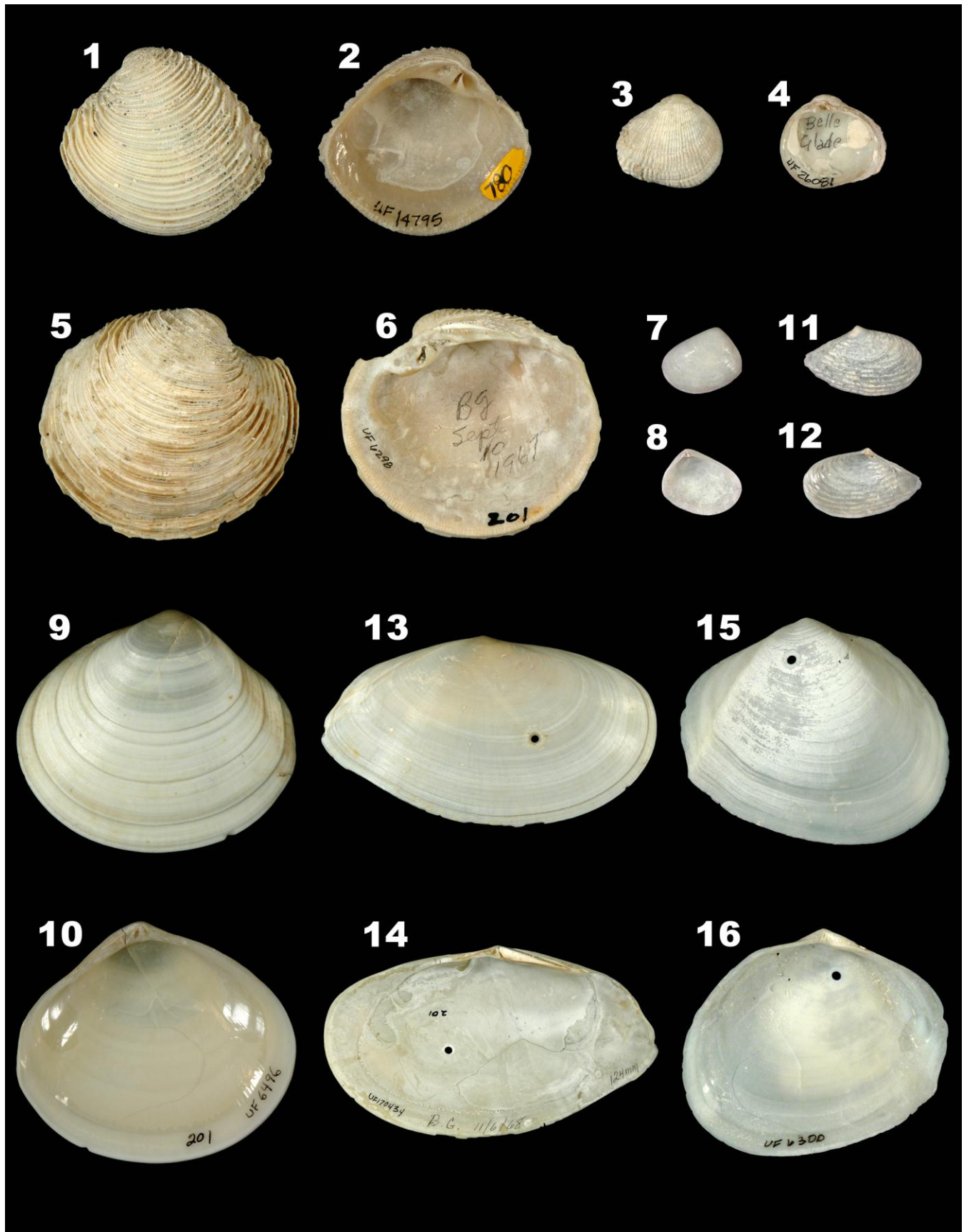


PLATE 6**TELLINIDAE (continued)**

- 1) *Macoma brevifrons* (Say, 1834); UF 26267; external view of right valve; 1x.
- 2) *Macoma brevifrons* (Say, 1834); UF 26267; internal view of right valve; 1x.
- 3) *Macoma constricta* (Bruguiere, 1792); UF 26204; external view of right valve; 1x.
- 4) *Macoma constricta* (Bruguiere, 1792); UF 26204; internal view of right valve; 1x.
- 5) *Macoma pseudomera* Dall & Simpson, 1901; UF 30295; external view of right valve; 1x.
- 6) *Macoma pseudomera* Dall & Simpson, 1901; UF 30295; internal view of right valve; 1x.
- 7) *Macoma tenta* (Say, 1834); UF 26399; external view of right valve; 1x.
- 8) *Macoma tenta* (Say, 1834); UF 26399; internal view of right valve; 1x.

SEMELIDAE

- 9) *Semele perlamelosa* Heilprin, 1886; UF 6304; external view of right valve; 0.75x.
- 10) *Semele perlamelosa* Heilprin, 1886; UF 6304; internal view of right valve; 0.75x.

SOLECURTIDAE

- 11) *Solecurtus cumingianus* (Dunker, 1861); UF 21006; external view of left valve; 0.75x.
- 12) *Solecurtus cumingianus* (Dunker, 1861); UF 21006; internal view of left valve; 0.75x.

MACTRIDAE

- 13) *Anatina anatina* (Spengler, 1802); UF 42003; external view of right valve; 0.75x.
- 14) *Anatina anatina* (Spengler, 1802); UF 42003; internal view of right valve; 0.75x.

CORBULIDAE

- 15) *Vokesula caloosae* (Dall, 1898); UF 6571; external view of right valve; 2x.
- 16) *Vokesula caloosae* (Dall, 1898); UF 6571; internal view of right valve; 2x.

DENTALIIDAE

- 17) *Anatalis antillarum* (d'Orbigny, 1842); UF 26431; lateral view; 2x.

GADILIDAE

- 18) *Polyschides carolinensis* (Bush, 1885); UF 26157; lateral view; 4x.

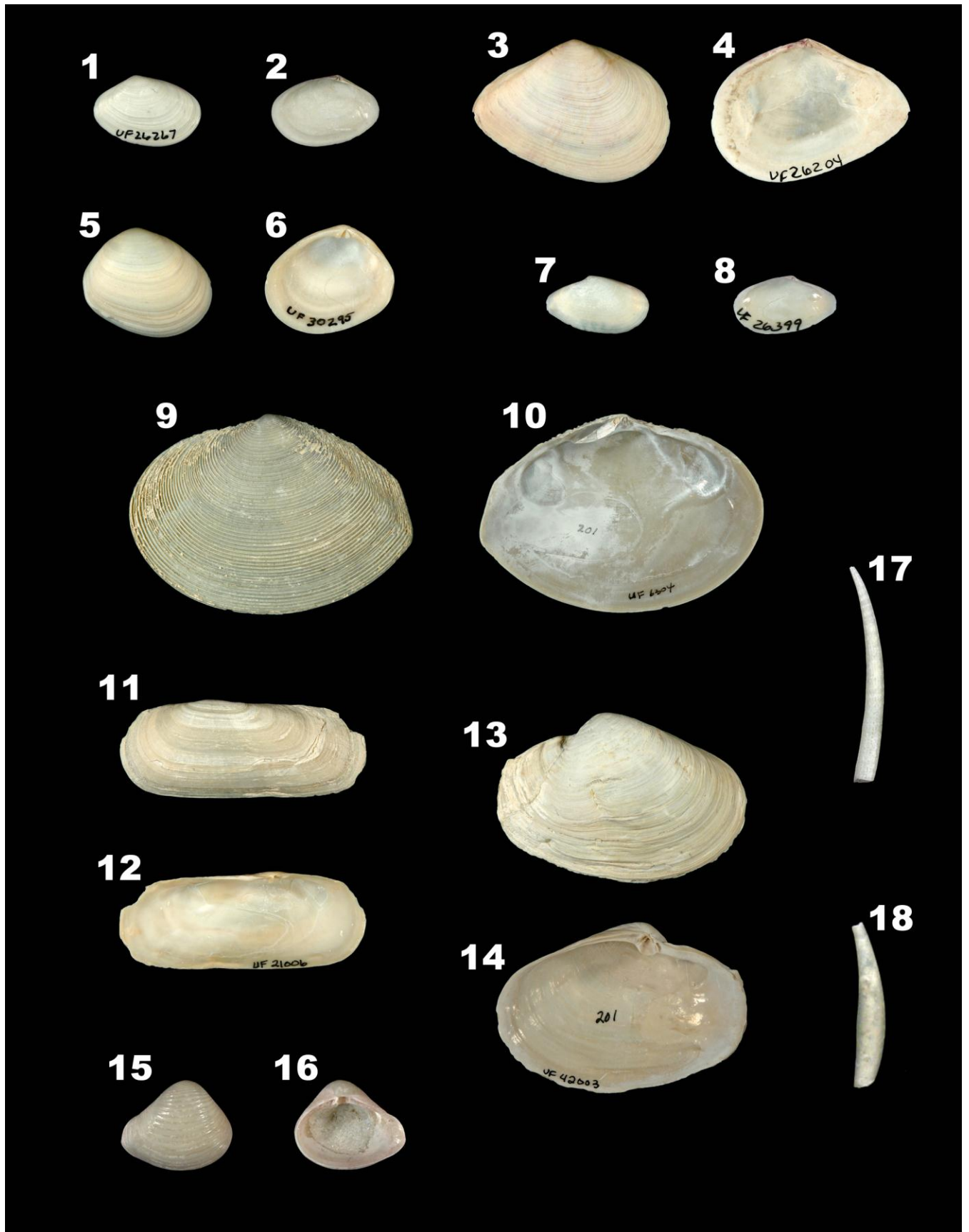


PLATE 7

FISSURELLIDAE

- 1) *Emarginula pilsbryi* Dall, 1892; UF 26104; dorsal view; 3x.
- 2) *Lucapina sowerbii* (Sowerby, 1835); UF 6473; dorsal view; 2x.
- 3) *Lucapinella limatula* (Reeve, 1850); UF 6617; dorsal view; 2x.

TURBINIDAE

- 4) *Turbo castanea* Gmelin, 1791; UF 26368; apertural view; 2x.

RISSOIDAE

- 5) *Rissoina cancellata* Philippi, 1847; UF 26476; apertural view; 4x.

TORNIDAE

- 6) *Cyclostremiscus beaultii* (Fischer, P., 1857); UF 26392; dorsal view; 3x.
- 7) *Cyclostremiscus beaultii* (Fischer, P., 1857); UF 26392; ventral view; 3x.
- 8) *Cyclostremiscus beaultii* (Fischer, P., 1857); UF 26392; apertural view; 3x.
- 9) *Teinostoma carinicalus* Pilsbry & McGinty, 1946; UF 26273; apertural view; 8x.

STROMBIDAE

- 10) *Lobatus mayacensis* (Tucker & Wilson, 1933); UF 19494; apertural view; 1x.

HIPPONICIDAE

- 11) *Cheilea equestris* (Linnaeus, 1758); UF 6491; dorsal view; 3x.

XENOPHORIDAE

- 12) *Xenophora conchyliophora* (Born, 1780); UF 6618; apertural view; 1x.

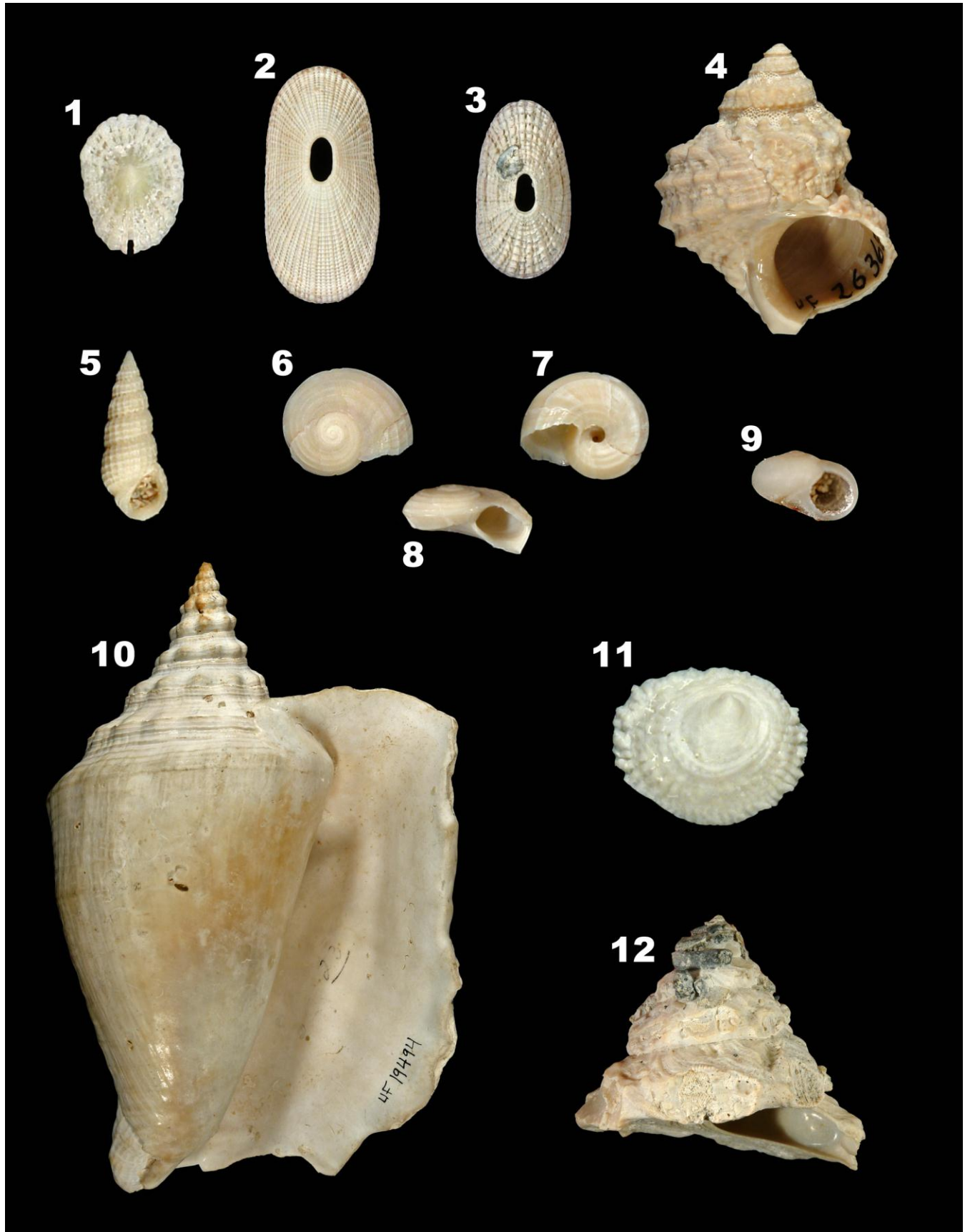


PLATE 8

CYPRAEIDAE

- 1) *Macrocypraea cervus* (Linnaeus, 1771); UF 195086; apertural view; 1x.

OVULIDAE

- 2) *Jenneria loxahatchiensis* (Smith, M., 1936); UF 170690; apertural view; 2x.
- 3) *Jenneria loxahatchiensis* (Smith, M., 1936); UF 170690; dorsal view; 2x.
- 4) *Pseudocyphoma intermedium* (Sowerby, 1828); UF 26202; apertural view; 1x.

TRIVIIDAE

- 5) *Cleotrivia antillarum* (Schilder, 1922); UF 26100; apertural view; 4x.

NATICIDAE

- 6) *Sigatica semisulcata* (Gray, 1839); UF 26333; apertural view; 4x.
- 7) *Sinum perspectivum* (Say, 1831); UF 6516; apertural view; 2x.

CASSIDAE

- 8) *Cassis madagascariensis* Lamarck, 1822; UF 6555; apertural view of juvenile; 1x.
- 9) *Semicassis granulata* (Born, 1778); UF 30140; apertural view; 1x.

TONNIDAE

- 10) *Tonna galea* (Linnaeus, 1758); UF 6636; apertural view; 1x.

RANELLIDAE

- 11) *Cymatium krebsii* (Morch, 1877); UF 161076; apertural view; 1x.

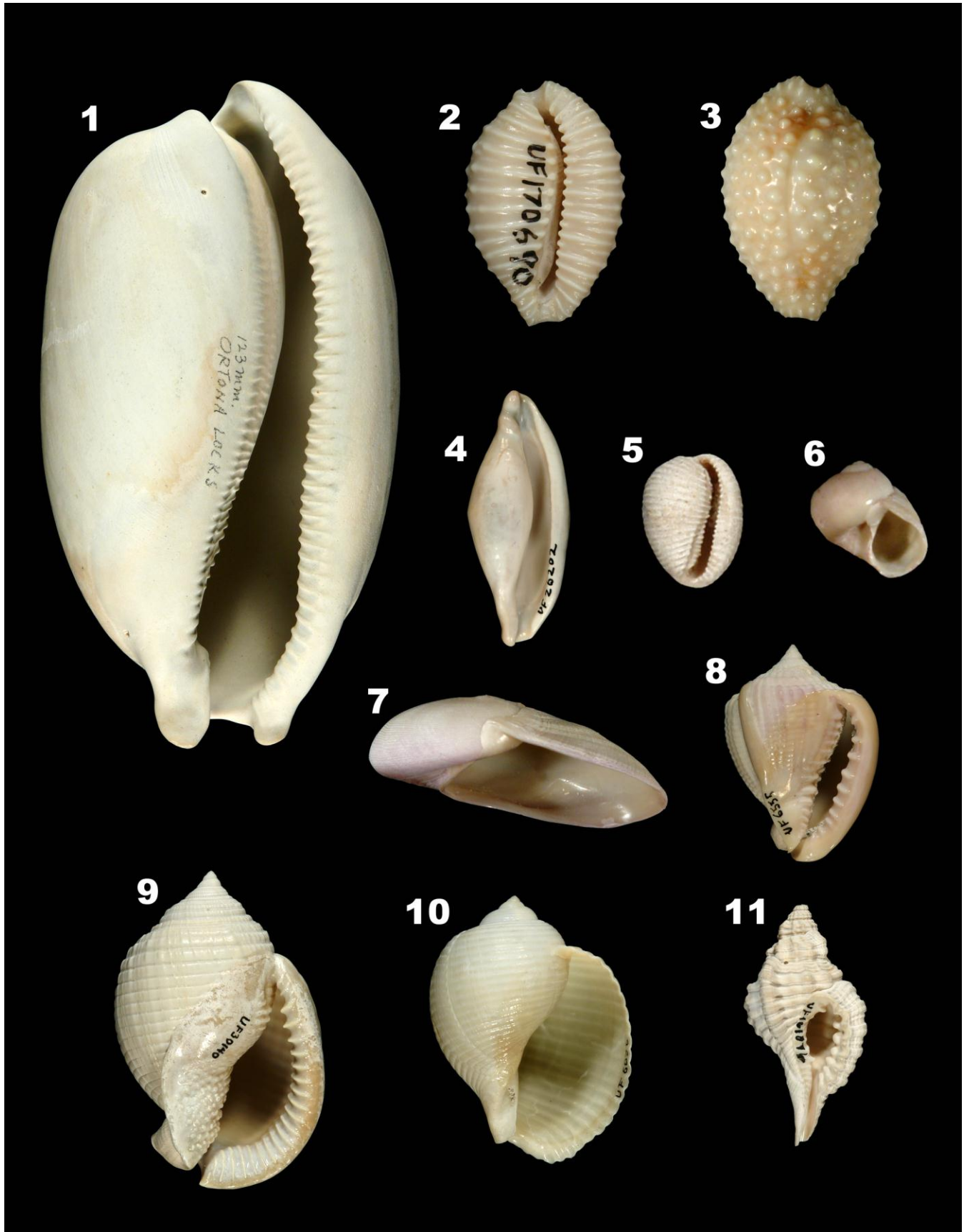


PLATE 9

TRIPHORIDAE

- 1) *Marshallora cf. nigrocincta* (Adams, C.B., 1839); UF 6575; apertural view (note left hand coiling); 10x.

EPITONIIDAE

- 2) *Epitonium foliaceicosta* (d'Orbigny, 1842); UF 26226; apertural view; 4x.
- 3) *Epitonium rupicola* (Kurtz, 1860); UF 26195; apertural view; 4x.
- 4) *Opalia debouryi* (Dall, 1890); UF 26502; apertural view; 2x.

MURICIDAE

- 5) *Eupleura sulcidentata* Dall, 1890; UF 16380; apertural view; 4x.
- 6) *Favartia cellulosa* (Conrad, 1846); UF 19323; apertural view; 2x.
- 7) *Murexiella graceae* (McGinty, 1940); UF 6481; apertural view; 2x.
- 8) *Phyllonotus pomum* (Gmelin, 1791); UF 21132; apertural view; 2x.
- 9) *Urosalpinx perrugata* (Conrad, 1846); UF 12865; apertural view; 2x.
- 10) *Vokesimurex anniae* (Smith, M., 1940); UF 1350 (Holotype – originally described as *Murex anniae*); apertural view; 2x.
- 11) *Vokesimurex rubidus* (Baker, F.C., 1897); UF 26420; apertural view; 2x.

Notes: **1)** Sean Roberts (FLMNH) assisted with digital photography using a Sony DSC-R1 (10.3 megapixel resolution). **2)** For more information about specimens figured herein and images used in previous issues of the Florida Fossil Invertebrates series, please see our web site located at www.flmnh.ufl.edu/invertpaleo/galleries.htm.

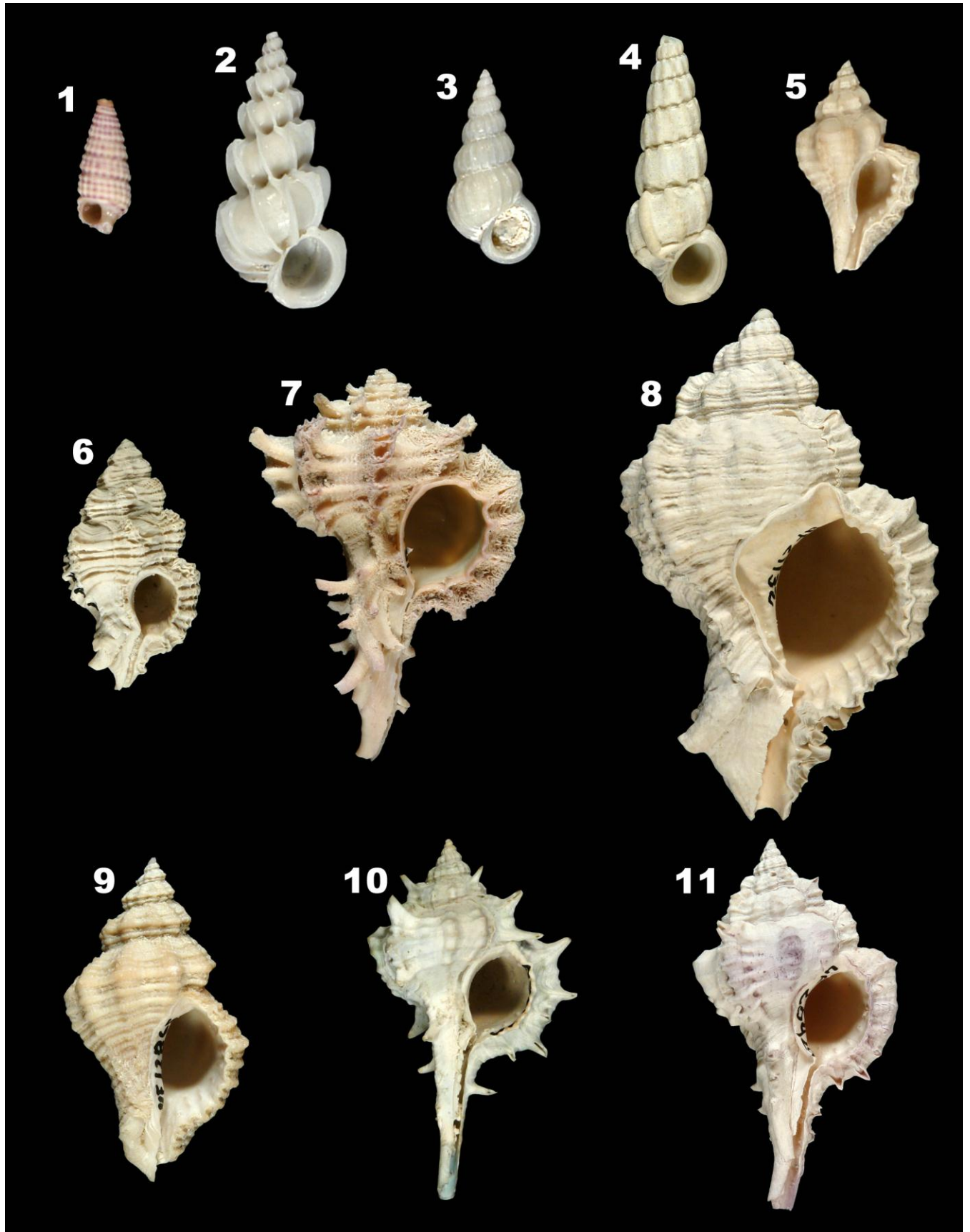


PLATE 10

TURBINELLIDAE

- 1) *Turbinella hoerlei* Vokes, E.H., 1966; UF 21014; apertural view; 0.5x.

BUCCINIDAE

- 2) *Hesperisternia multangulus* (Philippi, 1848); UF 30252; apertural view; 2x.

MELONGENIDAE

- 3) *Busycotypus spiratus* (Lamarck, 1816); UF 19320; apertural view; 0.5x.
- 4) *Sinistrofulgur contrarium* (Conrad, 1840); UF 30110; apertural view; 0.5x.

FASCIOLARIIDAE

- 5) *Fusinus watermani* (Smith, M., 1936); UF 19412; apertural view; 1x.
- 6) *Polygona jucunda* (McGinty, 1940); UF 19466; apertural view; 2x.

COLUMBELLIDAE

- 7) *Eurypyrene miccosukee* Petuch, 1991; UF 26452; apertural view; 2x.

VOLUTIDAE

- 8) *Scaphella floridana* (Heilprin, 1886); UF 19331; apertural view; 0.5x.

OLIVIDAE

- 9) *Lindoliva spengleri* Petuch, 1988; UF 190672; apertural view; 0.5x.

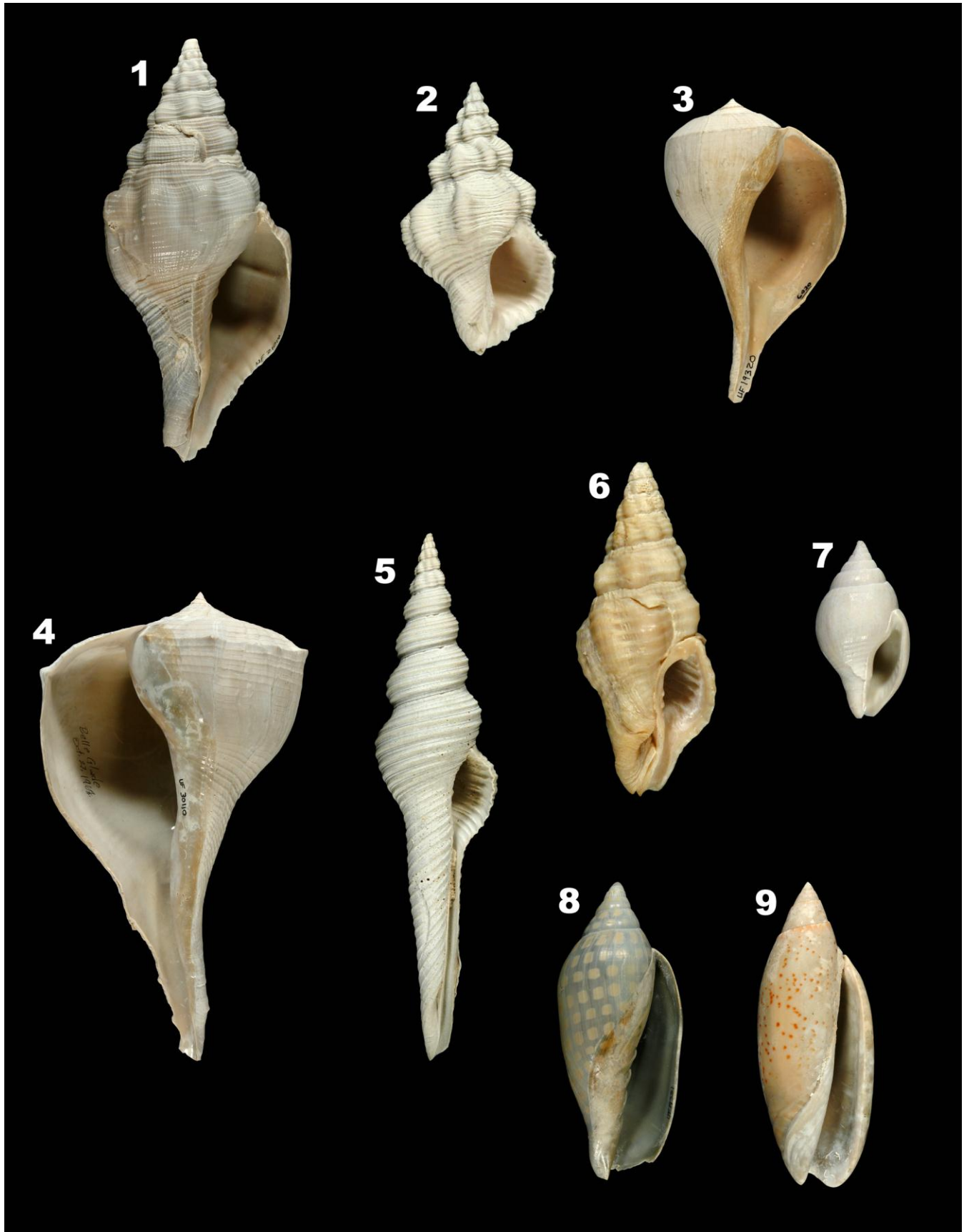


PLATE 11**HARPIDAE**

- 1) *Morum oniscus* (Linnaeus, 1767); UF 26492; apertural view; 2x.

MARGINELLIDAE

- 2) *Dentimargo eburneolus* (Conrad, 1834); UF 6415; apertural view; 4x.
3) *Hyalina pallida* (Linnaeus, 1758); UF 26439; apertural view; 3x.

CANCELLARIDAE

- 4) *Cancellaria pachia* (Smith, M., 1940); UF 1319 (Holotype); apertural view; 2x.
5) *Trigonostoma tenerum* (Philippi, 1848); UF 26453; apertural view; 2x.

TEREBRIDAE

- 6) *Terebra concava* (Say, 1826); UF 6559; apertural view; 3x.

TURRIDAE

- 7) *Agathotoma candidissima* (Adams, C.B., 1845); UF 26147; apertural view; 5x.
8) *Kurtziella limonitella* (Dall, 1884); UF 26397; apertural view; 5x.
9) *Splendrillia moseri* (Dall, 1889); UF 26520; apertural view; 2x.
10) *Zonulispira crocata* (Reeve, 1845); UF 30310; apertural view; 2x.

ARCHITECTONICIDAE

- 11) *Architectonica nobilis* Roding, 1798; UF 26075; dorsal view; 1x.
12) *Architectonica nobilis* Roding, 1798; UF 26075; ventral view; 1x.
13) *Architectonica nobilis* Roding, 1798; UF 26075; apertural view; 1x.

RETUSIDAE

- 14) *Retusa sulcata* (d'Orbigny, 1841); UF 26505; apertural view; 8x.

BULLIDAE

- 15) *Bulla solida* Gmelin, 1791; UF 26148; apertural view; 1x.

HAMINOEIDAE

- 16) *Haminoea antillarum* (d'Orbigny, 1841); UF 26089; apertural view; 6x.

CAVOLINIIDAE

- 17) *Diacavolinia longirostris* (Blainville, 1821); UF 26480; ventral view; 6x.

BULIMULIDAE

- 18) *Bulimulus dealbatus* (Say, 1821); UF 26296; apertural view; 2x.

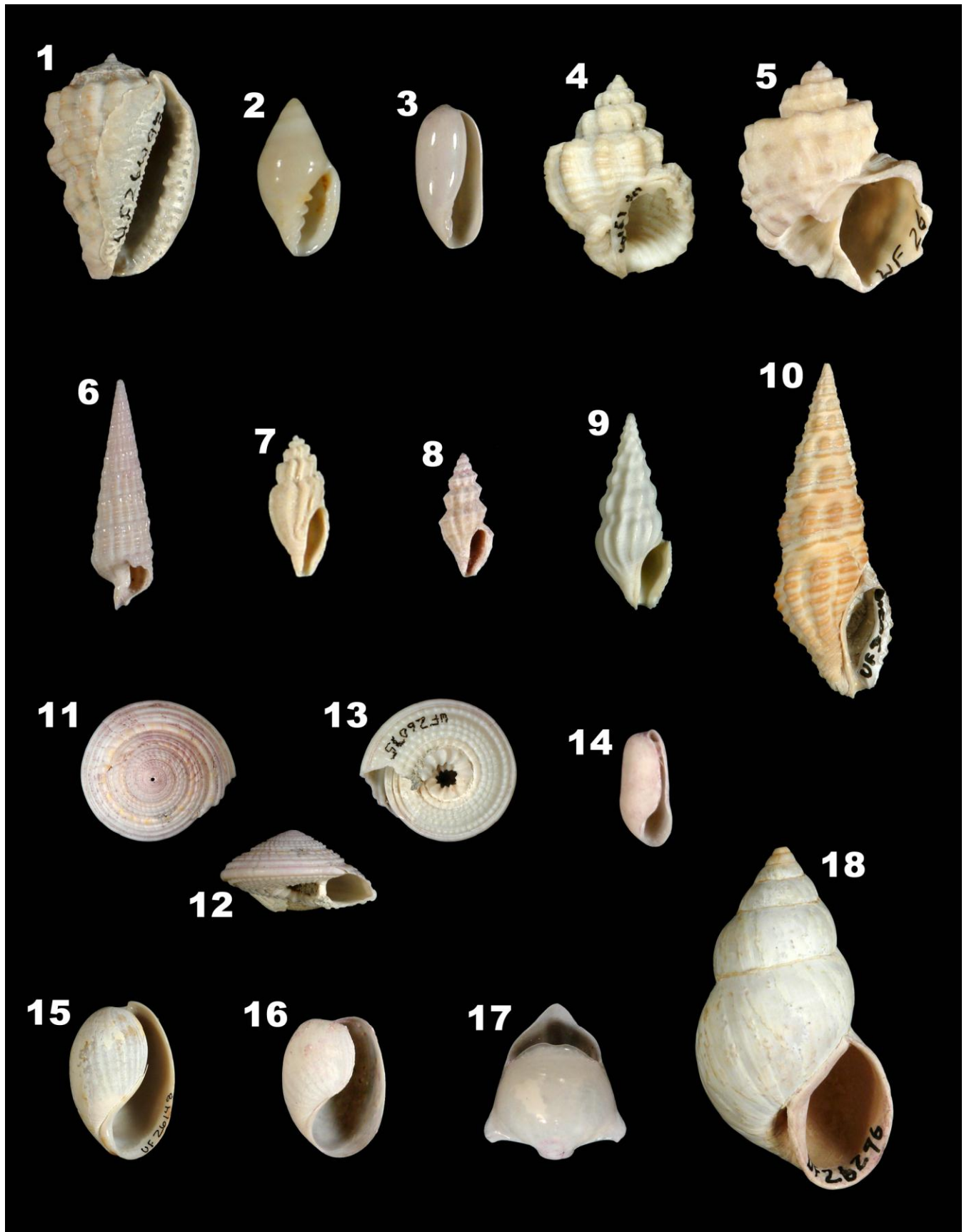


Table 1. List of published and FLMNH Invertebrate Paleontology Collection Mollusca from the Middle Pleistocene Bermont Formation of Florida. Classification arrangement for bivalves is based on Mikkelsen and Bieler (2008) and for gastropods based on Turgeon et al. (1998). Most subspecies and all doubtful records and synonyms have been removed. Furthermore, some published records listed were based solely on spoil collected specimens from mixed stratigraphic units and therefore remain questionable. Notation **cf.** (confer) means compare to. Species figured herein are followed by a bolded Plate (**PL**) number.

BIVALVIA

NUCULIDAE

Nucula proxima Say, 1822

NUCULANIDAE

Nuculana acuta (Conrad, 1832)

ARCIDAE

Acar domingensis (Lamarck, 1819)

Anadara aequilites (Tucker & Wilson, 1932) (**PL 1**)

Anadara catasarca (Dall, 1898) (**PL 1**)

Anadara floridana (Conrad, 1869)

Anadara scalarina (Heilprin, 1886)

Anadara transversa (Say, 1822)

Anadara tuberculosa (Sowerby, 1833)

Arca imbricata Bruguiere, 1789

Arca zebra (Swainson, 1833) (**PL 1**)

Cucullaearca candida (Helbling, 1779) (**PL 1**)

Fugleria tenera (Adams, C.B., 1845)

NOETIIDAE

Arcopsis adamsi (Dall, 1886)

Noetia platyura (Dall, 1898)

Noetia ponderosa (Say, 1822)

GLYCYMERIDIDAE

Glycymeris americana (Defrance, 1826) (**PL 1**)

Tucetona pectinata (Gmelin, 1791)

MYTILIDAE

Botula fusca (Gmelin, 1791)

Brachidontes exustus (Linnaeus, 1758)

Crenella decussata (Montagu, 1808)

Gregariella coralliophaga (Gmelin, 1791) (**PL 1**)

Modiolus americanus (Leach, 1815) (**PL 1**)

Musculus lateralis (Say, 1822)

PTERIIDAE

Pinctada imbricata Roding, 1798

Pteria colymbus (Roding, 1798)

ISOGNOMONIDAE

Isognomon radiatus (Anton, 1838)

OSTREIDAE

Conradostrea sculpturata (Conrad, 1840) (**PL 2**)

Crassostrea virginica (Gmelin, 1791)

Ostrea equestris Say, 1834

LIMIDAE

Ctenoides scabra (Born, 1778) (**PL 2**)

Lima caribaea d'Orbigny, 1853

Limaria pellucida (Adams, C.B., 1846)

Limatula subovata (Jeffreys, 1876) (**PL 2**)

PECTINIDAE

Aequipecten muscosus (Wood, 1828)

Argopecten gibbus (Linnaeus, 1758)

Brachteclamys antillarum (Recluz, 1853) (**PL 2**)

Carolinapecten jamieae Petuch, 2004

Euvola raveneli (Dall, 1898) (**PL 2**)

Nodipecten fragosus (Conrad, 1849) (**PL 2**)

SPONDYLIDAE

Spondylus cf. *S. americanus* Hermann,
1781 (PL 3)

PLICATULIDAE

Plicatula gibbosa Lamarck, 1801

ANOMIIDAE

Anomia simplex d'Orbigny, 1853

UNIONIDAE

Elliptoides sloatianus (Lea, 1840)
Megalonaias boykiniana (Lea, 1840)
(PL 3)
Utterbackia cf. *U. imbecillis*
(Say, 1829)

CRASSATELLIDAE

Crassinella lunulata (Conrad, 1834)
Eucrassatella speciosa (Adams, A.,
1854)

CARDITIDAE

Carditamera floridana Conrad, 1838
Pleuromeris tridentata (Say, 1826)
Pteromeris perplana (Conrad, 1841)

PANDORIDAE

Pandora bushiana Dall, 1886 (PL 3)
Pandora trilineata Say, 1822 (PL 3)

THRACIIDAE

Cyathodonta rugosa (Lamarck, 1818)
(PL 3)

VERTICORDIIDAE

Trigonulina ornata d'Orbigny, 1853

CUSPIDARIIDAE

Cardiomya costellata (Deshayes, 1833)
Cardiomya gemma Verrill & Bush, 1898
Cardiomya ornatissima (d'Orbigny,
1853)
Plectodon granulatus (Dall, 1881)

LUCINIDAE

Anodontia alba Link, 1807
Anodontia schrammi (Crosse, 1876)
Armimiltha disciformis (Heilprin, 1866)
(PL 3)
Callucina keenae Chavan, 1971
Cavilinga blanda (Dall, 1901)
Ctena orbiculata (Montagu, 1808)
Codakia orbicularis (Linnaeus, 1758)
Divalinga quadrisulcata (d'Orbigny,
1845)
Divaricella dentata (Wood, 1815) (PL 3)
Lucina pensylvanica (Linnaeus, 1758)
Lucinisca nassula (Conrad, 1846)
Miltha carmenae Vokes, H.E., 1969
(PL 3)
Parvilucina costata (d'Orbigny, 1845)
Parvilucina crenella (Dall, 1901)
Radiolucina waccamawensis
(Dall, 1903)

UNGULINIDAE

Diplodonta nucleiformis (Wagner, 1840)
Diplodonta punctata (Say, 1822)
Phlyctiderma semiaspera (Philippi,
1836)

THYASIRIDAE

Thyasira trisinuata (d'Orbigny, 1853)

CYRENOIDIDAE

Cyrenoida floridana Dall, 1896

CHAMIDAE

Arcinella cornuta Conrad, 1866
Chama congregata Conrad, 1833
Chama gardnerae Olsson & Harbison,
1953
Chama macerophylla Gmelin, 1791
(PL 4)
Chama radians Lamarck, 1819

LASAEIDAE

Bornia lioica Dall, 1900
Bornia mazyckii Dall, 1900
Parabornia squillina Boss, 1965

LEPTONIDAE

- Mysella planulata* (Stimpson, 1851)
Orobitella floridana (Dall, 1899)

HIATELLIDAE

- Hiatella arctica* (Linnaeus, 1767) **(PL 4)**
Panopea bitruncata (Conrad, 1872)
Panopea floridana Heilprin, 1886

GASTROCHAENIDAE

- Lamychaena hians* (Gmelin, 1791)
Spengleria rostrata (Spengler, 1783)

TRAPEZIDAE

- Coralliophaga coralliophaga* (Gmelin, 1791)

SPORTELLIDAE

- Ensitelops tabula* Olsson & Harbison, 1953 **(PL 4)**
Fabella dalli Olsson & Harbison, 1953

CARDIIDAE

- Acrosterigma declive* (Gabb, 1881) **(PL 4)**
Ctenocardia media (Linnaeus, 1758) **(PL 4)**
Dallocardia muricata (Linnaeus, 1758)
Dinocardium robustum (Lightfoot, 1786)
Laevicardium serratum (Linnaeus, 1758) **(PL 4)**
Papyridea semisulcata (Gray, 1825)
Papyridea soleniformis (Bruguiere, 1789) **(PL 4)**
Trachycardium egmontianum (Shuttleworth, 1856)
Trachycardium emmonsi (Conrad, 1867)

VENERIDAE

- Anomalocardia brasiliiana* (Gmelin, 1791)
Anomalocardia caloosana (Dall, 1900)
Anomalocardia concinna Olsson & Harbison, 1953

Anomalocardia cuneimeris (Conrad, 1846)

Chione elevata (Say, 1822)
Chionopsis intapurpurea (Conrad, 1849) **(PL 5)**

Choristodon robustus (Sowerby, 1834) **(PL 5)**

Cyclinella tenuis (Recluz, 1852)
Dosinia elegans (Conrad, 1843)
Globivenus rugatina (Heilprin, 1886) **(PL 5)**

Gouldia cerina (Adams, C.B., 1845)
Lirophora latilirata (Conrad, 1841)
Macrocallista maculata (Linnaeus, 1758)

Macrocallista nimbose (Lightfoot, 1786)
Mercenaria campechiensis (Gmelin, 1791)

Parastarte triquetra (Conrad, 1846)
Periglypta listeri (Gray, 1838)
Pitar morrhuanus (Dall, 1902)
Pitar simpsoni (Dall, 1895)
Pitarenus cordatus (Schwengel, 1951)
Timoclea grus (Holmes, 1858)
Transennella conradina (Dall, 1884)
Transennella cubaniana (d'Orbigny, 1853)

TELLINIDAE

- Acorylus gouldii* (Hanley, 1846) **(PL 5)**
Arcopagia fausta (Pulteney, 1799) **(PL 5)**
Angulus merus (Say, 1834)
Angulus sybariticus (Dall, 1881)
Angulus versicolor (DeKay, 1843)
Cymatoica orientalis (Dall, 1890) **(PL 5)**
Eurytellina alternata (Say, 1822)
Eurytellina lineata (Turton, 1819)
Eurytellina nitens (Adams, C.B., 1845)
Laciolina magna (Spengler, 1798) **(PL 5)**
Leporimetis intastriata (Say, 1826) **(PL 5)**
Macoma brevifrons (Say, 1834) **(PL 6)**
Macoma constricta (Bruguiere, 1792) **(PL 6)**

Macoma pseudomera Dall & Simpson,
1901 (PL 6)

Macoma tageliformis Dall, 1900
Macoma tenta (Say, 1834) (PL 6)
Merisca aequistriata (Say, 1824)
Scissula similis (Sowerby, 1806)
Strigilla mirabilis (Philippi, 1841)
Tellidora cristata (Recluz, 1842)
Tellinella listeri (Roding, 1798)

SEMELIDAE

Abra aequalis (Say, 1822)
Cumingia tellinoides (Conrad, 1830)
Ervilia concentrica (Holmes, 1858)
Semele bellastrata (Conrad, 1837)
Semele perlamelosa Heilprin, 1886
(PL 6)
Semele proficua (Pulteney, 1799)
Semele purpurascens (Gmelin, 1791)
Semelina nuculoides (Conrad, 1841)

SOLECURTIDAE

Solecurtus cumingianus (Dunker, 1861)
(PL 6)
Solecurtus sanctaemarthae d'Orbigny
1853
Tagelus divisus (Spengler, 1794)

PHARIDAE

Ensis megistus Pilsbry & McGinty, 1943
Ensis minor Dall, 1900

MACTRIDAE

Anatina anatina (Spengler, 1802)
(PL 6)
Maclratoma fragilis (Gmelin, 1791)
Mulinia lateralis (Say, 1822)
Raeta plicatella (Lamarck, 1818)
Rangia cuneata (Sowerby, 1831)
Spisula peninsulae Smith, 1937

MYIDAE

Sphenia tumida Lewis, 1968

CORBULIDAE

Caryocorbula caribaea (d'Orbigny,
1853)
Caryocorbula contracta (Say, 1822)
Juliacorbula scutata (Gardner, 1943)
Varicorbula krebsiana (Adams, C.B.,
1852)
Vokesula caloosae (Dall, 1898) (PL 6)

SCAPHOPODA

DENTALIIDAE

Antalis antillarum (d'Orbigny, 1842)
(PL 6)
Antalis pilsbryi (Rehder, 1942)
Dentalium laqueatum Verrill, A.E., 1885
Graptacme eborea (Conrad, 1846)

GADILINIDAE

Episiphon sowerbyi (Guilding, 1834)

GADILIDAE

Polyschides carolinensis (Bush, 1885)
(PL 6)
Polyschides tetraschistus (Watson,
1879)
Polyschides tetrodon (Pilsbry & Sharp,
1898)

GASTROPODA

LOTTIIDAE

Patelloida pustulata (Helbling, 1779)

FISSURELLIDAE

Diodora carditella (Dall, 1892) extinct
Diodora cayenensis (Lamarck, 1822)
Diodora meta (Ihering, 1927)
Diodora sayi (Dall, 1889)
Emarginula pilsbryi Dall, 1892 (PL 7)
Lucapina sowerbii (Sowerby, 1835)
(PL 7)
Lucapina suffusa (Reeve, 1850)
Lucapinella limatula (Reeve, 1850)
(PL 7)

LIOTIIDAE

Arene tricarinata (Stearns, 1872)

PHASIANELLIDAE

Eulithidium thalassicola (Robertson, 1958)

TURBINIDAE

Astralium phoebium (Roding, 1798)
Didianema pauli Pilsbry & McGinty, 1945
Lithopoma americanum (Gmelin, 1791)
Lithopoma lindae (Petuch, 1994)
Tegula fasciata (Born, 1778)
Turbo castanea Gmelin, 1791 **(PL 7)**

CALLIOSTOMATIDAE

Calliostoma euglyptum (Adams, A., 1855)
Calliostoma jujubinum (Gmelin, 1791)
Calliostoma lindae Petuch, 1994
Calliostoma pulchrum (Adams, C.B., 1850)
Calliostoma tampaense (Conrad, 1846)

NERITIDAE

Smaragdia virdis (Linnaeus, 1758)

VIVIPARIDAE

Viviparus georgianus (Lea, I, 1834)

AMPULLARIIDAE

Pomacea paludosa (Say, 1829)

SCALIOLIDAE

Finella adamsi (Dall, 1889)
Finella dubia (d'Orbigny, 1840)

LITIOPIDAE

Alaba incerta (d'Orbigny, 1841)
Litiopa melanstoma Rang, 1829

CERITHIIDAE

Bittium varium (Pfeiffer, 1840)
Cerithium atratum (Born, 1778)
Cerithium eburneum Bruguiere, 1792
Cerithium guinaicum Philippi, 1849
Cerithium litteratum (Born, 1778)
Cerithium muscarum Say, 1832

POTAMIDIDAE

Cerithidea costata (da Costa, 1778)
Cerithidea duerri Petuch, 1994
Pyrazisinus miamiensis Petuch, 1994
Pyrazisinus palmbeachensis Petuch, 1994
Pyrazisinus roseae Petuch, 1991
Pyrazisinus scalatus (Heilprin, 1886)
Pyrazisinus turriculus Petuch, 1994

MODULIDAE

Modulus bermontianus Petuch, 1987
Modulus calusa Petuch, 1988
Modulus carchedonius (Lamarck, 1822)
Modulus lindae Petuch, 1987
Modulus modulus (Linnaeus, 1758)

TURRITELLIDAE

Apicula apicalis (Heilprin, 1886)
Torcula acropora (Dall, 1892)
Torcula intermedia (Dall, 1892)
Torculoidella subannulata (Heilprin, 1886)
Vermicularia fargoii Olsson, 1951
Vermicularia spirata (Philippi, 1836)
Vermicularia weberi Olsson & Harbison, 1953
Vermicularia woodringi Olsson & Harbison, 1953

RISSOIDAE

Alvania auberiana (d'Orbigny, 1842)
Rissoina cancellata Philippi, 1847
(PL 7)
Rissoina decussata (Montagu, 1803)
Schwartziella catesyana (d'Orbigny, 1842)
Schwartziella chesnelli (Michaud, 1830)
Zebina browniana (d'Orbigny, 1842)

HYDROBIIDAE

Tryonia aequicostata (Pilsbry, 1889)

ELACHISINIDAE

Elachisina floridana (Rehder, 1943)

TORNIDAE

- Anticlimax pilsbryi* (McGinty, 1945)
Aorotrema pontogenes (Schwengel & McGinty, 1942)
Cochliolepis holmesii (Dall, 1889)
Cochliolepis striata Dall, 1889
Cyclostremiscus beauui (Fischer, 1857)
(PL 7)
Cyclostremiscus pentagonus (Gabb, 1873)
Episcynia inornata (d'Orbigny, 1842)
Parviturboides avitus Pilsbry, 1953
Solariorbis blakei (Rehder, 1944)
Solariorbis funiculus (Dall, 1892)
Solariorbis infracarinatus (Gabb, 1881)
Solariorbis mooreanus (Vanatta, 1904)
Teinostoma biscaynense Pilsbry & McGinty, 1945
Teinostoma carinicalus Pilsbry & McGinty, 1946 **(PL 7)**
Teinostoma goniogyrus Pilsbry & McGinty, 1945
Teinostoma parvicallum Pilsbry & McGinty, 1945

CAECIDAE

- Caecum circumvolutum* Folin, 1867
Caecum floridanum Stimpson, 1851
Caecum imbricatum Carpenter, 1858
Caecum pulchellum Stimpson, 1851
Caecum regulare Carpenter, 1858
Meioceras nitidum (Stimpson, 1851)

STROMBIDAE

- Lobatus costatus* (Gmelin, 1791)
Lobatus diegelae (Petuch, 1991)
Lobatus gigas (Linnaeus, 1758)
Lobatus jonesorum (Petuch, 1994)
Lobatus mayacensis (Tucker & Wilson, 1933) **(PL 7)**
Lobatus raninus (Gmelin, 1791)
Lobatus scotti (Petuch, 1994)
Lobatus williamsi Olsson & Petit, 1964
Strombus alatus Gmelin, 1791
Strombus erici Petuch, 1994

- Strombus evergladesensis* Petuch, 1991
Strombus lindae Petuch, 1991

HIPPONICIDAE

- Cheilea equestris* (Linnaeus, 1758)
(PL 7)

CALYPTRAEIDAE

- Bostrycapulus aculeatus* (Gmelin, 1791)
Calyptraea centralis (Conrad, 1841)
Crepidula fornicata (Linnaeus, 1758)
Crepidula plana Say, 1822
Crepidula maculosa (Conrad, 1846)
Crucibulum auricula (Gmelin, 1791)
Crucibulum multilineatum (Conrad, 1842)
Crucibulum striatum (Say, 1826)

XENOPHORIDAE

- Xenophora conchyliophora* (Born, 1780) **(PL 7)**
Xenophora microdiscus Petuch, 1994

VERMETIDAE

- Serpulorbis decussatus* (Gmelin, 1791)

CYPRAEIDAE

- Luria cinerea* (Gmelin, 1791)
Luria voleki Petuch, 2004
Macrocypraea cervus (Linnaeus, 1771)
(PL 8)
Macrocypraea joanneae (Petuch, 2004)
Pseudozonaria portelli (Petuch, 1990)

OVULIDAE

- Cymbovula acicularis* (Lamarck, 1811)
Cyphoma gibbosum (Linnaeus, 1758)
Cyphoma lindae Petuch, 1987
Cyphoma mcgintyi Pilsbry, 1939
Cyphoma signatum Pilsbry & McGinty, 1939
Jenneria loxahatchiensis (Smith, M., 1936) **(PL 8)**

Pseudocyphoma intermedium
(Sowerby, 1828) **(PL 8)**

TRIVIIDAE

Cleotrivia antillarum (Schilder, 1922)
(PL 8)

Hespererato maugeriae (Gray, 1832)

Niveria quadripunctata (Gray, 1827)

Niveria cf. *N. suffusa* (Gray, 1827)

Pusula pediculus (Linnaeus, 1758)

Pusula lindajoyceae Petuch, 1994

NATICIDAE

Naticarius carrena (Linnaeus, 1758)

Neverita duplicata (Say, 1822)

Polinices caroliniana (Conrad, 1841)

Polinices lacteus (Guilding, 1834)

Polinices porcellanus (d'Orbigny, 1839)

Sigatica semisulcata (Gray, 1839)

(PL 8)

Sinum maculatum (Say, 1831)

Sinum perspectivum (Say, 1831)

(PL 8)

Tectonatica pusilla (Say, 1822)

CASSIDAE

Cassis jameshoubricki Petuch, 2004

Cassis madagascariensis Lamarck,
1822 **(PL 8)**

Cassis schnireli Petuch, 1994

Semicassis cicatricosa (Gmelin, 1791)

Semicassis granulata (Born, 1778)

(PL 8)

TONNIDAE

Malea petiti Petuch, 1989

Tonna galea (Linnaeus, 1758) **(PL 8)**

Tonna pennata (Morch, 1852)

FICIDAE

Ficus communis Roding, 1798

RANELLIDAE

Cymatium cingulatum (Lamarck, 1822)

Cymatium krebsii (Morch, 1877)

(PL 8)

Cymatium nicobaricum (Roding, 1798)

Cymatium parthenopeum (von Salis,
1793)

PERSONIDAE

Distorsio clathrata (Lamarck, 1816)

CERITHIOPSIDAE

Cerithiopsis greenii (Adams, C.B.,
1839)

Retilaskeya bicolor (Adams, C.B.,
1845)

Seila adamsii (Lea, H.C., 1845)

TRIPHORIDAE

Cosmotriphora melanura (Adams, C.B.,
1850)

Marshallora cf. *M. nigrocincta* (Adams,
C.B., 1839) **(PL 9)**

EPITONIIDAE

Cirsotrema dalli Rehder, 1945

Depressiscula nautlae (Morch, 1875)

Epitonium candeanum (d'Orbigny,
1842)

Epitonium echinaticosta (d'Orbigny,
1842)

Epitonium foliaceicosta (d'Orbigny,
1842) **(PL 9)**

Epitonium junceum Gardner, 1948

Epitonium novangliae (Couthouy, 1838)

Epitonium rupicola (Kurtz, 1860)

(PL 9)

Opalia debouryi (Dall, 1890)

(PL 9)

EULIMIDAE

Eulima bifasciata d'Orbigny, 1841

Melanella jamaicensis (Adams, C.B.,
1845)

Niso aeglees Bush, 1885

Oceanida graduata Folin, 1871

MURICIDAE

Acanthotrophon ascensus (Vokes,
E.H., 1976)

Acanthotrophon striatoides Vokes, E.H., 1980
Aspella senex (Dall, 1903)
Attiliosa aldridgei (Nowell-Usticke, 1969)
Calotrophon andrewsi Vokes, E.H., 1976
Calotrophon ostrearum (Conrad, 1846)
Chicoreus dilectus (Adams, A., 1855)
Dermomurex alabastrum (Adams, A., 1864)
Dermomurex antecessor Vokes, E.H., 1975
Dermomurex elizabethae (McGinty, 1940)
Eupleura sulcidentata Dall, 1890
(PL 9)
Eupleura caudata (Say, 1822)
Favartia cellulosa (Conrad, 1846)
(PL 9)
Favartia lindae Petuch, 1987
Favarita pacei Petuch, 1988
Hexaplex fulvescens (Sowerby, 1834)
Murexiella glypta (Smith, M., 1938)
Murexiella graceae (McGinty, 1940)
(PL 9)
Murexiella macgintyi (Smith, M., 1938)
Murexsul oxytatus (Smith, M., 1938)
Phyllonotus oculatus (Reeve, 1845)
Phyllonotus pomum (Gmelin, 1791)
(PL 9)
Pterotyphis trangularis (Adams, A., 1855)
Stramonita haemostoma (Linnaeus, 1767)
Trachypollia sclera Woodring, 1928
Urosalpinx perrugata (Conrad, 1846)
(PL 9)
Urosalpinx tampaensis (Conrad, 1846)
Vokesimurex anniae (Smith, M., 1940)
(PL 9)
Vokesimurex bellegladeensis (Vokes, E.H., 1963)
Vokesimurex rubidus (Baker, F.C., 1897) **(PL 9)**
Vokesinotus emilyae Petuch, 1994

Vokesinotus griffini Petuch, 1991

CORALLIOPHILIDAE

Babelomurex mansfieldi (McGinty, 1940)
Coralliophila caribaea Abbott, 1958

TURBINELLIDAE

Turbinella hoerlei Vokes, E.H., 1966
(PL 10)
Turbinella angulata (Lightfoot, 1786)
Vasum floridanum McGinty, 1940

BUCCINIDAE

Bailya crossata Woodring, 1973
Bailya intricata (Dall, 1884)
Bailya parva (Adams, C.B., 1850)
Bailya thomasi (Olsson, 1964)
Engina corinnae Crovo, 1971
Engina turbinella (Kiener, 1863)
Gemophos tinctus (Conrad, 1846)
Hesperisternia multangulus (Philippi, 1848) **(PL 10)**
Monostiolum thomasi Olsson, 1967
Solenosteira cancellaria (Conrad, 1846)

MELONGENIDAE

Busycotypus spiratus (Lamarck, 1816)
(PL 10)
Fulguropsis feldmanni Petuch, 1991
Melongena bispinosa (Philippi, 1844)
Melongena corona (Gmelin, 1791)
Melongena cynthiae Petuch, 1990
Melongena diegelae Petuch, 1994
Melongena griffini Petuch, 1994
Melongena holeylandica Petuch, 1994
Melongena lindae Petuch, 1994
Sinistrofulgur contrarium (Conrad, 1840) **(PL 10)**
Sinistrofulgur roseae Petuch, 1991
Sinistrofulgur holeylandicum Petuch, 1994

NASSARIDAE

Nassarius acutus (Say, 1822)
Nassarius albus (Say, 1826)

Nassarius bidentatus (Emmons, 1858)
Nassarius consensus (Ravenel, 1861)
Nassarius vibex (Say, 1822)

FASCIOLARIIDAE

Fasciolaria liliium Fischer, 1807
Fasciolaria okeechobensis Tucker &
 Wilson, 1932
Fusinus capelettii Petuch, 1994
Fusinus watermani (Smith, M., 1936)

(PL 10)

Heilprinia timessa (Dall, 1889)
Hemipolygona carinifera (Lamarck,
 1816)

Polygona maxwelli Pilsbry, 1939
Polygona angulata (Roding, 1798)
Polygona jucunda (McGinty, 1940)

(PL 10)

Triplofusus giganteus (Kiener, 1840)

COLUMBELLIDAE

Astryis lunata (Say, 1826)
Columbella mercatoria (Linnaeus,
 1758)
Columbella rusticoides Heilprin, 1886
Costoanachis caloosaensis (Dall, 1890)
Eurypyrene miccosukee Petuch, 1991

(PL 10)

Microcithara caloosahatcheensis
 Petuch, 1991
Mitrella gardnerae Olsson & Harbison,
 1953

Mitrella ocellata (Gmelin, 1791)
Nassarina glypta (Bush, 1885)
Parvanachis obesa (Adams, C.B.,
 1845)

Nitidella nitida (Lamarck, 1822)
Suturoglypta albella (Adams, C.B.,
 1850)

VOLUTIDAE

Scaphella floridana (Heilprin, 1886)
(PL 10)
Scaphella junonia (Lamarck, 1810)
Scaphella seminole Petuch, 1990

OLIVIDAE

Jaspidella jacksonensis (Mansfield,
 1930)

Lindoliva diegelae Petuch, 1988
Lindoliva griffini Petuch, 1988
Lindoliva spengleri Petuch, 1988

(PL 10)

Mansfieldella robbiae Landau, 1996
Oliva adami Petuch, 1994
Oliva cokyae Petuch, 1991
Oliva edwardsi Olsson, 1967
Oliva floralia (Duclos, 1844)
Oliva lindae Petuch, 1994
Oliva murielae Olsson, 1967
Oliva ryani Petuch, 1994
Oliva sayana Ravenel, 1834
Oliva smithorum Petuch, 1994
Oliva southbayensis Petuch, 1994
Oliva wendyae Petuch, 1994
Olivella dealbata (Reeve, 1850)
Olivella floralia (Duclos, 1844)
Olivella mutica (Say, 1822)
Olivella pusilla (Marrat, 1871)

HARPIDAE

Morum purpureum Roding, 1798
Morum oniscus (Linnaeus, 1767)

(PL 11)**CYSTISCIDAE**

Gibberula lavalleeana (d'Orbigny, 1842)
Granulina hadria (Dall, 1889)
Persicula catenata (Montagu, 1803)

MARGINELLIDAE

Dentimargo aureocinctus (Stearns,
 1872)
Dentimargo caloosana (Olsson &
 Harbison, 1953)
Dentimargo eburneolus (Conrad, 1834)
(PL 11)
Dentimargo aff. *D. mansfieldi* (Tucker &
 Wilson, 1933)
Eratoidea hematita (Kiener, 1834)
Hyalina pallida (Linnaeus, 1758)
(PL 11)

Prunum apicinum (Menke, 1828)
Prunum belloides (Olsson & Harbison,
 1953)
Prunum bellulum (Dall, 1890)
Prunum guttatum (Dillwyn, 1817)
Prunum hartleyana (Schwengel, 1941)
Prunum rostratum (Redfield, 1870)
Prunum succinea (Conrad, 1846)
Volvarina albolineata (d'Orbigny, 1842)
Volvarina avena (Kiener, 1834)

COSTELLARIIDAE

Mitromica foveata (Sowerby II, 1874)
Vexillum cf. *V. gemmatum* (Sowerby,
 1874)
Vexillum histrio (Reeve, 1844)

CANCELLARIDAE

Axelella smithii (Dall, 1888)
Cancellaria pachia (Smith, M., 1940)
(PL 11)
Cancellaria reticulata (Linnaeus, 1767)
Cancellaria richardpetiti Petuch, 1987
Trigonostoma rugosum (Lamarck,
 1822)
Trigonostoma tenerum (Philippi, 1848)
(PL 11)
Tritonoharpa lanceolata (Menke, 1828)
Ventrilia lindae Petuch, 1994

TEREBRIDAE

Terebra arcas Abbott, 1954
Terebra concava (Say, 1826) **(PL 11)**
Terebra dislocata (Say, 1822)
Terebra protexta (Conrad, 1846)

TURRIDAE

Agathotoma candidissima (Adams,
 C.B., 1845) **(PL 11)**
Brachyctothara biconica (Adams, C.B.,
 1850)
Cerodrillia cf. *C. schroederi* Bartsch &
 Rehder, 1939
Cerodrillia thea (Dall, 1884)
Eucyclotoma cingulata (Dall, 1890)
Fenimorea fucata (Reeve, 1845)

Fenimorea pagodula (Dall, 1889)
Glyphostoma scoptes Dall, 1903
Glyphoturris rugirima (Dall, 1889)
Kurtziella limonitella (Dall, 1884)

(PL 11)

Ithyctothara lanceolata (Adams, C.B.,
 1850)
Ithyctothara maera rata Fargo, 1953
Nannodiella pauca Fargo, 1953
Nannodiella vespuciana (d'Orbigny,
 1847)
Pilsbryspira leucocyma (Dall, 1884)
Pyrgospira acuragata (Dall, 1890)
Pyrgospira ostrearum (Stearns, 1872)
Pyrgospira tampaensis (Bartsch &
 Rehder, 1939)
Splendrillia moseri (Dall, 1889) **(PL 11)**
Splendrillia woodringi (Bartsch, 1934)
Tenaturris inepta (Smith, E.A., 1882)
Vitricythara metria (Dall, 1903)
Zonulispira crocata (Reeve, 1845)
(PL 11)

CONIDAE

Conus amphurgus Dall, 1889
Conus daucus Hwass, 1792
Conus delessertii Recluz, 1843
Conus evergladeseensis Petuch, 1991
Conus jaspideus Gmelin, 1791
Conus cf. *C. largillierti* Kiener, 1845
Conus spurius Gmelin, 1791

ARCHITECTONICIDAE

Architectonica nobilis Roding, 1798
(PL 11)
Heliacus bisulcatus (d'Orbigny, 1842)
Heliacus lampra (Woodring, 1928)

PYRAMIDELLIDAE

Boonea seminuda (Adams, C.B., 1839)
Longchaeus suturalis (Lea, H.C., 1843)
Mumiola gradatula (Morch, 1876)
Odostomia laevigata (d'Orbigny, 1841)
Triptychus niveus (Morch, 1875)

AMATHINIDAE*Iselica globosa* (Lea, H.C., 1843)**RINGICULIDAE***Ringicula guppyi* Dall, 1903**CYLICHNIDAE**

Acteocina bullata (Kiener, 1834)
Acteocina canaliculata (Say, 1826)
Acteocina candei (d'Orbigny, 1841)
Cyllichnella bidentata (d'Orbigny, 1841)

RETUSIDAE

Retusa sulcata (d'Orbigny, 1841)
(PL 11)

RHIZORIDAE

Volvulella persimilis (Morch, 1875)
Volvula tritica Olsson & Harbison, 1953

BULLIDAE

Bulla attenuata Dall, 1892
Bulla occidentalis Adams, A., 1850
Bulla solida Gmelin, 1791 **(PL 11)**

HAMINOEIDAE

Atys caribaeus (d'Orbigny, 1841)
Haminoea antillarum (d'Orbigny, 1841)
(PL 11)
Haminoea succinea (Conrad, 1846)

CAVOLINIIDAE

Creseis acicula (Rang, 1828)
Diacavolinia longirostris (Blainville, 1821) **(PL 11)**

ELLOBIIDAE

Melampus bidentatus Say, 1822
Melampus monile (Bruguere, 1789)

PHYSIDAE*Stenophysa meigsii* (Dall, 1890)**PLANORBIDAE**

Micromenetus dilatatus avus (Pilsbry, 1905)
Planorbella conanti (Dall, 1890)
Planorbella aff. *P. disstoni* (Dall, 1890)
Planorbella duryi (Wetherby, 1879)
Planorbella wilsoni (Taylor, 1966)

PUPILLIDAE*Gastrocopta rupicola* (Say, 1821)**SPIRAXIDAE***Euglandina rosea* (Ferussac, 1821)**BULIMULIDAE***Bulimus dealbatus* (Say, 1821) **(PL 11)****POLYGYRIDAE**

Polygyra avara Say, 1818
Polygyra cereolus (Muhlfeld, 1816)

POLYPLACOPHORA**ACANTHOCHITONIDAE***Acanthochitona pygmaea* (Pilsbry, 1893)**CHAETOPLEURIDAE***Chaetopleura apiculata* (Say, 1830)

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