



SHELL-O-GRAM

Official Publication of the
JACKSONVILLE SHELL CLUB, INC.

January-February, 2008

Volume 49(1)

Due to voting with early elections, the January meeting of the JSC will be held on January 31 at the Southeast Branch of the Jacksonville Public Library, 10599 Deerwood Park Blvd, at 7:00PM. The program will be presented by member Rick Edwards on certain aspects of shelling in Okinawa not covered in his earlier, well-received talk, based on personal experience in the field. Harry Lee will present *Conus kawamurai* Habe, 1962, a rare and attractive species best known from these islands.

The February meeting of the JSC will be held on February 28 at the Southeast Branch of the Jacksonville Public Library, 10599 Deerwood Park Blvd., at 7:00PM. We are honored to have Neil A. Armingeon, the St. Johns Riverkeeper, speak to us on Our River, its lore, importance, and stewardship. Neil is charged with the preservation of this waterway, which is a vital part of the culture and economy of the region. Harry Lee will present a discussion of *Mytella charruana* (d'Orbigny). The Charrua Mussel has been introduced at least once into the lower reaches of Our River.

Cedar Key Field trip

On November, 23, 24, and 25, several members of the shell club descended on Cedar Key to take advantage of the November minus tides. They discovered that the area has repopulated since the hurricanes of two years ago. January's trip produced significantly less finds on the beach flats than the November trip. As with the January trip, the weather was very cooperative and the tide allowed for approximately 5 hours of shelling each day.

Jeff Ward provided the list below of **Cedar Key** shell finds. Jeff recorded that 39 different species were found on this trip.

Dinocardium robustum (Lightfoot, 1786)
Mercenaria mercenaria (Linnaeus, 1758)
Mercenaria campechiensis (Gmelin, 1791)
Epitonium rupicola (Kurtz, 1860)
Epitonium angulatum (Say, 1831)
Epitonium humphreysii (Kiener, 1838)
Turbo castanea (Gmelin, 1791)
Strombus alatus (Gmelin, 1791)
Neverita delessertiana (Récluz in Chenu, 1843)
Neverita duplicata (Say, 1822)
Sinum perspectivum (Say, 1831)
Chicoreus florifer dilectus (A. Adams, 1855)
Busycon sinistrum (Hollister, 1958)
Busycotypus spiratus (Lamarck, 1816)
Nassarius acutus (Say, 1822)
Nassarius vibex (Say, 1822)
Fasciolaria hunteria (Perry, 1811)
Fasciolaria tulipa (Linnaeus, 1758)
Prunum apicinum (Menke, 1828)
Tectonatica pusilla (Say, 1822)



Fasciolaria hunteria were very common on the sandy mud flats.

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This club meets each month at the Southeast Branch of the Jacksonville Public Library, 10599 Deerwood Park Blvd., Jacksonville, Florida. Please address any correspondence to the club's address above.

The *Shell-O-Gram* is issued bimonthly and mailed to all regular members. Annual membership dues are \$15.00 individual and \$20.00 family (domestic) and \$25.00 (foreign). Lifetime membership is available. Please send checks for dues to the above address and made out to the Jacksonville Shell Club.

We encourage members to submit articles for this publication. Closing date for article submission is two weeks prior to the first of each month of publication. Articles may be republished provided full credit is given the author and this newsletter and one copy of the complete publication in which the article appears is sent to the above address.

President's Corner

Happy New Year everybody!

I hope this message finds every one well.

We will be meeting in the near future to begin working toward the 08 shell show. A shell show/board meeting date will be announced at the January club meeting. Please be thinking about what you will do to help this year. There is always a job for everybody. It takes all of us to make a successful show.

Please plan to attend as many of our monthly meetings as you can, and remember - members are welcome to attend board meetings as well as shell show meetings. Talk to people about our club. Invite a guest to attend a meeting. There are so many people out there that don't even know that there is a Jacksonville Shell Club. We need to be more visible and promote our club as much as we can.

See you at the next meeting.

Best,
 Billie



Shell Club members attending the annual Christmas Party hosted this year by Dr. and Mrs. Lee. A great time was had by all.

Reminder: Club membership Dues are Due Now
 For most members dues are due on September 1st of each year.

If you joined on a different date, you can find that date by looking at your *Shell-O-Gram* label. Your due date is shown by month and year on the label.

Dues cost: Individual \$15.00.....Family \$20.00

(Continued from page 1)

Acteocina canaliculata (Say, 1826)
Terebra dislocata (Say, 1822)
Terebra protexta (Conrad, 1845)
Urosalpinx perrugata (Conrad, 1846)
Urosalpinx tampaensis (Conrad, 1846)
Atrina rigida (Lightfoot, 1786)
Ensis megistus (Pilsbry and McGinty, 1943)
Carditamera floridana (Conrad, 1838)
Mulinia lateralis (Say, 1822)
Cantharus cancellarius (Conrad, 1846)
Olivella pusilla (Marrat, 1871)
Urosalpinx cinerea (Say, 1822)
Longchaeus crenulatus (Holmes, 1859)
Noetia ponderosa (Say, 1822)
Nassarius consensus (Ravenel, 1861)
Costoanachis semiplicata (Stearns, 1873)
Melongena corona (Gmelin, 1791)
Parvanachis ostreicola (G. B. Sowerby III, 1882)
Microeulima hemphillii (Dall, 1884) *Brown Eulima*



Busycon sinistrum were very plentiful near the boat launch area.

Members are encouraged to share shelling experiences and to host shelling opportunities.

Shelling Sequel: Snailer Schroeder's shelled species survey soars significantly since second stage started (soil samples sorted)

by Harry G. Lee

Readers may recall JSC member/Kentuckian Lori Schroeder's amusing narrative of her earliest days as a landsnailer (Schroeder, 2005). The writer claims some responsibility for this initiation, which was met with no little reluctance by Lori. Well, before long, the ends justified the means (and once-daunting rigors), and a nice Nelson Co., Kentucky collection eventuated. The 22 species are discussed in her article, and most are illustrated.

Not entirely sure Lori had yet reached the status of consummate landsnailer, the writer entreated her on a few occasions to amplify her project and become a "saturation" collector. This means supplementing the traditional method of collecting by visual surveillance (including deep in grasses, leaf mold, under logs and rock piles) with sampling of "duff," which means gathering up dirt, grass, leaf litter, etc. without particular regard to its visible contents, stowing it in bags, and, after suitable processing, examining the contents systematically under high magnification. This method has been put to use and consistently has approximately doubled the land snail species diversity in a variety of habitats and geographic area (Lee, 1990; 2006).

Late last summer, Lori, with assistance from her hubby Jeff, revisited the collection area and did the field work. Two weeks later eleven Ziploc bags - each containing a pint-sized duff sample were presented by Lori and Jeff to the writer two weeks later during the North Carolina Shell Show.

The analysis of the contents of this raw material will allow some discussion. First the basic data:

Sample 1. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) small outcropping along road, E side spring-fed pond. Lori and Jeff Schroeder! 15 Sept., 2007 (same station as sample 2) [macrosnails lacking + 9]:

- 1 *Carychium nannodes* G. Clapp, 1905. File Thorn*
- 1 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
- 1 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo*
- 2 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone*
- 3 *Guppya sterkii* (Dall, 1888) Tiny Granule

- 1 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
- 1 *Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph*
- 1 *Nesovitrea electrina* (Gould, 1841) Amber Glass
- 1 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate*

Sample 2. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) small outcropping along road, E side spring-fed pond. Lori and Jeff Schroeder! 15 Sept., 2007 (same station as sample 1) [macrosnails lacking + 7]:

- 3 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
- 2 *Punctum minutissimum* (I. Lea, 1841) Small Spot**
- 2 *Euconulus dentatus* (Sterki, 1893) Toothed Hive**
- 4 *Guppya sterkii* (Dall, 1888) Tiny Granule
- 1 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
- 1 *Hawaiia alachuana* (Dall, 1885) Southeast Gem**
- 4 *Nesovitrea electrina* (Gould, 1841) Amber Glass

Samples 1 and 2. (E of pond) microsnailes combined:

- 1 *Carychium nannodes* G. Clapp, 1905. File Thorn*
 - 4 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
 - 1 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo*
 - 2 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone*
 - 2 *Punctum minutissimum* (I. Lea, 1841) Small Spot**
 - 2 *Euconulus dentatus* (Sterki, 1893) Toothed Hive**
 - 7 *Guppya sterkii* (Dall, 1888) Tiny Granule
 - 2 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
 - 1 *Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph*
 - 1 *Hawaiia alachuana* (Dall, 1885) Southeast Gem**
 - 5 *Nesovitrea electrina* (Gould, 1841) Amber Glass
 - 1 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate*
- 12 species: * sample 1 only; ** sample 2 only (7 from one sample only)



Figure 1
Carychium
clappi

Sample 3. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) exposed rocks, hillside S of spring-fed pond. Lori and Jeff Schroeder! 15 Sept., 2007 (same station as samples 4 and 5) [macrosnails lacking + 9]:

- 1 *Carychium clappi* Hubricht, 1959 Appalachian Thorn
- 1 *Carychium nannodes* G. Clapp, 1905. File Thorn
- 2 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
- 3 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
- 2 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone
- 2 *Punctum minutissimum* (I. Lea, 1841) Small Spot
- 1 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
- 1 *Hawaiia minuscula* (A. Binney, 1841) Minute Gem
- 1 *Nesovitrea electrina* (Gould, 1841) Amber Glass
- 3 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate

Sample 4. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) exposed rocks, hillside S of spring-fed pond. Lori and Jeff Schroeder! 15 Sept., 2007 (same station as samples 3 and 5) [4 + 4]:

- Anguispira alternata* (Say, 1817) Flamed Tigersnail
- Anguispira kochi* (Pfeiffer, 1845) Banded Tiger
- Inflectarius inflectus* (Say, 1821) Shagreen
- Mesodon zaletus* (A. Binney, 1837) Toothed Globe

- 1 *Carychium nannodes* G. Clapp, 1905. File Thorn
- 3 *Guppya sterkii* (Dall, 1888) Tiny Granule
- 2 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
- 2 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate

Sample 5. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) exposed rocks, hillside S of spring-fed pond. Lori and Jeff Schroeder! 15 Sept., 2007 (same station as samples 3 and 4) [3 + 9]:

- Inflectarius inflectus* (Say, 1821) Shagreen
- Mesodon zaletus* (A. Binney, 1837) Toothed Globe
- Triodopsis hopetonensis* (Shuttleworth, 1852) Magnolia Threetooth

- 1 *Gastrocopta pentodon* (Say, 1822) Comb Snaggletooth
- 1 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
- 1 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone

- 1 *Punctum minutissimum* (I. Lea, 1841) Small Spot
- 1 *Discus patulus* (Deshayes, 1830) Domed Disc
- 1 *Lucilla* cf. *nummus* (Vanatta, 1899) cf. Wax Coil
- 1 *Guppya sterkii* (Dall, 1888) Tiny Granule
- 1 *Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph
- 2 *Nesovitrea electrina* (Gould, 1841) Amber Glass

Samples 3, 4, and 5. (Hillside S of pond) microsnails combined:

- 1 *Carychium clappi* Hubricht, 1959 Appalachian Thorn
 - 2 *Carychium nannodes* G. Clapp, 1905. File Thorn**
 - 1 *Gastrocopta pentodon* (Say, 1822) Comb Snaggletooth***
 - 2 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth*
 - 4 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
 - 3 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone
 - 3 *Punctum minutissimum* (I. Lea, 1841) Small Spot***
 - 1 *Discus patulus* (Deshayes, 1830) Domed Disc***
 - 1 *Lucilla* cf. *nummus* (Vanatta, 1899) cf. Wax Coil**
 - 4 *Guppya sterkii* (Dall, 1888) Tiny Granule
 - 3 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
 - 1 *Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph***
 - 1 *Hawaiia minuscula* (A. Binney, 1841) Minute Gem
 - 3 *Nesovitrea electrina* (Gould, 1841) Amber Glass
 - 5 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate
- 15 species: * sample 3 only; ** sample 4 only; *** sample 5 only (eight from one sample only)

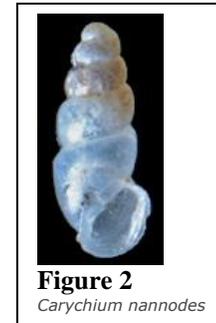


Figure 2
Carychium nannodes

Sample 6. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) "Anguispira Rock," hillside, small valley W of spring-fed pond. Lori and Jeff Schroeder! 15 Sept., 2007 (same station as samples 7 and 8) [4 + 21]:

- Anguispira alternata* (Say, 1817) Flamed Tigersnail
- Discus patulus* (Deshayes, 1830) Domed Disc
- Mesomphix vulgatus* H. B. Baker, 1933 Common Button
- Mesodon zaletus* (A. Binney, 1837) Toothed Globe

- 3 *Carychium clappi* Hubricht, 1959 Appalachian Thorn
- 4 *Carychium nannodes* G. Clapp, 1905. File Thorn
- 1 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
- 1 *Gastrocopta corticaria* (Say, 1817) Bark Snaggletooth
- 3 *Gastrocopta pentodon* (Say, 1822) Comb Snaggletooth
- 1 *Gastrocopta procera* (Gould, 1840) Wing Snaggletooth
- 1 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
- 1 *Vertigo ventricosa* (E. S. Morse, 1865) Five-tooth Vertigo
- 1 *Vallonia perspectiva* Sterki, 1893 Thin-lip Vallonia
- 2 *Punctum blandianum* Pilsbry, 1900 Brown Spot
- 15 *Punctum minutissimum* (I. Lea, 1841) Small Spot
- 1 *Lucilla* cf. *nummus* (Vanatta, 1899) cf. Wax Coil
- 2 *Lucilla* cf. *singleyana* (Pilsbry, 1890) cf. Smooth Coil
- 1 *Lucilla* species
- 5 *Guppya sterkii* (Dall, 1888) Tiny Granule
- 3 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
- 1 *Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph
- 1 *Hawaiia alachuana* (Dall, 1885) Southeast Gem
- 2 *Hawaiia minuscula* (A. Binney, 1841) Minute Gem
- 3 *Nesovitrea electrina* (Gould, 1841) Amber Glass
- 6 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate



Figure 3 *Guppya sterkii*

Sample 7. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) "Anguispira Rock," hillside, small valley W of spring-fed pond. Lori and Jeff Schroeder! 15 Sept., 2007 (same station as samples 6 and 8) [3 + 13]:

- Anguispira alternata* (Say, 1817) Flamed Tigersnail
- Mesomphix vulgatus* H. B. Baker, 1933 Common Button
- Xolotrema obstrictum* (Say, 1821) Sharp Wedge

- 6 *Carychium clappi* Hubricht, 1959 Appalachian Thorn
- 7 *Carychium nannodes* G. Clapp, 1905. File Thorn
- 14 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
- 1 *Gastrocopta pentodon* (Say, 1822) Comb Snaggletooth
- 5 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
- 1 *Punctum blandianum* Pilsbry, 1900 Brown Spot
- 11 *Punctum minutissimum* (I. Lea, 1841) Small Spot



Figure 4 *Hawaiia alachuana*

- 4 *Helicodiscus parallelus* (Say, 1817) Compound Coil
 3 *Guppya sterkii* (Dall, 1888) Tiny Granule
 3 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
 4 *Hawaiia minuscula* (A. Binney, 1841) Minute Gem
 2 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate
 1 *Zonitoides arboreus* (Say, 1817) Quick Gloss

Sample 8. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL)
 "Anguispira Rock," hillside, small valley W of spring-fed pond. Lori and Jeff Schroeder! 15 Sept., 2007 (same station as samples 6 and 7) [8 +11]:

- Anguispira alternata* (Say, 1817) Flamed Tigersnail
Mesomphix vulgatus H. B. Baker, 1933 Common Button
Ventridens collisella (Pilsbry, 1896) Sculptured Dome
Inflectarius inflectus (Say, 1821) Shagreen
Mesodon zaletus (A. Binney, 1837) Toothed Globe
Neohelix albolabris (Say, 1817) Whitelip
Xolotrema obstructum (Say, 1821) Sharp Wedge
Triodopsis vulgata Pilsbry, 1940 Dished Threetooth

- 4 *Carychium nannodes* G. Clapp, 1905. File Thorn
 4 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
 2 *Gastrocopta pentodon* (Say, 1822) Comb Snaggletooth
 3 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
 1 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone
 6 *Punctum minutissimum* (I. Lea, 1841) Small Spot
 3 *Guppya sterkii* (Dall, 1888) Tiny Granule
 3 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
 1 *Hawaiia minuscula* (A. Binney, 1841) Minute Gem
 2 *Nesovitrea electrina* (Gould, 1841) Amber Glass
 3 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate

Samples 6, 7, and 8 ("Anguispira Rock") microsnails combined:

- 9 *Carychium clappi* Hubricht, 1959 Appalachian Thorn
 15 *Carychium nannodes* G. Clapp, 1905. File Thorn
 19 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
 1 *Gastrocopta corticaria* (Say, 1817) Bark Snaggletooth*
 3 *Gastrocopta pentodon* (Say, 1822) Comb Snaggletooth
 1 *Gastrocopta procera* (Gould, 1840) Wing Snaggletooth*
 9 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
 1 *Vertigo ventricosa* (E. S. Morse, 1865) Five-tooth Vertigo*
 1 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone***
 1 *Vallonia perspectiva* Sterki, 1893 Thin-lip Vallonia*
 3 *Punctum blandianum* Pilsbry, 1900 Brown Spot
 32 *Punctum minutissimum* (I. Lea, 1841) Small Spot
 4 *Helicodiscus parallelus* (Say, 1817) Compound Coil**
 1 *Lucilla cf. nummus* (Vanatta, 1899) *cf.* Wax Coil*
 2 *Lucilla cf. singleyana* (Pilsbry, 1890) *cf.* Smooth Coil*
 1 *Lucilla* species*
 11 *Guppya sterkii* (Dall, 1888) Tiny Granule
 9 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
 1 *Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph
 1 *Hawaiia alachuana* (Dall, 1885) Southeast Gem
 7 *Hawaiia minuscula* (A. Binney, 1841) Minute Gem
 5 *Nesovitrea electrina* (Gould, 1841) Amber Glass
 11 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate
 1 *Zonitoides arboreus* (Say, 1817) Quick Gloss**
 24 species: *sample 6 only; **sample 7 only; ***sample 8 only (ten from one sample only)



Figure 5 *Lucilla cf. nummus*



Figure 6 *Striatura meridionalis*



Figure 7
Vertigo gouldii

Sample 9. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL)
 base of exposed rock, "Creek-North." Lori and Jeff Schroeder! 15 Sept., 2007 [8 + 9]:

- Anguispira alternata* (Say, 1817) Flamed Tigersnail
Mesomphix vulgatus H. B. Baker, 1933 Common Button
Ventridens pilsbryi Hubricht, 1964 Yellow Dome
Euchemotrema fraternum (Say, 1824) Upland Pillsnail
Inflectarius inflectus (Say, 1821) Shagreen
Mesodon thyroidus (Say, 1817) White-lip Globe
Triodopsis hopetonensis (Shuttleworth, 1852) Magnolia Threetooth
Triodopsis vulgata Pilsbry, 1940 Dished Threetooth

- 1 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
- 2 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone
- 1 *Punctum minutissimum* (I. Lea, 1841) Small Spot
- 1 *Lucilla* species
- 1 *Euconulus fulvus* (Müller, 1774) Brown Hive
- 1 *Guppya sterkii* (Dall, 1888) Tiny Granule
- 1 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
- 1 *Nesovitrea electrina* (Gould, 1841) Amber Glass
- 1 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate

Sample 10. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) base of exposed rock, "Creek-South." Lori and Jeff Schroeder! 15 Sept., 2007 [2 + 12]:

Anguispira alternata (Say, 1817) Flamed Tigersnail
Mesomphix vulgatus H. B. Baker, 1933 Common Button

- 1 *Carychium clappi* Hubricht, 1959 Appalachian Thorn
- 3 *Carychium nannodes* G. Clapp, 1905. File Thorn
- 1 *Columella simplex* (Gould, 1841) Toothless Column
- 1 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
- 3 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
- 1 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone
- 1 *Punctum minutissimum* (I. Lea, 1841) Small Spot
- 1 *Euconulus dentatus* (Sterki, 1893) Toothed Hive
- 1 *Euconulus fulvus* (Müller, 1774) Brown Hive
- 3 *Guppya sterkii* (Dall, 1888) Tiny Granule
- 3 *Glyphyalinia indentata* (Say, 1823) Carved Glyph
- 2 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate



Sample 11. USA, Kentucky, Nelson Co., Bardstown, Chumbley-Stauble Properties. Soil sample (~ 500 mL) Chumbley fence row. Lori and Jeff Schroeder! 15 Sept., 2007:

[2 + microsnailes lacking]
Mesomphix vulgatus H. B. Baker, 1933 Common Button
Xolotrema obstrictum (Say, 1821) Sharp Wedge

Consolidated list of microspecies (excluding the Domed Disc, an intermediate-sized species which was also collected by visual reconnaissance on this occasion) with maximum dimensions taken from the eleven soil samples (nos. 1 - 10; no. 11 lacked microsnailes) from the five productive stations:

- 11 *Carychium clappi* Hubricht, 1959 Appalachian Thorn 2.0 mm **fig. 1.**
- 21 *Carychium nannodes* G. Clapp, 1905. File Thorn 1.5 mm **fig. 2.**
- 1 *Columella simplex* (Gould, 1841) Toothless Column 2.0 mm juvenile [10]*
- 24 *Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth 2.5 mm **fig. 8.**
- 1 *Gastrocopta corticaria* (Say, 1817) Bark Snaggletooth 2.5 mm
- 4 *Gastrocopta pentodon* (Say, 1822) Comb Snaggletooth 1.8 mm
- 1 *Gastrocopta procera* (Gould, 1840) Wing Snaggletooth 2.4 mm [6]*
- 17 *Vertigo gouldii* (A. Binney, 1843) Variable Vertigo 1.9 mm **fig. 7.**
- 1 *Vertigo ventricosa* (E. S. Morse, 1865) Five-tooth Vertigo 1.6 mm [6]*
- 1 *Vallonia perspectiva* Sterki, 1893 Thin-lip Vallonia 2.0 mm [6]*
- 9 *Strobilops labyrinthicus* (Say, 1817) Maze Pinecone 2.4 mm
- 3 *Punctum blandianum* Pilsbry, 1900 Brown Spot 1.2 mm [6, 7]**
- 39 *Punctum minutissimum* (I. Lea, 1841) Small Spot 1.2 mm
- 4 *Helicodiscus parallelus* (Say, 1817) Compound Coil 2.0 mm juvenile [7]*
- 1 *Lucilla* cf. *nummus* (Vanatta, 1899) cf. Wax Coil 1.5 mm [6]* **fig. 5.**
- 2 *Lucilla* cf. *singleyana* (Pilsbry, 1890) cf. Smooth Coil 1.7 mm [6]* **fig. 9.**
- 2 *Lucilla* species 1.7 mm **fig. 10.**
- 3 *Euconulus dentatus* (Sterki, 1893) Toothed Hive) 1.8 mm juvenile
- 2 *Euconulus fulvus* (Müller, 1774) Brown Hive 2.3 mm juvenile
- 26 *Guppya sterkii* (Dall, 1888) Tiny Granule 1.1 mm **fig. 3.**
- 18 *Glyphyalinia indentata* (Say, 1823) Carved Glyph 3.8 mm juvenile
- 3 *Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph 3.4 mm juvenile



- 2 *Hawaiia alachuana* (Dall, 1885) Southeast Gem 2.6 mm **fig. 4**
 8 *Hawaiia minuscula* (A. Binney, 1841 Minute Gem) 2.5 mm
 9 *Nesovitrea electrina* (Gould, 1841) Amber Glass 4.5 mm
 20 *Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate 1.8 mm **fig. 6.**
 1 *Zonitoides arboreus* (Say, 1817) Quick Gloss [7]* 4.9 mm
 235 specimens of 27 species ranging from one to six mm in size, of which eight were found in only one sample (*) [sample no.], and one (**) was found in more than one sample but only at one station [*Anguispira* Rock].

The macrosnails, including the mid-sized (eight mm) Domed Disc, taken as “bycatch” with the soil sample constituted 13 species. They amount to about two-thirds of the originally-reported 22 species, which were then the product of visual surveillance exclusively. The full list of “macro’s” follows; those taken incidentally on this “micro” campaign are indented:

- Helicina (Olygyra) orbiculata* (Say, 1818) Globular Drop
Gastrocopta armifera (Say, 1821) Armed Snaggletooth
Haplotrema concavum (Say, 1821) Gray Lancetooth
 Anguispira alternata (Say, 1817) Flamed Tigersnail
 Anguispira kochi (Pfeiffer, 1845) Banded Tiger
 Discus patulus (Deshayes, 1830) Domed Disc
 Mesomphix vulgatus H. B. Baker, 1933 Common Button
 Ventridens collisella (Pilsbry, 1896) Sculptured Dome
Ventridens demissus (A. Binney, 1843) Perforate Dome
 Ventridens pilsbryi Hubricht, 1964 Yellow Dome
 Euchemotrema fraternum (Say, 1824) Upland Pillsnail
Euchemotrema leai (A. Binney, 1841) Lowland Pillsnail
 Inflectarius inflectus (Say, 1821) Shagreen
Mesodon clausus (Say, 1821) Yellow Globelet
Mesodon elevatus (Say, 1821) Proud Globe
 Mesodon thyroidus (Say, 1817) White-lip Globe
 Mesodon zaletus (A. Binney, 1837) Toothed Globe
 Neohelix albolabris (Say, 1817) Whitelip
Patera appressa (Say, 1821) Flat Bladetooth
 Xolotrema obstrictum (Say, 1821) Sharp Wedge
 Triodopsis hopetonensis (Shuttleworth, 1852) Magnolia Threetooth
 Triodopsis vulgata Pilsbry, 1940 Dished Threetooth



Cumulatively there are 49 species found by Lori and Jeff in Nelson Co. Over half of these (27) were exclusive to the soil samples. The total catch on the soil sample field trip was 41 species, and that from “*Anguispira* Rock” was 33 species (24 of 27 micro’s and nine of 22 macrospecies). In the experience of the writer, a collection of that many species at a single station (one place at one time) is spectacular.

Beyond the marked diversity of species, what can we learn from the distribution of shells among various samples? (1) Some species are consistently more common and “widespread” than others – no surprise here. (2) Certain stations were much more productive than others, and this seems to be a consistent finding across the “duplicate” samples. (3) A significant number of taxa are represented by very few specimens and/or a single locus and would have been missed if six (five productive) stations were not tested and repetitive samples (stations 1-2; 3-5; 6-8) were not made. Two factors come to mind to explain this inhomogeneity – differences in (micro)habitat and undersampling (sheer volume). The relative contributions of these two factors to the collection results could be experimentally tested if there were sufficient time and manpower; however, there is a simpler empiric lesson. It appears certain that a more generous and microhabitat-diverse sampling at “*Anguispira* Rock” will very likely produce even more diversity – perhaps exceeding the much-heralded “35 species ceiling” informally held as gospel by many land snail specialists in the eastern USA. This asymptote can be put to the test by an all-out single-visit campaign next

spring or summer. Who knows, maybe Lori and Jeff can do it – and maybe they'll ask for some human resources assistance from other Jacksonville Shell Club members? The writer, having demonstrated the aptness of the sobriquet "Dirty Harry," bestowed by Lori, is the first to volunteer – officially, and in print!

It is painfully clear that Nelson Co., KY has been undercollected historically. Hubricht (1985) recorded only three species of native land snails from Nelson Co., KY: *Zonitoides arboreus* (Say, 1817) Quick Gloss, *Mesodon zaletus* (A. Binney, 1837) Toothed Globe, and *Triodopsis tennesseensis* (Walker & Pilsbry, 1902) Budded Threetooth. Thus 47 of the 49 species are "new county records vs. Hubricht (1985). All species are "new county records" vs. Branson (1973) as he did not report any land snail from Nelson Co. Lori and Jeff have increased the known biodiversity of this jurisdiction fifteen-fold! In fact, other than the region of Mammoth Cave, it is now arguably the best-known Kentucky precinct for land snails.

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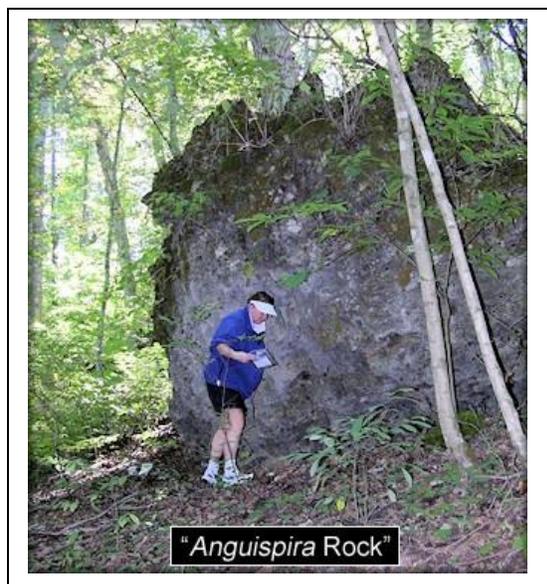
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"Anguispira Rock"

Upcoming Shell Events (from
Conchologist of America)

Jan. 19-20, 2008

**SPACE COAST SEASHELL
FESTIVAL**, Melbourne, FL
The Melbourne Auditorium, 625 E.
Hibiscus Blvd.
Jim & Bobbi Cordy, 385 Needle Blvd.
Merritt Is., FL 32953 (321) 452-5736
E-mail: corshell@earthlink.net

Feb. 1-3, 2008

BROWARD SHELL SHOW, Pompano
Beach, FL
Pompano Beach Recreation Center, NE
18th Av. & NE 6th St.
Linda Sunderland, 3970 NW 39th
Street
Sunrise, FL 33351 (954) 749-9858
E-mail: klsells@mindspring.com

Feb. 15-17, 2008

SARASOTA SHELL SHOW, Sarasota,
FL
Sarasota Municipal Auditorium,
Tamiami Trail
Fran Schlusemann, 11328 Rivers Bluff
Circle
Bradenton, FL 34202 (941) 739-0908
E-mail: hanksfran@aol.com

Feb. 23-24, 2008

ST. PETERSBURG SHELL SHOW,
Seminole, FL
Seminole Recreation Center, 9100
113th St. N.
Bob & Betty Lipe, 348 Corey Avenue
St. Pete Beach, FL 33706 (727) 391-
2197; FAX: 360-3668
E-mail: blipe@tampabay.rr.com
Exhibit form available at web site:
<http://web.tampabay.rr.com/shellclub>

Mar. 6-8, 2008

SANIBEL SHELL SHOW, Sanibel, FL
Sanibel Community Center, Periwinkle
Way

Anne Joffe, 1163 Kittiwake Circle
Sanibel, FL 33957-3605 (239) 472-
3151 E-mail: sanibelchiton@aol.com

Mar. 13-15, 2008

**MARCO ISLAND SHELL CLUB SHOW
XXV**, Marco Is., FL
Marco Presbyterian Church, Elkcam
Circle
Linda Scheckley, 348 Colonial Avenue
Marco Island, FL 34145 (239) 394-
5416

Jun. 14-15, 2008

JACKSONVILLE SHELL SHOW,
Jacksonville, FL
Morocco Shrine Temple, 3800 St.
Johns Bluff Road
Judy Blocker, 2109 Beach Avenue
Atlantic Beach, FL 32233-5932 (904)
246-4012

Jun. 29-Jul. 3, 2008

**AMERICAN MALACOLOGICAL
SOCIETY ANNUAL MEETING**,
Carbondale, IL
Southern Illinois University,
Carbondale, Illinois
Dr. Frank E. Anderson, Department of
Zoology
Southern Illinois University,
Carbondale, IL 62901
e-mail: feander@siu.edu (618) 453-
4136

Jul. 6-10, 2008

**CONCHOLOGISTS OF AMERICA
ANNUAL CONVENTION**, San
Antonio, Texas
Crowne Plaza Riverwalk Hotel, 111
Pecan Street East
Wanda Coker, 332 Banyan Street,
Lake Jackson, TX 77566 (979) 297-
0852
E-mail: shellman7000@sbglobal.net
Web site:
www.conchologistsofamerica.org