

Mississippi Cretaceous Neogastropoda (Stenoglossa) and Selected Mesogastropoda Illustrated.

David T. Dockery III, RPG

Laura Luke, Editor



Exogyra erraticostata Stephenson, 1914, attached to *Lowenstamia funiculus* Sohl, 1964. MGS figured specimen 2735.

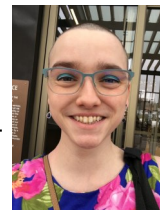
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About the editor: Laura Luke, born in Jackson, Mississippi, is the daughter of Bill and Kathy Pitts, publishers of *The New Southern View, Mississippi's First Online Magazine—Since Summer 2001*, and the granddaughter of Leslie and Sue Pitts, two of the founders of the Mississippi Gem and Mineral Society, chartered in 1958 as a non-profit, educational organization to promote the knowledge and the enjoyment of activities related to earth sciences (the author was a “Pebble Pup” member in the early years of the Society). Laura has a Bachelor of Music from Jackson State University where she specialized in vocal performance and was also trained in harp. She plans to return to school in the fall of 2023 to pursue a path in marine biology. After graduating with her prior degree, Laura realized her passion not only lies in the arts, but also in the sciences. She looks forward to exploring ways in which she can incorporate both the arts and sciences into her future career.



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MDEQ Office of Geology

700 North State Street

Jackson, Mississippi 39202

David T. Dockery III, Director

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Description of New Cretaceous Gastropod Species

Locality information for MGS locality numbers given below and in the figure captions can be found in Dockery, D. T., III, and D. E. Thompson, 2016, *The Geology of Mississippi*: MDEQ and University Press of Mississippi, pages 725-734. The Order Mesogastropoda as given in the book title is equivalent to the Superorder Paleocaenogastropoda Bandel, 1993, and Superorder Latrogastropoda, Order Neomesogastropoda Bandel, 1991, as given in the systematic text and illustrations that follow.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Capuloidea, Family Trichotropidae, Subfamily Trichotropinae, Genus *Astandes*

Astandes alta n. sp. Page 17

Description: Small shell 7.5 to 8.2 mm in height; protoconch unknown: teleoconch high spired with five or six whorls having prosocline ribs, eight or nine on the body whorl, crossed by smaller beaded lirae of varying number, the largest two at the shoulder and basal margin, and with two on the base where the ribs are absent; the aperture is ovate with a short anterior canal and denticles on the outer lip.

Discussion: The two examples vary in width and in the prominence of the spiral lirae. This species differs from *Astandes nodosa* (Dockery, 1993) [*Cerithioderma nodosa* Dockery, 1993], in its smaller size, higher spire, and its ribs rather than nodes and strong beaded spiral lirae.

Type: Holotype USNM PAL 778029 (MGS specimen 2680).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Latin: *altus*, height.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Paladmetidae, Genus *Paladmete*

Paladmete tallahatchiensis n. sp. Page 29

Description: Shell of medium size up to 24.4 mm in height; protoconch of about four smooth, rounded whorls with

an impressed suture and with faint ribbing, especially over the shoulder; early teleoconch sculpture of closely spaced ribs and four spiral lirae, the bottom one just above the suture, the ribs become broader with broader interspaces on the second and subsequent whorls; adult teleoconch with a high spire for the genus consisting of three to four whorls, with four prominent lirae on the spire, the upper one at the shoulder above which are four minor lirae on the ramp; the body whorl with 13-16 axial ribs and six strong broadly-spaced lirae followed by three closely-spaced lirae on the anterior siphon. The aperture is ovate.

Discussion: This species is only known from MGS locality 171, where it is common, and has a higher spire than other species and coarser sculpture as compared to *Palamete cancellaria*.

Type: Holotype USMN PAL 778030 (MGS specimen 2711).

Occurrence: Coon Creek Tongue, Ripley Formation, MGS locality 171.

Etymology: Named for its location on Tallahatchie Creek.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Moreidae, Genus *Buccinopsis*

Buccinopsis rikardi n. sp. Pages 43-44

Description: Shell globose, low-spined, rounded shoulders, and of large size up to 59.1 mm in height; protoconch unknown, teleoconch of five or six whorls strongly sculptured with spiral lirae and axial nodes at the shoulder; the suture is channeled with a broad sutural collar below with four spiral lirae in the early whorls and as many as 6 or more on the body whorl; nodes below the sutural collar on the spire have four or five spiral lirae; the body whorl with 10-11 axial nodes and 14 spiral lirae before the deep sulcus that marks the beginning of the siphonal fasciole; aperture has thick parietal callus, a posterior canal, digitate outer lip at the intersection of spiral lirae, a prominent labial hook, and a broad siphonal notch.

Discussion: This species is similar in size to *Buccinopsis crassus* (Wade, 1917), but differs in its more angular shoulder and more pronounced axial shoulder nodes. In the latter aspects, it is like the specimen identified by Stephenson (1941, plate 63, fig1-2) as *Seminola crassa* Wade, 1917, from the Nacatoch Sand near Chatfield in Navarro County, Texas.

Type: Holotype USMN PAL 778031 (MGS figured specimen 2752).

Occurrence: Coffee Sand, MGS localities 128 and 129.

Etymology: Named in honor of Gary Rikard, former director of the Mississippi Department of Environmental Quality.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Deussenia*

Deussenia breukeleni n. sp. Pages 50-52

Description: Shell fusiform with angular shoulder and broad subsutural collar, and of large size up to 69.5 mm in height; protoconch unknown; teleoconch of nine or ten whorls, sculptured with axial nodes on the shoulders and tightly spaced spiral lirae, which are thin on the subsutural collar and coarser on the shoulder and shoulder nodes and on the body whorl, thirteen to fourteen nodes on body whorl of large specimens; the aperture has a thin parietal callus and modest posterior canal; the anterior siphon is inclined to the left.

Discussion: This species differs from other species of *Deussenia* in having finer spiral lirae and a less cancellate sculptural appearance, particularly on the spire, and in having the anterior siphon inclined to the left. Sohl (1964, USGS Professional Paper 331-C, p. 374, pl. 56, fig. 24) assigned a fragmentary spire of this species questionably

to *Aliofusus* Stephenson, 1941, but stated: “In terms of size and strength of ribbing this species is closer to some specimens of *Deussenia* but the spiral sculpture is weaker, and more importantly the growth line is much more inclined on the posterior collar as it is in *Aliofusus*.”

Type: Holotype USGS PAL 7798032 (MGS figured specimen 2772).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named for author’s great nephew Breukelen Kuhne.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Bullatafus*

Bullatafus. n. gen.: Shell large and thick: protoconch unknown; teleoconch of most complete specimen of four whorls with an evenly tapered spire and bulbous body whorl; shoulder with low axial nodes diminishing on body whorl, 12 nodes on the penultimate whorl; shell covered with spiral lirae which are larger and more broadly spaced on the base; columella smooth; anterior siphon slightly inclined to the left.

Type species: *Bullatafus mississippiensis* n. sp.

Etymology: Latin, *Bullatus*, inflated; *fusus*, spindle

Bullatafus mississippiensis n. sp. Pages 52-53

Description: Same as for genus.

Discussion: This new genus and species seems to be most closely related to *Deussenia breukeleni*.

Type: Holotype USNM PAL 778033 (MGS figured specimen 2776).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named for the state in which it was found.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Bellifusus*

Bellifusus minutus n. sp. Page 54

Description: Shell fusiform and slender, small at 7.0 mm in height; protoconch of two and a quarter whorls, the first whorl a smooth low dome, the next one and a quarter whorls are smooth and conical; the adult shell is high-spired and glossy with opisthocline ribs on the first whorl and vertical ribs on the next three and a half whorls, eleven ribs of the body whorl and same number on the penultimate whorl, ribs roughly in line on the last two whorls; columella with a strong basal fold with two minor folds above.

Discussion: This species is small and high-spired in comparison to other species of this genus.

Type: Holotype USNM PAL 778034 (MGS figured specimen 2780).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Latin, *minutus*, little, small.

Bellifusus annabellae n. sp. Pages 56-58

Description: Shell fusiform with rounded shoulders sculptured with vertical ribs in the early whorls that become ophistocline ribs in latter whorls following the growth-line morphology; protoconch with three smooth whorls, the first whorl forming a low dome, the subsequent whorls are conical, these whorls grade into the ribbed sculpture of the teleoconch, which on the type specimen has twelve ribs on the body whorl; teleoconch of seven or more ribbed whorls with the ribbing becoming more sinuous on the body whorl; the shoulder is rounded below a modestly concave ramp and a modest subsutural collar; spiral lirae are present below the shoulder on the body whorl; the aperture has a slight callus on the parietal lip and one prominent fold on the columella; the anterior canal is straight.

Discussion: This species differs from *Bellifusus curvicostatus* in having less inflated whorls, thinner ribs, and finer lirae on the base of the body whorl.

Type: Holotype USNM PAL 778035 (MGS figured specimen 2789).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of Annabella Engle, granddaughter of Carolyn Dockery.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Ornopsis*

Ornopsis carinata n. sp. Page 63

Description: Shell fusiform and high-spired with rounded to angular shoulders, medium in size up to 29.5 mm in height; protoconch is small and conical with four rounded smooth whorls; the first three whorls of the teleoconch have axial nodes covered by spiral lirae; the next two and a half whorls have an angular carinate shoulder with faint nodes or none and spiral lirae; the columella has a single strong fold near the anterior end.

Discussion: This species is distinguished by its carinate shoulder.

Type: Holotype USNM PAL 778036 (figured specimen 2805).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Latin, *carina*, ridge

Ornopsis nodosa n. sp. Page 64

Description: Shell fusiform and high-spired with rounded to angular noded shoulders, medium in size up to 21.3 mm in height; protoconch conical of four smooth rounded whorls; first whorl of teleoconch with prosocline ribs and spiral lirae, the following four whorls with rounded to angular shoulders with axial nodes and spiral lirae, 13 nodes on body whorl of type; the anterior siphon is twisted to the right and has a columellar fold at the margin of the siphonal canal.

Discussion: This species is high spired and lirate to a similar degree as *Ornopsis carinata* but has a noded rather than carinate shoulder.

Type: Holotype USNM PAL 778037 (MGS figured specimen 2809).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Latin, *nodosus*, full of knots, knotty.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Protobusycon*

Protobusycon ellisi n. sp. Page 67

Description: Shell with short spire and short anterior siphon, large size of up to 55.0 mm in height; protoconch unknown; teleoconch of three and a half lirate whorls with angular noded shoulders, nine axial nodes on the body whorl; axial nodes fade out toward the spiral sulcus before the siphonal canal, the sulcus strongly constricts the body whorl.

Discussion: This species has a more compact height than does *Protobusycon binodosum* and has just one row of axial nodes.

Type: Holotype USNM PAL 778038 (MGS figured specimen 2814).

Occurrence: Coon Creek Tongue, Ripley Formation, MGS locality 127.

Etymology: Named in honor of Paul Thomas Ellis, son of Carolyn Ellis Dockery.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Beretrinae, Genus *Fusimilis*

Fusimilis minutus n. sp. Page 85

Description: Shell of 7 whorls missing apex, small at 4.4 mm in height; protoconch unknown; teleoconch high-spired with depressed subsutural collar and angular shoulder sculptured with strong ribs, 11 on the body whorl, covered with spiral lirae that are stronger and more widely spaced on the base; growth lines show a sulcus above the shoulder; whorls are strongly constricted before the anterior siphon, anterior siphon long and narrow and twisted to the right; callus is very faint on the parietal lip and anterior siphon.

Type: Holotype USNM PAL 778039 (MGS figured specimen 2860).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Latin, *minutus*, little, small.

Fusimilis nolani n. sp. Page 85

Description: Shell of 6.5 whorls with apex missing, large at 93.3 mm in height; protoconch unknown; teleoconch high-spired with depressed subsutural collar and angular shoulder; with subsutural collar noded/crenulate just below the suture; whorls sculptured with ribs covered by spiral lirae and 15 axial nodes on the shoulder of the body whorl; growth lines show a sulcus at the shoulder, whorls strongly constricted before the long anterior siphon, anterior siphon bent to the left, partly due to deformation; aperture with slight callus on the parietal lip, which extends anteriorly to a raised edge on the siphonal canal.

Type: Holotype USNM PAL 778040 (MGS figured specimen 2861)

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of Nolan Wells, son of Chris Wells, Director of the Mississippi Department of Environmental Quality.

Fusimilis meganae n. sp. Page 85.

Description: Shell large at 48.2 mm in height; protoconch unknown; teleoconch high-spined of 6.5 whorls with apex missing and with depressed subsutural collar and angular shoulder sculptured with subdued ribs on the spire and 14 axial nodes on the shoulder of the body whorl covered with fine spiral lirae; growth lines show a strong sulcus at the shoulder, whorls constricted before the long and straight anterior siphon; aperture with faint callus on the parietal lip extending onto the siphonal canal.

Type: Holotype USNM PAL 778041 (MGS figured specimen 2862).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of Megan Wells, daughter of Chris Wells.

Fusimilis andersoni n. sp. Page 88-89

Description: Shell large, the largest specimen at 46 mm in height has five whorls with the apex missing, a composite of all specimens suggest a teleoconch of 9 whorls; protoconch with three smooth conical whorls or two smooth conical whorls with the last whorl having opisthocline ribs; teleoconch high-spined with modest ribs and strong beaded spiral lirae, four on early whorls and five to seven on latter whorls; aperture with faint callus on parietal lip and extending along the anterior siphonal canal. Siphonal canal long and straight.

Type: Holotype USNM PAL 778042 (MGS figured specimen 2868).

Discussion: The form of this species resembles *Fusinus* species of Eocene to Recent age.

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of Duke Marshall Anderson, great nephew of Mary Yonkers Dockery, and son of her niece Melanie Marshall Anderson.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Volutoderminae, Genus *Volutomorpha*

Volutomorpha carolynae n. sp. Pages 91-93

Description: Shell large up to 117 mm in height and larger; protoconch of 3 conical smooth whorls; teleoconch develops a sulcus above the shoulder that begins about the third whorl, producing a depressed ramp; teleoconch sculptured with ribs cross by spiral lirae, 11 to 14 ribs on the body whorl of 93 to 103 mm-high specimens; ribs give way to large axial nodes on larger specimens; the columella contains one large fold.

Discussion: This species differs from others sculpted with ribs and spiral lirae in the large nodes it develops on the whorls of large specimens, giving a crowning effect to the shoulder.

Type: Holotype USNM PAL 778043 (MGS figured specimen 2877).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of Carolyn Raye Benton Ellis Dockery.

Volutomorpha terrellae n. sp. Pages 93-95

Description: Shell large up to 71.6 mm in height; protoconch unknown; teleoconch of 4-5 whorls with short spire, rounded shoulders, and cancellate/fenestrate sculpture of closely spaced ribs, which diminish on the body whorl of the largest specimen, and spiral lirae, which form digits on the outer lip, the columella bears two strong folds.

Discussion: This species resembles *Volutomorpha mutabilis* Wade, 1926, as illustrated in figures 6 and 9 of Plate 40, and in the description on page 114. *V. mutabilis* has a similar sculpture, two columnar folds, and a digitate outer lip. However, *V. terrellae* is not “brilliantly glazed,” has a less elongated shell than *V. mutabilis*, and has a more rounded shoulder, lacking the slightly depressed ramp of *V. mutabilis*.

Type: Holotype USNM PAL 778044 (MGS figured specimen 2883).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of Terrell Fay Yonkers.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Volutoderminae, Genus *Liopeplum*

Liopeplum spiculatum Sohl, 1964 Pages 105-107

Discussion: The etymology of *Liopeplum spiculatum* is most likely a reference to the shells pointed (Latin, *spiculus*, pointed) spire which lacks spiral bands of callus as Sohl noted in his description. One diagnostic character in specimens from MGS locality 129 is the finger-like projection of callus wash extending from the parietal lip of the aperture onto the shoulder of the body whorl. This is seen in all specimens illustrated, including a specimen significantly larger than all others (MGS figured specimen 2910, page 104). This large specimen is missing the spire, and its smooth polished brown shell and large size resembles *Volutomorpha valida*. The clue that it was not that species was the finger of callus wash extending from the parietal lip and onto the shoulder. Thus, *L. spiculatum* is the largest known species of *Liopeplum*. A similar finger-like projection of callus is seen in *Parafusus callilateris* (Wade, 1917) in MGS figured specimen 2913, page 105.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Volutoderminae, Genus *Parafusus*

Parafusus bullatus n. sp. Page 109

Description: Shell bulbous and large, covered in callus; protoconch of one smooth whorl emersed in clear callus on a flat apex; teleoconch with 5.5 whorls, the first one and a half whorls with flat spire and a subsutural collar, visible beneath the callus of the remaining whorls are the suture, subsutural collar, and low node-like ribs, which diminish on the body whorl; columella with two folds.

Discussion: This species is more inflated than other *Parafusus* species and lacks the lateral callus ridge on the left side of *Parafusus callilateris* (Wade, 1917). *P. callilateris* has one columella fold, while *P. bullatus* has two.

Type: Holotype USNM PAL 778045 (MGS figured specimen 2915).

Occurrence: A locality near MGS locality 128.

Etymology: Latin, *bullatus*, inflated.

Parafusus starnesi n. sp. Page 110

Description: Shell large and thick, covered in callus; protoconch emersed in callus at apex; teleoconch of 5.5 whorls, with elevated spire, subsutural collar, and rounded shoulder with faint rounded ribs that diminish on the body whorl; columella with two folds.

Discussion: This species is like *P. bullatus*, but with a more elongate shell, elevated spire, and thicker shell.

Type: Holotype USNM PAL 778046 (MGS figured specimen 2916).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of James E. Starnes, Director of Surface Geology Division, Office of Geology, Mississippi Department of Environmental Quality.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Cylindrofususinae new subfamily, Genus *Cylindrofusus* new genus

New Subfamily Cylindrofususinae: Pyrifusidae with a fusiform shell that is somewhat cylindrical around the middle in adult stage with an elongate or auriform aperture having an anterior siphonal notch and a columellar fold bordering the anterior canal.

Type genus: *Cylindrofusus* n. gen.

Cylindrofusus new genus

Description: Shell cylindrical and fusiform or fusiform with the aperture about half the length of the shell, an anterior siphonal fasciole, and a fold on the margin of the columella bordering the left side of the anterior canal, the columella otherwise smooth, sculpture smooth or with axial ribs; aperture is elongate or auriform but with an anterior siphonal notch.

Discussion: *Cylindrofusus* is placed near the volutiform taxa *Liopeplum*, differing from it in lacking the callus covering. Both have a single fold at the base of the columella that borders the left side of the anterior siphonal canal.

Type species: *Cylindrofusus patricae* n. sp.

Cylindrofusus patricae n. sp. Page 110-111

Description: Shell cylindrical and fusiform with the aperture about half the length of the shell; protoconch unknown; teleoconch of type specimen of 5 whorls missing apex, first 2.5 whorls with faint axial ribs, the remaining whorls smooth with strong prosocline growth lines; type specimen shows color banding with a darker band on the base of the shell; anterior siphonal fasciole bordered posteriorly by a prominent sulcus; aperture auriform but with an anterior siphonal notch.

Discussion: The holotype of this species is a large thick-shelled specimen from the Coon Creek Tongue of the Ripley Formation at MGS locality 127. A largely complete specimen from the Coffee Sand at MGS locality 129 is smaller and has a thinner shell.

Type: Holotype USNM PAL 778047 (MGS figured specimen 2917).

Occurrence: Coon Creek Tongue, Ripley Formation, MGS locality 127; Coffee Sand, MGS locality 129.

Etymology: Named in honor of Patricia Frazier, sister of Carolyn Dockery.

Cylindrofusus laneyae n. sp. Pages 111-112

Description: Shell fusiform with axial ribs; protoconch unknown; teleoconch of type specimen with 6.5 whorls, a larger but less complete specimen represents about 7.5 whorls, the first four whorls have a narrow flat ramp above the shoulder and vertical ribs, latter whorls have a rounded shoulder and prosocline ribs, growth increments overlie ribs and interspaces, 18 ribs on the body whorl of type specimen; large incomplete specimen with 20 ribs on last whorl; anterior siphonal fasciole bordered posteriorly by a broad shallow sulcus; aperture is elongate with a

basal columellar fold bordering the anterior siphonal canal.

Discussion: This species differs from *C. patricae* in its more fusiform shape and ribbing.

Type: Holotype USNM PAL 778048 (MGS figured specimen 2919).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of Laney Cox, daughter of Patricia Frazier.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyropsinae, Genus *Pyropsis*

Pyropsis involutus n. sp. Page 115

Description: Flat-spined, subpyriform, strongly-sculptured shell, covered with beaded spiral lirae; protoconch unknown; teleoconch of four whorls, the body whorl enveloping a portion of the penultimate whorl on the spire; spiral ramp of body whorl with a strong beaded subsutural collar, followed by two small beaded lirae, then by a strong median beaded lira, then two small beaded lirae, and terminated with a strong beaded lira at the shoulder; below the angular shoulder break on the flank are two small beaded lirae, a strong medial beaded lira, a small beaded lira, and a strong beaded lira at the break in slope leading to the anterior siphon with a varying array of beaded lirae; aperture polygonal in outline with the upper side beneath the ramp, opposing sides on the parietal lip and flank of the outer lip, and opposing sides of the columellar lip and base of the apertural lip which constrict the siphonal canal; callus plate is present on the parietal lip and forms an umbilical chink on the columellar lip.

Discussion: This species is similar to *P. proxima* Wade, 1926, in its profile and arrangement of beaded spiral lirae, but differ in that the body whorl partially envelops the penultimate whorl on the spire.

Type: Holotype USNM PAL 778049 (MGS figured specimen 2927).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Latin, *involutus*, wrapped

Pyropsis levis n. sp. Page 116

Description: Flat-topped, subpyriform, modestly sculptured shell, smooth on spire except for a few small lirae toward the periphery; protoconch unknown; teleoconch of 4.5 whorls; shoulder with a carina of low nodes; lateral flank with 6 thin beaded lirae followed by a strong beaded lira at the break in slope before the base; base with six strong beaded lirae before the break in slope at the anterior siphon followed by crowded lirae on the siphon; aperture with strong brown callus gloss, parietal callus plate forming umbilical chink of the columella lip.

Discussion: This species is similar to *P. proxima* Wade, 1926, in its profile but has a smooth spire.

Type: Holotype USNM PAL 778050 (MGS figured specimen 29290).

Occurrence: Coffee Sand, MGS locality 129,

Etymology: Latin, *levis*, smooth.

Pyropsis infundibulum n. sp. Page 116

Description: Very flat-topped, subpyriform, angulate shoulder, carinate with peripheral spines inclined toward the aperture like the teeth of a circular saw blade, 24-26 spines on body whorl; protoconch emersed with final smooth whorl showing; teleoconch of 4 whorls with flat spire sculptured with faint wavy lirae, each whorl of spire slight-

ly below the shoulder of the previous whorl; the body whorl funnel-shaped below the shoulder and sculptured with coarse beaded lirae; aperture with faint callus on the parietal lip and umbilical chink of the columella lip.

Discussion: This species is thin-shell and the most funnel-shaped of the *Pyropsis* species and with the flattest spire.

Type: Holotype USNM PAL 778051 (MGS figured specimen 2930).

Occurrence: Coffee Sand, MGS locality 129, bed E.

Etymology: Latin, *infundibulum*, funnel.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyropsinae, Genus *Napulus*

Napulus canalis n. sp. Pages 121-122

Description: Shell small with height of 18.3 mm; protoconch dome-shaped with two smooth whorls; teleoconch with two whorls, spire ramp depressed to form a channel below the noded carina at the shoulder, remainder of the body whorl sculptured with noded spiral lirae, beginning at and including the carina at shoulder are 5 major lirae with smaller lirae in interspaces on the large specimen, after these lirae decrease in strength anteriorly on the anterior siphon; body whorl strongly constricted at the siphon; aperture with callus on parietal lip and upturned at the shoulder carina.

Discussion: *Napulus canalis* differs from *N. reesei* Sohl, 1964b, in its depressed/channeled ramp and finer reticulate sculpture.

Type: Holotype USNM PAL 778052 (MGS figured specimen 2942).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Latin, *canalis*, channel, gutter.

Napulus cymatiformis n. sp. Page 122

Description: Shell small, little more than 19.8 mm in height; protoconch dome-shaped with about two whorls; teleoconch with two whorls, spire ramp gently sloping with a channeled suture and subsutural collar, otherwise smooth; shoulder marked by the first of three major spiral lirae on the body whorl followed by decreasing lirae on the siphon, lirae are noded at intersections with axial ribs, 14 ribs on body whorl becoming more broadly spaced toward aperture; aperture ovate with thickened outer lip and lirae on the callus of the columellar lip, siphonal canal is constricted between the callus of the columellar lip and thickened outer lip.

Discussion: *Napulus cymatiformis* differs from *N. reesei* and *N. canalis* in its gently sloping ramp, in having three major lirae on the body whorl before the anterior canal, in having a lirate callus on the parietal and columnar lip, and having a constricted anterior canal. The effects of the latter two attributes give the aperture an appearance as that of the Cymatidae.

Type: Holotype USNM PAL 778053 (MGS figured specimen 2944).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: having the form of a cymatid gastropod.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Superfamily Muricoidea, Family Muricidae, Subfamily Muricinae, Genus *Decaplex* n. genus

Decaplex n. gen.

Murex-form small shell of 7.5 mm in height with swollen axial ribs, ten on the body whorl and ten of the penultimate whorl; protoconch dome shaped with two smooth whorls; teleoconch of four whorls with axial ribs, the initial four are curved opisthocline ribs followed by inflated axial ribs crossed by strong spiral lirae; aperture with slight callus on the inner lip and a strong fold bordering the siphonal canal, outer lip smooth lacking dentation.

Type species: *Decaplex idea* n. sp. Page 130

Etymology: Latin *decimus*, ten; Latin *plex*; Latin *plexus*, interwoven.

Decaplex idae n. sp. Page 131

Description: Same as for genus.

Discussion: Dr Emily Vokes (personal correspondence) compares most closely “somewhere near *Attilosa*. I refer to my paper in *The Veliger*, 1999, v. 42, no. 4, p. 289-305.” In this paper Vokes described the genus as: “Shell stoutly biconic, axial ornamentation of six to 12 ridges, rarely with short spinose processes developed at intersection of axial and spiral ornamentation; aperture large, with nodules or lirations on inner side of outer lip and two or three nodules at anterior end of columellar lip; siphonal canal short, recurved, forming a siphonal fasciole.” *Decaplex* lacks nodules or lirations on the inner or outer lip.

Type: Holotype USNM PAL 778054 (MGS figured specimen 2970).

Occurrence: Coffee Sand, MGS locality 129, bed E.

Etymology: Named in honor of Ida Mae Yonkers Marshall.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Superfamily Muricoidea, Family Mitridae, Genus *Conomitra*

Conomitra sohli n. sp. Page 132

Description: Mitrid-shaped small shell up to 8.4 mm in height; protoconch smooth of two whorls; teleoconch of 6-7 polished whorls, the first 4 with slightly opisthocline ribs forming nodes on the subsutural collar, the remaining whorls smooth except for growth lines with a shallow sulcus on the shoulder; aperture with three columellar folds and straight siphonal canal.

Discussion: Sohl, 1964c, illustrated one specimen of this species, which he believed to be an immature mitrid. While Sohl had only one specimen, we now have several, and all are small, indicating the species is small, not just immature. Sohl compared his specimen to *Conomitra fusoides lepa* de Gregorio, 1890, from the Gosport Sand of Alabama as illustrated in Palmer, 1937, pl. 66, figs. 23, 28. Sohl noted that the Coffee Sand species had “a more strongly developed anterior siphon.” It also has a much higher spire than *C. fusoides lepa*.

Type: Holotype USNM PAL 778055 (MGS figured specimen 2971).

Occurrence: Coffee Sand, MGS locality 129.

Etymology: Named in honor of Norman F. Sohl.

Systematics and Previous Work. The following gastropod systematics are according to Klaus Bandel, in Bandel, Klaus, and David T. Dockery III, 2016, *Mollusca of the Coon Creek Formation in Tennessee and Mississippi with a Systematic Discussion of the Gastropoda*, p. 34-96, in Ehret, Dana, T. Lynn Harrell Jr., and Sandy Ebersole, editors, *Paleontology of the Cretaceous Coon Creek Formation: Alabama Museum of Natural History*, Bulletin 33, v. 1, August 1, 2016, 96 p. Genera following appear consecutively by page number in the cited publication from pages 56-79 (marked as P56 to P79). This work includes Cretaceous *Stenoglossa* not covered in Dockery, 1993, *The Streptoneuran Gastropods, Exclusive of the Stenoglossa, of the Coffee Sand (Campanina) of Northeastern Mississippi*: Mississippi Department of Environmental Quality, Office of Geology, Bulletin 129, 191 pages, 42 plates.

Most of the species illustrated in this report came from two localities, one in the Campanian Coffee Sand at MGS locality 129 (at right) and the other from the Maastichtian Coon Creek Tongue of the Ripley Formation at MGS locality 127 (at bottom).

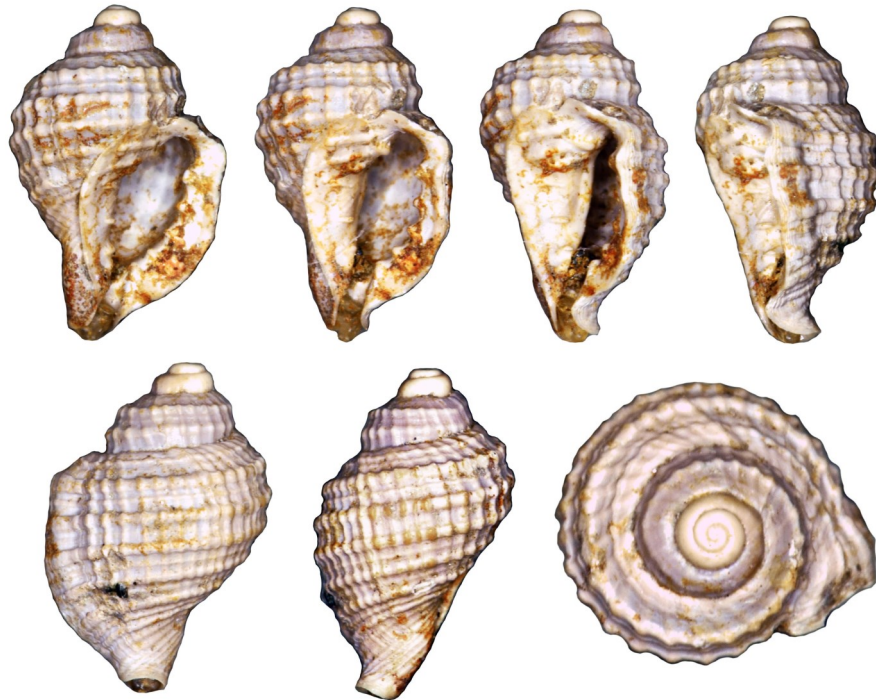


U. S. Geological Survey geologists Norm Sohl (left), Jim Owens (center), and Wayne Newell (right) at the excavation site of bed B of the Chapelville fossiliferous horizon of the Coffee Sand at MGS locality 129. Picture was taken on February 22, 1989.



French paleontologist Luc Dolin collecting fossil mollusks from the Coon Creek Tongue at MGS locality 127 in Union County. Picture was taken on August 12, 1985.

Systematic Illustration of Species: Class Gastropoda, Subclass Caenogastropoda, Superorder Palaeocaenogastropoda Bandel, 1993, Order Ctenoglossa, Suborder Alata, Superfamily Stromboidea, Family Colombellinidae, Genus *Colombellina* P51



Colombellina americana Wade, 1926, height 5.3 mm, width 3.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2676.



Columbellina americana Wade, 1926, incomplete height 6.0 mm, width 4.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2677.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda Bandel, 1991, Superfamily Capuloidea, Family Trichotropidae, Subfamily Trichotropinae, Genus *Astandes* P53 (previously placed as *Cerithioderma* P53)



Astandes nodosa (Dockery, 1993), height 9.7 mm, width 5.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2678.



Astandes alta n. sp., height 8.2 mm, width 2.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2679.

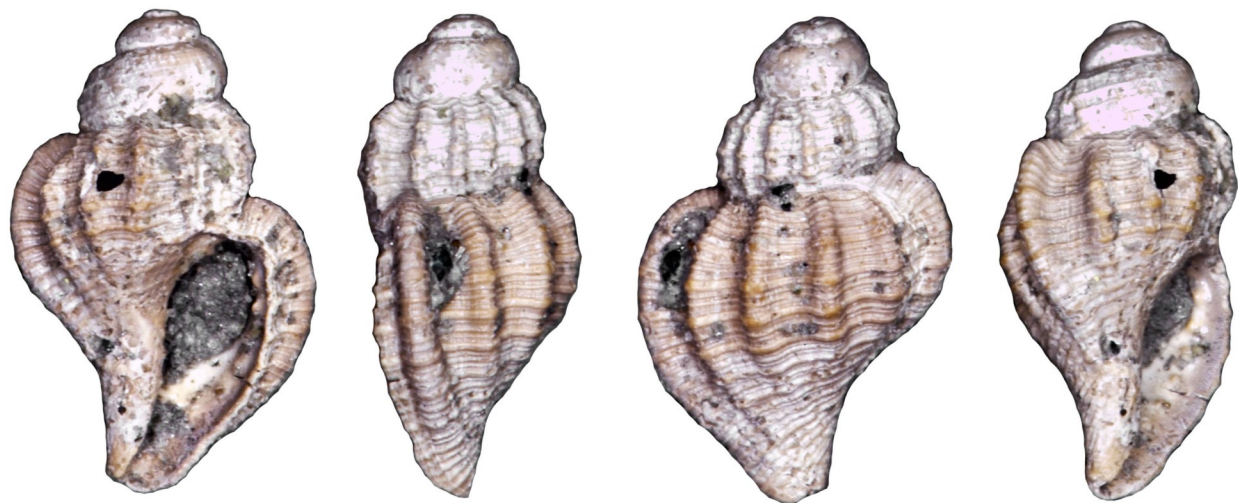


Astandes alta n. sp., height 7.5 mm, width 4.0 mm, Coffee Sand, MGS locality 129. Holotype USMM PAL 778029 (MGS figured specimen 2680).

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Eosassinidae Bandel and Dockery, 2012, Genus *Eosassia* Bandel and Dockery, 2012 (previously placed as *Gyrineum* P56)



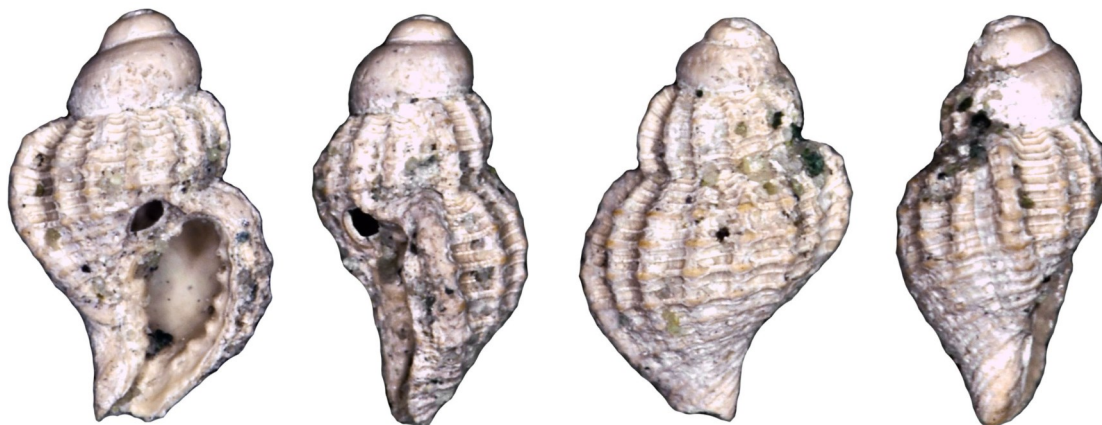
Eosassia gwinae (Dockery, 1993), height 9.5 mm, incomplete width 4.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2681.



Eosassia gwinae (Dockery, 1993), height 5.0 mm, width 3.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2682.



Eosassia gwinae (Dockery, 1993), height 4.5 mm, width 2.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2683.



Eosassia gwinae (Dockery, 1993), height 4.0 mm, width 2.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2684.

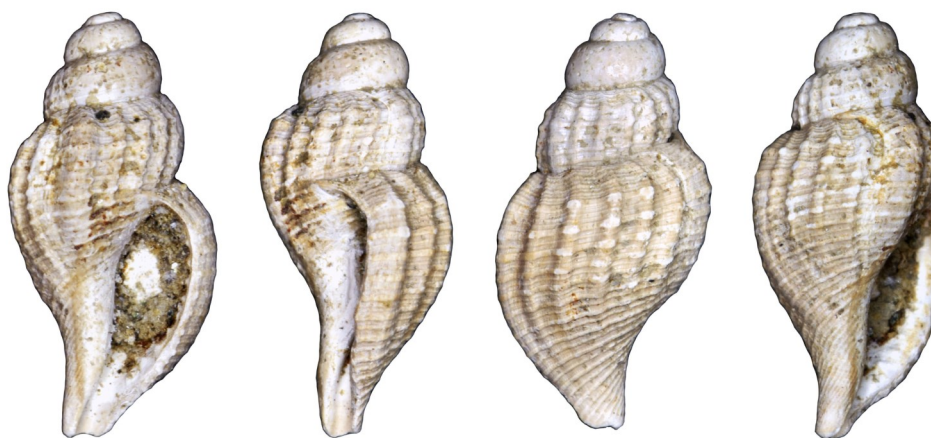


Eosassia gwinae (Dockery, 1993), incomplete height 5.4 mm, width 3.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2685.



Eosassia sp., incomplete height 7.8 mm, width 5.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2686.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Ranellidae, Genus *Anomalofusus* P56



Anomalofusus subnodosus Sohl, 1964a, juvenile height 7.0 mm, width 3.5 mm, Coon Creek Tongue, Ripley Formation MGS locality 127. MGS figured specimen 2687.



Anomalofusus subnodosus Sohl, 1964a, juvenile height 3.8 mm, width 2.5 mm, Coon Creek Tongue, Ripley Formation MGS locality 127. MGS figured specimen 2688.



Anomalofusus subnodosus Sohl, 1964a, incomplete height 19.4 mm, width 9.0 mm, Coon Creek Tongue, Ripley Formation MGS locality 127. MGS figured specimen 2689.

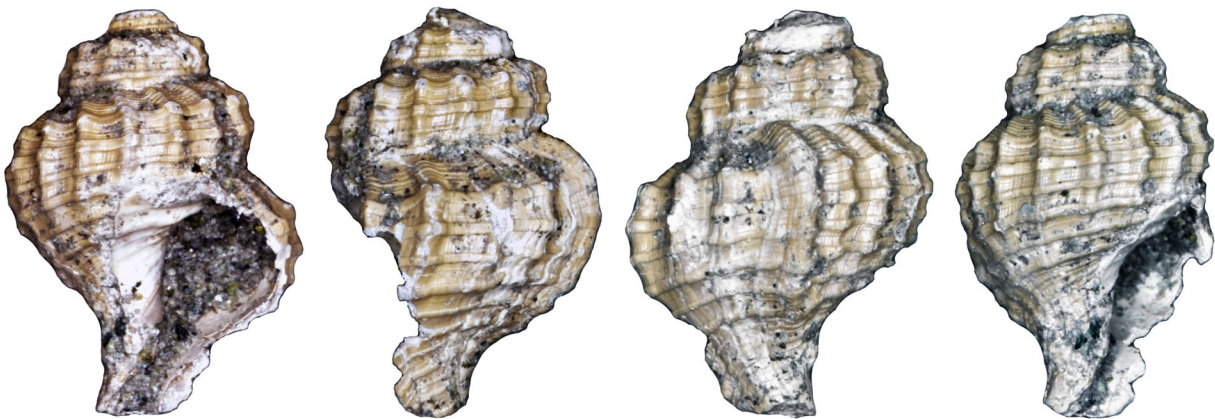


Anomalofusus sp., incomplete height 7.3 mm, width 3.8 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2690.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Colombellinidae, Genus *Neocolombellina* Bandel and Dockery, 2012 (previously placed as *Sassia*)



Neocolombellina carlea (Dockery, 1993), incomplete height 13.5 mm, width 8.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2691.

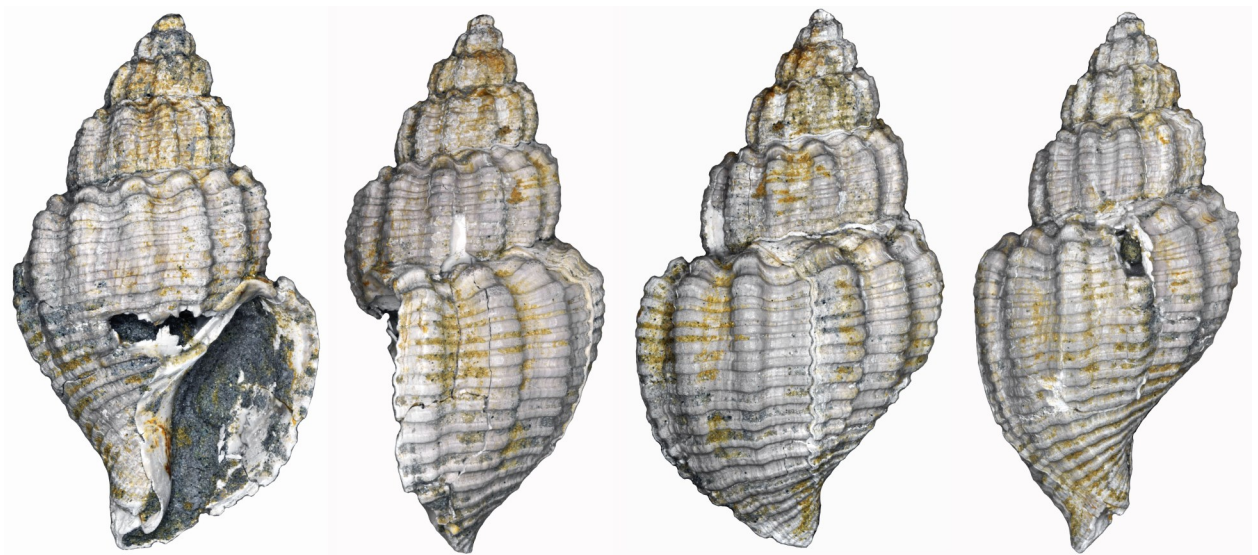


Neocolombellina carlea (Dockery, 1993), incomplete height 7.5 mm, width 5.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2692.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Ranellidae, Genus *Cantharulus* P56



Cantharulus lemniscatus Sohl, 1964b, height 50.5 mm, width 25.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2693.



Cantharulus lemniscatus Sohl, 1964b, incomplete height 64.2 mm, width 35.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2694.



Cantharulus lemniscatus Sohl, 1964b, height 45.7 mm, width 23.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2695.

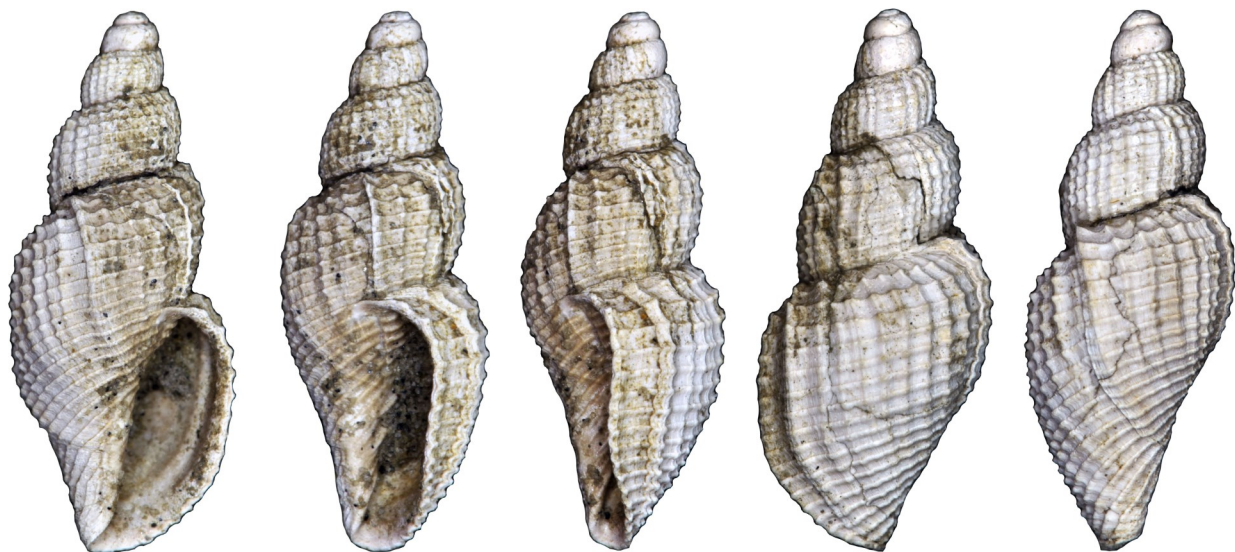


Cantharulus lemniscatus Sohl, 1964b, height 42.2 mm, width 22.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2696.

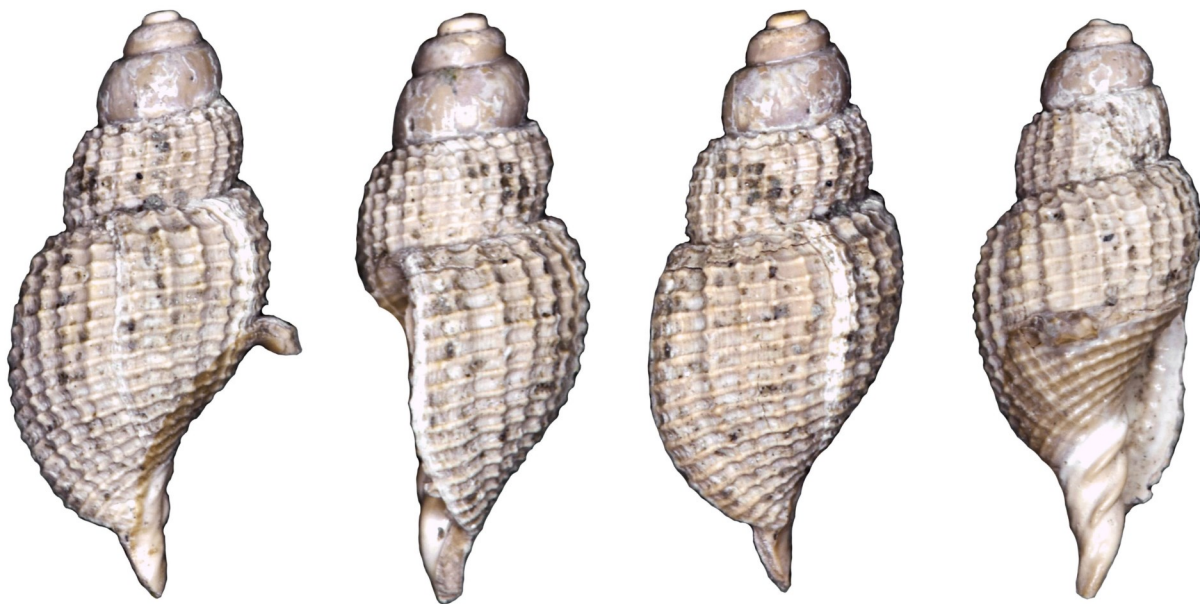


Cantharulus lemniscatus Sohl, 1964b, height 26.7 mm, width 15.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2697.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Ranellidae, Genus *Caveola* P57



Caveola acuta speciosa Sohl, 1964a, height 13.2 mm, width 5.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2698.



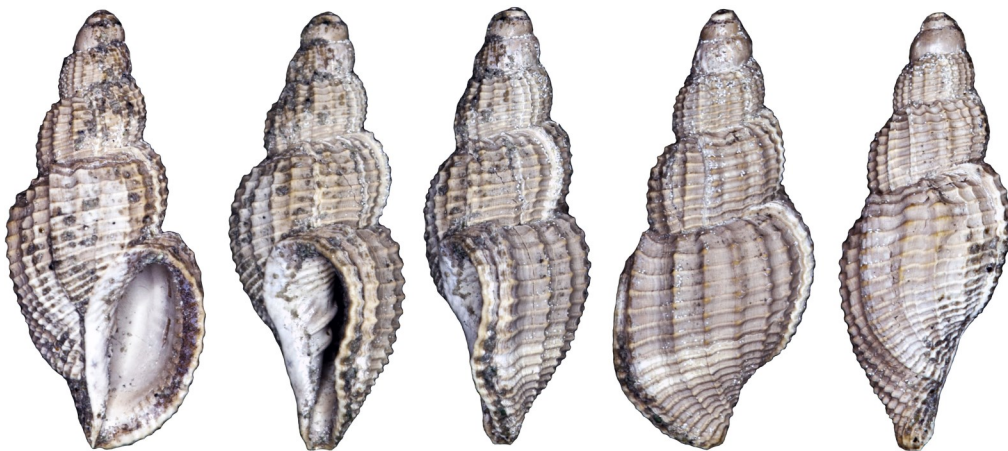
Caveola acuta speciosa Sohl, 1964a, incomplete height 6.0 mm, width 3.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2699.



Caveola acuta speciosa Sohl, 1964a, height 15.8 mm, width 7.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2700.

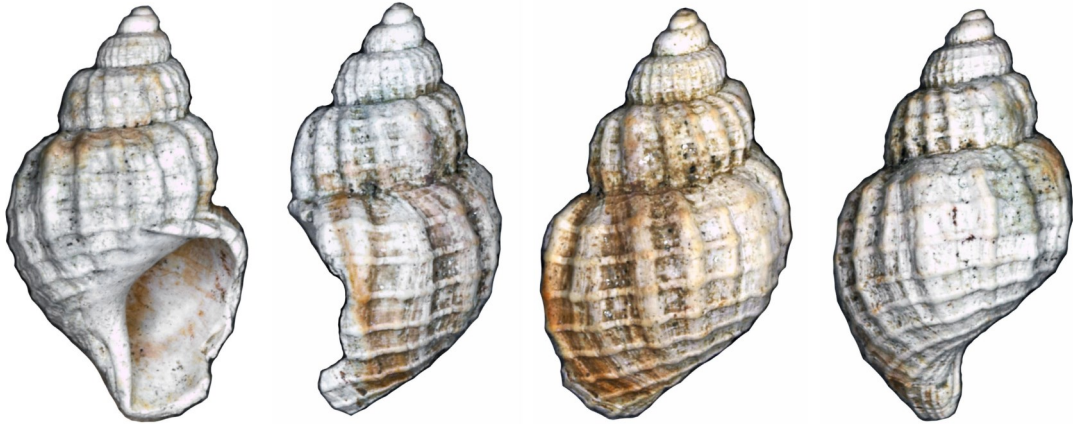


Caveola acuta speciosa Sohl, 1964a, juvenile height 4.5 mm, width 2.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2701.



Caveola sp., height 12.4 mm, width 5.5 mm, Coffee Sand, MGS locality 129 (upper clay bed). MGS figured specimen 2702.

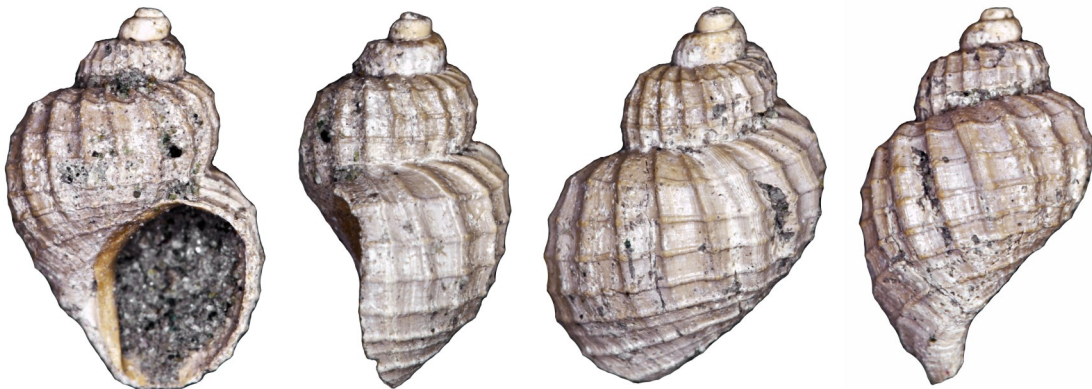
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Paladmetidae, Genus *Paladmete* P57



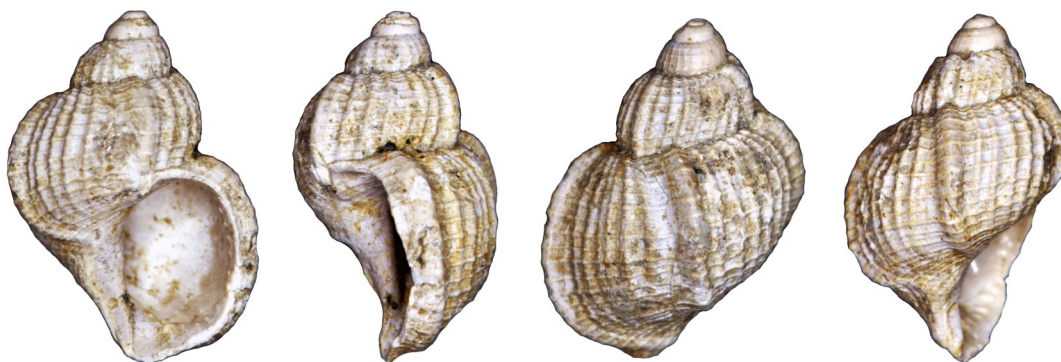
Paladmete cancellaria (Conrad, 1858), height 15.2 mm, incomplete width 9.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2703.



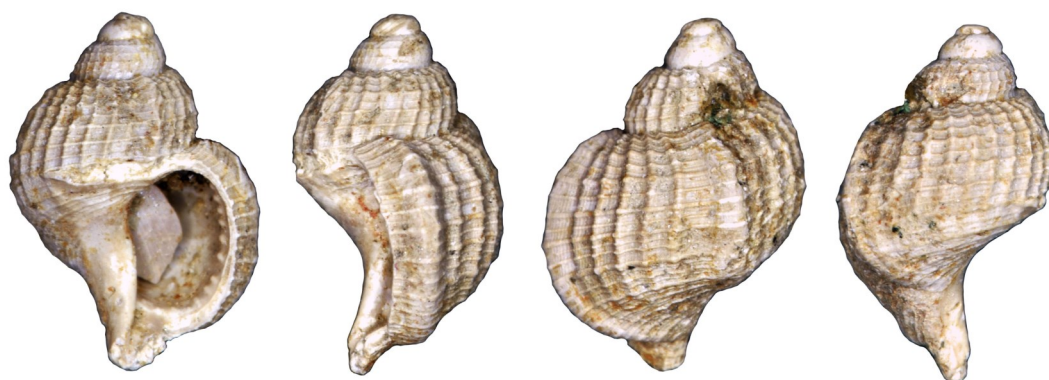
Paladmete cancellaria (Conrad, 1858), height 11.6 mm, incomplete width 7.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2704.



Paladmete cancellaria (Conrad, 1858), height 9.0 mm, width 6.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2705.



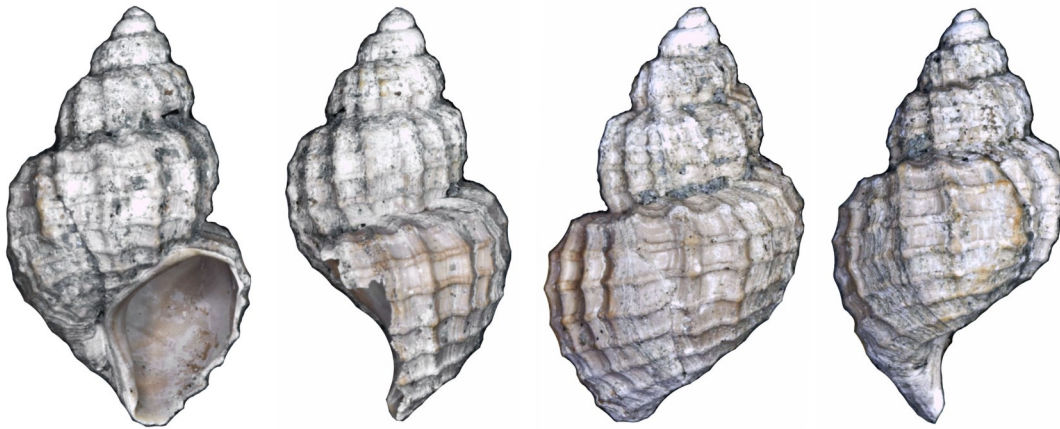
Paladmete cancellaria (Conrad, 1858), juvenile height 6.0 mm, incomplete width 5.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2706.



Paladmete cancellaria (Conrad, 1858), juvenile height 5.5 mm, incomplete width 4.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2707.



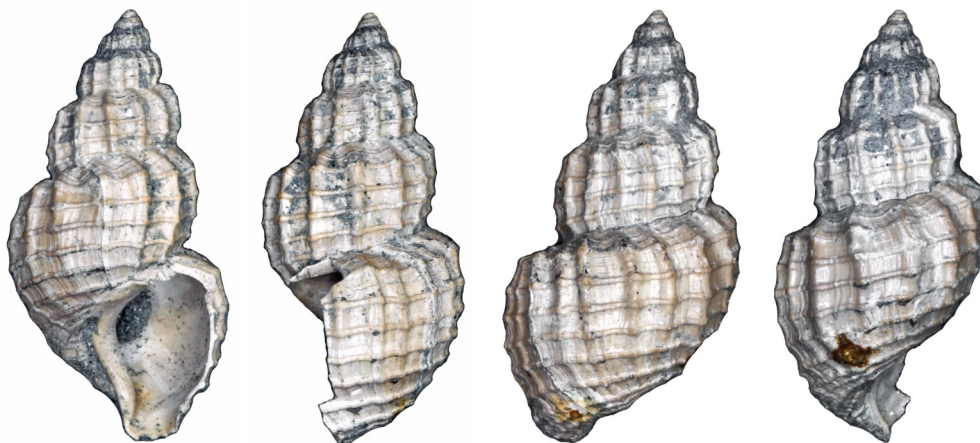
Paladmete cancellaria (Conrad, 1858), height 8.5 mm, width 5.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2708.



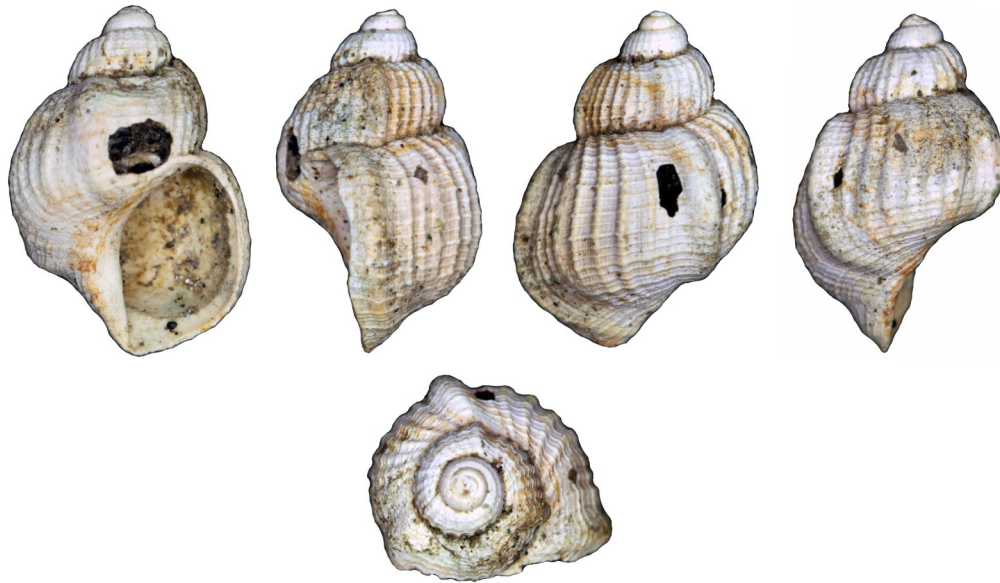
Paladmete tallahatchiensis n. sp., height 18.7 mm, incomplete width 11.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 171. MGS figured specimen 2709.



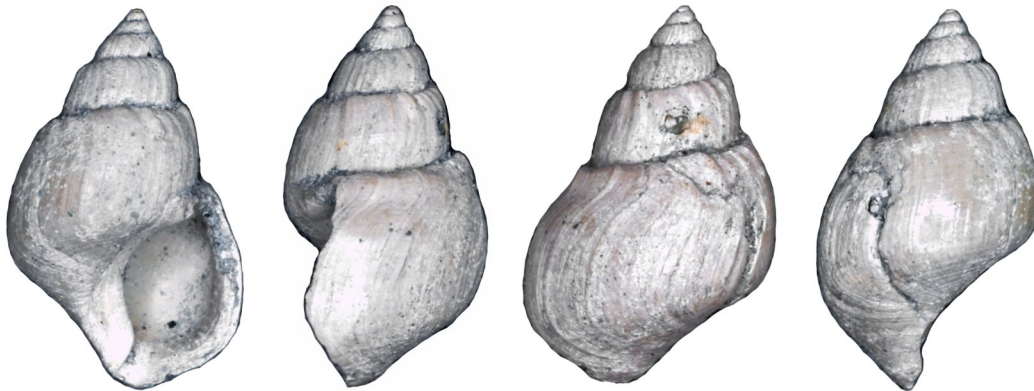
Paladmete tallahatchiensis n. sp., height 18.7 mm, incomplete width 10.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 171. MGS figured specimen 2710.



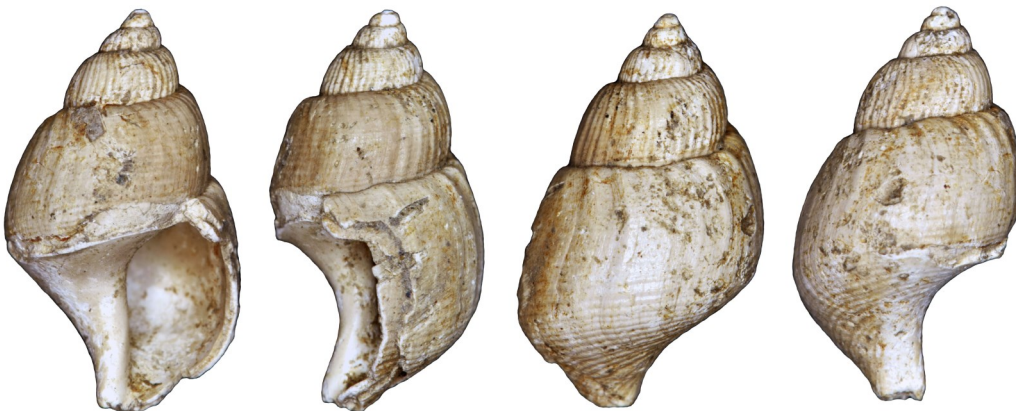
Paladmete tallahatchiensis n. sp., height 24.4 mm, incomplete width 12.6 mm, Coon Creek Tongue, Ripley Formation, MGS locality 171. Holotype USNM PAL 778030 (MGS figured specimen 2711).



Paladmete gardnerae pymae Sohl, 1964a, height 8.0 mm, width 5.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2712.

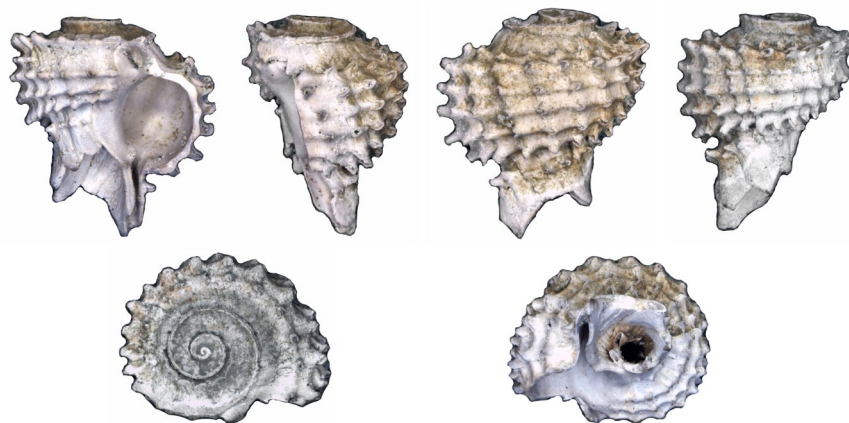


Paladmete laevis Sohl, 1964a, height 14.4 mm, width 8.9 mm, Coon Creek Tongue, Ripley Formation, MGS locality 171. MGS figured specimen 2713.

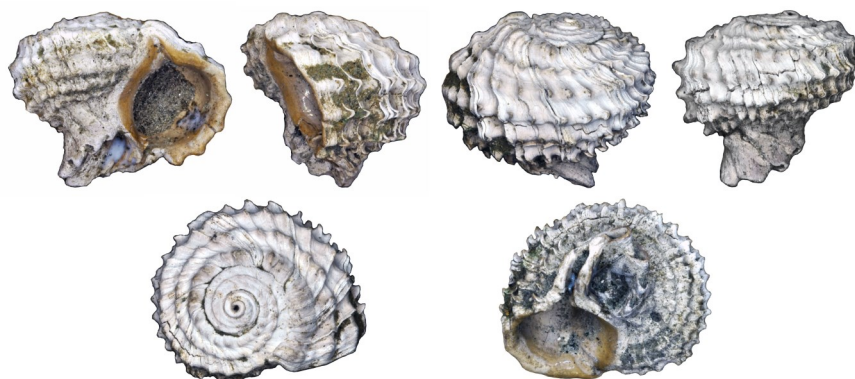


Paladmete laevis Sohl, 1964a, incomplete height 10.4 mm, width 6.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 171. MGS figured specimen 2714.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Sarganidae, Genus *Sargana* P60



Sargana stantoni (Weller, 1907), height 14.2 mm, width 12.8 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2715.



Sargana stantoni (Weller, 1907), height 16.4 mm, width 20.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2716.



Sargana stantoni (Weller, 1907), height 14.2 mm, width 12.8 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2717.



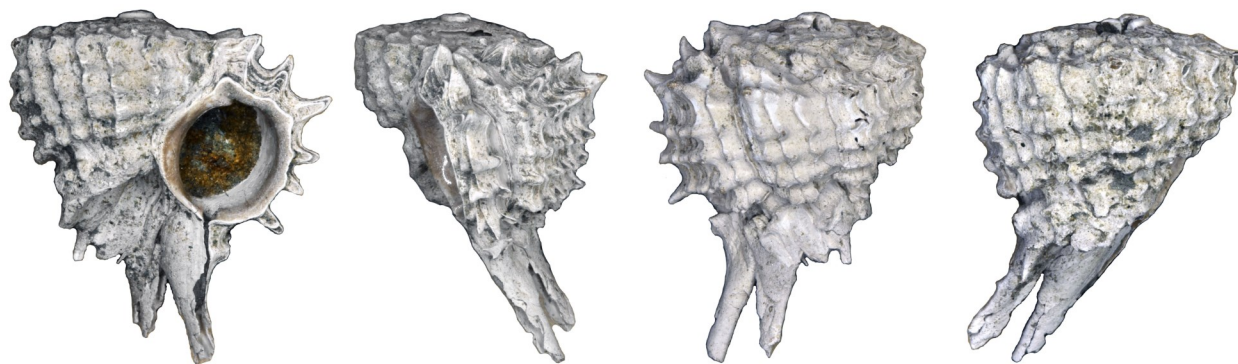
Sargana stantoni (Weller, 1907), 28.7 mm, width 32.8 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2718.



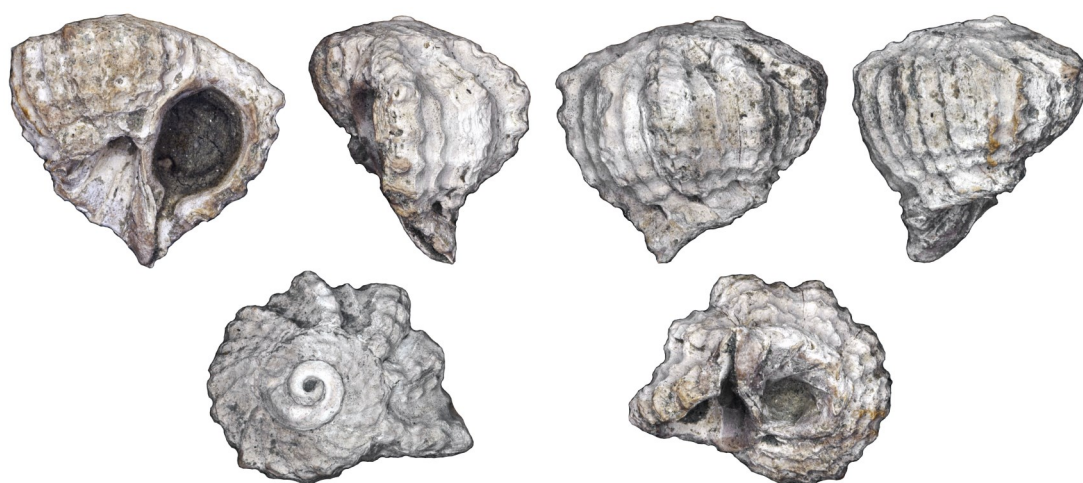
Sargana chappelvillei Bandel and Dockery, 2001, height 18.7 mm, width 20.5 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2719.



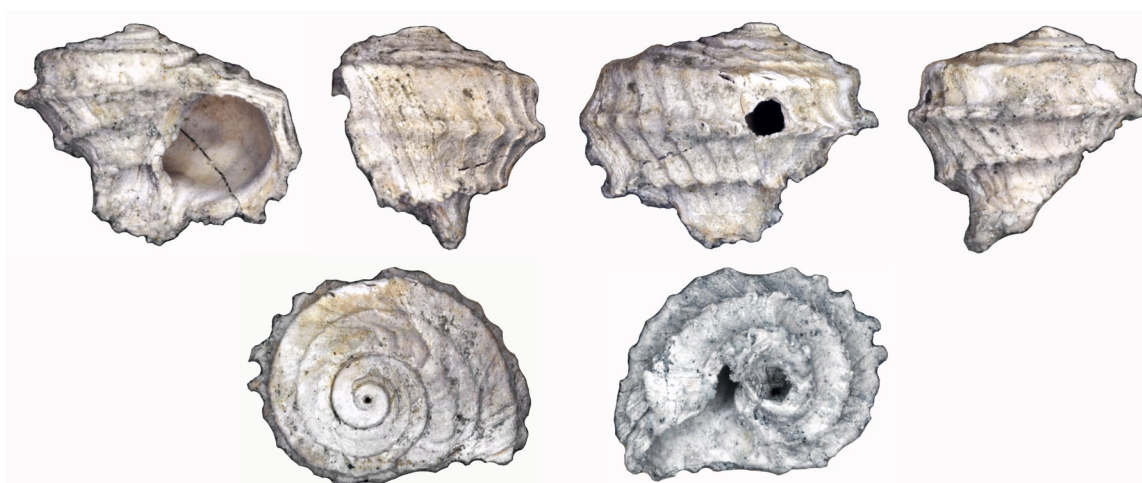
Sargana chappelvillei Bandel and Dockery, 2001, spire fragment in apical view, oblique apical view, and interior view, greatest width 11.7 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2720.



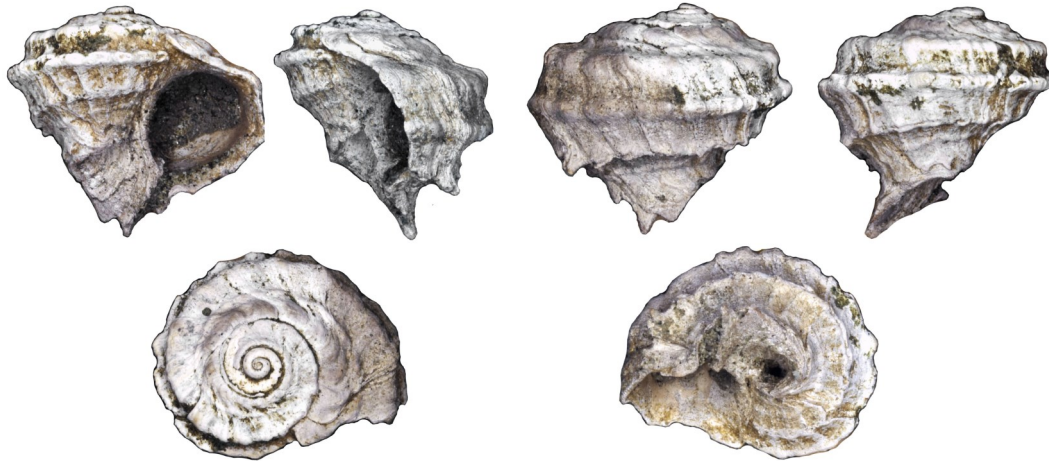
Sargana chappelvillei Bandel and Dockery, 2001, height 26.0 mm, width 23.0 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2721.



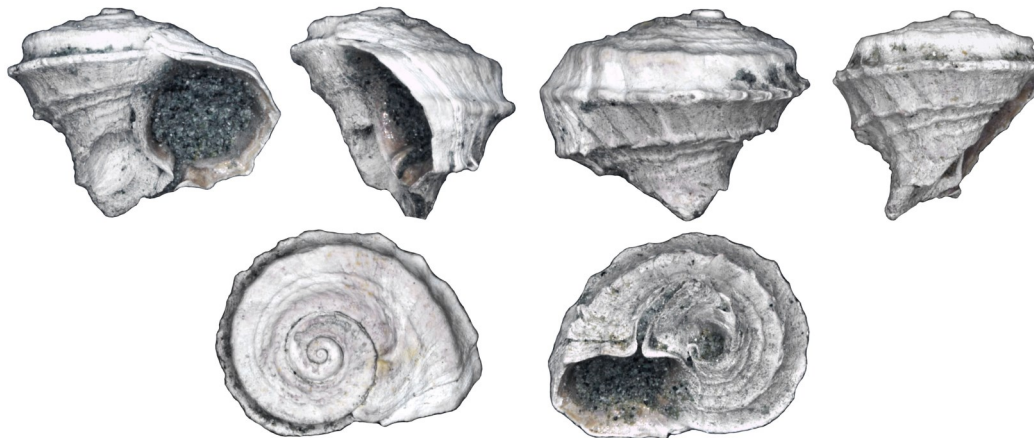
Sargana chappelvillei Bandel and Dockery, 2001, height 23.0 mm, width 24.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2722.



Sargana mississippiensis Bandel and Dockery, 2001, height 13.7 mm, width 17.6 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2723.

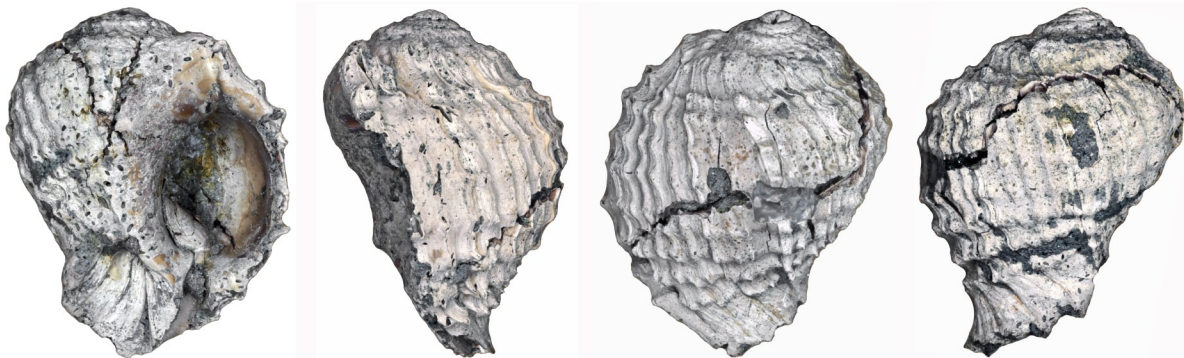


Sargana mississippiensis Bandel and Dockery, 2001, height 14.6 mm, width 16.3 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2724.



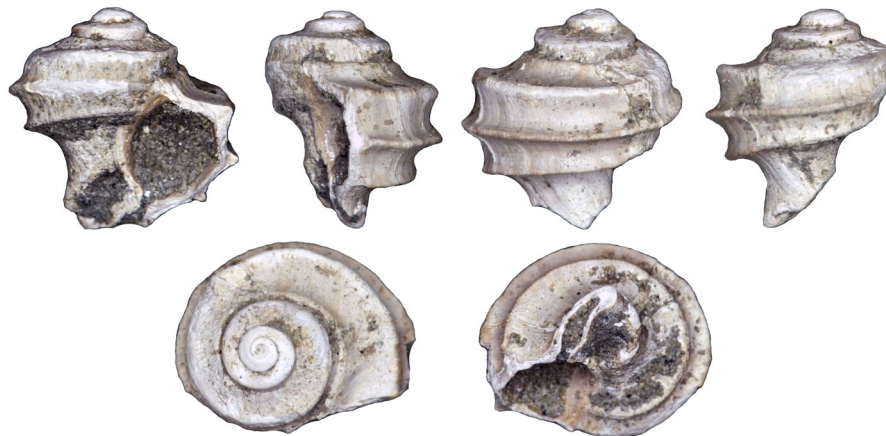
Sargana mississippiensis Bandel and Dockery, 2001, height 11.5 mm, width 14.2 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2725.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Sarganidae, Genus *Praesargana* P61



Praesargana tupeloensis Bandel and Dockery, 2001, height 28.7 mm, width 23.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2726.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Sarganidae, Subfamily Pseudecphorinae, Genus *Pseudecphora* P61 and Subfamily Schizobasinae, Genus *Schizobasis* P62



Pseudecphora proquadricostata (Conrad, 1843), height 6.9 mm, width 6.9 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2727.

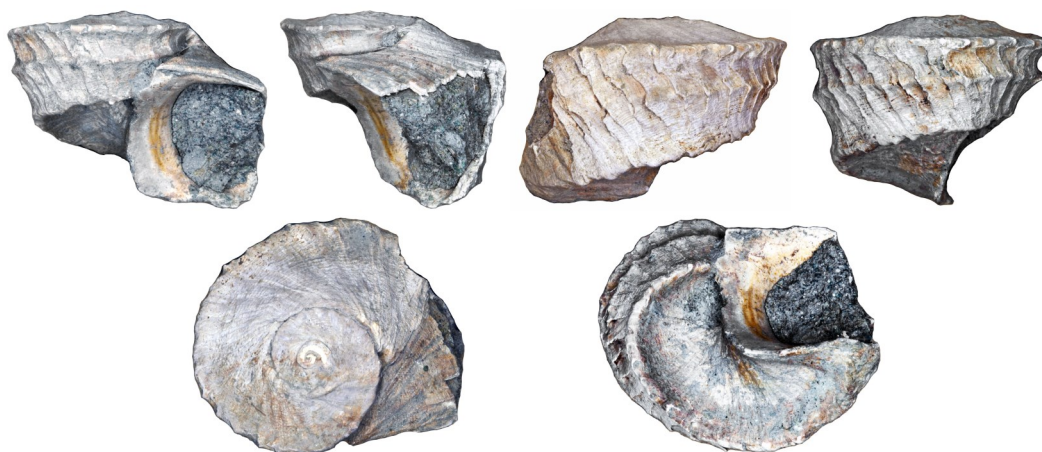


Pseudecphora proquadricostata (Conrad, 1843), height 7.2 mm, width 6.6 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2728.

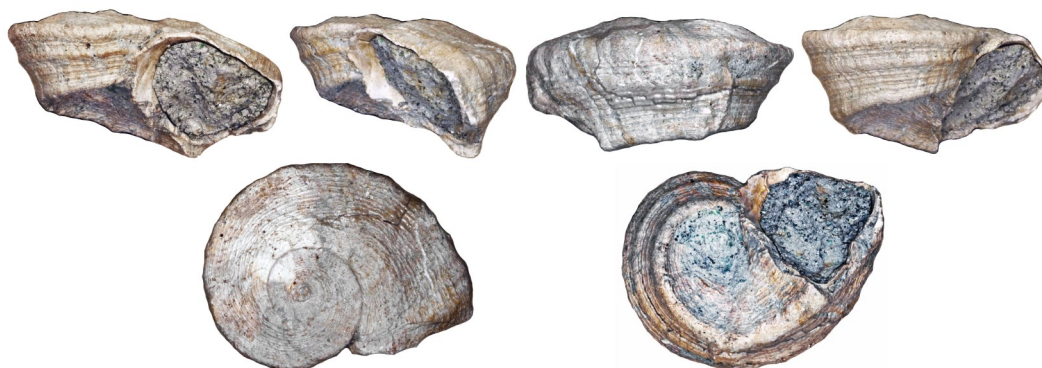


Schizobasis depressa Wade, 1916, height 22.2 mm, width 25.0, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2729.

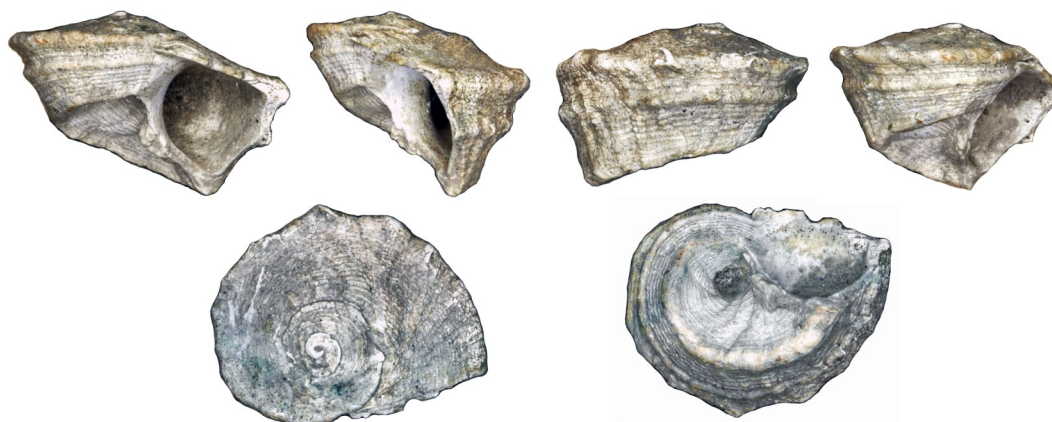
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Sarganidae, Genus *Lowenstamia* P62



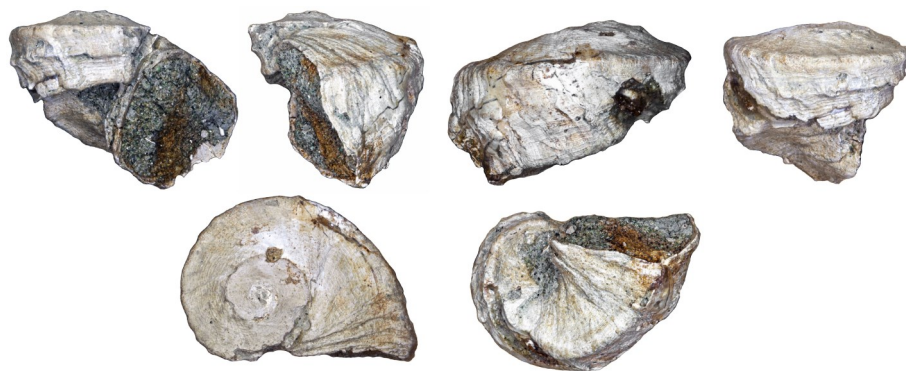
Lowenstamia liratus (Wade, 1926), height 25.5 mm, width 32.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2730.



Lowenstamia liratus (Wade, 1926), height 15.8 mm, width 25.8 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2731.



Lowenstamia liratus (Wade, 1926), height 12.5 mm, width 19.8 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2732.



Lowenstamia liratus (Wade, 1926), height 25.0 mm, width 32.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2733.



Lowenstamia funiculus Sohl 1964b, apical fragment, height 6.7 mm, width 12.0 mm, Coffee Sand, MGS locality 127. MGS figured specimen 2734.

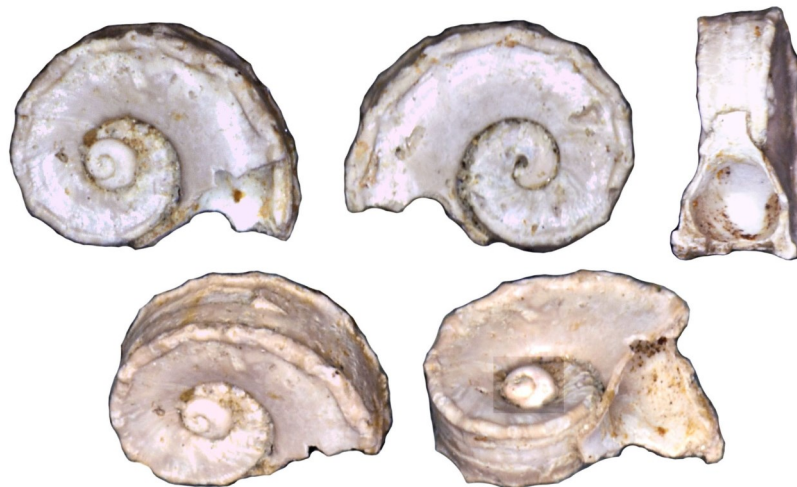


Lowenstamia funiculus Sohl, 1964b, with *Exogyra* attached, height 17 mm, width 25.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2735.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Sarganidae, Genus *Weeksia* P63

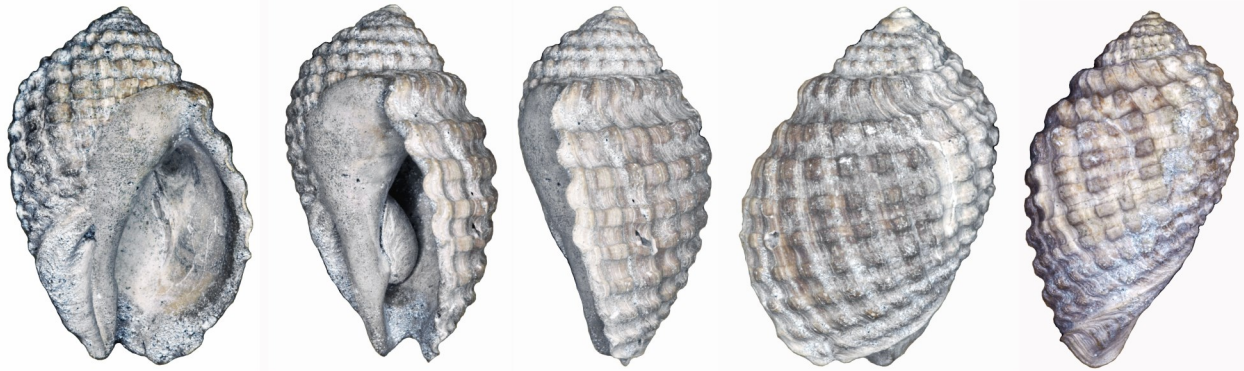


Weeksia amplificata (Wade, 1926), height 6.2 mm, width 19.8 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2736.

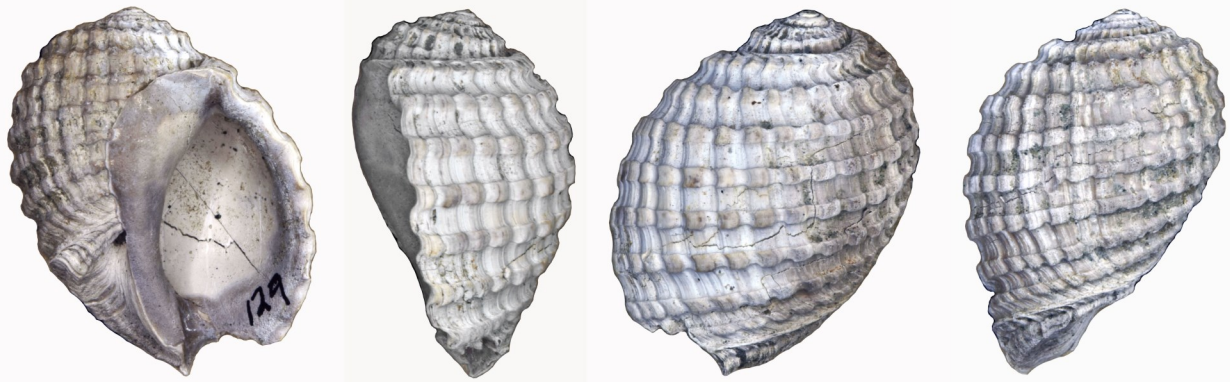


Weeksia amplificata (Wade, 1926), width 3.0 mm, Coon Creek, Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2737.

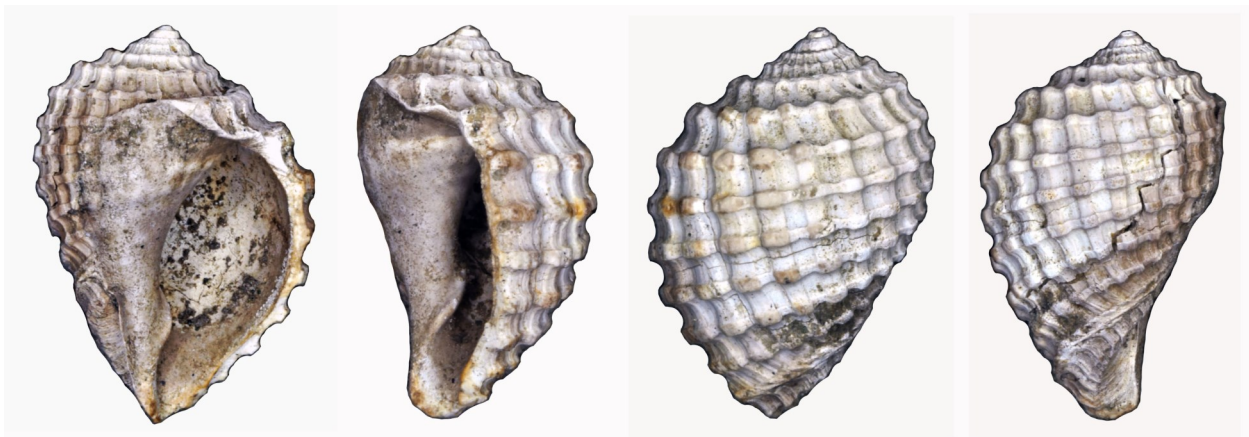
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Moreidae, Genus *Morea* P63



Morea rotunda Sohl, 1964a, with *Thylacus cretaceus* on columella in life position, height 30.0 mm, width 20.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2738.



Morea corsicanensis depressa Sohl, 1964b, height 24.5 mm width 19.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2739.



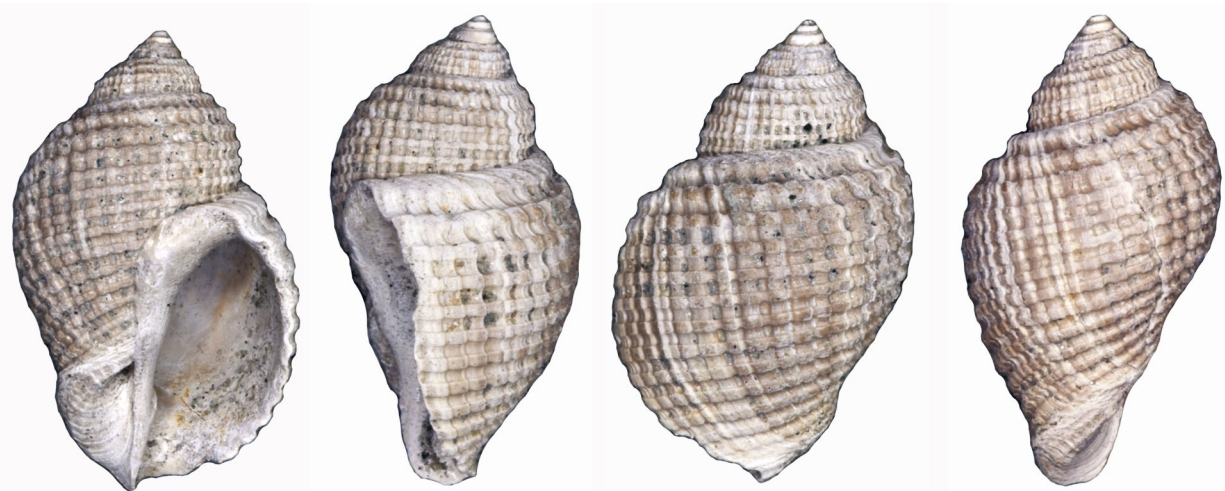
Morea corsicanensis depressa Sohl, 1964b, height 18.0 mm width 13.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2740.



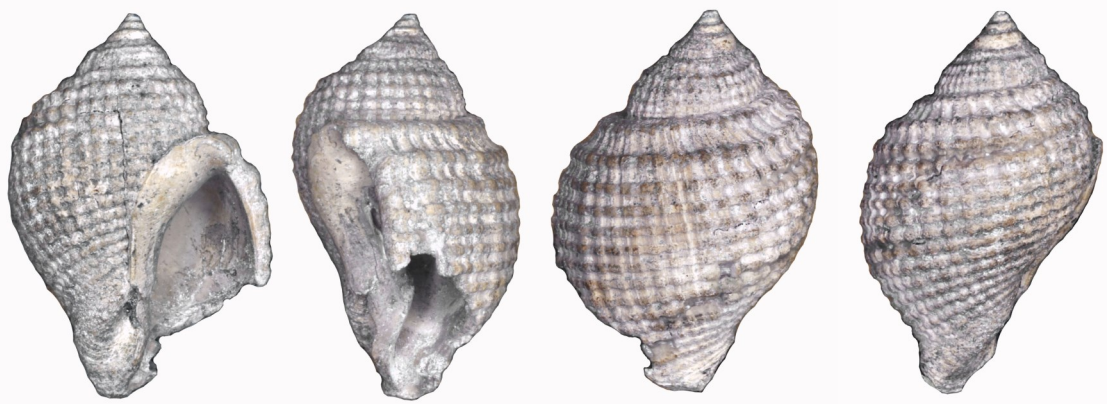
Morea corsicanensis depressa Sohl, 1964b, height 21.0 mm, width 16.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2741.



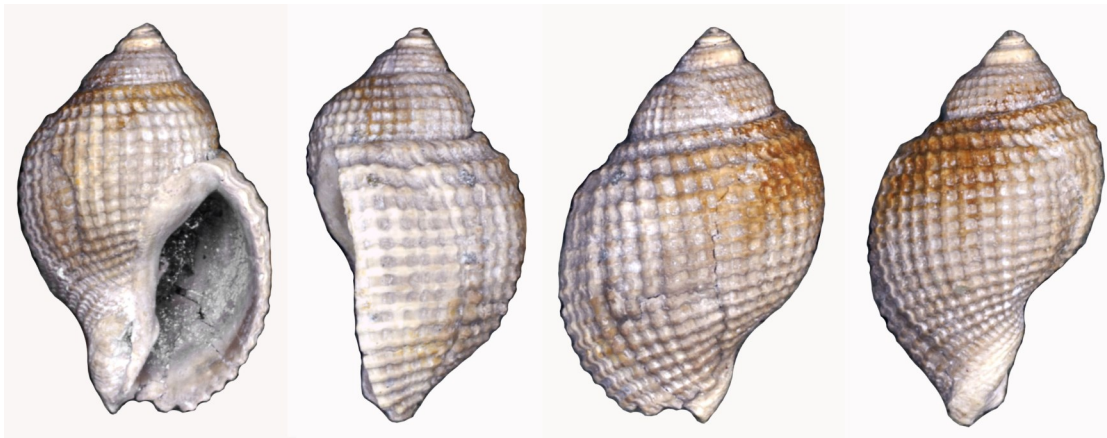
Morea corsicanensis depressa Sohl, 1964b, height 24.5 mm, width 17.9 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2742.



Morea marylandica Gardner, 1916, new subspecies, height 20.2 mm, width 12.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2743.

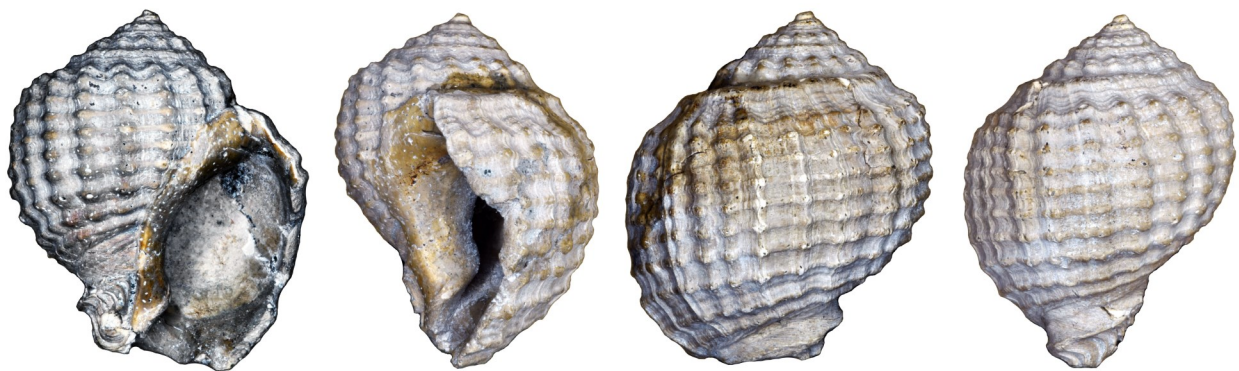


Morea marylandica Gardner, 1916, new subspecies, height 22.0 mm, width 15.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2744.

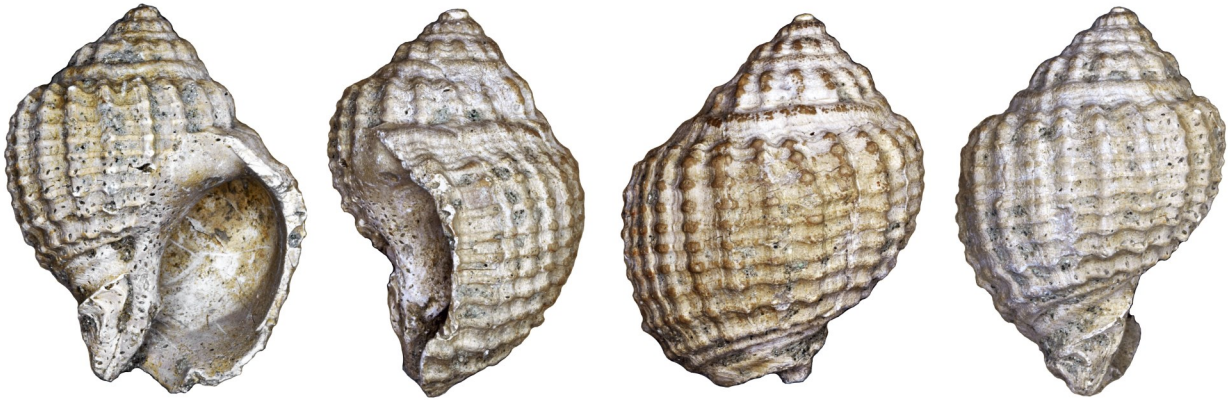


Morea marylandica Gardner, 1916, new subspecies, height 14.4 mm, width 9.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2745.

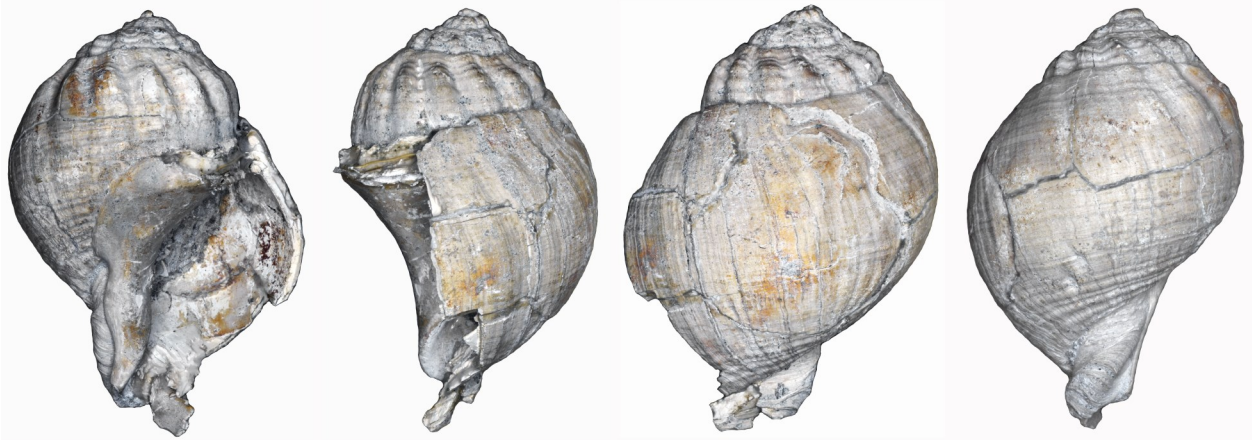
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neomesogastropoda, Superfamily Cassoidea, Family Moreidae, Genus *Buccinopsis* P66



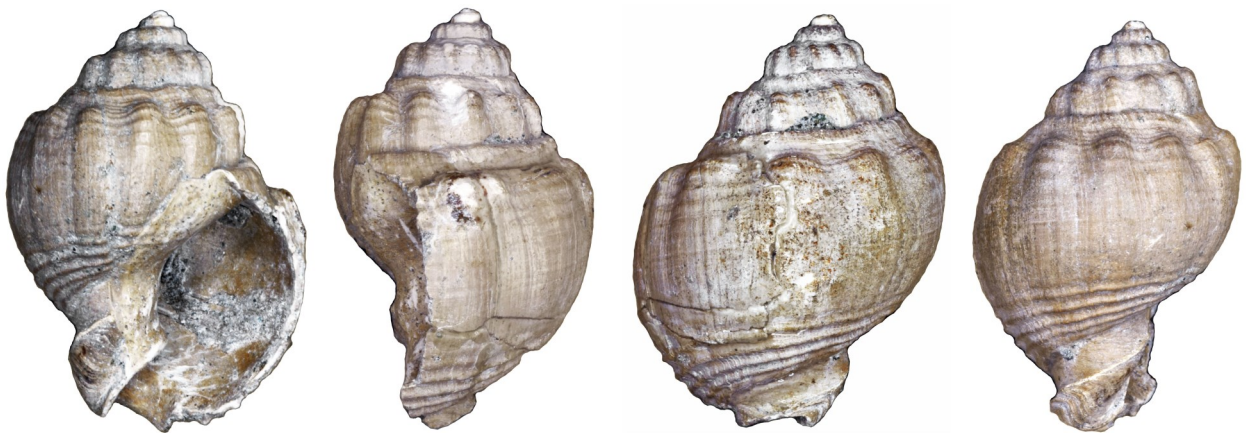
Buccinopsis solida (Wade, 1917), height 32.4 mm, width 27.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2746.



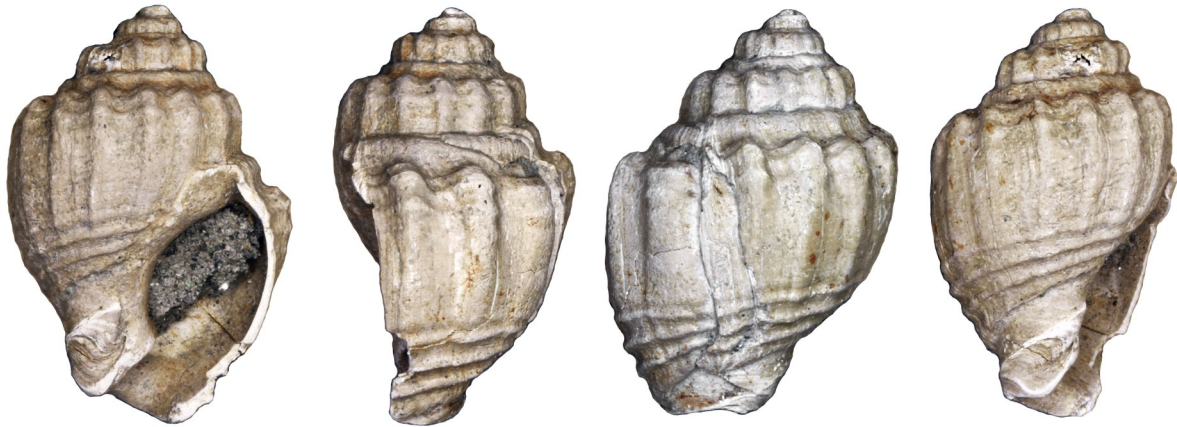
Buccinopsis solida (Wade, 1917), height 33.8 mm, width 26.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2747.



Buccinopsis crassicostata (Gabb, 1876), height 66.5 mm, incomplete width 45.6 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2748.



Buccinopsis dorotheiella Sohl, 1964a, height 33.0 mm, width 24.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2749.



Buccinopsis dorothiella Sohl, 1964a, height 27.6 mm, width 18.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2750.



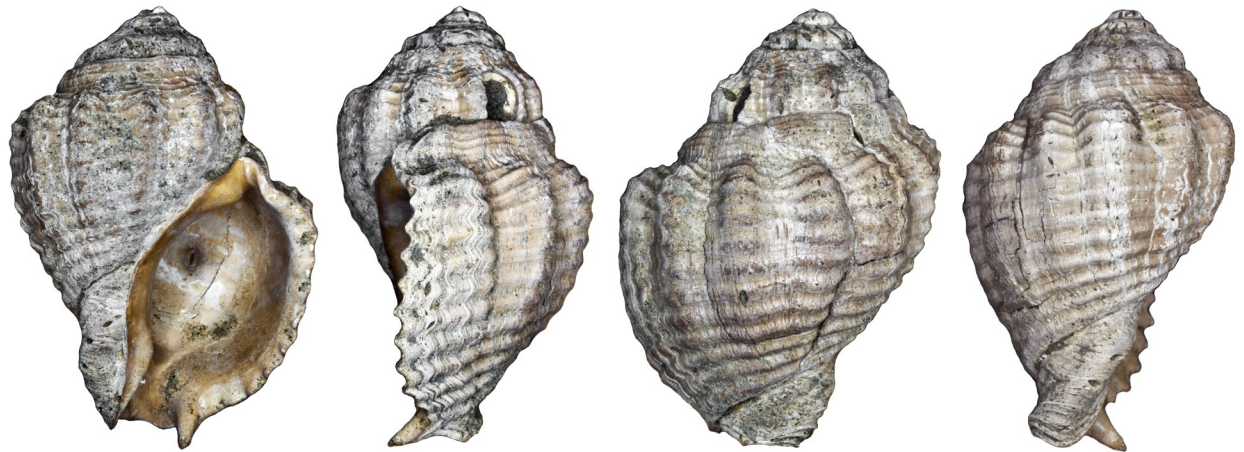
Buccinopsis rikardi n. sp., height 59.1 mm, width 40.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2751.



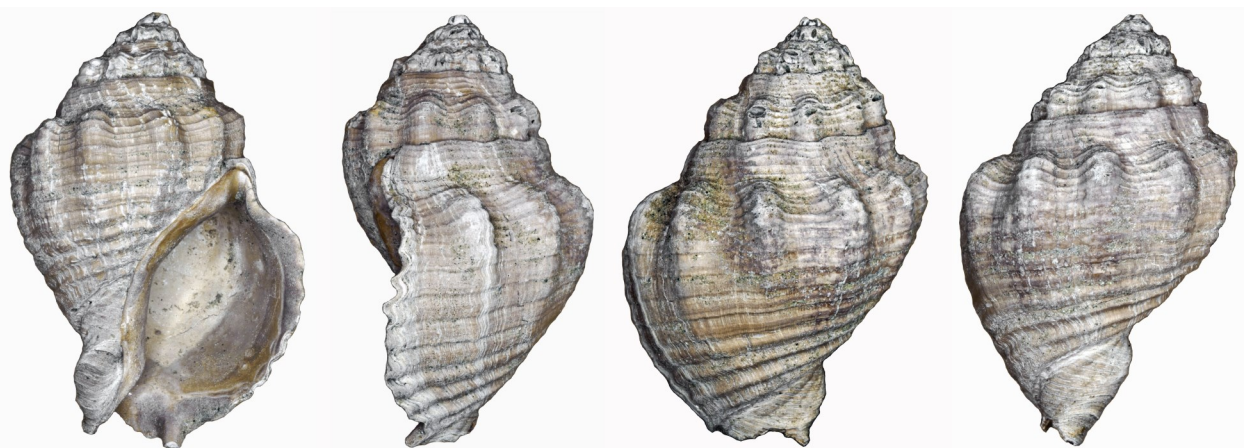
Buccinopsis rikardi n. sp., height 51.7 mm, width 32.3 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778031 (MGS figured specimen 2752).



Buccinopsis rikardi n. sp., height 38.9 mm, width 27.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2753.



Buccinopsis rikardi n. sp., height 48.2 mm, width 33.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2754.

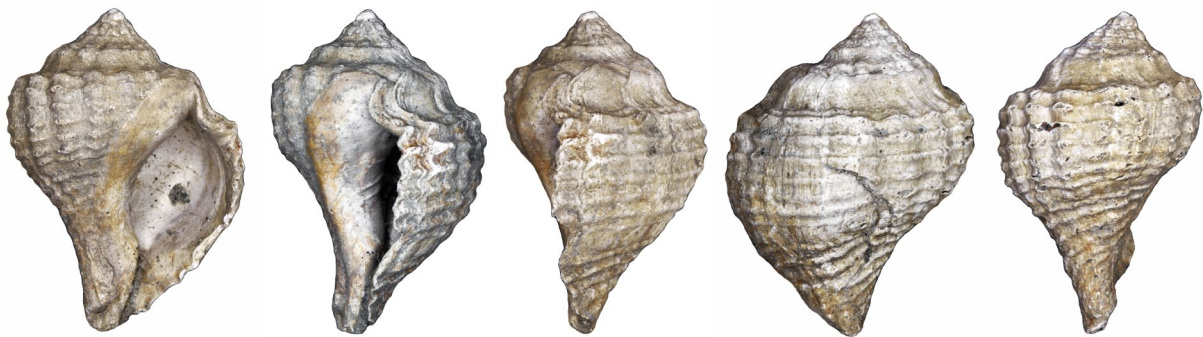


Buccinopsis rikardi n. sp., height 52.6 mm, width 35.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2755.

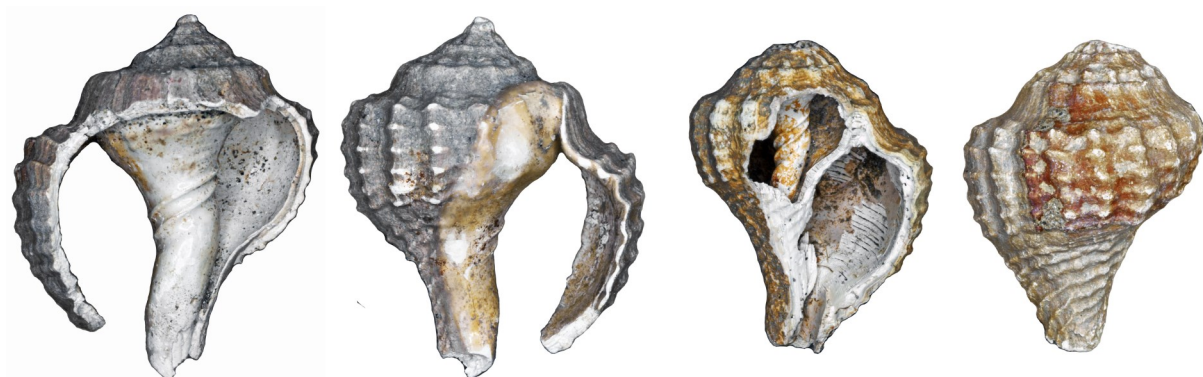
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Pyrifusus* P67



Pyrifusus crassus Sohl, 1964a, height 36.2, width 25.6, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2756. *Pyrifusus* differs from *Lupira* in having a smooth columella as shown in second image.



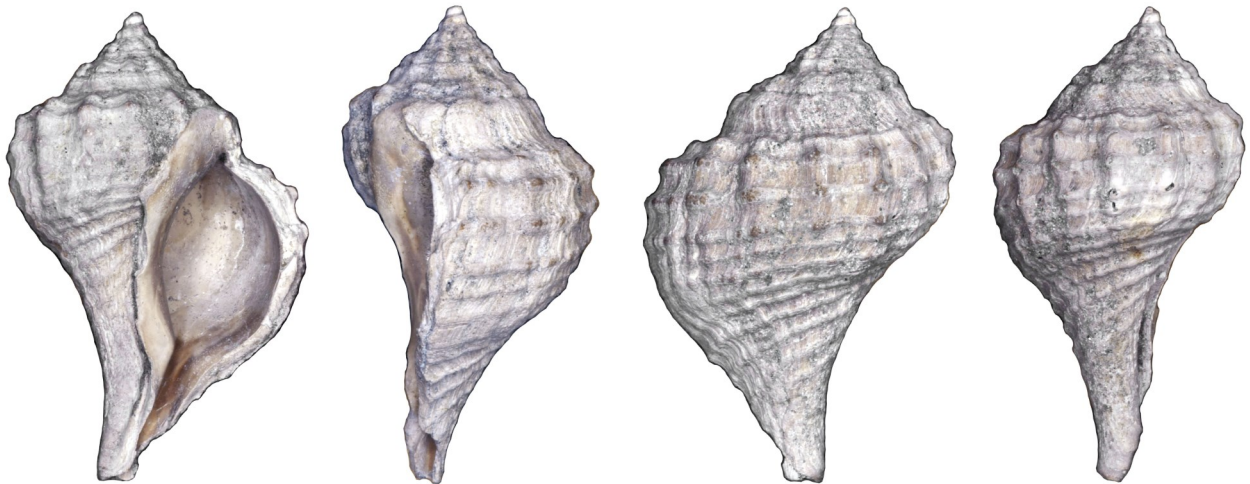
Lupira pyriformis Stephenson, 1941, height 37.0 mm, width 27.5, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2757. *Lupira* differs from *Pyrifusus* in having columellar plications as seen in the second image.



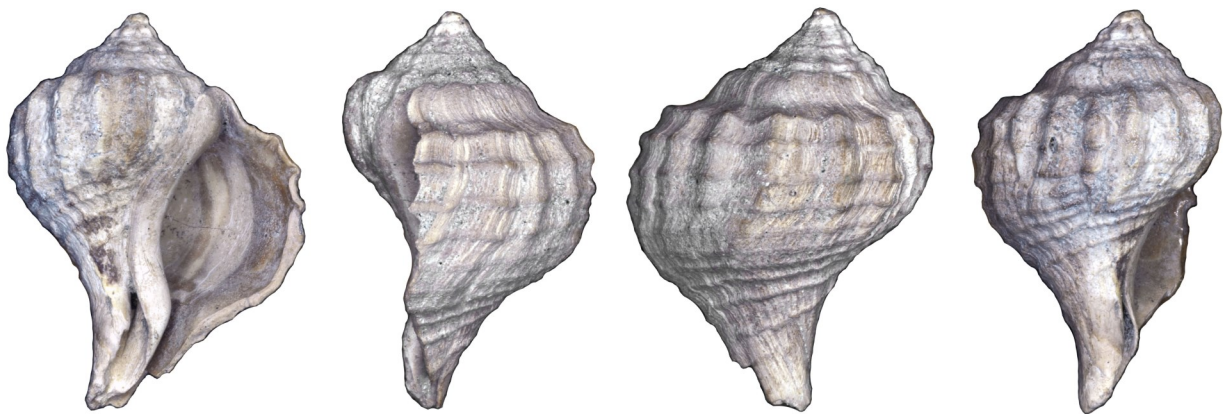
Lupira pyriformis Stephenson, 1941, broken specimens showing columellar plications, Coon Creek Tongue, Ripley Formation, MGS locality 127. Specimen at left, MGS figured specimen 2758, height 31.6 mm, width 25.9 mm. At right, MGS figured specimen 2759, height 27.5 mm, width 21.5 mm.



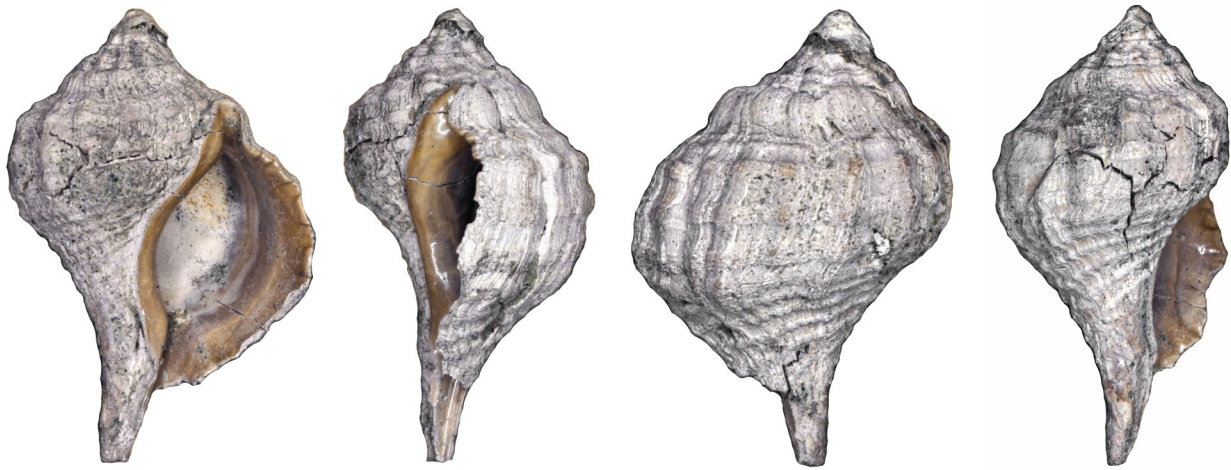
Pyrifusus crassus Sohl, 1964a, height 31.6 mm, width 21.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2760.



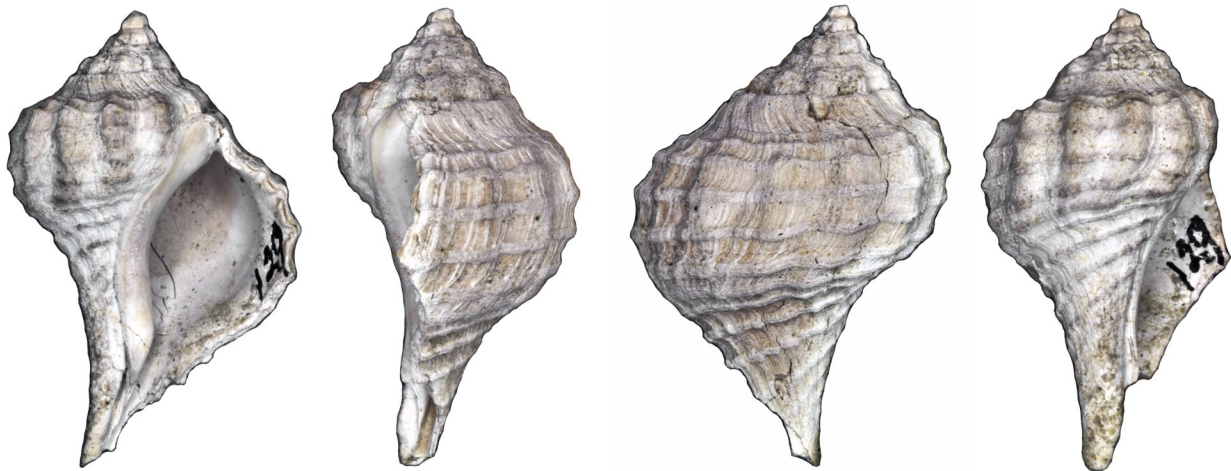
Pyrifusus sinuocostatus Sohl, 1964b, height 29.4 mm, width 19.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2761.



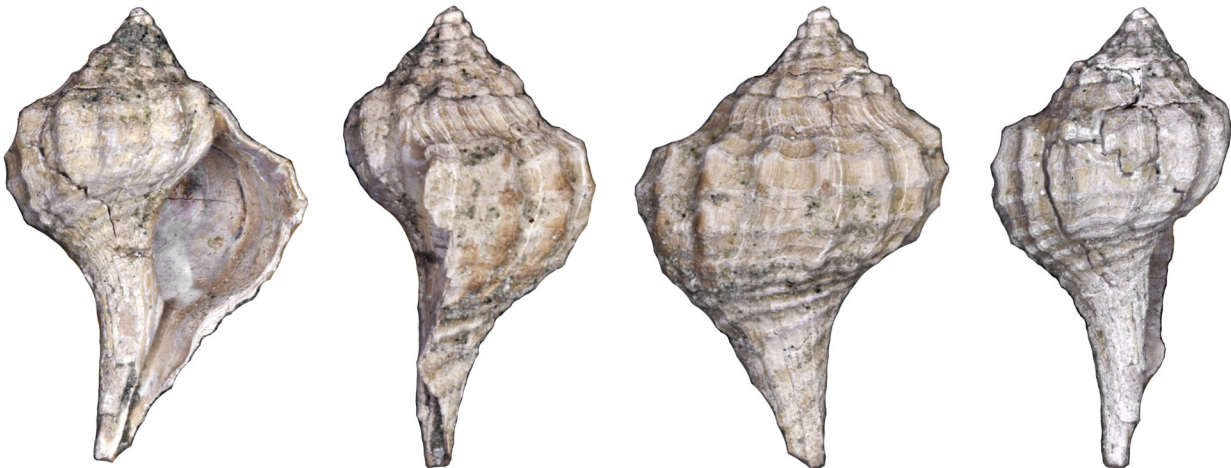
Pyrifusus sinuocostatus Sohl, 1964b, height 26.6 mm, width 20.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2762.



Pyrifusus sinuocostatus Sohl, 1964b, height 30.0 mm, width 20.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2763.

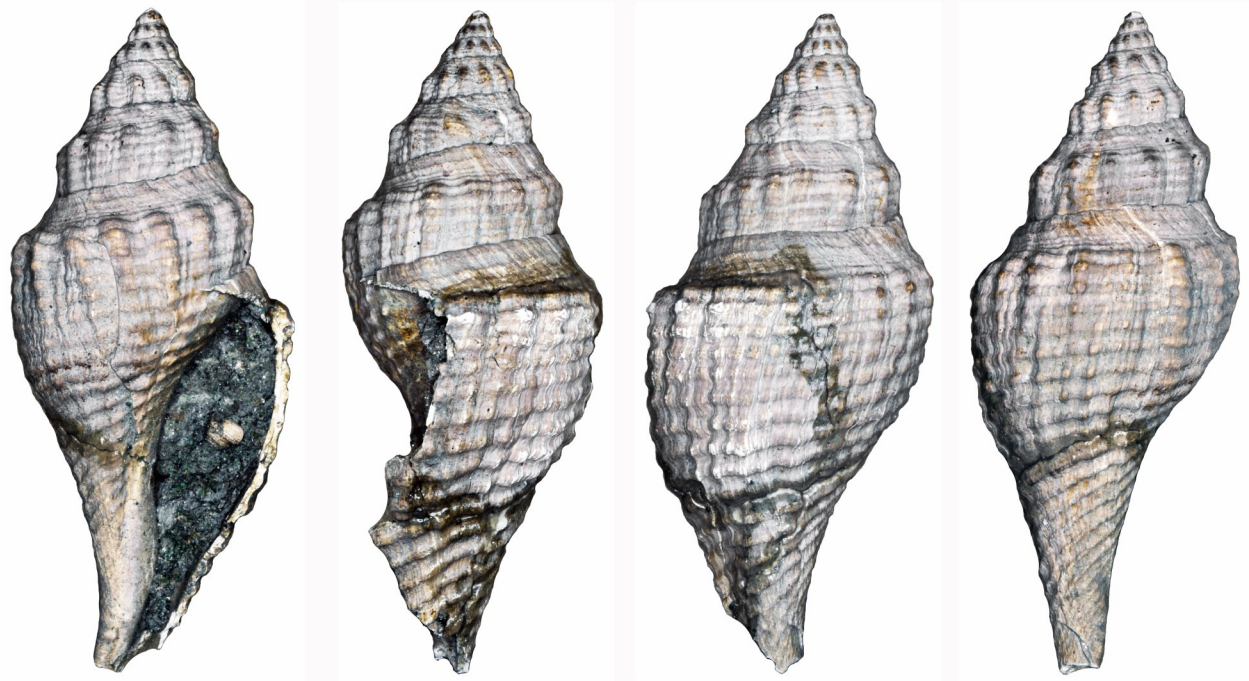


Pyrifusus sinuocostatus Sohl, 1964b, height 26.7 mm, width 17.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2764.

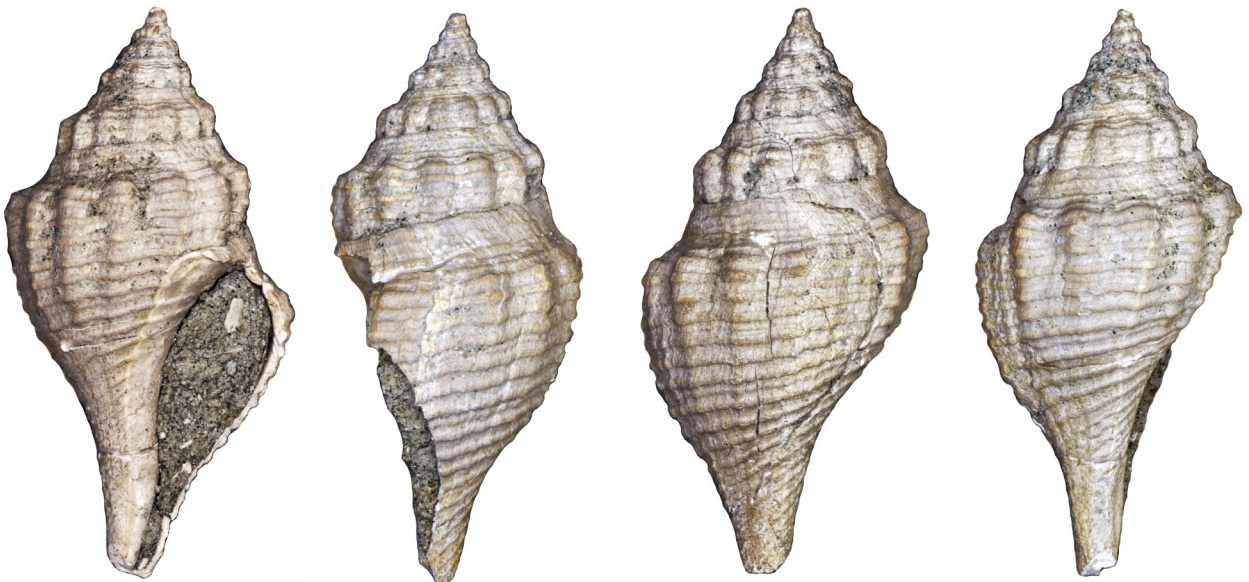


Pyrifusus sinuocostatus Sohl, 1964b, height 22.5 mm, width 14.9 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2765.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Deussenia* P68



Deussenia ripleyana (Harbison, 1945), height 63.2 mm, width 26.9 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2766.



Deussenia ripleyana (Harbison, 1945), height 42.8 mm, width 22.1 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2767.



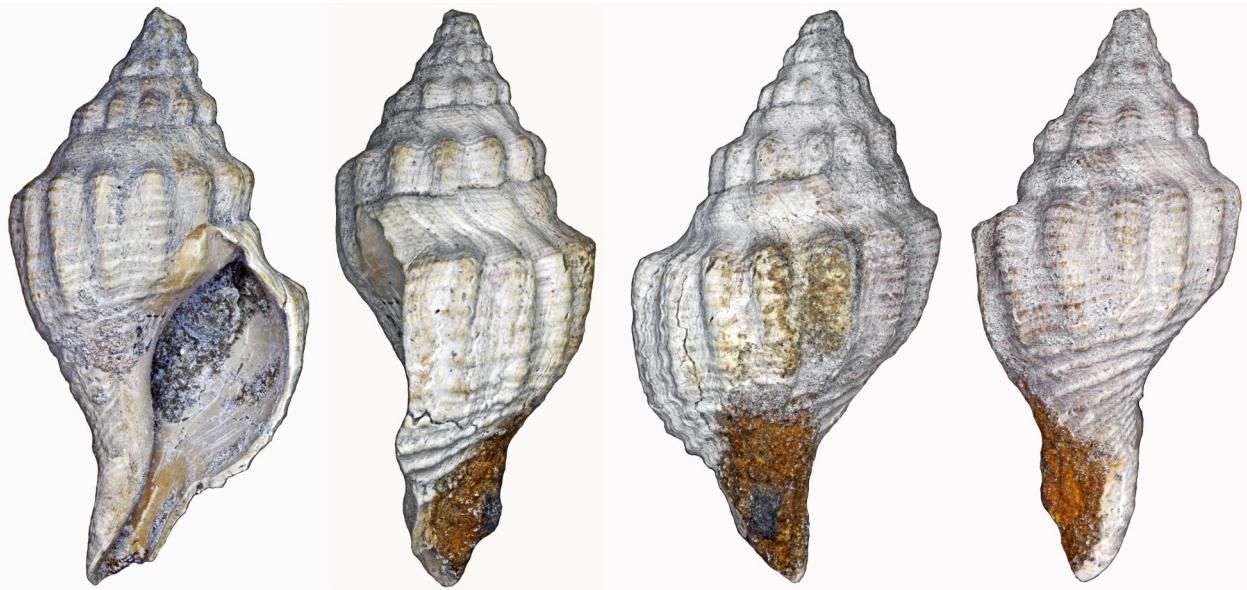
Deussenia ripleyana (Harbison, 1945), incomplete height 53.3 mm, width 30.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2768.



Deussenia ripleyana Harbison, 1945, height 29.3 mm, width 14.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2769.



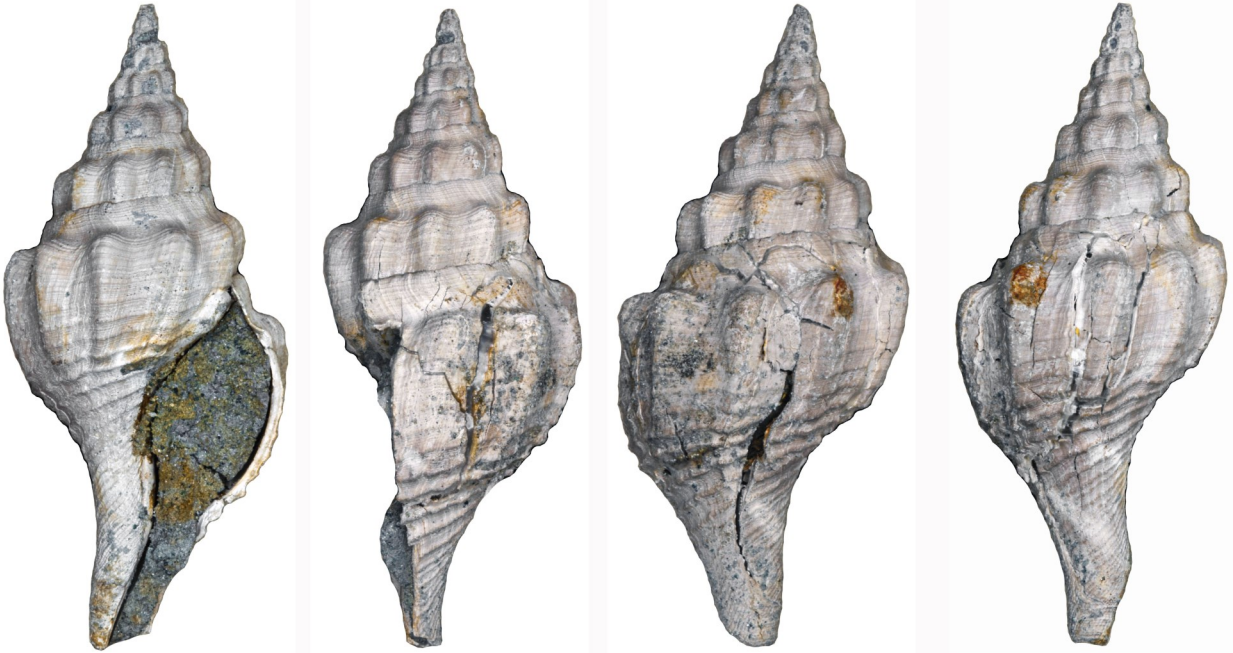
Deussenia ripleyana Harbison, 1945, juvenile height 7.5 mm, width 3.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2770.



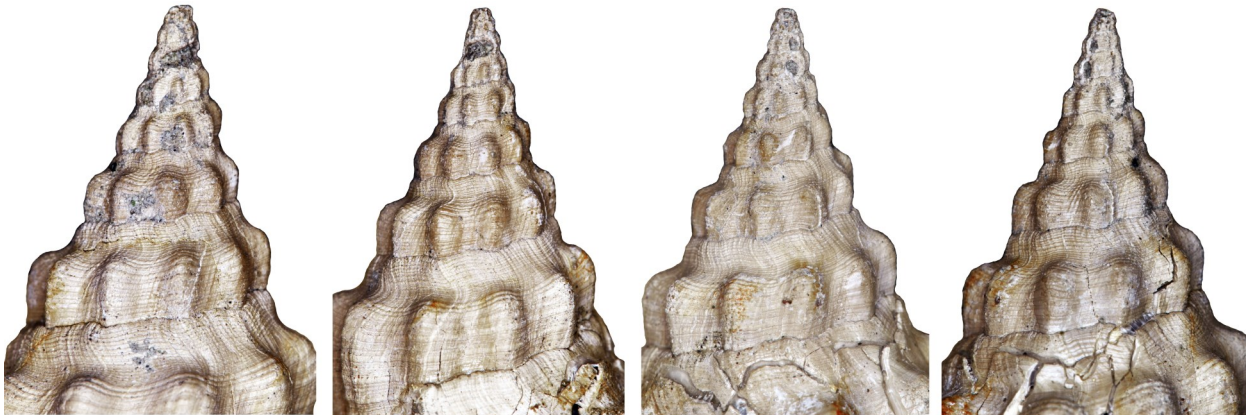
Deussenia breukeleni n. sp., height 58.2 mm, width 30.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2771.



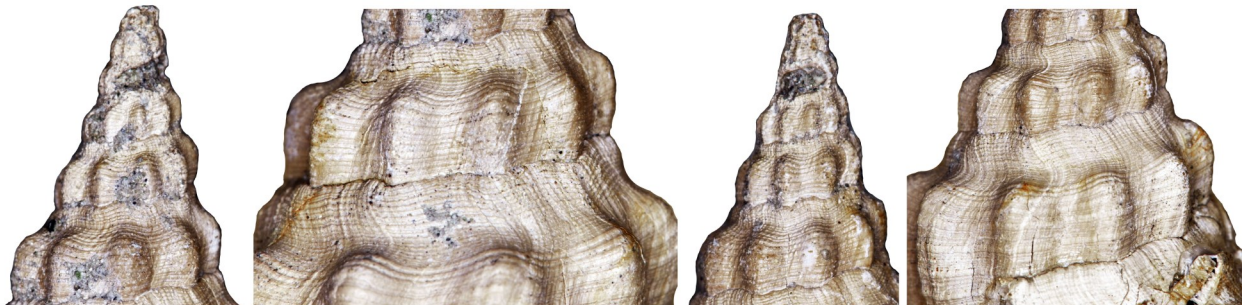
Deussenia breukeleni n. sp., height 60.6 mm, width 30.8 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778032 (MGS figured specimen 2772).



Deussenia breukeleni n. sp., incomplete height 45.2 mm, width 19.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2773.



Deussenia breukeleni n. sp., matching views of the spire of MGS figured specimen 2773.



Deussenia breukeleni n. sp., enlargement of apertural and second view at top, showing the fine lirate sculpture on the first six whorles and then whorls seven-eight.



Deussenia breukeleni n. sp., incomplete height 42.4 mm, width 22.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2774.



Deussenia breukeleni n. sp., height 69.5 mm, width 39.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2775.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pseudorapinae, New Genus *Bullafusus*



Bullafusus n. gen., *mississippiensis* n. sp., incomplete height 61.2 mm, width 30.0 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778033 (MGS figured specimen 2776).



Bullafusus (n. gen.) *mississippiensis* n. sp., incomplete height 37.9 mm, width 24.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2777.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Bellifusus* P68



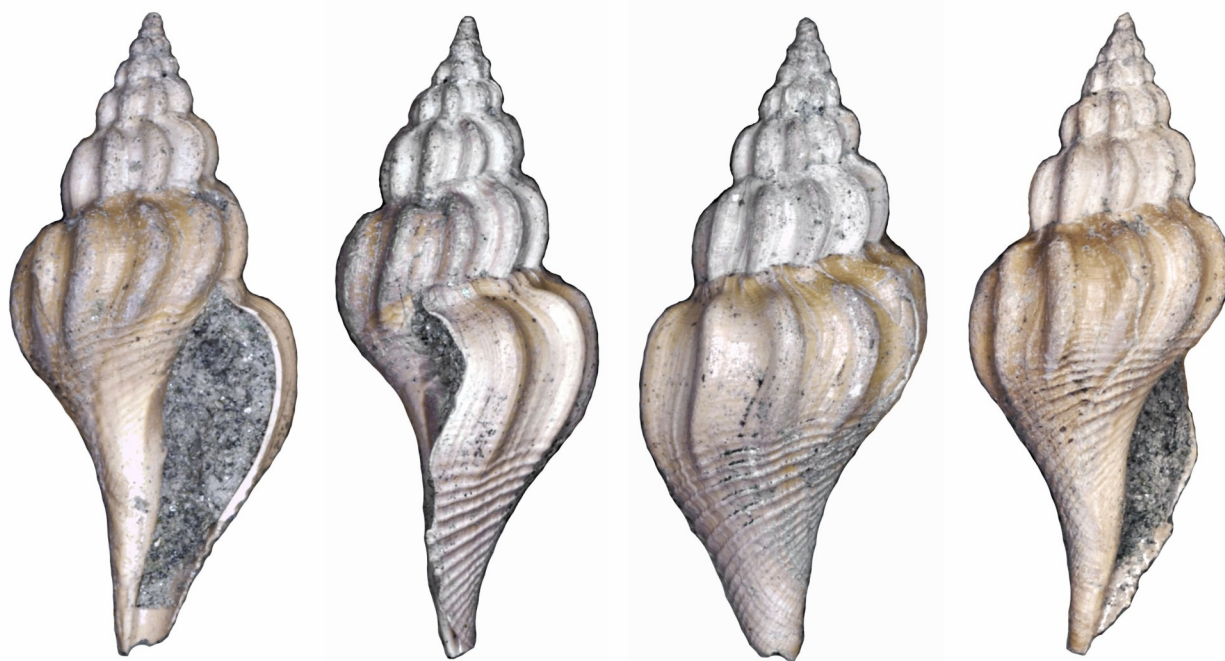
Bellifusus sp.?, juvenile height 9.4 mm, width 4.6 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2778.



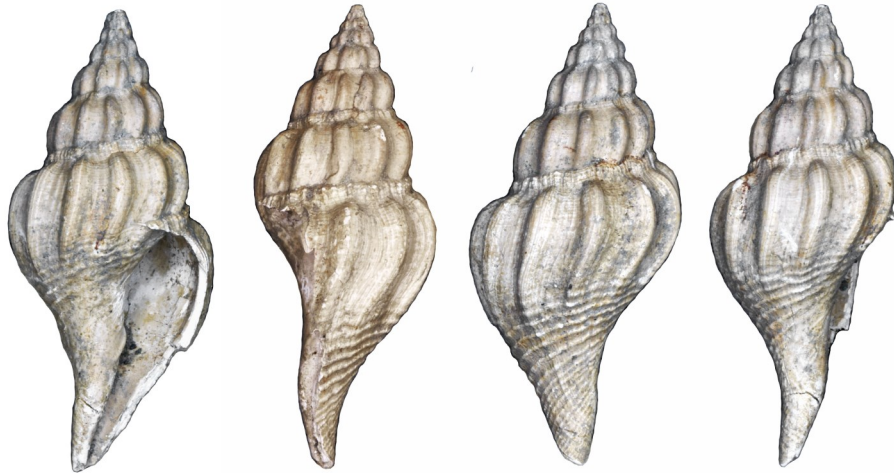
Bellifusus sp.?, juvenile height 6.3 mm, width 3.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2779.



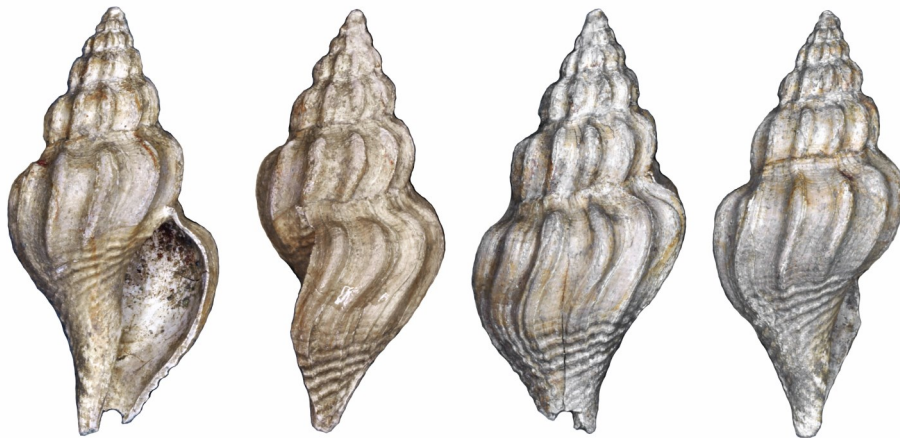
Bellifusus minutus n. sp., height 7.0 mm, width 2.8 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778034 (MGS figured specimen 2780).



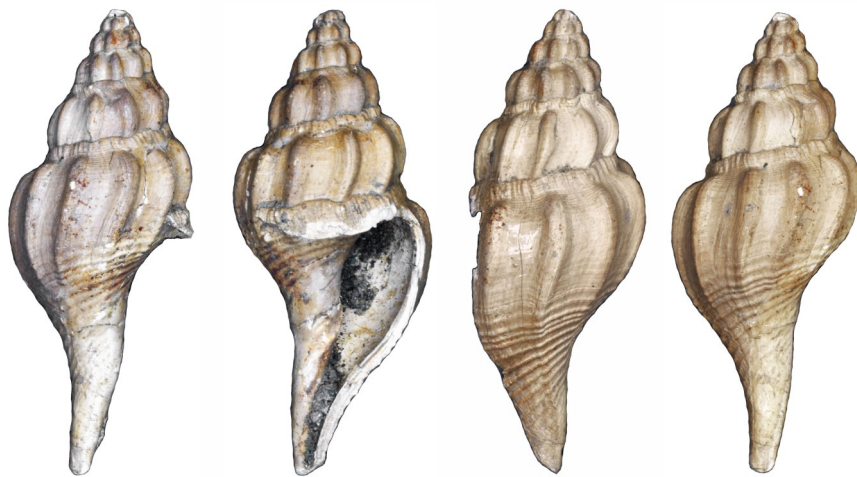
Bellifusus curvicostatus (Wade, 1926), height 24.4 mm, width 10.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2781.



Bellifusus curvicostatus (Wade, 1926), height 31.7 mm, width 14.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2782.



Bellifusus curvicostatus (Wade, 1926), height 29.0 mm, width 14.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2783.



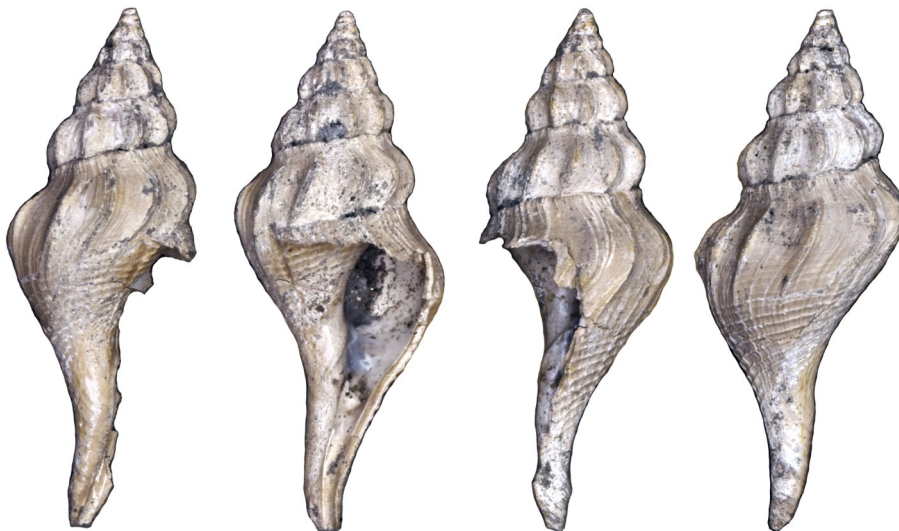
Bellifusus curvicostatus (Wade, 1926), height 36.9 mm, incomplete width 15.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2784.



Bellifusus annabellae n. sp., height 31.9 mm, width 13.2 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2785.



Bellifusus annabellae n. sp., height 21.4 mm, width 9.1 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2786.



Bellifusus annabellae n. sp., height 27.8 mm, incomplete width 11.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2787.



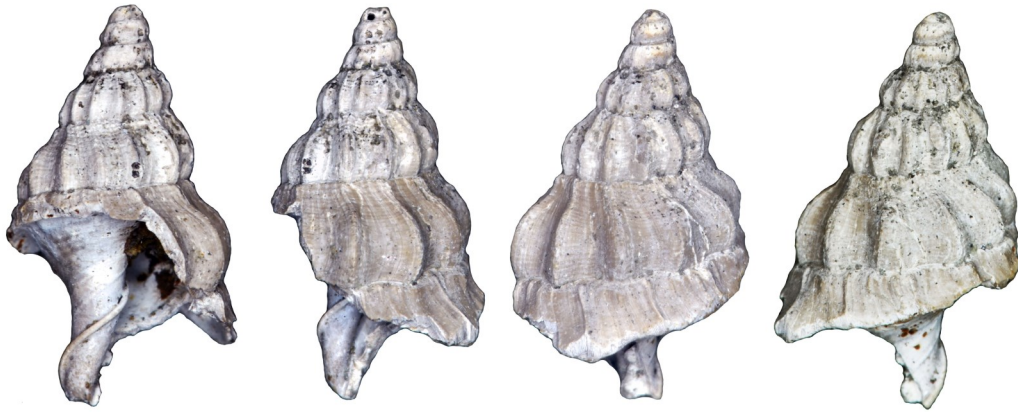
Bellifusus annabellae n. sp., height 36.4 mm, width 15.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2788.



Bellifusus annabellae n. sp., height 28.7 mm, width 11.1 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778035 (MGS figured specimen 2789).



Bellifusus annabellae n. sp., apical fragment, height 7.7 mm, width 5.5 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2790.



Bellifusus annabellae n. sp., apical fragment, height 9.3 mm, width 5.8 mm, Coffee Sand, MGS locality 128. MGS figured specimen 2791.



Bellifusus annabellae n. sp., juvenile height 5.0 mm, width 2.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2792.



Bellifusus annabellae n. sp., juvenile height 6.0 mm, width 3.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2793.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusiinae, Genus *Ornopsis* P69



Ornopsis (Pornosis) modica Sohl, 1964a, height 33.2 mm, width 15.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2794.



Ornopsis (Pornosis) modica Sohl, 1964a, incomplete height 31.9 mm, width 17.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2795.



Ornopsis (Pornosis) digressa Wade, 1926, height 33.7 mm, incomplete width 15.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2796.



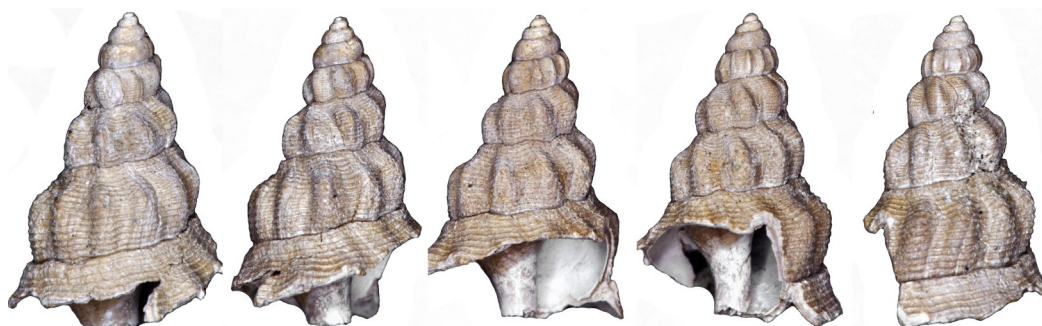
Ornopsis (Pornosis) digressa Wade, 1926, incomplete height 22.8 mm, width 11.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2797.



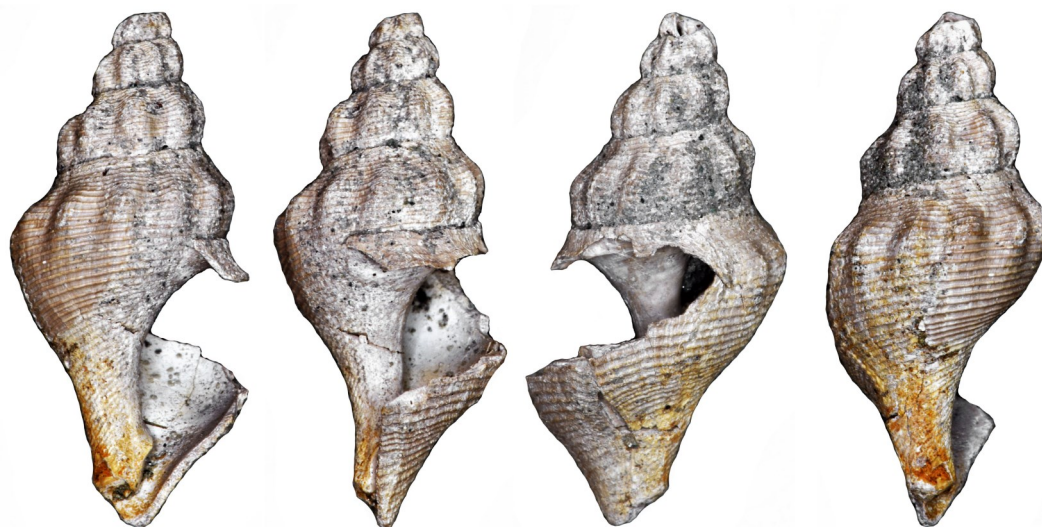
Ornopsis (Pornosis) digressa Wade, 1926, juvenile height 4.5 mm, width 2.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2798.



Ornopsis pulchra Stephenson, 1941, height 13.4 mm, width 5.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2799.



Ornopsis pulchra Stephenson, 1941, height of fragment 8.6 mm, width 6.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2800.



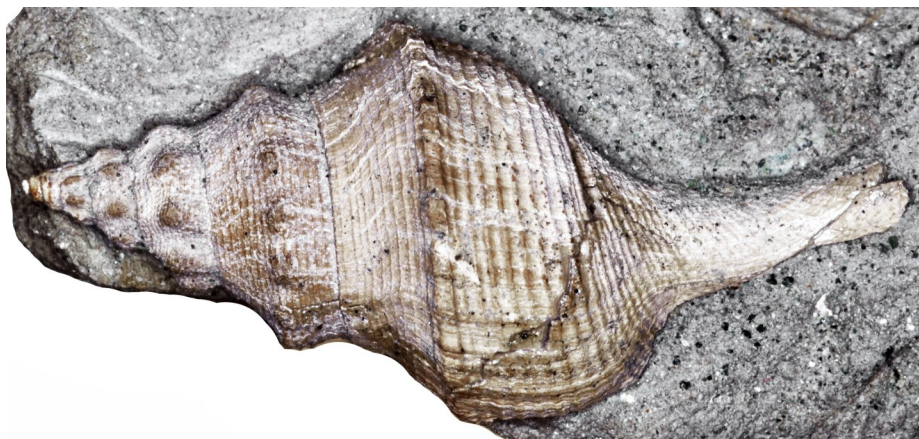
Ornopsis pulchra Stephenson, 1941, incomplete height 19.3 mm, width 9.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2801.



Ornopsis pulchra Stephenson, 1941, height 24.2 mm, width 10.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2802.



Ornopsis (Ripleyella) elevata Wade, 1916, height 40.0 mm, incomplete width 13.2 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2803.



Ornopsis carinata n. sp., in matrix, height 29.5 mm, width 13.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2804.



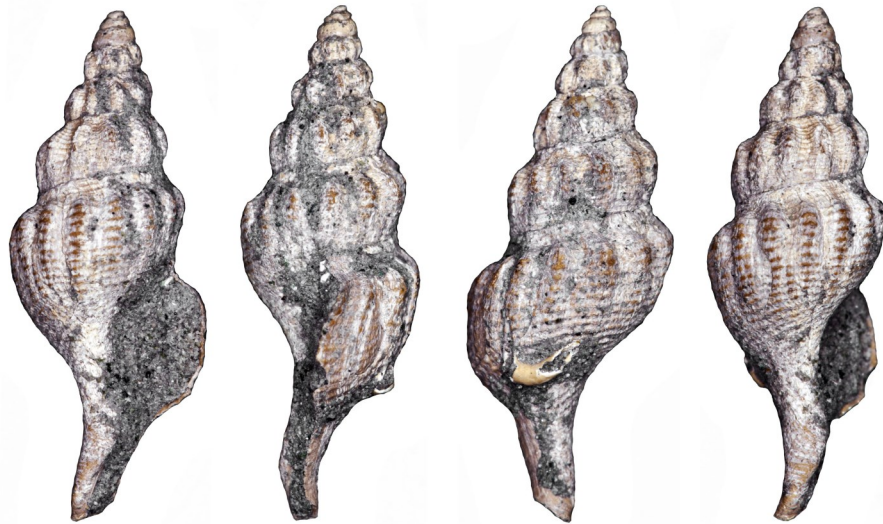
Ornopsis carinata n. sp., height 33.0 mm, width 12.6 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778036 (MGS figured specimen 2805).



Ornopsis carinata n. sp., height 21.5 mm, incomplete width 9.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2806.



Ornopsis nodosa n. sp., juvenile height 7.8 mm, incomplete width 3.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2807.



Ornopsis nodosa n. sp., height 16.4 mm, width 6.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2808.



Ornopsis nodosa n. sp., height 21.3 mm, incomplete width 7.5 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778037 (MGS figured specimen 2809).

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusinae, Genus *Lomirosa* P70

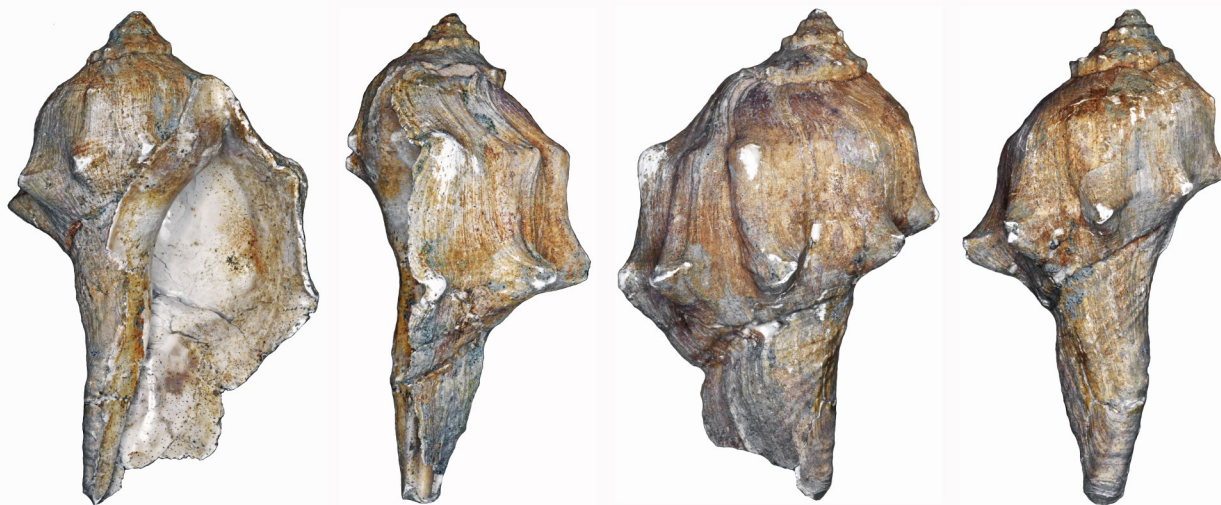


Lomirosa carinata Sohl, 1964b, height 39.6 mm, width 25.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2810.

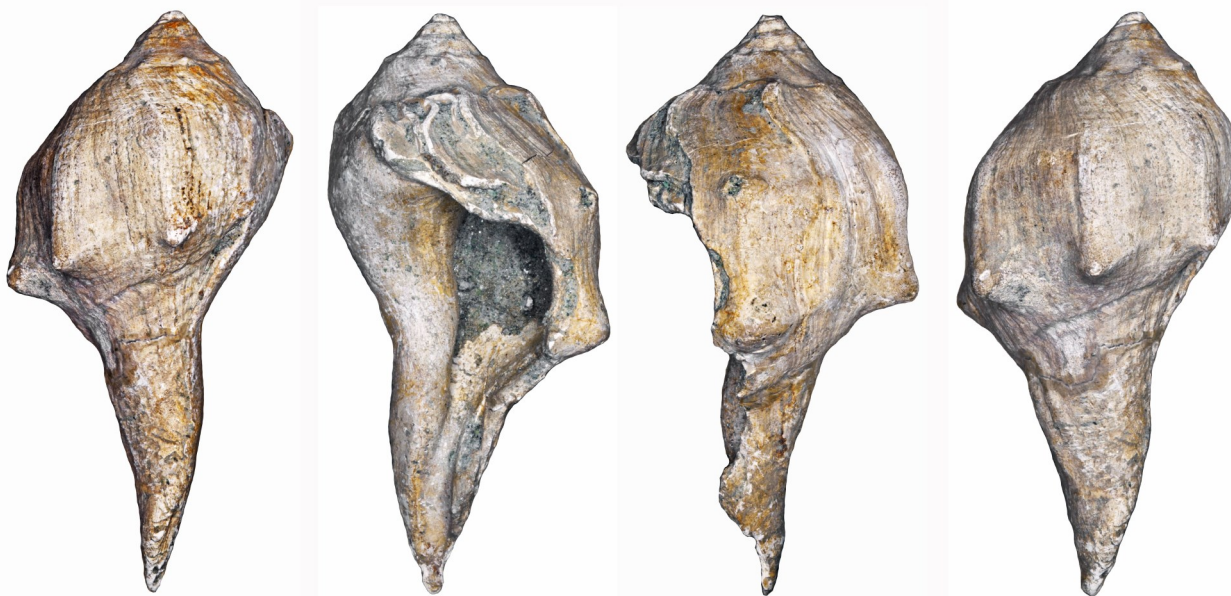


Lomirosa carinata Sohl, 1964b, apical fragment with protoconch, incomplete height 10.0 mm, width 8.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2811.

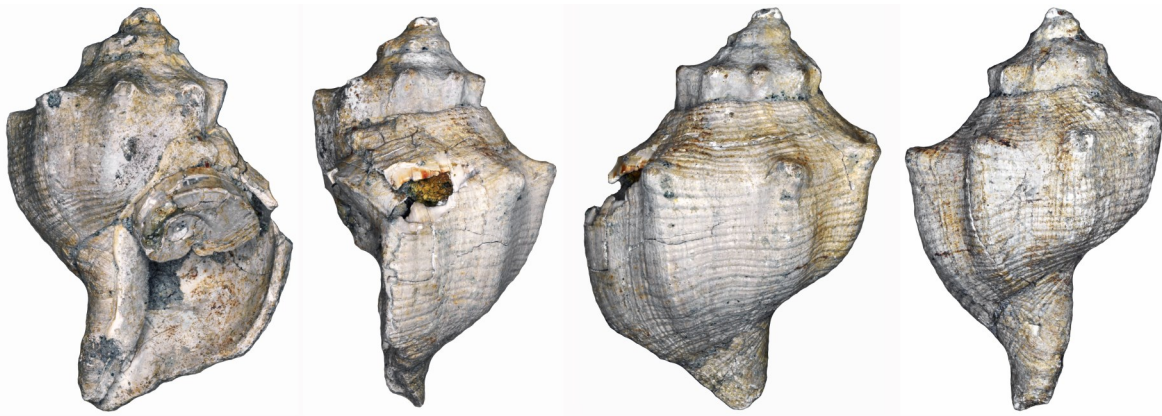
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyrifusiinae, Genus *Protobusycon* P70



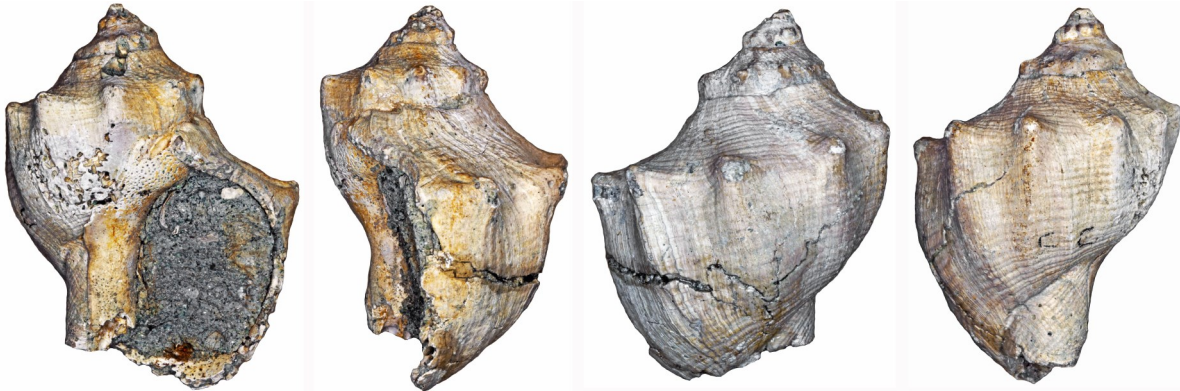
Protobusycon binodosum Sohl, 1964a, height 86.5 mm, width 56.9 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2812.



Protobusycon binodosum Sohl, 1964a, height 68.2 mm, incomplete width 38.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2813.



Protobusycon ellisi n. sp., incomplete height 55.0 mm, width 38.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. A specimen of *Weeksia amplificata* is lodged in the posterior aperture perhaps in life position as it would have been in an empty shell. Holotype USNM PAL 778038 (MGS figured specimen 2814).



Protobusycon ellisi n. sp., incomplete height 53.5 mm, width 40.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2815.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pseudorapinae, Genus *Pseudorapa*, Subgenus *Stantonella* P70



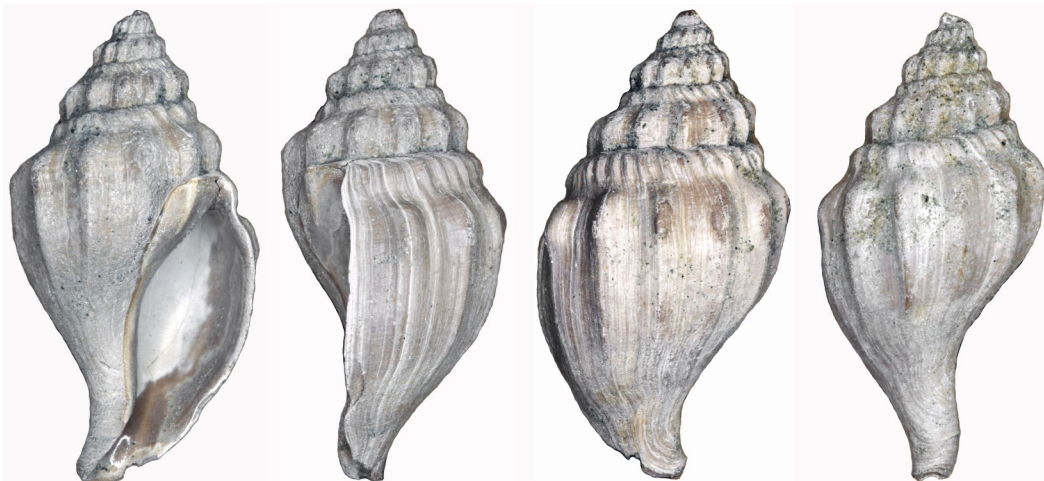
Pseudorapa (Stantonella) repleyana (Conrad, 1860), fragment height 35.6 mm, width 22.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2816.



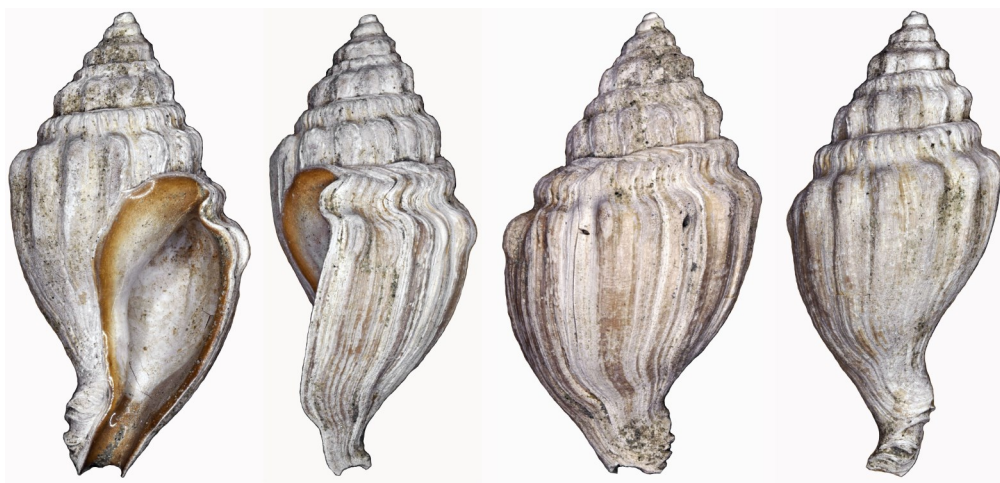
Pseudorapa (Stantonella) ripleyana (Conrad, 1860), incomplete height 25.5 mm, width 16.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2817.



Pseudorapa (Stantonella) ripleyana (Conrad, 1860), incomplete height 30.0 mm, width 17.2 mm, Coon Creek Tongue, Ripley Formation, MGS locality 171. MGS figured specimen 2818.



Pseudorapa (Stantonella) rugosa (Stephenson, 1923), height 36.7 mm, width 19.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2819.



Pseudorapa (Stantonella) rugosa (Stephenson, 1923), height 49.4 mm, width 27.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2820.



Pseudorapa (Stantonella) rugosa (Stephenson, 1923), height 43.2 mm, width 22.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2821.

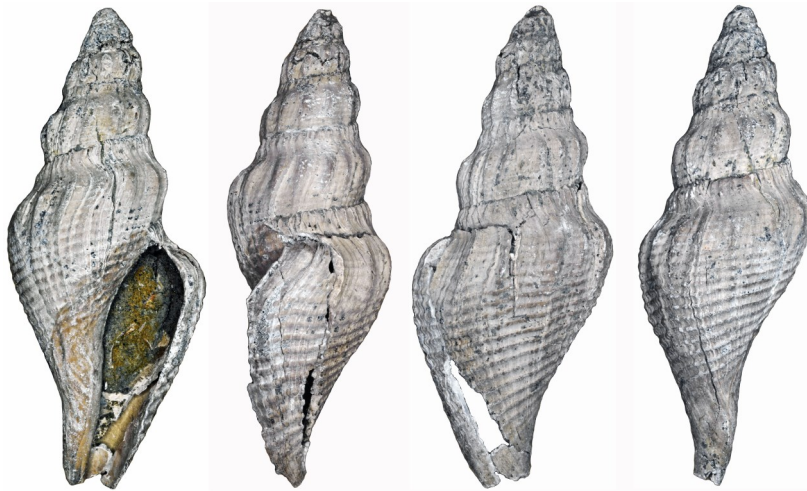


Pseudorapa (Stantonella) rugosa (Stephenson, 1923), height 49.5 mm, width 24.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2822.

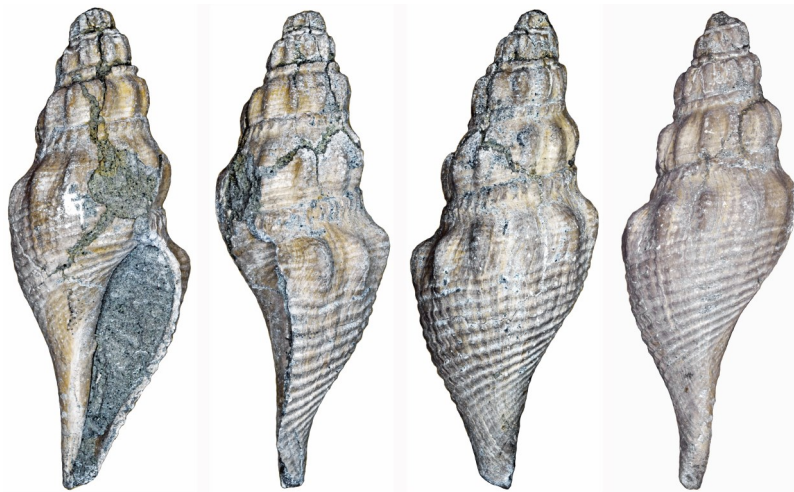


Pseudorapa (Stantonella) rugosa (Stephenson, 1923), height 48.2 mm, width 24.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2823.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pholidotominae, Genus *Drilluta* P71



Drilluta major Wade, 1916, height 90.7 mm, width 35.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2824.



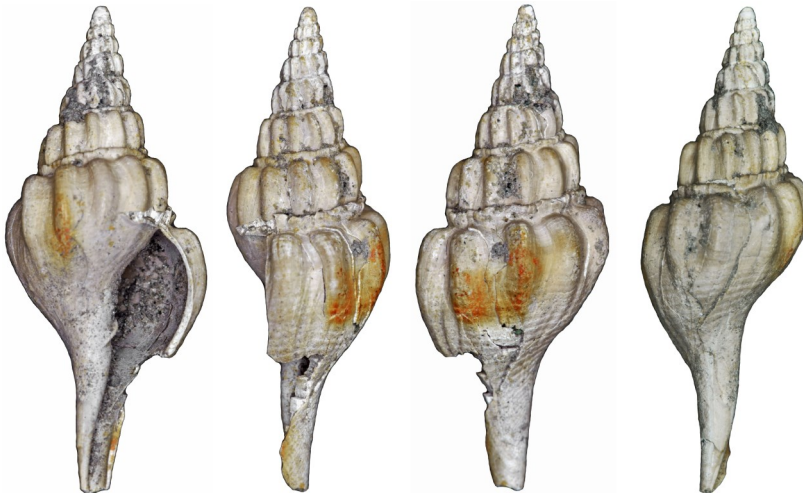
Drilluta major Wade, 1916, height 73.7 mm, width 26.9 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2825



Drilluta major Wade, 1916, height 64.7 mm, incomplete width 21.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2826.



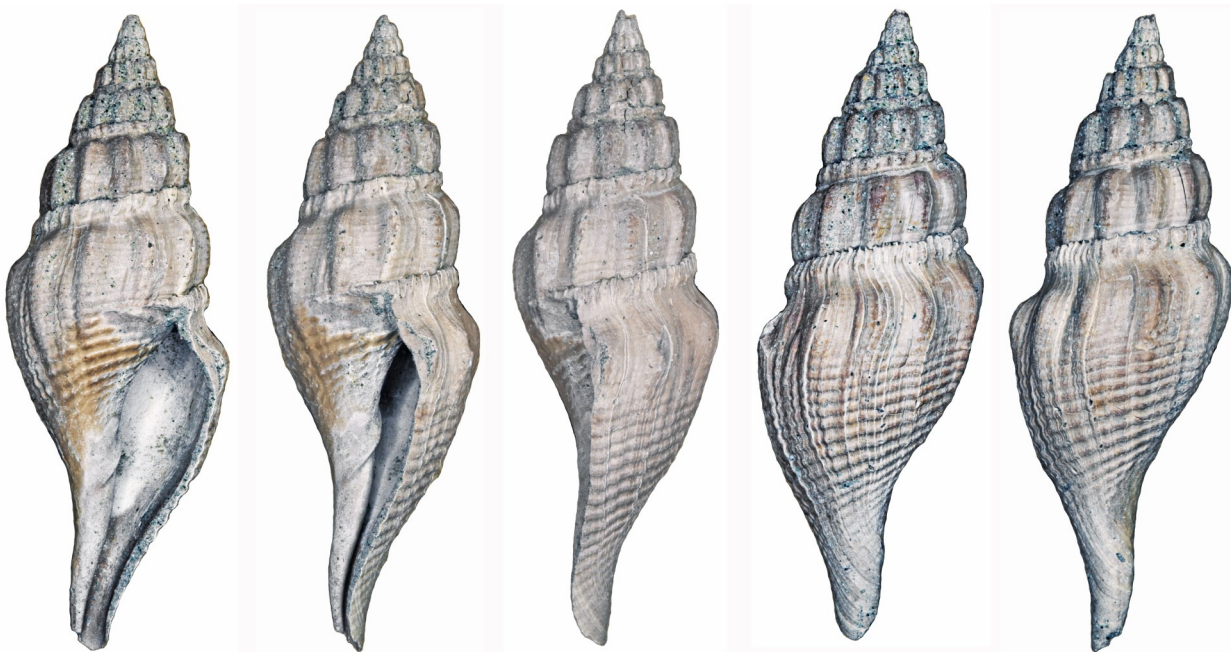
Drilluta major Wade, 1916, height 35.9 mm, width 14.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2827.



Drilluta major Wade, 1916, juvenile, height 20.0 mm, width 8.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2828.



Drilluta major Wade, 1916, height 52.0 mm, width 18.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2829.



Drilluta major Wade, 1916, height 52.2 mm, width 18.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2830.



Drilluta major Wade, 1916, juvenile height 11.9 mm, incomplete width 4.6 mm, MGS locality 129; spiral color banding visible. MGS figured specimen 2831.



Drilluta major Wade, 1916, juvenile, height 24.2 mm, width 9.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2832.



Drilluta distans (Conrad, 1860), spire fragment height 9.5 mm, width 5.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2833.



Drilluta distans (Conrad, 1860), spire fragment height 5.5 mm, width 2.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2834.



Drilluta distans (Conrad, 1860), height 57.5 mm, width 21.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2835.



Drilluta distans (Conrad, 1860), height 47.7 mm, width 15.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2836.



Drilluta communis Wade, 1916, height 67.4 mm, width 23.1 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2837.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pholidotominae, Genus *Paleopsephaea* P71



Paleopsephaea mutabilis Wade, 1926, incomplete height 29.0 mm, width 9.6 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2838.



Paleopsephaea mutabilis Wade, 1926, incomplete height 33.2 mm, width 11.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2839.



Paleopsephaea mutabilis Wade, 1926, incomplete height 33.2 mm, width 11.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2840.



Paleopsephaea mutabilis Wade, 1926, variety, incomplete height 33.2 mm, width 11.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2841.



Paleopsephaea pergracilis Wade, 1926, height 31.1 mm, width 9.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2842.



Paleopsephaea pergracilis Wade, 1926, height 27.3 mm, width 8.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2843.



Paleopsephaea pergracilis Wade, 1926, height 20.7 mm, width 7.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2844.



Paleopsephaea pergracilis Wade, 1926, juvenile height 8.7 mm, width 3.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2845.



Paleopsephaea pergracilis Wade, 1926, juvenile height 5.6 mm, width 2.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2846.



Paleopsephaea pergracilis Wade, 1926, juvenile height 5.5 mm, width 2.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2847.



Paleopsephaea pergracilis Wade, 1926, juvenile height 5.5 mm, width 2.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2848.



Paleopsephaea pergracilis Wade, 1926, juvenile incomplete height 3.7 mm, width 2.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2849.

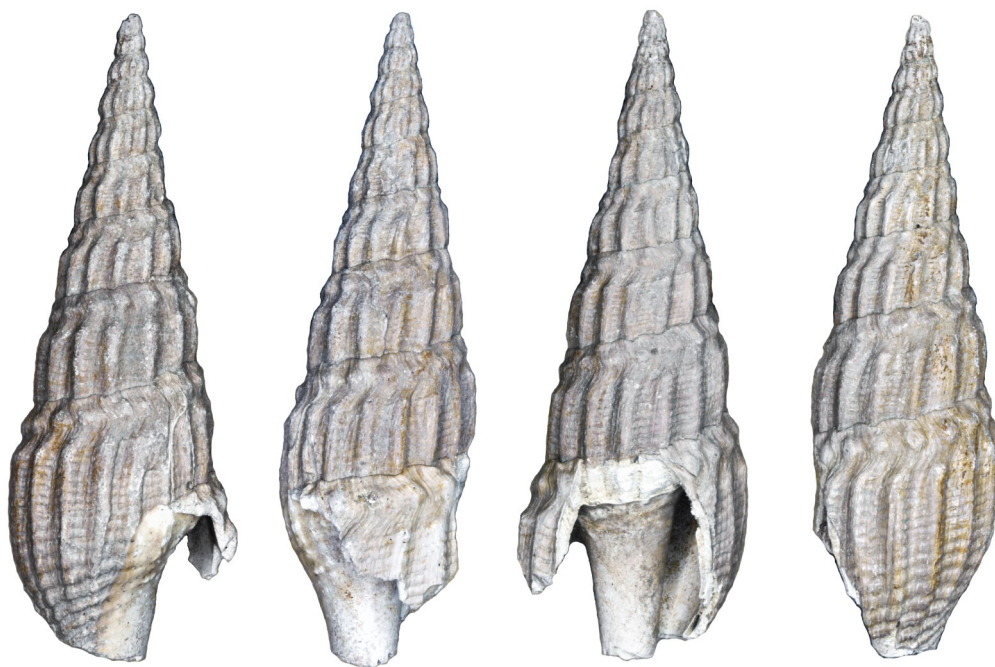
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Beretrinae, Genus *Beretra* P72



Beretra gracilis (Wade, 1926), incomplete height 50.8 mm, width 13.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2850.



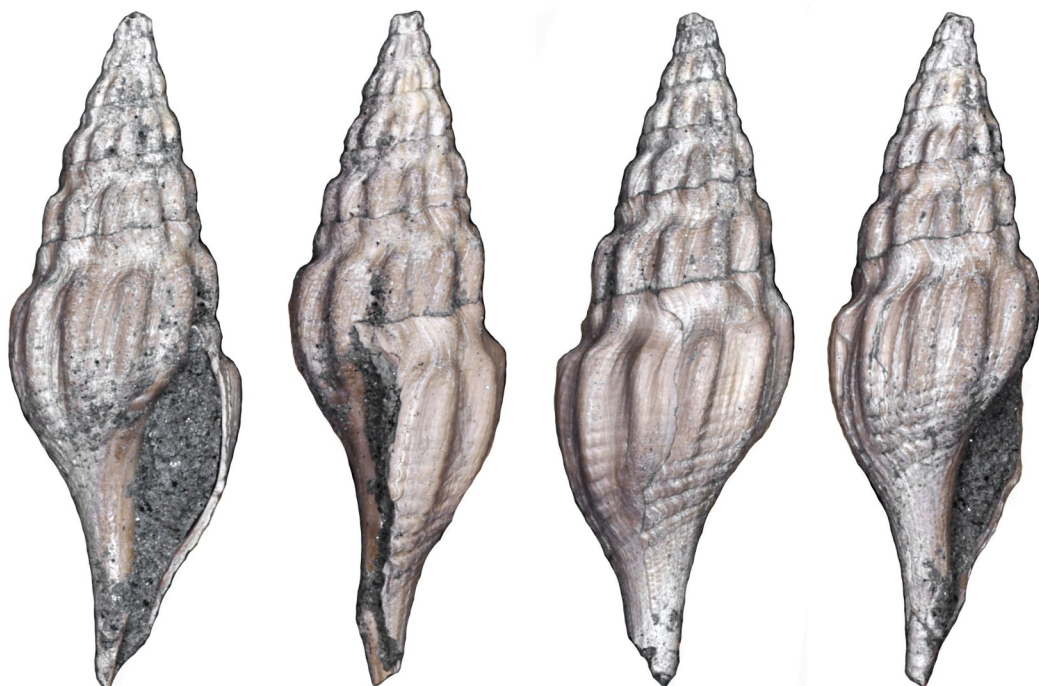
Beretra gracilis (Wade, 1926), incomplete juvenile, height 35.5 mm, width 8.9 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2851.



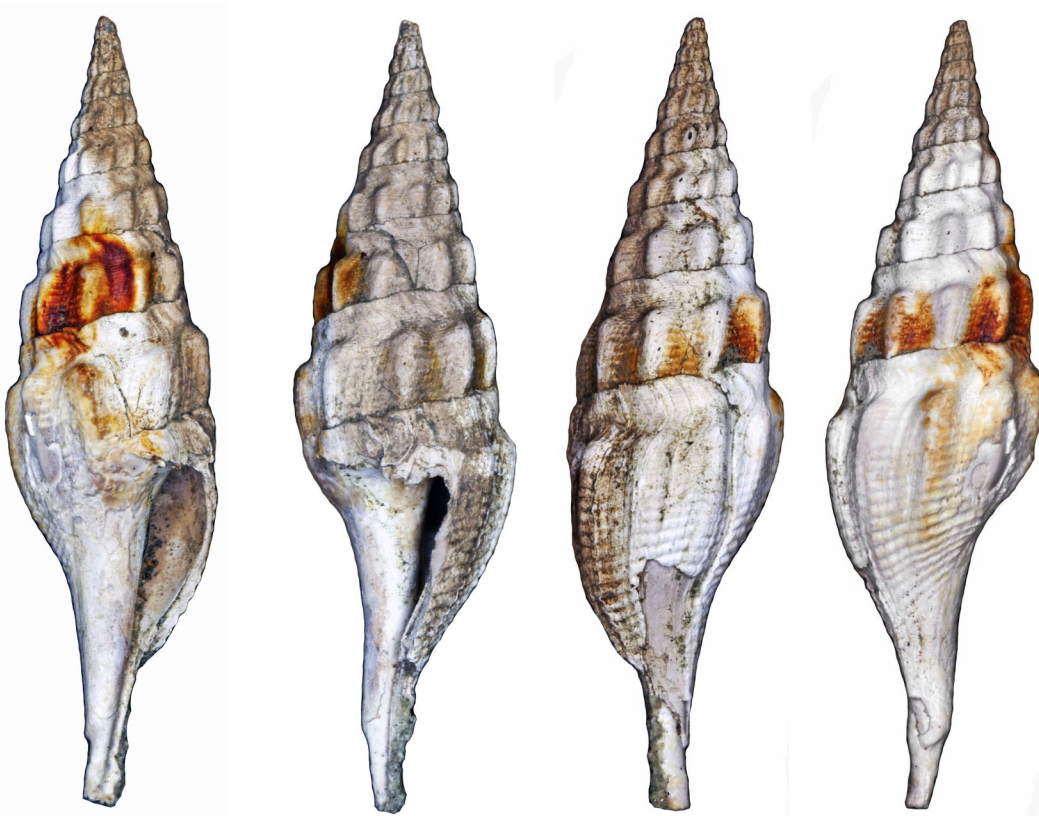
Beretra gracilis (Wade, 1926), incomplete height 45.5 mm, width 16.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2852.



Beretra gracilis (Wade, 1926), height 24.1 mm, width 6.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2853.



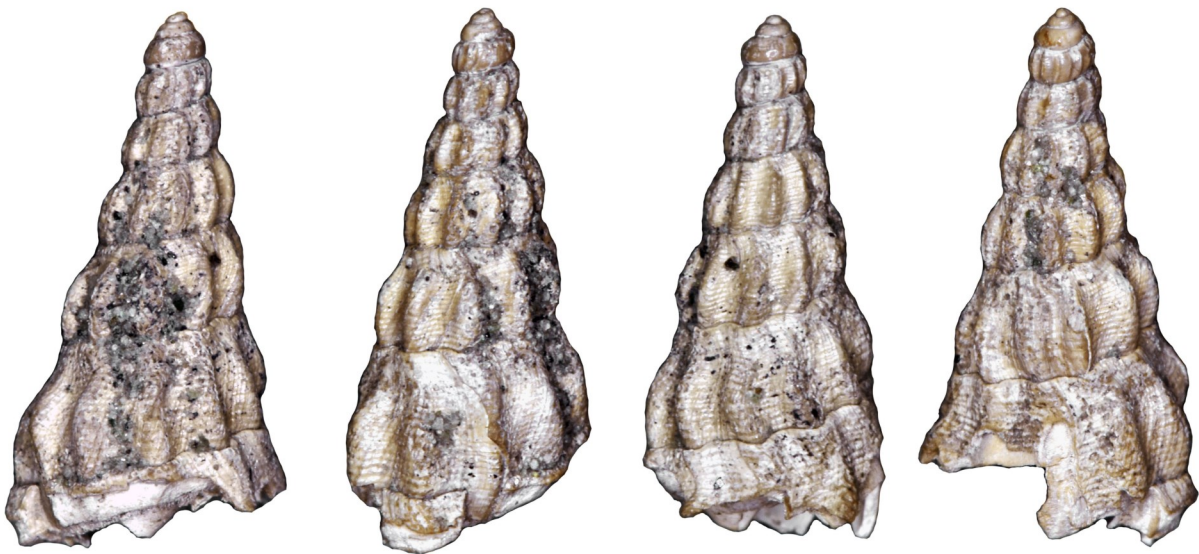
Beretra preclara Sohl, 1964b, height 30.4 mm, width 10.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2854.



Beretra preclara Sohl, 1964b, height 45.0 mm, width 12.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2855.

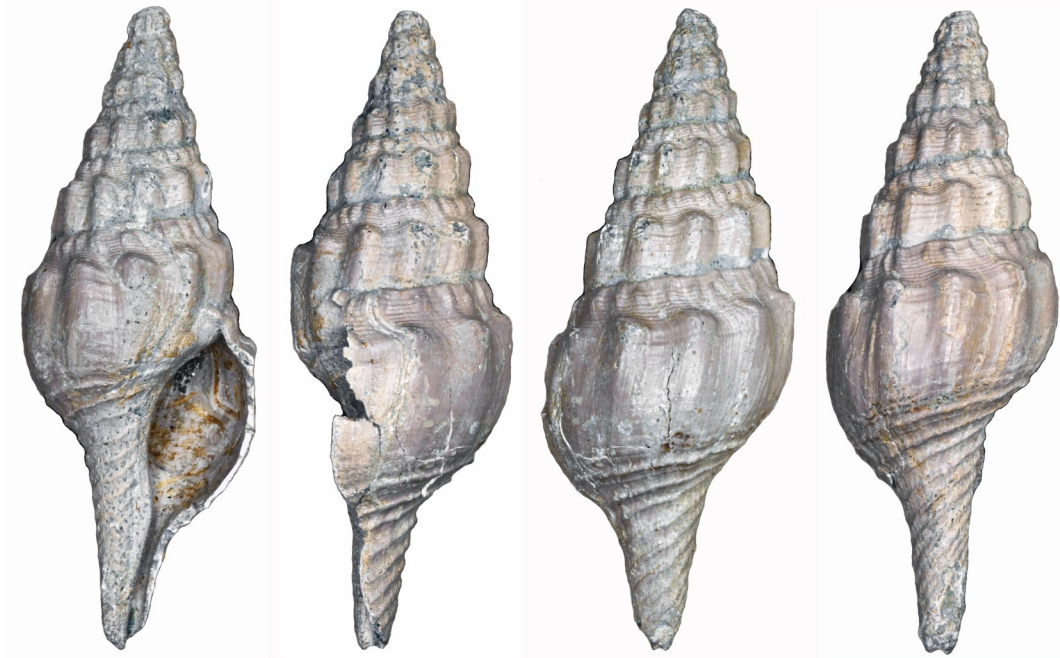


Beretra preclara Sohl, 1964b, juvenile incomplete height 15.5 mm, width 6.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2856.

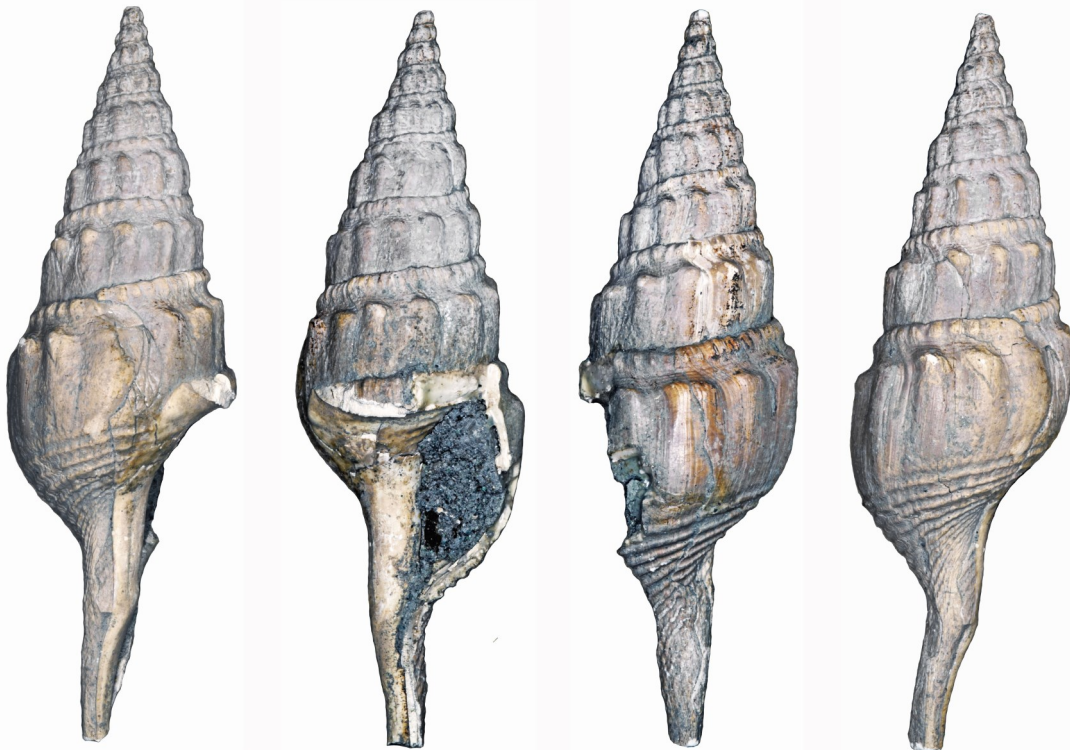


Beretra preclara Sohl, 1964b, spire fragment height 7.5 mm, width 3.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2857.

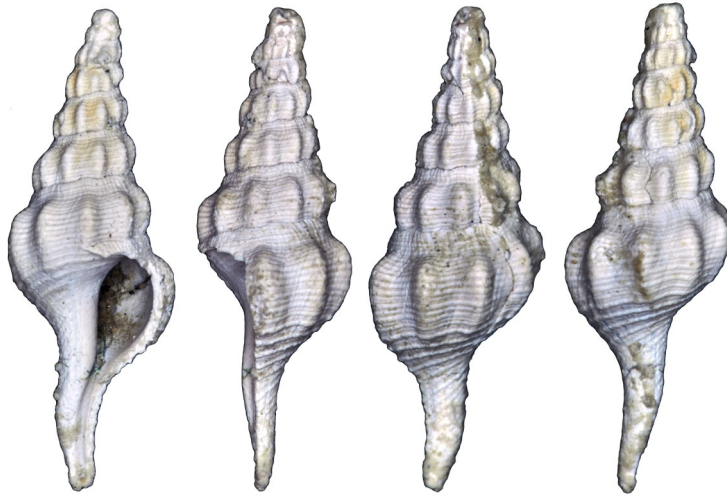
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Beretrinae, Genus *Fusimilis* P72



Fusimilis kummeli Sohl, 1964a, height 50.0 mm, width 19.2 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2858.



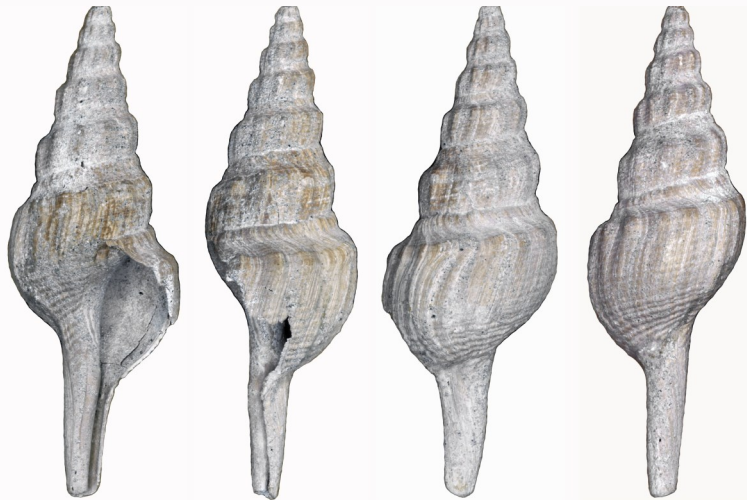
Fusimilis kummeli Sohl, 1964a, height 82.0 mm, incomplete width 25.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2859.



Fusimilis minutus n. sp., height 13.5 mm, width 4.4 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778039 (MGS figured specimen 2860).



Fusimilis nolani n. sp., height 93.3 mm, width 34.3 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778040 (MGS figured specimen 2861).



Fusimilis meganae n. sp., height 48.2 mm, width 16.9 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778041 (MGS figured specimen 2862).



Fusimilis macnairiensis (Wade, 1926), height 11.0 mm, width 4.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2863.



Fusimilis macnairiensis (Wade, 1926), incomplete height 7.2 mm, width 3.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2864.



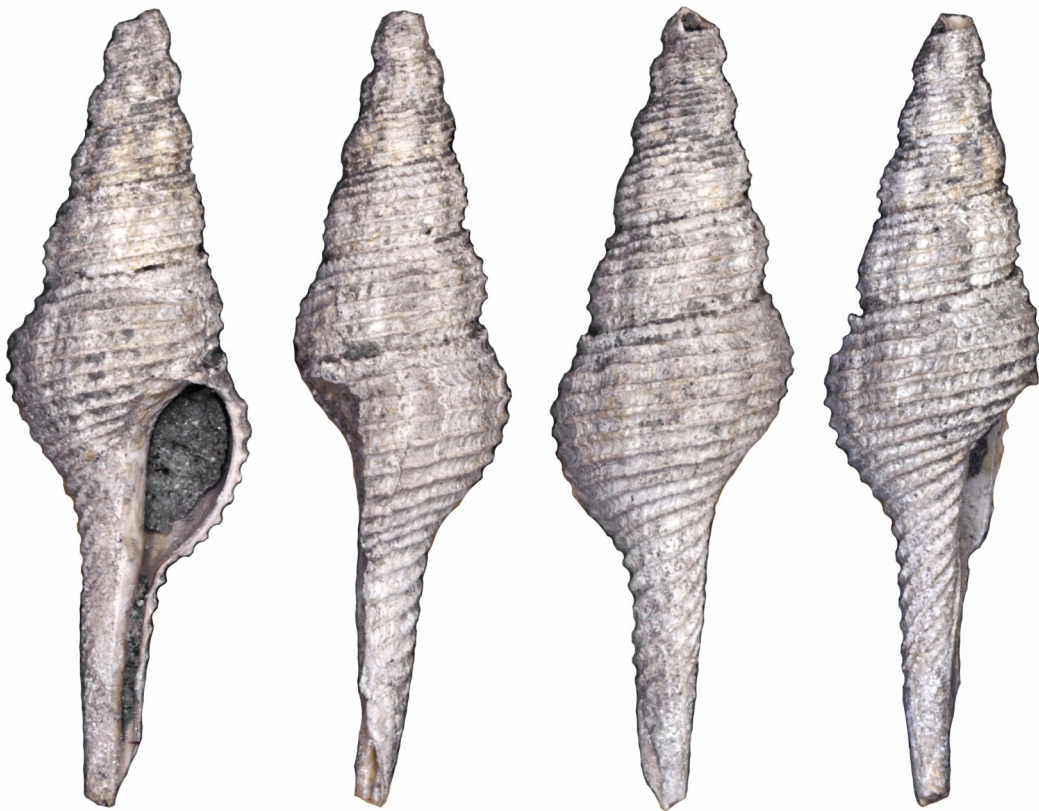
Fusimilis macnairiensis (Wade, 1926), height 9.5 mm, width 3.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2865.



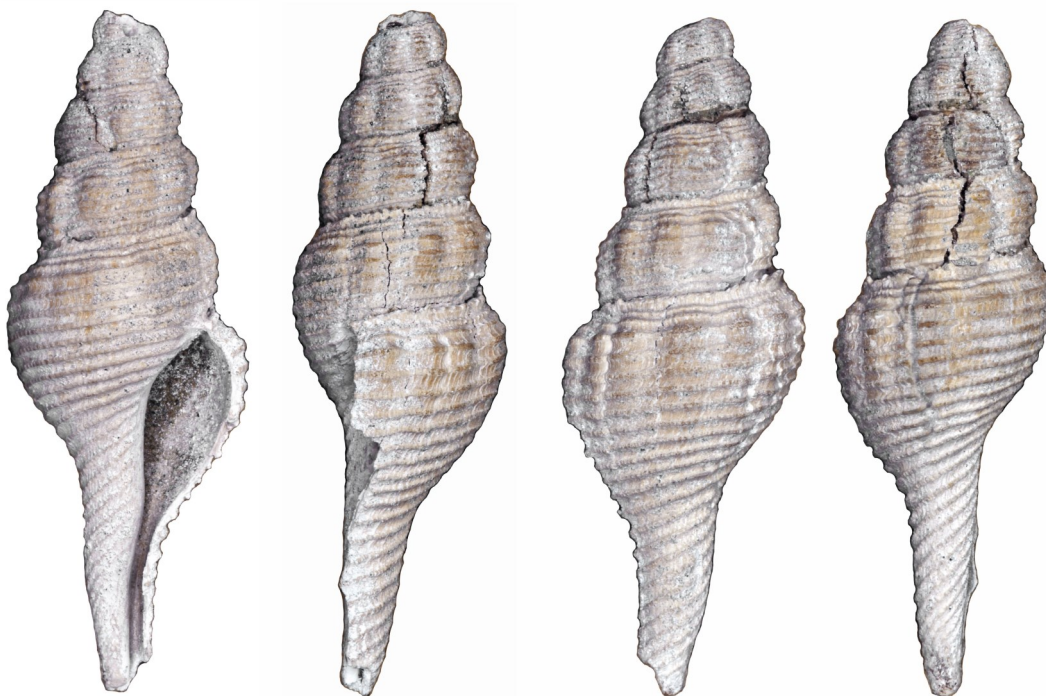
Fusimilis macnairiensis (Wade, 1926), juvenile height 5.0 mm, width 2.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2866.



Fusimilis macnairiensis (Wade, 1926), juvenile height 5.5 mm, width 2.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2867.



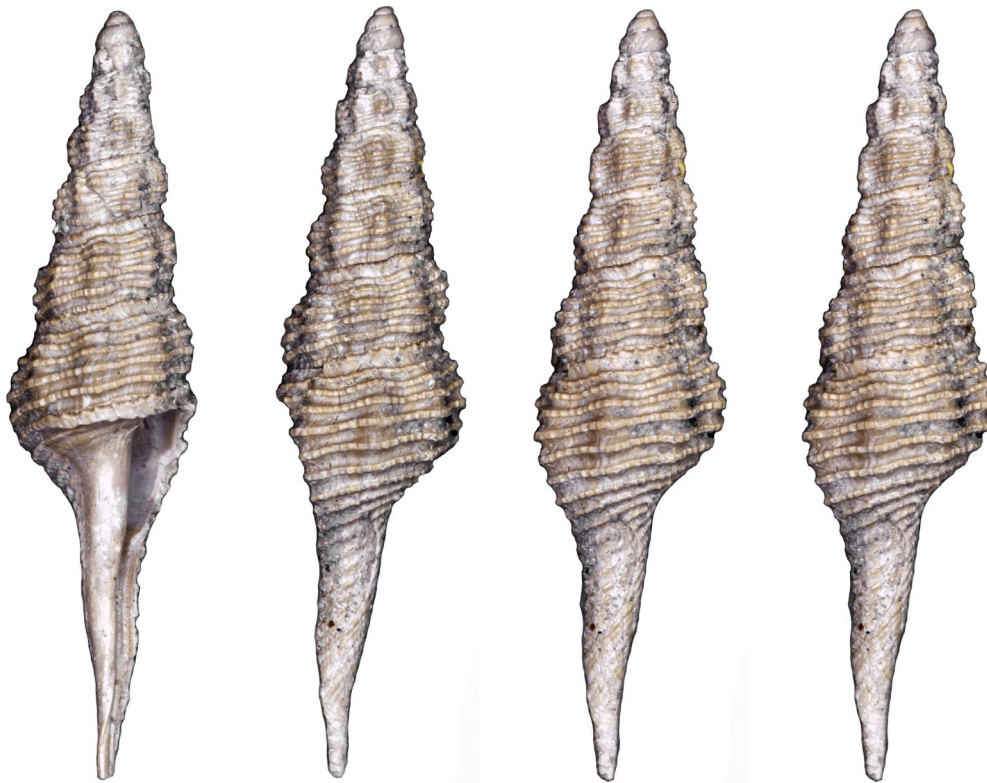
Fusimilis andersoni n. sp., incomplete height 30.5 mm, width 9.0 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778042 (MGS figured specimen 2868).



Fusimilis andersoni n. sp., incomplete height 46.0 mm, width 16.0 mm, MGS locality 129. MGS figured specimen 2869.



Fusimilis andersoni n. sp., height 17.2 mm, width 4.1 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2870.



Fusimilis andersoni n. sp., height 12.5 mm, width 3.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2871.

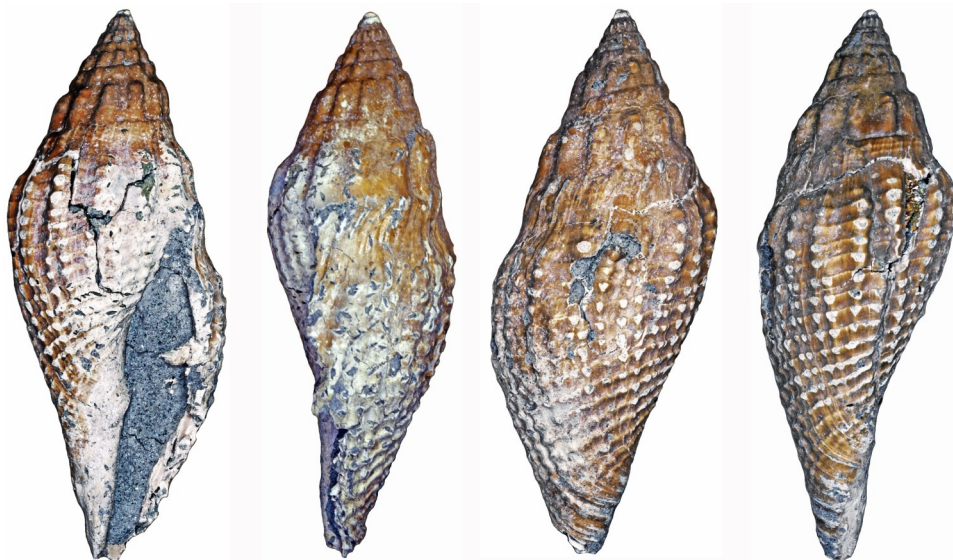
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Volutoderminae, Genus *Volutomorpha* P73



Volutomorpha splendida Sohl, 1964b, height 36.1, width 15.4 mm., Coffee Sand, MGS locality 129. MGS figured specimen 2872.



Volutomorpha splendida Sohl, 1964b, height 54.2, width 22.1 mm., Coffee Sand, MGS locality 129. MGS figured specimen 2873.



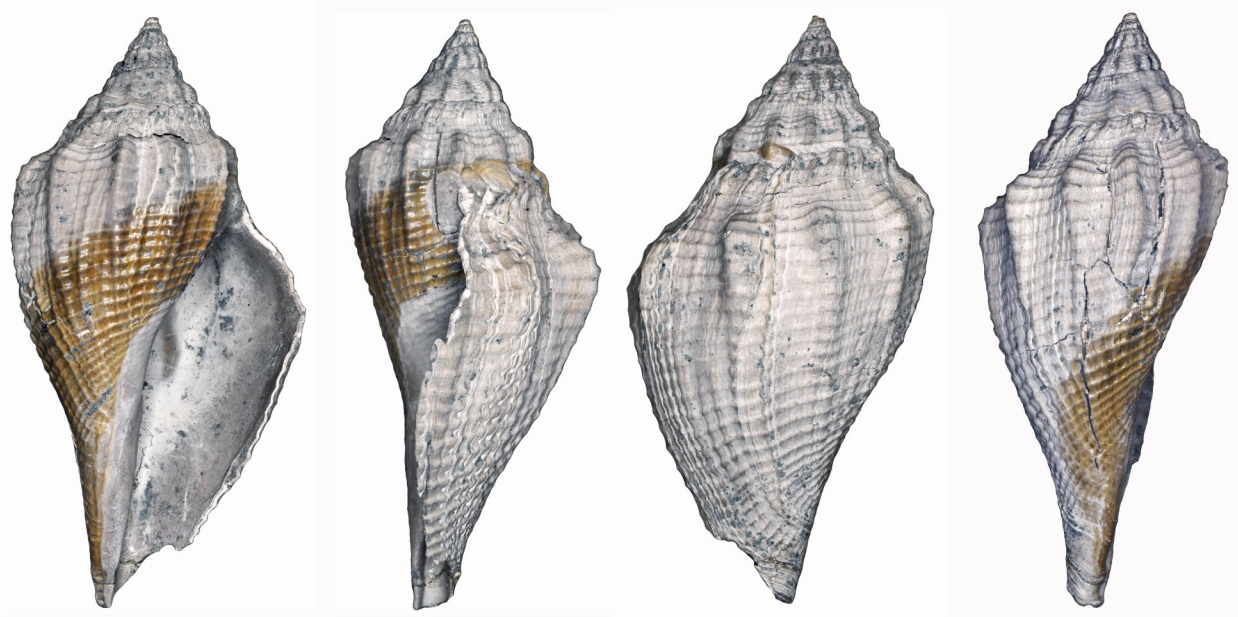
Volutomorpha splendida Sohl, 1964b, height 75.0, width 28.7 mm., Coffee Sand, MGS locality 129. MGS figured specimen 2874.



Volutomorpha carolynae n. sp., height 57.6 mm, width 30.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2875.



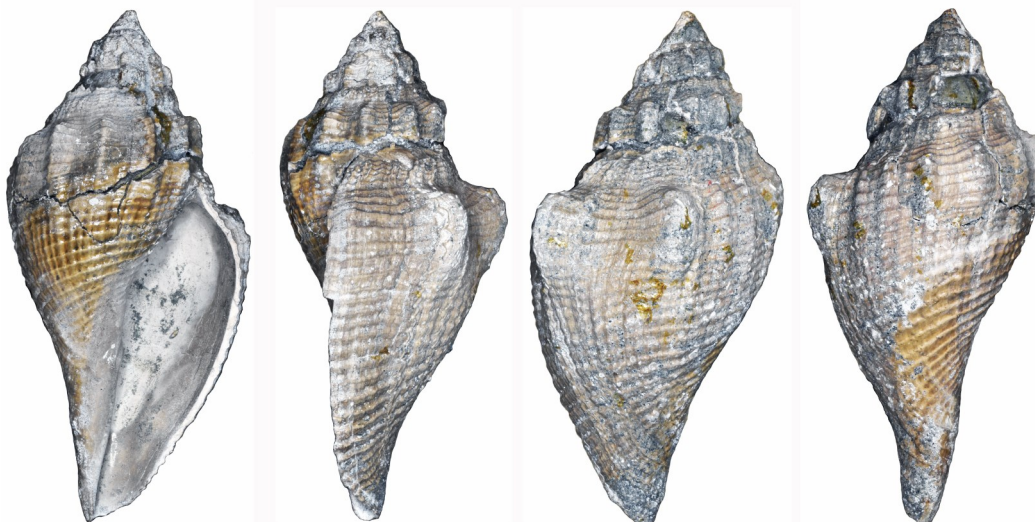
Volutomorpha carolynae n. sp., juvenile height 19.8 mm, width 8.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2876.



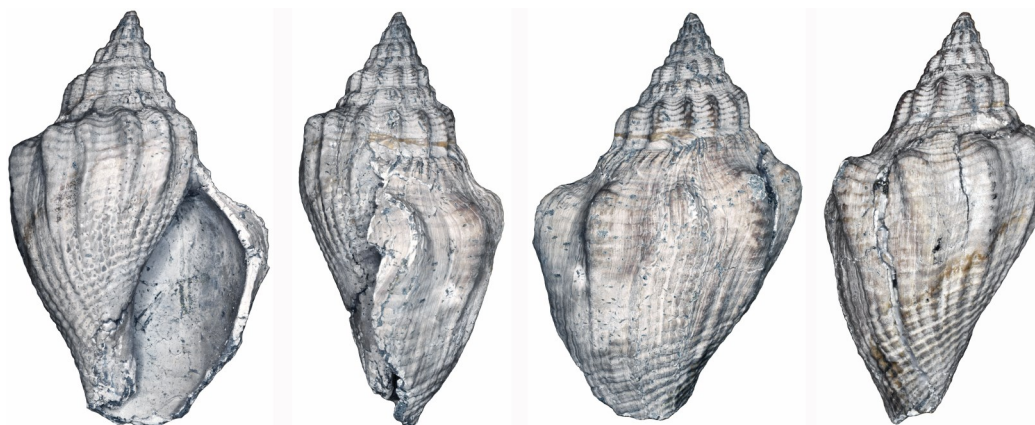
Volutomorpha carolynae n. sp., height 93.4 mm, width 45.5 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778043 (MGS figured specimen 2877).



Volutomorpha carolynae n. sp., height 103.5 mm, width 47.3 mm, Coffee Sand, MGS locality 129, MGS figured specimen 2878.



Volutomorpha carolynae n. sp., height 108.0 mm, width 51.9 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2879.



Volutomorpha carolynae n. sp., incomplete height 117.0 mm, width 74.2 mm, Coffee Sand. MGS locality 129. MGS figured specimen 2880.



Volutomorpha terrellae n. sp., height 55.2 mm, width 30.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2881.



Volutomorpha terrellae n. sp., height 46.2 mm, width 21.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2882.



Volutomorpha terrellae n. sp., height 70.5 mm, width 33.9 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778044 (MGS figured specimen 2883).



Volutomorpha terrellae n. sp., height 71.6 mm, width 38.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2884.



Volutomorpha retifera Dall, 1907, height 84.6 mm, width 36.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2885.



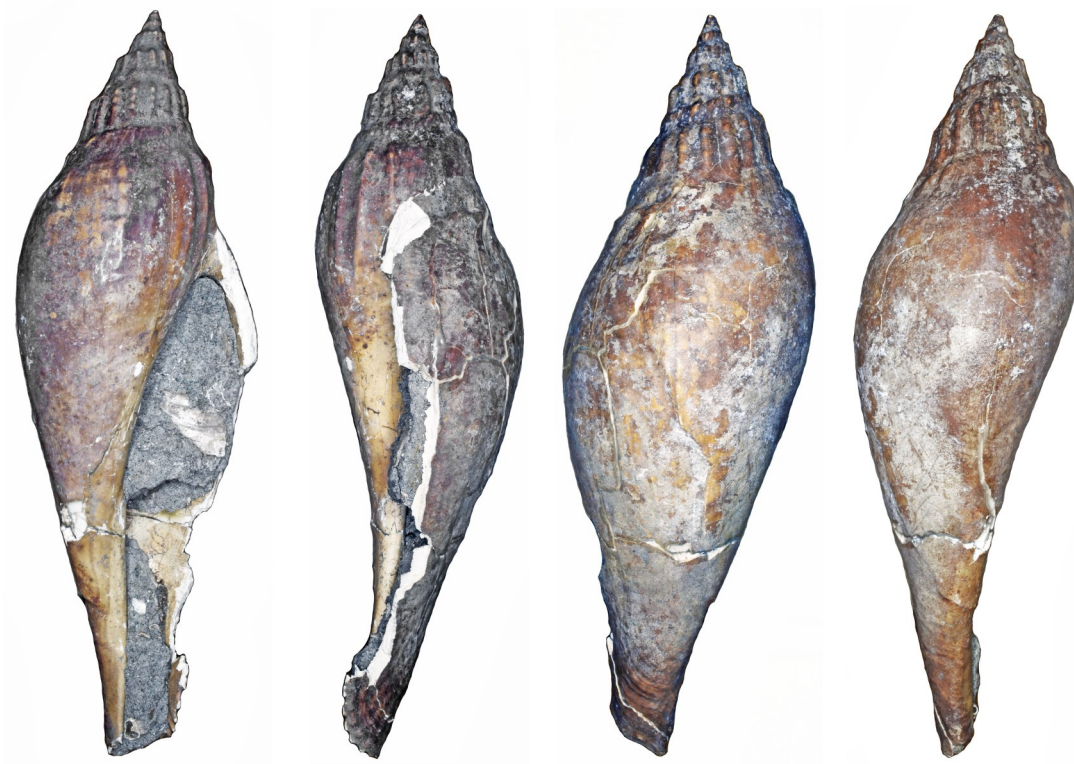
Volutomorpha producta Sohl, 1964a, height 68.2 mm, width 32.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2886.



Volutomorpha producta Sohl, 1964a, height 118.2 mm, width 48.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2887.



Volutomorpha valida Sohl, 1964a, length 175.0 mm. width 59.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2888.

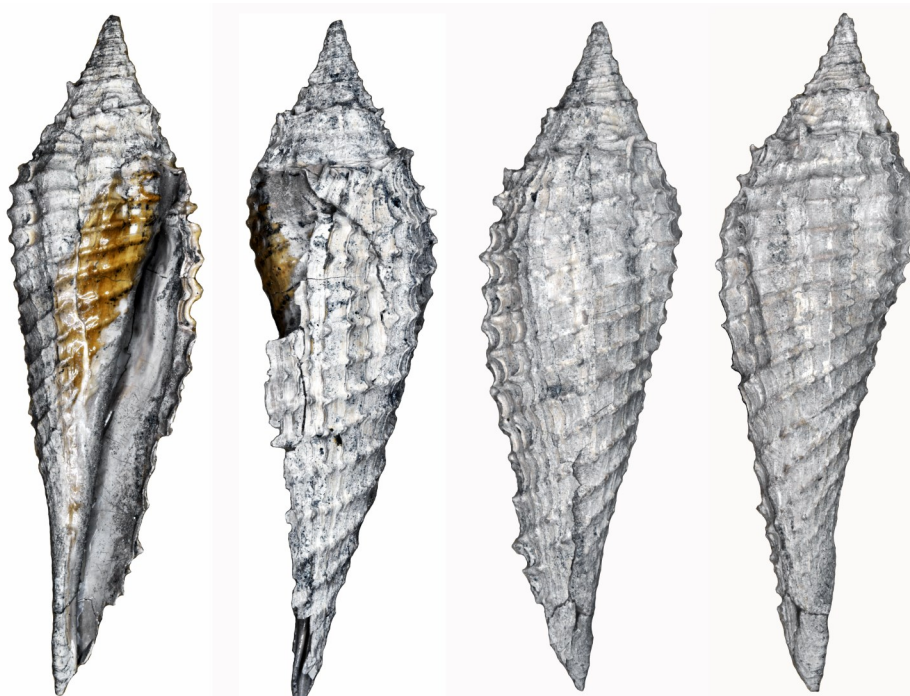


Volutomorpha valida Sohl, 1964a, height 177.0 mm, incomplete width 56.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2889.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Volutoderminae, Genus *Volutoderma*, Subgenus *Longoconcha* P73



Longoconcha imbricatus Sohl, 1964b, height 72.0 mm, width 22.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2890.



Longoconcha imbricatus Sohl, 1964b, height 73.8 mm, width 22.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2891.



Longoconcha tennesseensis (Wade, 1926), incomplete length 80.2 mm, width 19.9 mm, Coffee Sand, MGS locality 129, MGS figured specimen 2892.



Longoconcha tennesseensis (Wade, 1926), incomplete length 112.6 mm, width 24.9 mm, Coffee Sand, MGS locality 129, MGS figured specimen 2893.



Longoconcha tennesseensis (Wade, 1926), incomplete length 142.0 mm, width 32.4 mm, Coffee Sand, MGS locality 129, MGS figured specimen 2894.



Longoconcha tennesseensis (Wade, 1926), incomplete length 138.0 mm, width 35.0 mm, Coffee Sand, MGS locality 129, MGS figured specimen 2895.



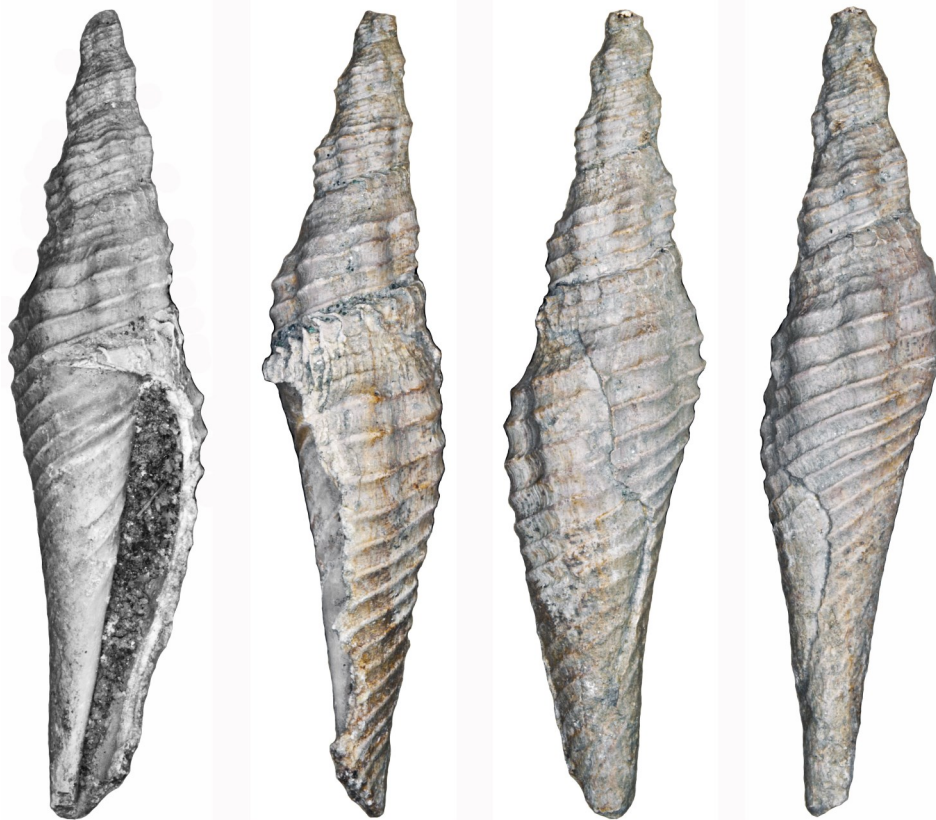
Longoconcha tennesseensis (Wade, 1926), incomplete length 44.5 mm, width 11.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2896.



Longoconcha tennesseensis (Wade, 1926) length 72,5 mm, width 17.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2897.



Longoconcha tennesseensis (Wade, 1926), showing complete shell at top and spire at bottom in higher resolution, length 27.7 mm, width 7.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2898.



Longoconcha quadrilirata Sohl, 1964a, incomplete height 62.9 mm, width 14.6 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2899.



Longoconcha quadrilirata Sohl, 1964a, spire fragment height 74.7 mm, width 29.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2900.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Volutoderminae, Genus *Liopeplum* P73



Liopeplum nodosum Sohl, 1964a, height 49.7 mm, width 18.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2901.



Liopeplum leioderma (Conrad, 1860), height 30.5 mm, width 13.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2902.



Liopeplum leioderma (Conrad, 1860), height 52.3 mm, width 24.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2903.



Liopeplum leioderma (Conrad, 1860), height 46.2 mm, width 19.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2904.



Liopeplum spiculatum Sohl, 1964b, height 31.3 mm, width 12.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2905.



Liopeplum spiculatum Sohl, 1964b, incomplete height 29.8 mm, width 14.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2906.



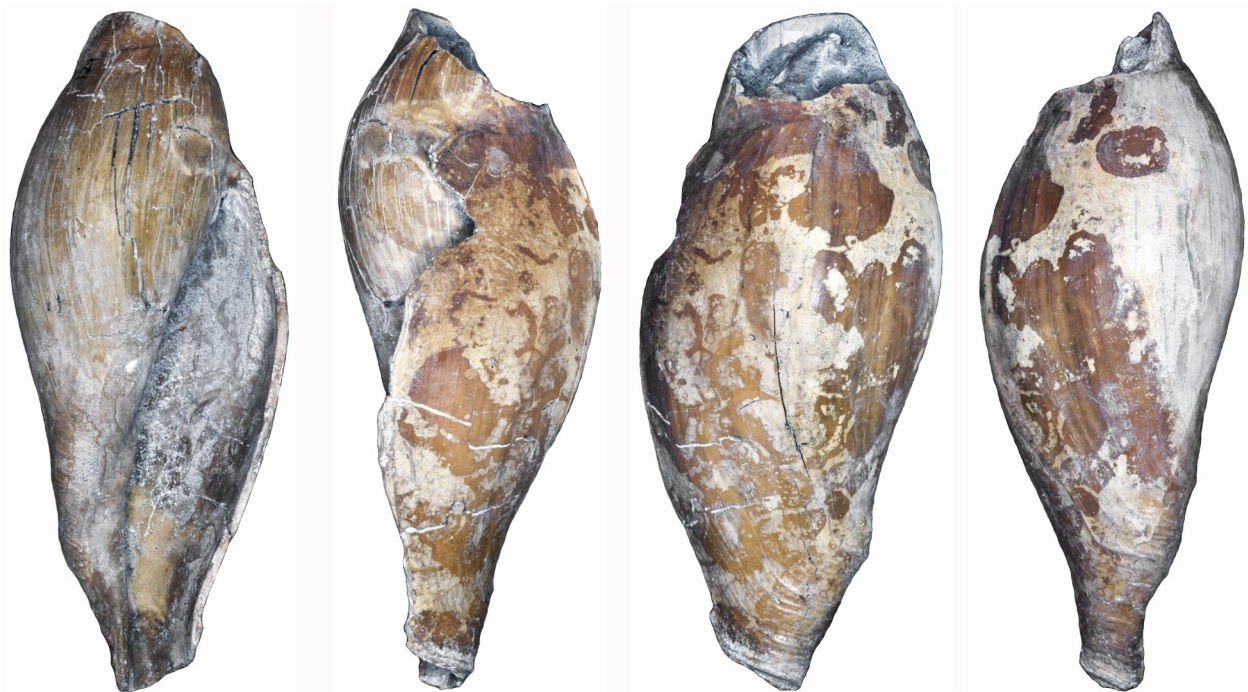
Liopeplum spiculatum Sohl, 1964b, height 37.7 mm, incomplete width 14.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2907.



Liopeplum spiculatum Sohl, 1964b, height 41.5 mm, width 16.7 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2908.



Liopeplum spiculatum Sohl, 1964b, incomplete height 38.7 mm, width 16.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2909.



Liopeplum spiculatum Sohl, 1964b, incomplete length 108.6 mm, width 46.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2910.



Liopeplum thoracicum (Conrad, 1875), height 37.1 mm, width 20.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2911.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Volutoderminae, Genus *Parafusus* P77 but compared to *Liopeplum* P73



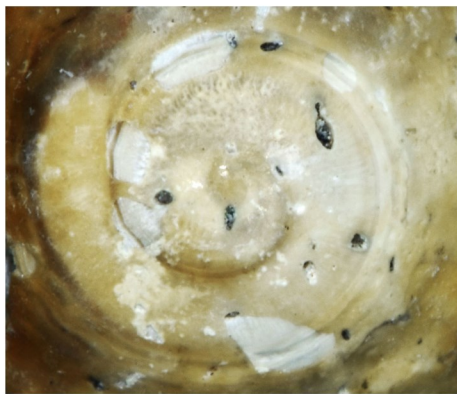
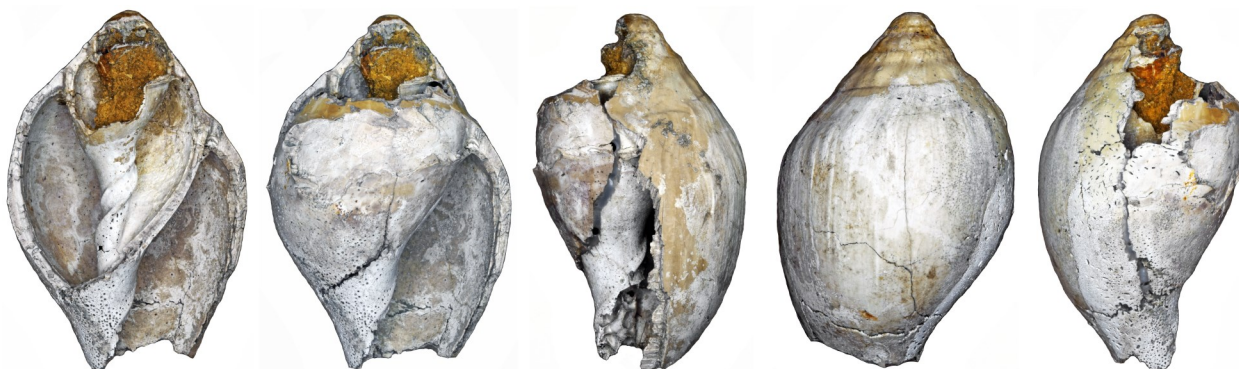
Parafusus callilateris (Wade, 1917), height 53.5 mm, width 33.2 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2912.



Parafusus callilateris (Wade, 1917), height 44.4 mm, width 24.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2913.



Parafusus callilateris (Wade, 1917), height 59.6 mm, incomplete width 28.9, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2914.

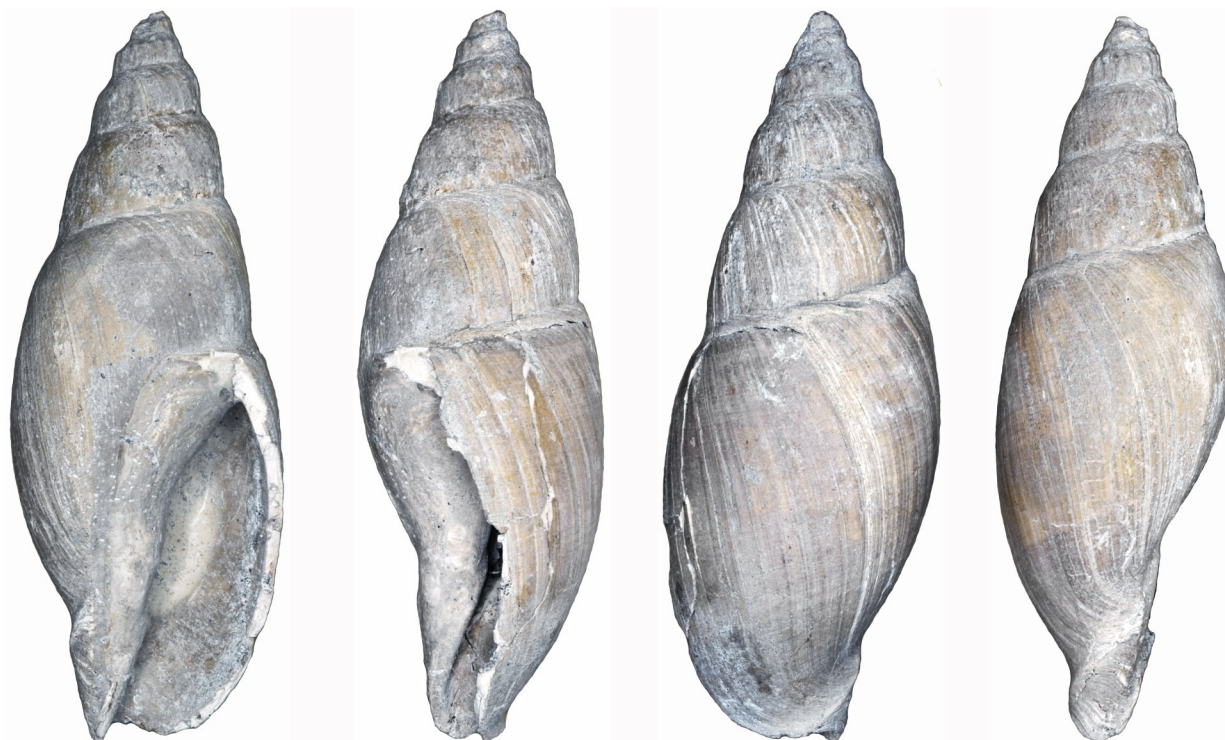


Parafusus bullatus n. sp., incomplete height 56.4 mm, width 38.8 mm, Coffee Sand, near MGS locality 128. Holotype USMN PAL 778045 (MGS figured specimen 2915).



Parafusus starnesi n. sp., height 72.3 mm, width 38.0, Coffee Sand, MGS locality 129. Holotype USNM PAL 778046 (MGS figured specimen 2916).

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Cylindrofusinae new subfamily, Genus *Cylindrofusus* new genus



Cylindrofusus n. gen. *patriciae*, n. sp., holotype of genus and species, height 75.5 mm, width 28.2 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. Holotype USNM PAL 778047 (MGS figured specimen 2917).



Cyclindrofuscus n. gen. *patricea* n. sp., height 53.3 mm, width 21.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2918. Image at far left with *Thyacus cretacus* in life position on shell columella; shell removed in subsequent image.



Cyclindrofuscus n. gen. *laneyae* n. sp., height 44.1 mm, width 19.8 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778048 (MGS figured specimen 2919).



Cylindrofusus n. gen. *laneyae* n. sp., incomplete height 57,7 mm, width 22.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2920.

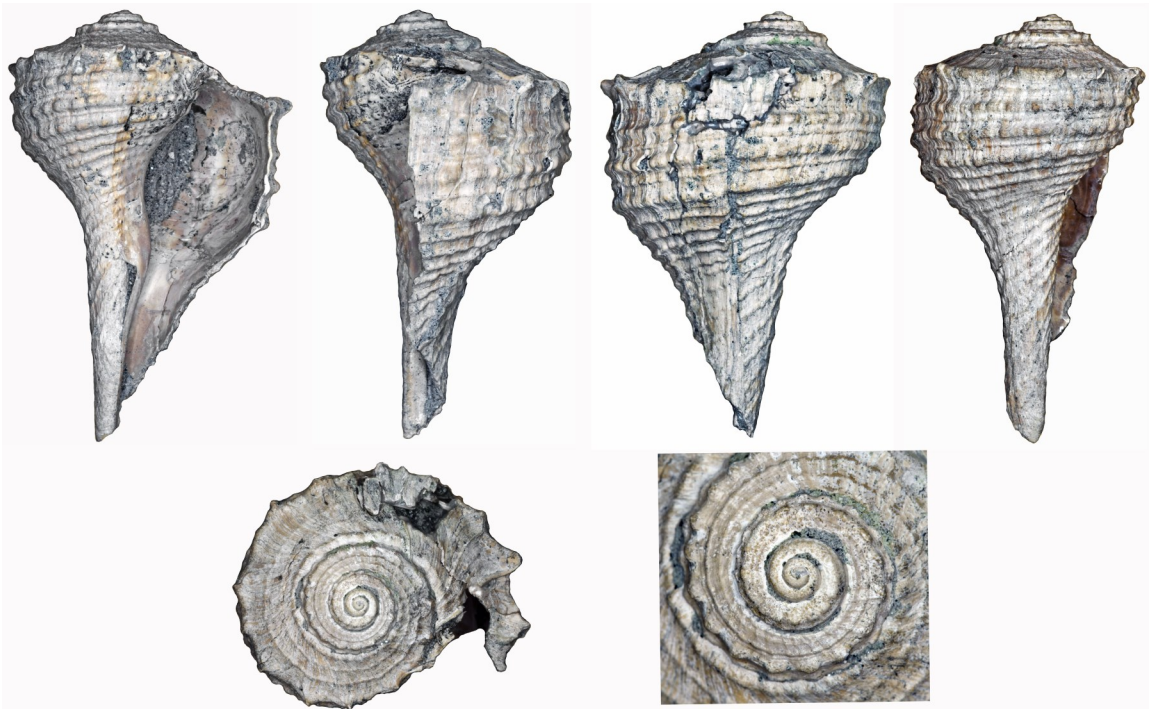


Cylindrofusus n. gen. *laneyae* n. sp., spire fragment height 31.0 mm, width 16.5 mm, Coffee Sand, MGS locality 129. Oysters attached to the apex are *Ambigostrea tecticosta*. MGS figured specimen 2921.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyropsinae, Genus *Pyropsis* P74



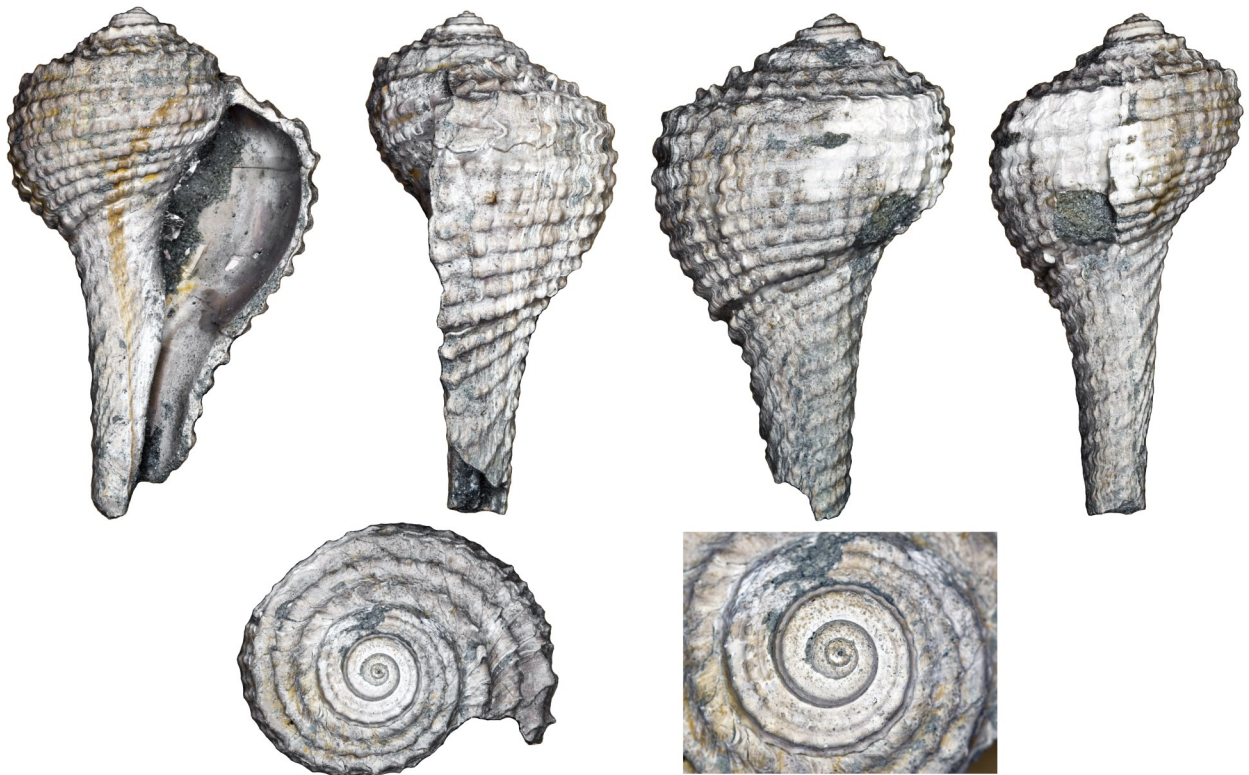
Pyropsis cornutus Sohl, 1964a, incomplete height 67.5, width 57.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2922.



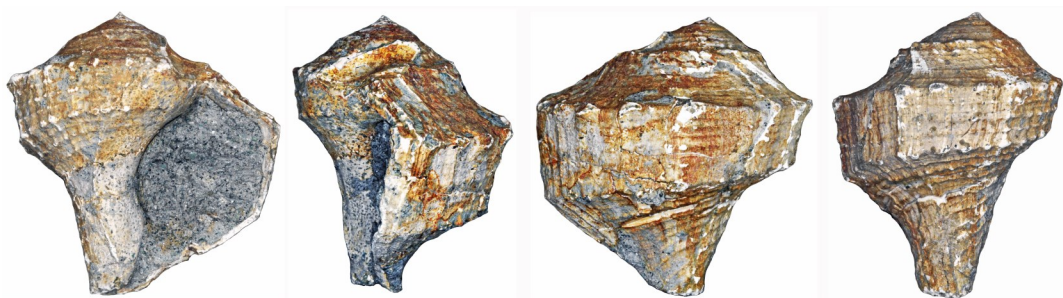
Pyropsis cornutus Sohl, 1964a, height 56.4 mm, width 37.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2923.



Pyropsis cornutus Sohl, 1964a, height 39.3 mm, width 31.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2924.



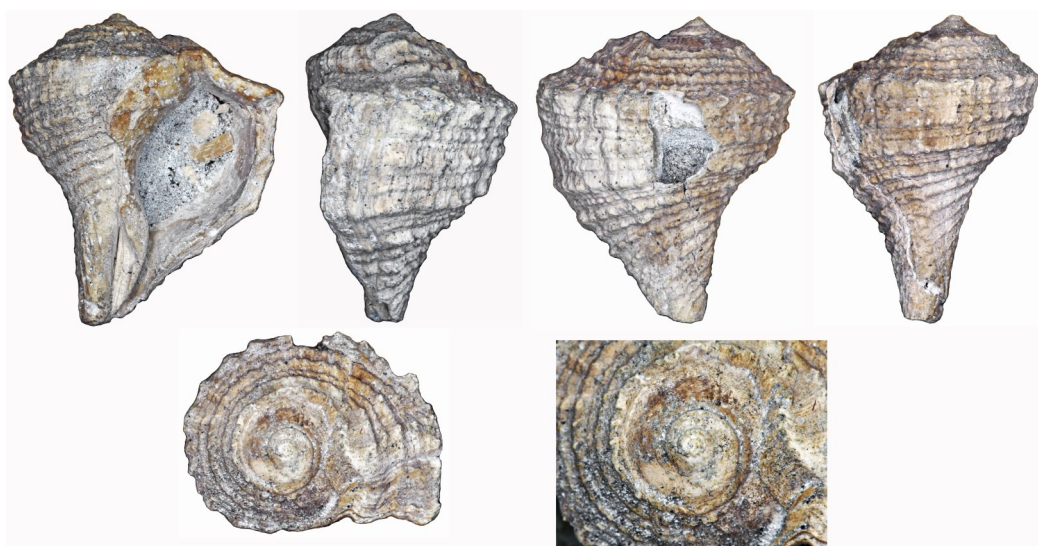
Pyropsis spinosus (Wade, 1926), height 57.0 mm, width 35.0 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2925.



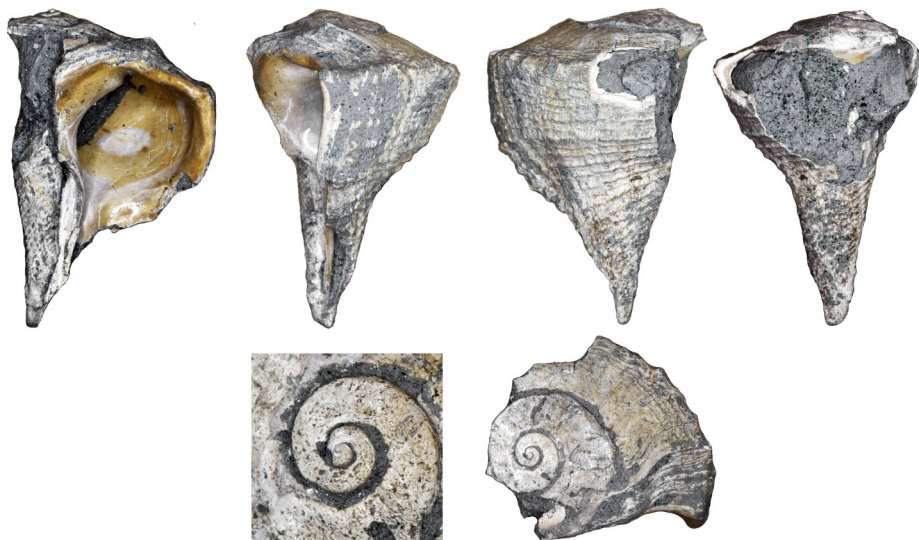
Pyropsis proxima Wade, 1926, incomplete length 40.0 mm, width 39.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2926.



Pyropsis involutus n. sp., height 37.3 mm, width 32.4 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778049 (MGS figured specimen 2927).



Pyropsis involutus n. sp., height 34.2 mm, width 30.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2928.



Pyropsis levis n. sp., height 48.0 mm, incomplete width 32.0 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778050 (MGS figured specimen 2929).



Pyropsis infundibulum n. sp., height 39.8 mm, width 34.3 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778051 (MGS figured specimen 2930).



Pyropsis infundibulum n. sp., incomplete height 34.6 mm, width 39.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2931.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyropsinae, Genus *Lupira* P75



Lupira pyriformis Stephenson, 1941, height 28.7 mm, width 19.7, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2932.



Lupira pyriformis Stephenson, 1941, height 30.7 mm, width 19.9 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2933.



Lupira pyriformis Stephenson, 1941, height 37.3 mm, width 28.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2934.



Lupira variabilis (Wade, 1926), height 41.7 mm, width 23.2 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2935.



Lupira variabilis (Wade, 1926), height 37.3 mm, width 22.8 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2936.



Lupira major (Wade, 1926), incomplete height 66.4 mm, width 33.6 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2937. This species has only two columellar plications and should not be placed as a synonym of *Lupira variabilis* as Sohl, 1964a, did.



Lupira disparila Sohl, 1964b, height 61.3 mm, width 35.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2938.



Lupira disparila Sohl, 1964b, incomplete height 55.6 mm, width 36.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2939.

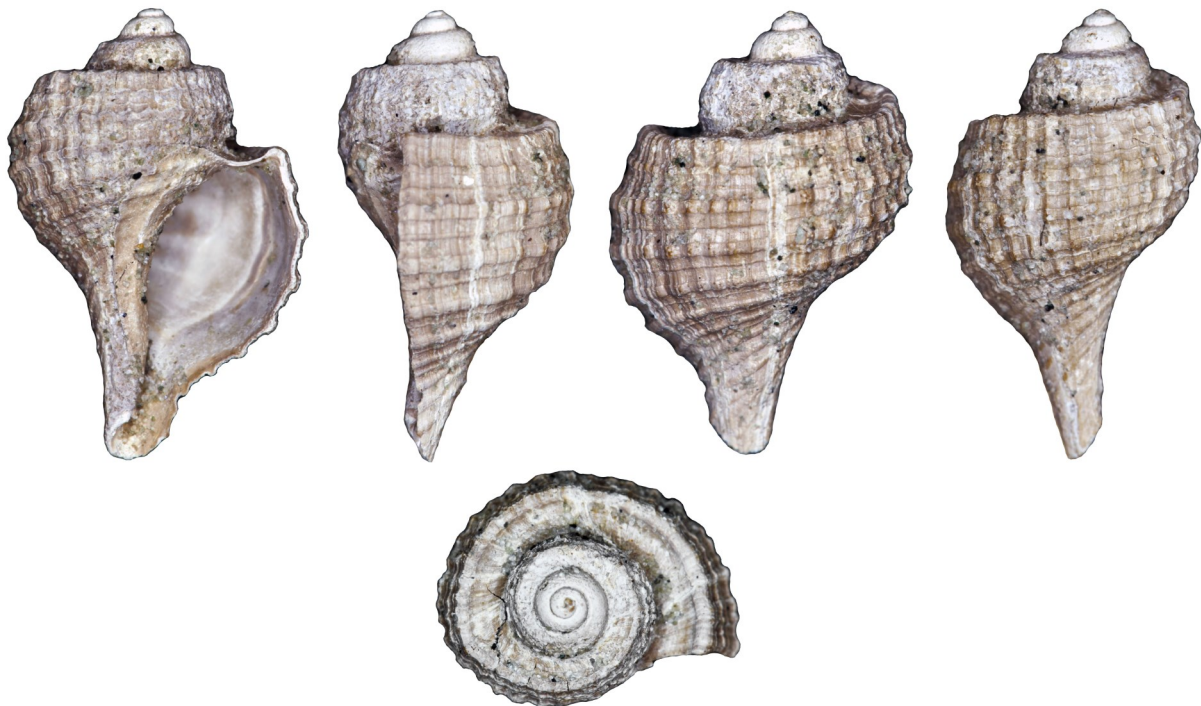


Lupira disparila Sohl, 1964b, incomplete height 39.4 mm, width 34.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2940.

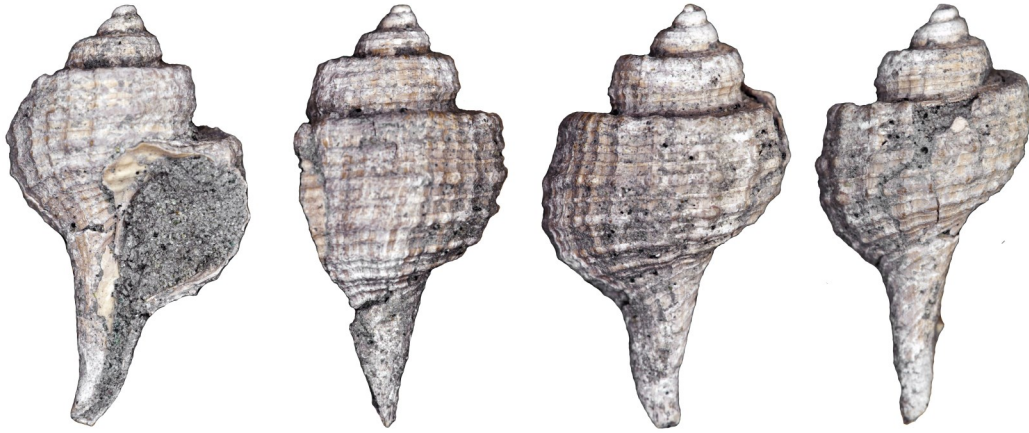
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyropsinae, Genus *Napulus* P75



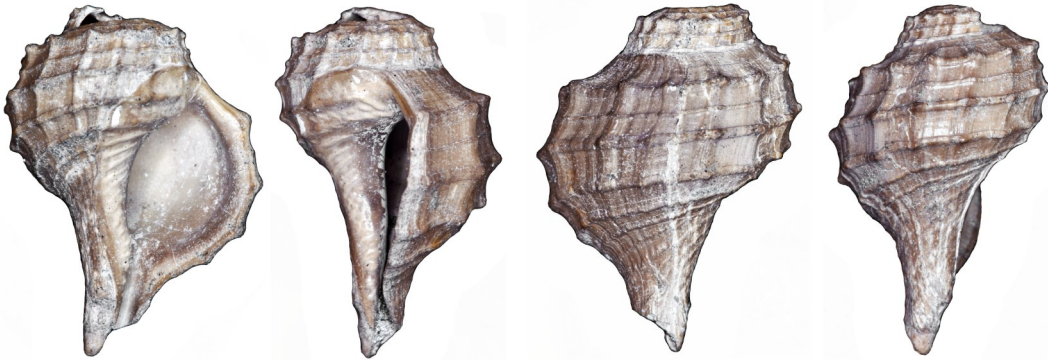
Napulus reesei Sohl, 1964a, height 21.0 mm, width 15.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2941.



Napulus canalis n. sp., height 13.1 mm, width 8.9 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778052 (MGS figured specimen 2942).



Napulus canalis n. sp., height 18.3 mm, width 10.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2943.

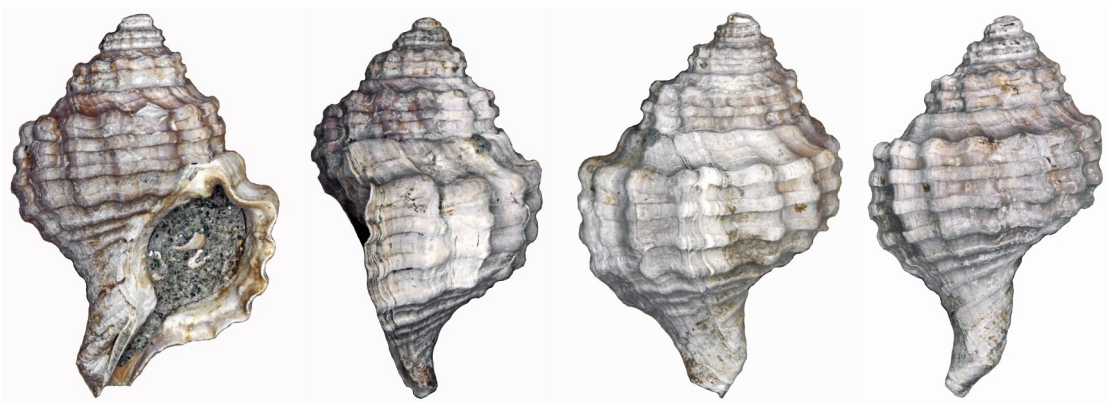


Napulus cymatiformis n. sp., incomplete height 19.8 mm, width 14.6 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778053 (MGS figured specimen 2944).

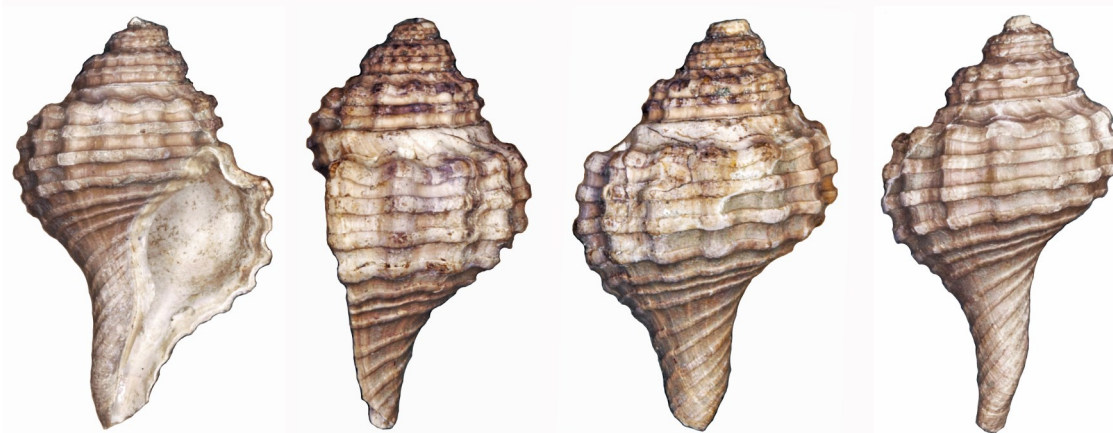


Napulus cymatiformis n. sp., incomplete height 9.5 mm, width 6.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2945.

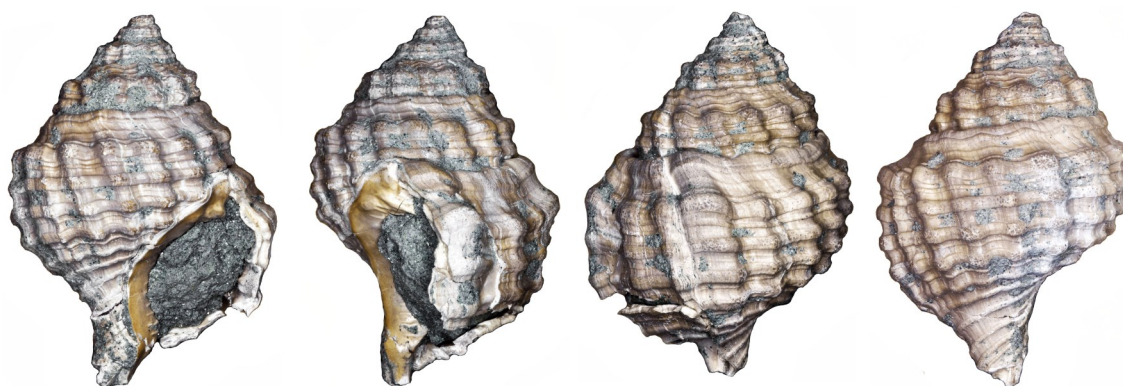
Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyropsinae, Genus *Hydrotribulus* P76



Hydrotribulus elegans Sohl, 1964a, height 35.6 mm, width 25.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2946.



Hydrotribulus elegans Sohl, 1964a, height 24.7 mm, width 15.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2947.

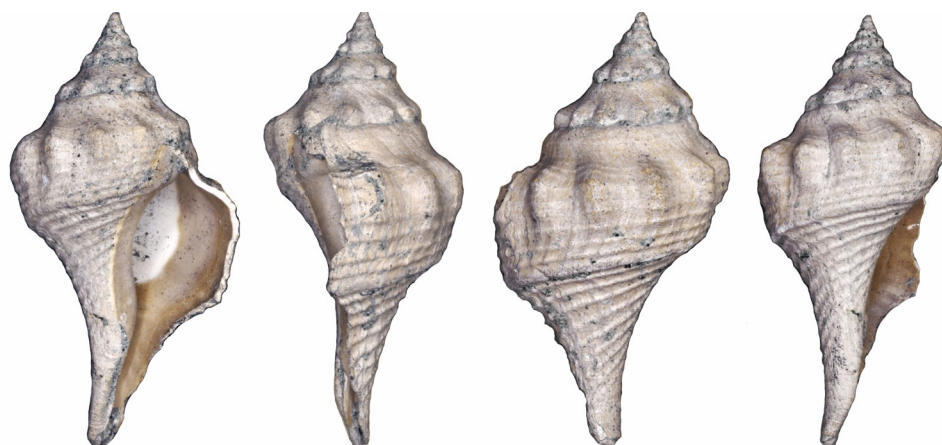


Hydrotribulus nodosus Wade, 1916, incomplete height 45.7 mm, width 32.7 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2948.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyropsinae, Genus *Hercorhyncus* (*Hercorhyncus*) and *Hercorhyncus* (*Haplovouta*) P76



Hercorhyncus (*Hercorhyncus*) *tippanus* (Conrad, 1860), height 30.1 mm, width 17.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2949.



Hercorhyncus (*Hercorhyncus*) *tippanus* (Conrad, 1860), height 34.5 mm, width 17.8 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2950.



Hercorhyncus (*Hercorhyncus*) *tippanus* (Conrad, 1860), height 34.2 mm, width 22.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2951.



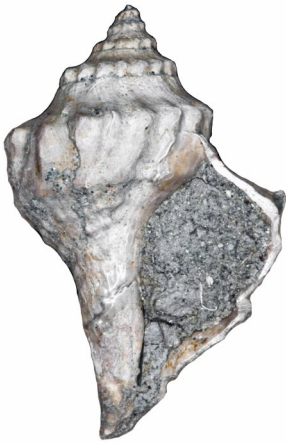
Hercorhyncus (Hercorhyncus) tippanus (Conrad, 1860), height 26.5 mm, width 14.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2952.



Hercorhyncus (Hercorhyncus) tippanus (Conrad, 1860), incomplete juvenile height 9.0 mm, width 4.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2953.



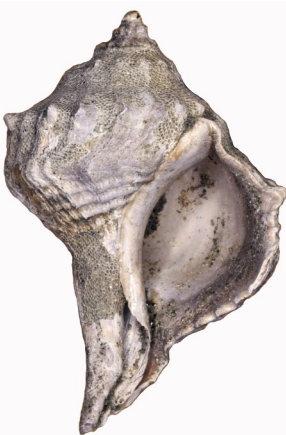
Hercorhyncus (Hercorhyncus) tippanus (Conrad, 1860), incomplete juvenile height 7.7 mm, width 3.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2954.



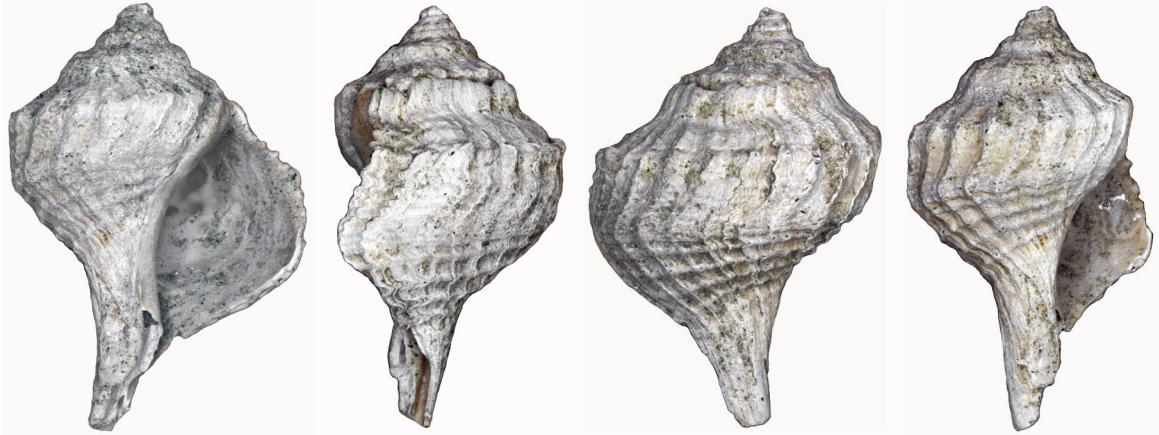
Herctorhyncus (Haplovoluta) triliratus Sohl, 1964, height 33.0 mm, width 21.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 129. MGS figured specimen 2955.



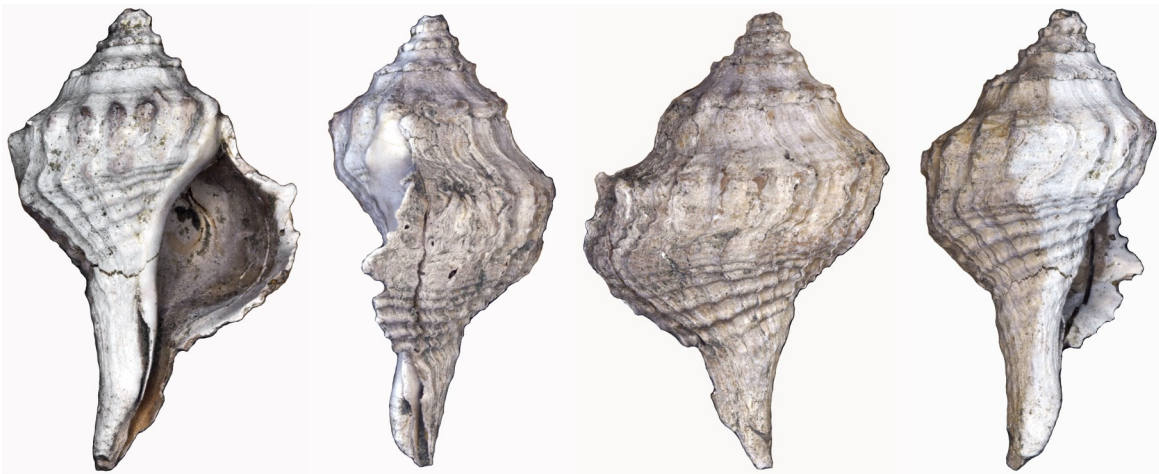
Herctorhyncus (Haplovoluta) triliratus Sohl, 1964, height 31.0 mm, width 22.9 mm, Coon Creek Tongue, Ripley Formation, MGS locality 129. MGS figured specimen 2956.



Herctorhyncus (Haplovoluta) bicarinatus (Wade, 1917), height 38.5 mm, width 26.9 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2957.



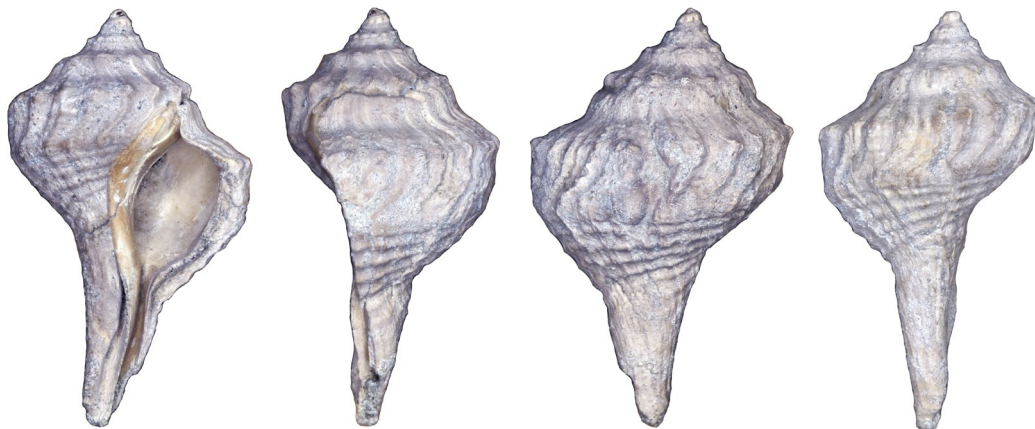
Herctorhyncus (Haplovoluta) bicarinatus (Wade, 1917), height 33.5 mm, width 23.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2958.



Herctorhyncus (Haplovoluta) bicarinatus (Wade, 1917), height 33.9 mm, width 20.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2959.



Herctorhyncus (Haplovoluta) bicarinatus (Wade, 1917), height 35.6 mm, width 22.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2960.

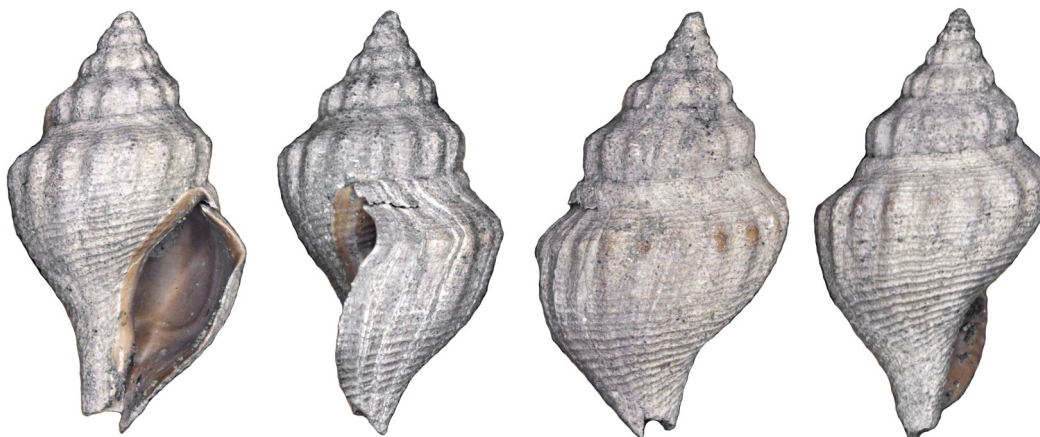


Herctorhyncus (Haplovoluta) bicarinatus (Wade, 1917), height 37.0 mm, width 23.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2961.



Herctorhyncus pagodaformis Sohl, 1964a, incomplete height 20.4 mm, width 12.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2962.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pyrifusidae, Subfamily Pyropsinae, Genus *Boltenella*



Boltenella excellens (Wade, 1917), height 27.8 mm, width 15.6 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2963.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Rachiglossa, Superfamily Pyrifusoidea, Family Pseudolividae, Genus *Fulgerca* and Genus *Mataxa* P77



Fulgerca compressilirata Sohl, 1964b, height 4.0 mm, width 1.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2964.



Metaxa elegans Wade, 1916, height 26.2 mm, width 15.2 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 2965.



Metaxa leioderma Sohl, 1964b, height 16.8 mm, width 9.6 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2966.



Metaxa leioderma Sohl, 1964b, height 16.7 mm, width 9.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2967.

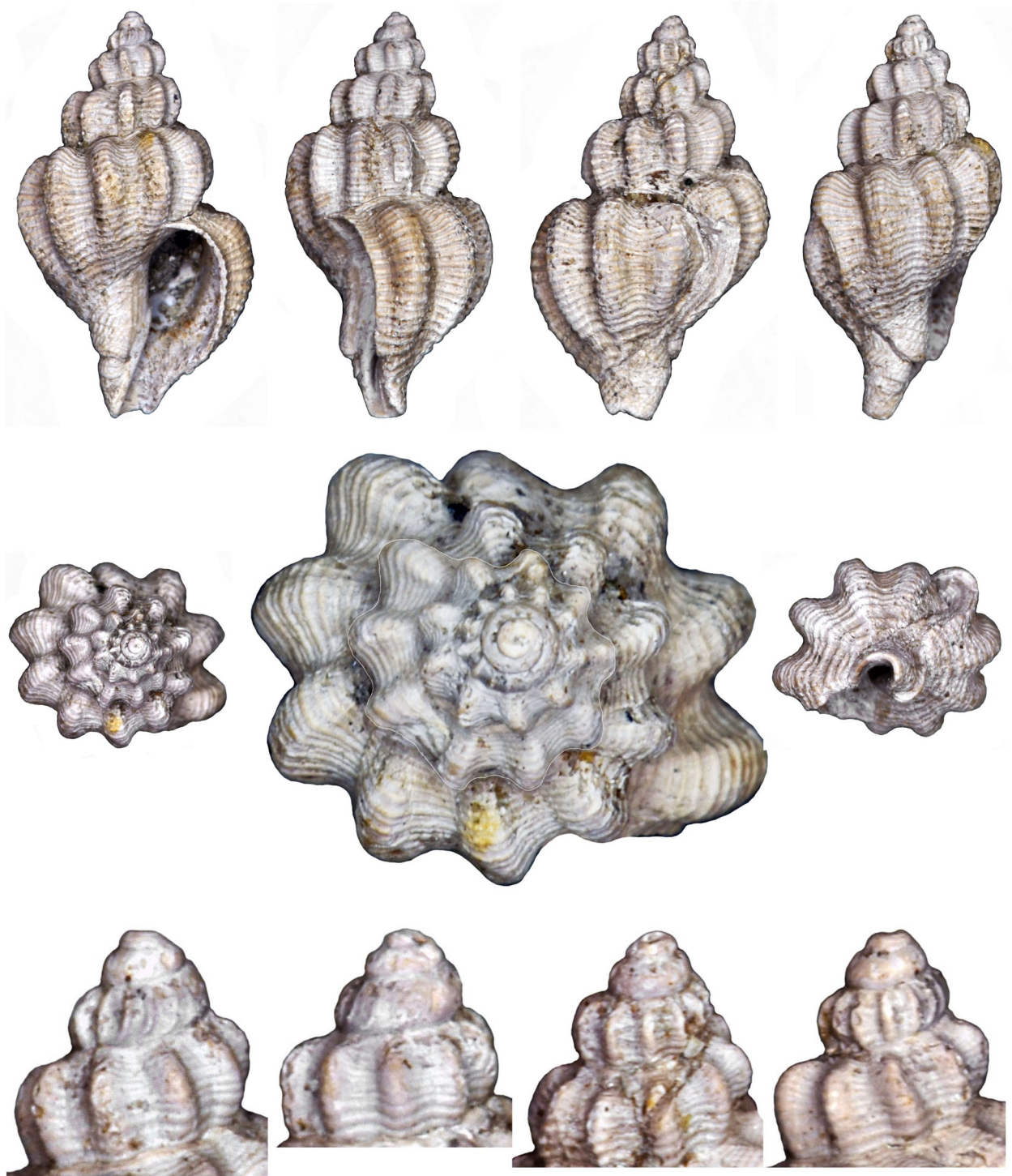


Metaxa leioderma Sohl, 1964b, height 14.1 mm, incomplete width 8.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2968.



Metaxa leioderma Sohl, 1964b, height 13.2 mm, width 8.2 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2969.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Superfamily Muricoidea, Family Muricidae, Subfamily Muricinae, Genus *Decaplex* n. genus



Decaplex n. gen. *idae* n. sp., height 7.5 mm, width 4.2 mm, Coffee Sand, upper clay bed, MGS locality 129. Holotype USNM PAL 778054 (MGS figured specimen 2970).

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Superfamily Muricoidea, Family Mitridae, Genus *Conomitra*



Conomitra sohli n. sp., height 8.4 mm, width 2.8 mm, Coffee Sand, MGS locality 129. Holotype USNM PAL 778055 (MGS figured specimen 2971).



Conomitra sohli n. sp., height 7.5 mm, width 3.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2972.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Toxoglossa, Family Turridae, Subfamily Amuletinae, Genus *Amuletum* P78



Amuletum wadei Harbison, 1945, height 8.0 mm, width 3.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2973.



Amuletum costatum Sohl, 1964b, height 13.5 mm, width 4.3 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2974.



Amutelum costatum Sohl, 1964b, height 14.5 mm, width 4.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2975.



Amutelum costatum Sohl, 1964b, juvenile height 3.5 mm, width 1.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2976.



Amutelum costatum Sohl, 1964b, juvenile height 4.5 mm, width 2.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2977.



Amutelum costatum Sohl, 1964b, juvenile height 3.7 mm, width 1.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2978.



Amutelum costatum Sohl, 1964b, incomplete height 12.8 mm, width 4.4 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2979.



Amutelum costatum Sohl, 1964b, height 10.5 mm, width 3.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2980.



Amuletum sp., incomplete height 13.6 mm, width 3.8 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2981.



Amuletum dumasensis Sohl, 1964a, incomplete height 8.9 mm, width 3.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2982.



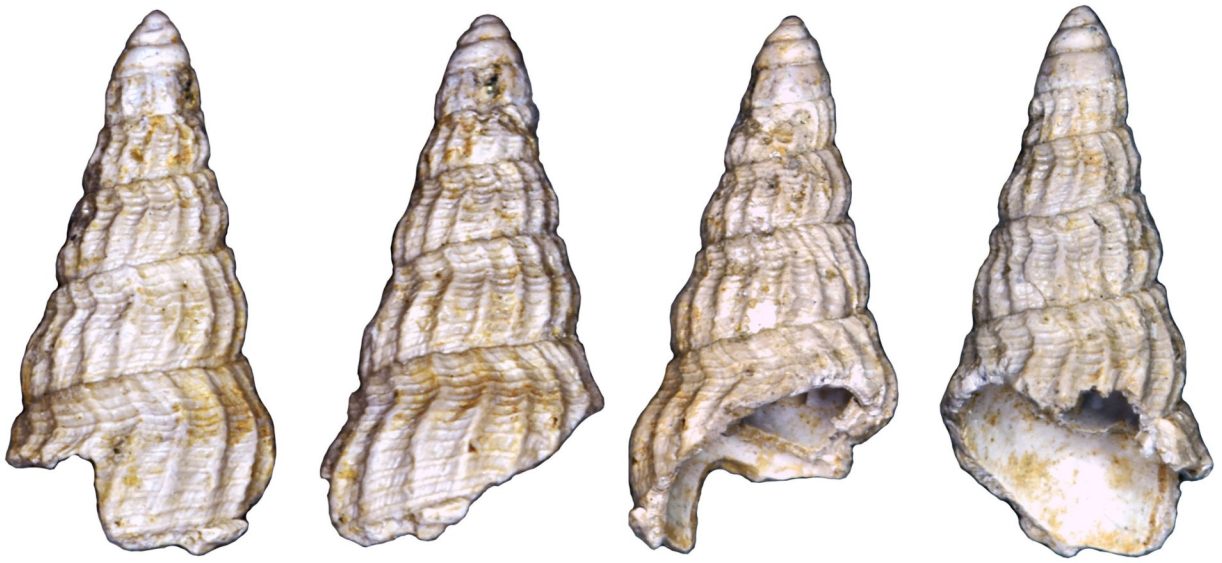
Amuletum dumasensis Sohl, 1964a, incomplete height 9.0 mm, width 3.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2983.



Amuletum dumasensis Sohl, 1964a, incomplete height 10.0 mm, width 3.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2984.



Amuletum dumasensis Sohl, 1964a, incomplete height 8.9 mm, width 3.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2985.

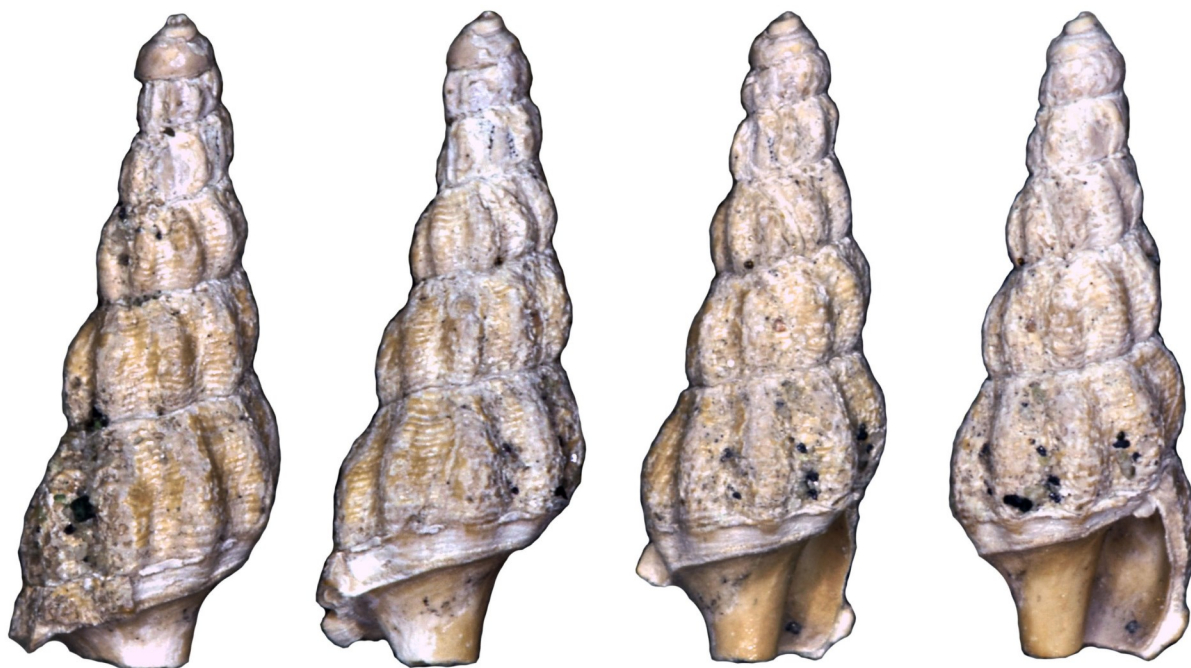


Amuletum dumasensis Sohl, 1964a, spire fragment height 6.0 mm, width 3.0 mm
Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen
2986.

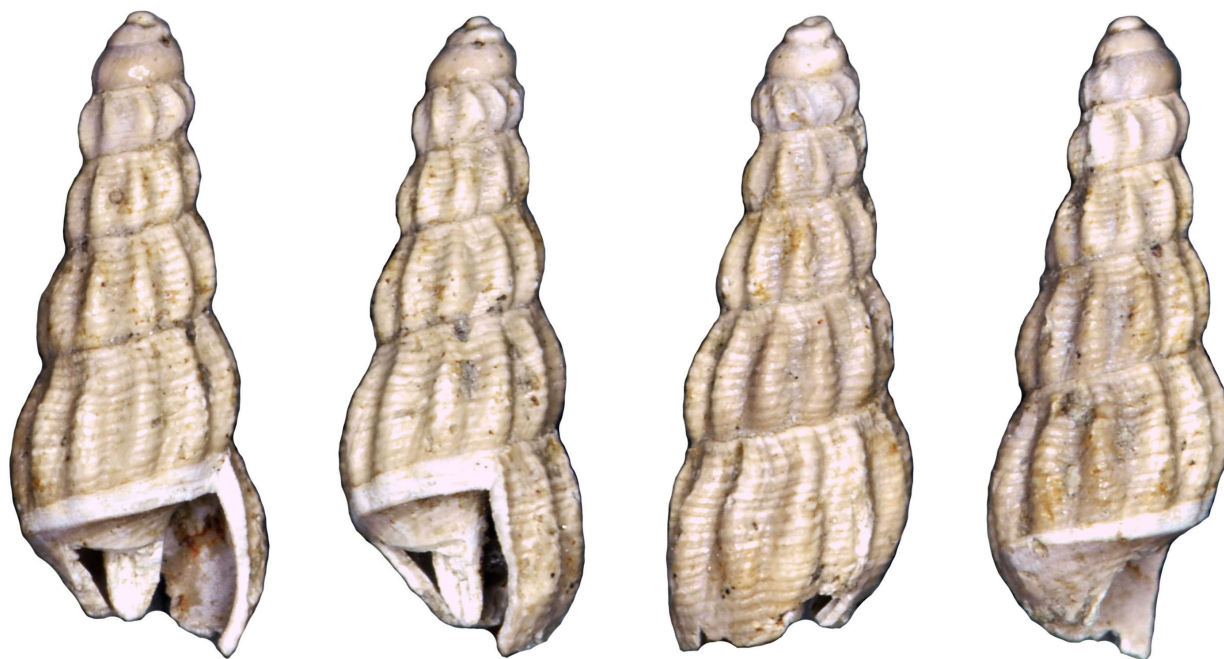


Amuletum dumasensis Sohl, 1964a, incomplete height 10.9 mm, width 3.3 mm,
Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen
2987.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Toxoglossa, Family Turridae, Subfamily Amuletinae, Genus *Remera* P79



Remera sp. ?, spire fragment height 6.0 mm, width 2.5 mm, Coffee Sand, MGS locality 129. MGS figured specimen 2988.



Remera sp., incomplete height 5.5 mm, width 2.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2989.



Remera sp., height 7.5 mm, width 2.5 mm, Coffee Sand, MGS locality 129.
MGS figured specimen 2990.



Remera stephensoni Harbison, 1945, incomplete height 26.2 mm, width 8.3 mm, Coon
Creek Tongue, Ripley Formation, MGS locality 171. MGS figured specimen 2991.



Remera stephensoni Harbison, 1945, incomplete height 22.5 mm, width 7.0 mm, Coon
Creek Tongue, Ripley Formation, MGS locality 171. MGS figured specimen 2907.



Remera stephensoni Harbison, 1945, height 22.9 mm, width 6.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2993.

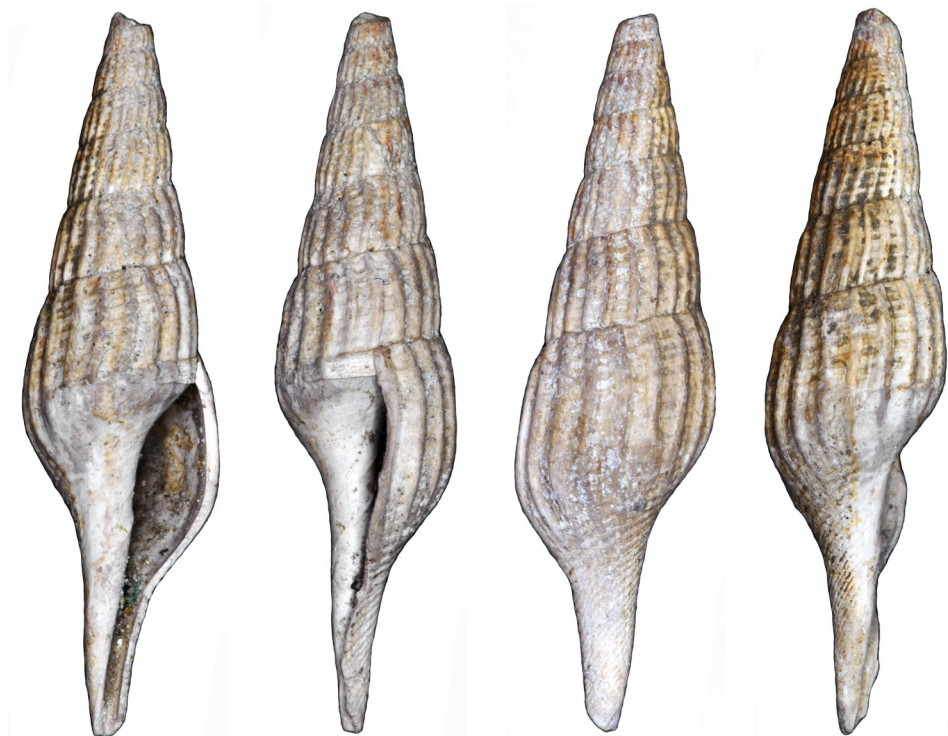


Remera stephensoni Harbison, 1945, incomplete height 19.2 mm, width 5.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2994.



Remera stephensoni Harbison, 1945, incomplete height 11.0, width 3.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2995.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Toxoglossa, Family Turridae, Subfamily Amuletinae, Genus *Graphidula* P79



Graphidula melanopsis (Conrad, 1860), incomplete height 25.3 mm, width 6.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2996.



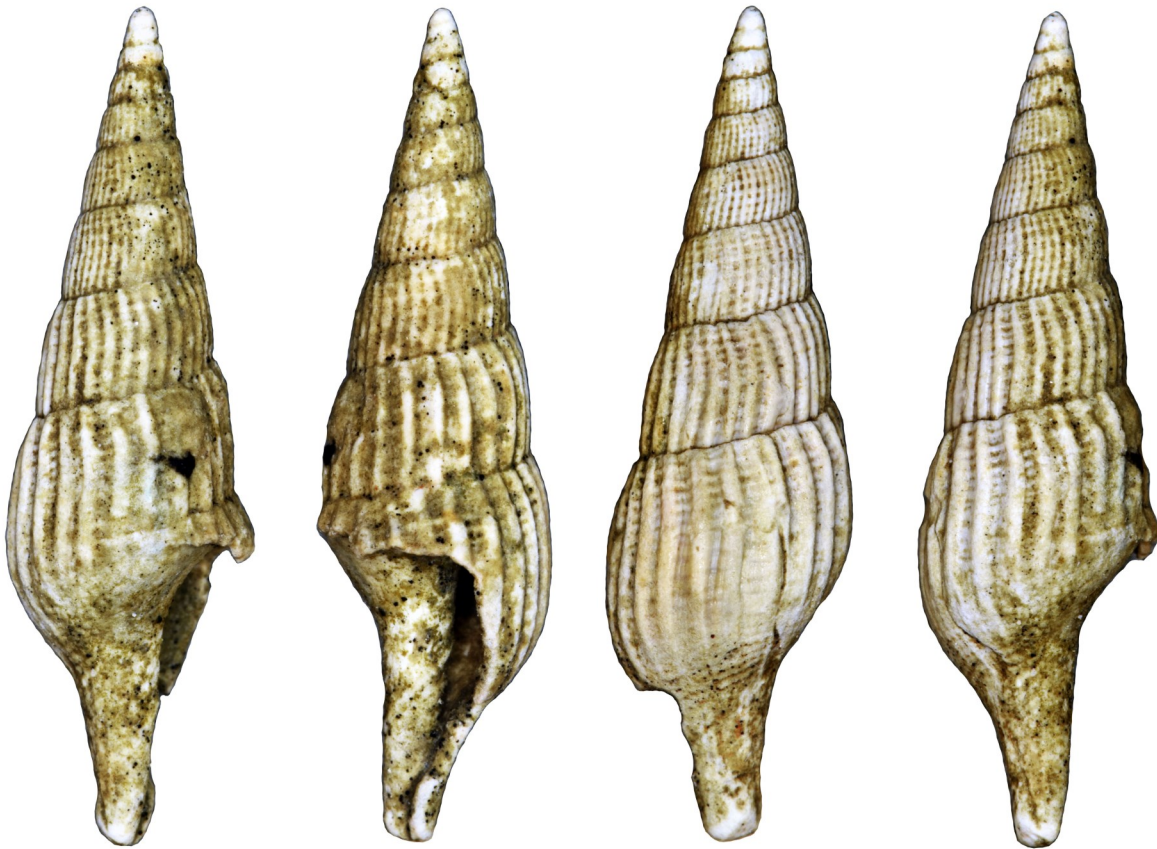
Graphidula melanopsis (Conrad, 1860), incomplete height 68.5 mm, width 21.2 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2997.



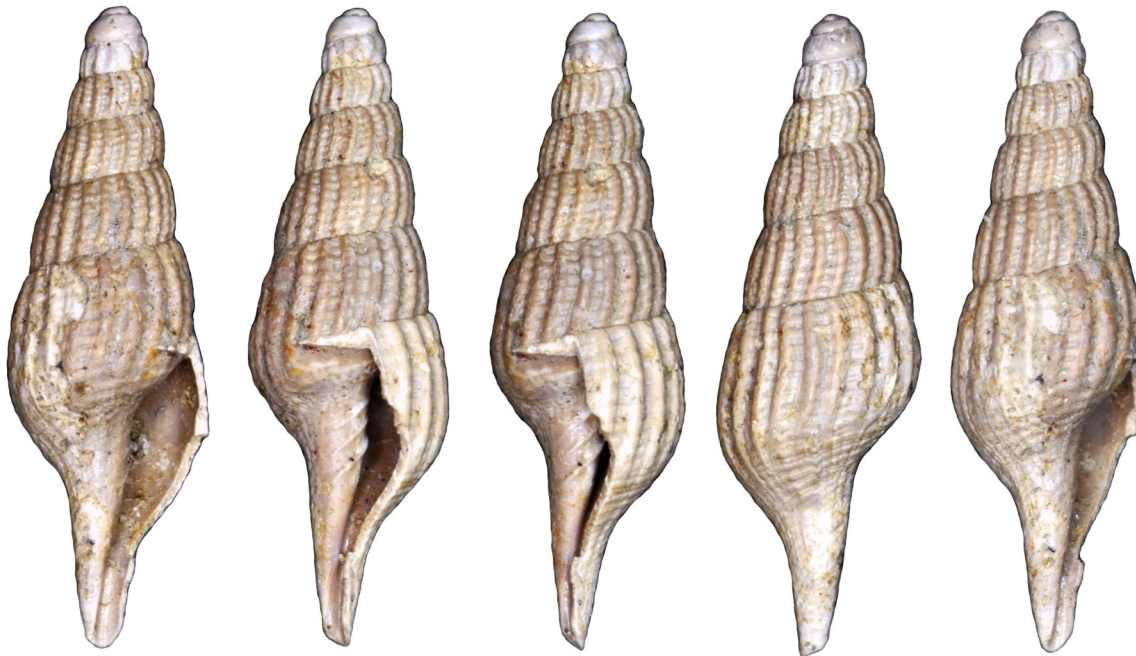
Graphidula melanopsis (Conrad, 1860), height 58.4 mm, width 14.2 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2998.



Graphidula melanopsis (Conrad, 1860), height 53.8 mm, width 14.3 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 2999.



Graphidula melanopsis (Conrad, 1860), incomplete height 37.0 mm, width 10.1 mm, Coon Creek, Ripley Formation, MGS locality 127. MGS figured specimen 3000.



Graphidula melanopsis (Conrad, 1860), juvenile height 8.5 mm, width 3.0 mm, Coon Creek, Ripley Formation, MGS locality 127. MGS figured specimen 3001.



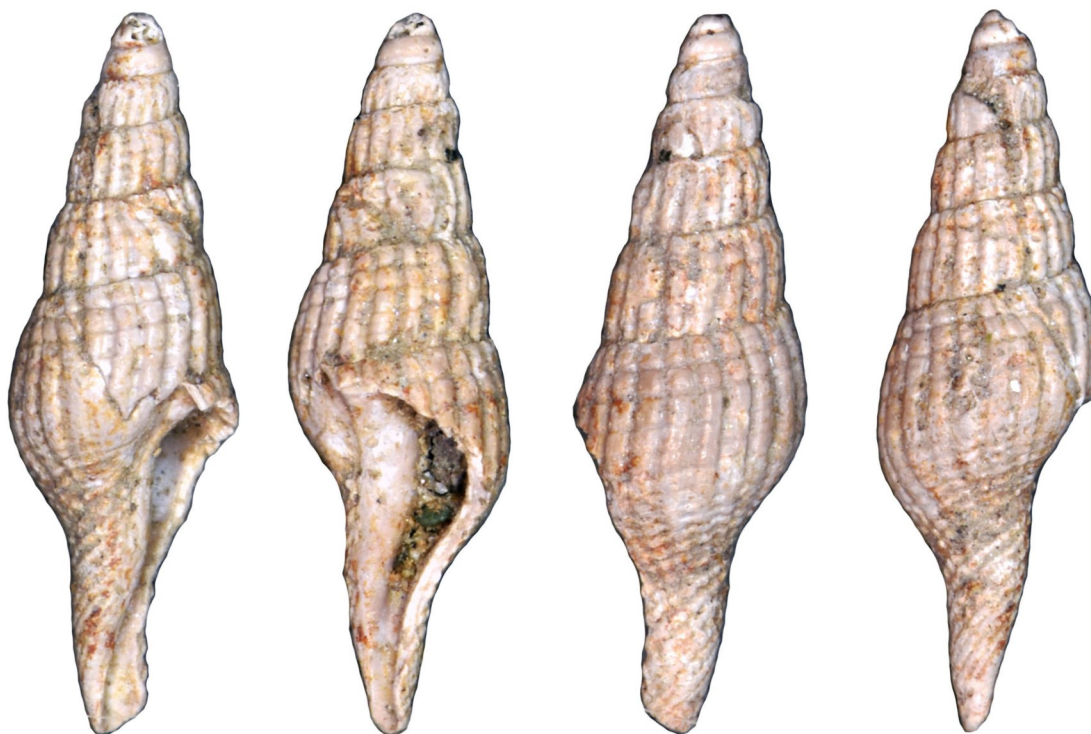
Graphidula sp., juvenile incomplete height 14.0 mm, width 5.0 mm, Coffee Sand, MGS locality 129. MGS figured specimen 3002.



Graphidula pergracilis (Wade, 1926), height 72.2 mm, width 14.0 mm, Coon Creek Tongue, Ripley Formation, Coon Creek, McNairy County, Tennessee. MGS figured specimen 3003.



Graphidula terebriformis Stephenson, 1941, incomplete height 15.7 mm, width 5.7 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 3004.



Graphidula terebriformis Stephenson, 1941, height 7.0 mm, width 2.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 3005.



Graphidula terebriformis Stephenson, 1941, height 7.5 mm, width 2.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 3006.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Toxoglossa, Family Turridae, Subfamily Amuletinae, Genus *Paleofusimitra* P79



Paleofusimitra elongata Sohl, 1963, height 17.7 mm, width 5.4 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 3007.

Class Gastropoda, Subclass Caenogastropoda, Superorder Latrogastropoda, Order Neogastropoda, Suborder Nematoglossa, Family Cancellariidae, Genus *Cancellaria* P80



Cancellaria macnairyensis Sohl, 1964a, incomplete height 5.5 mm, width 3.5 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 3008.



Cancellaria macnairyensis Sohl, 1964a, incomplete height 3.5 mm, width 2.0 mm, Coon Creek Tongue, Ripley Formation, MGS locality 127. MGS figured specimen 3009.

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