



SHELL-O-GRAM

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Programs

There will be no Jacksonville Shell Club (JSC) meeting this July. We hope members will be out in the field collecting and enjoying themselves in the long summer days. Let's gather some "Marine Observations" and share them at the August meeting.

On Thursday, August 27, the JSC will convene at the usual time (7:00 PM) and place (Southeast Branch, Jacksonville Public Library <<http://jpl.coj.net/lib/branches/se.html>>). The shell-of-the-month will be presented by Harry Lee. His choice will be made at the annual Conchologists of America (COA) convention in Weston, FL (July 12-18). It will be the most spectacular shell he observes at the scientific programs, oral and silent auctions, bourse, on the field trips, and in more impromptu encounters. Rick Edwards, who is also planning to attend, will do the photography. The main program will be given by Charlotte Thorpe, who is fresh back from a diving expedition to the Dominican Republic. Likely there'll be several living mollusks caught in natural poses by Char's well-honed underwater photographic skills.

President's Message

Dear JSC Members,

There is not much activity to mention for the club over the next couple of months, we are currently cruising in idle mode. Summer is upon us and for all of us currently living in Florida, the past few days have already brought on that incredibly warm and humid feeling. With that said, I am dreaming of shelling on the beach for some marine snails on a warm sunny day, shelling in the bush for some land snails after a good rain, or cruising down a nice cool river or creek with my snorkeling gear looking for some aquatics! I'd probably enjoy self propelling a jet back through the breeze, but it seems there have been no flying snails discovered as of yet, so I'll pass on that adventure for the time being. If there is anything I have learned, there is always something new to be discovered and "you don't know, if you don't go". Please feel free to join us at our meetings; we hold no secrets and are always looking forward to sharing with you where you just might find that shell you have been dreaming about!"

Brian Marshall
JSC President

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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.



The first known sinistral specimen of *Triodopsis messana* Hubricht, 1952, the Pin-hole Threetooth. Found exposed in the roadside swale on the south side of Faye Road between the roadway and the CSX Transportation railroad tracks GPS: 30.26142N 081.34496W [WGS-84 Datum], just west of the intersection of Alta Drive, Jacksonville, Duval County, Florida 7/16/2015. The sinistral specimen is about 13 mm. in maximum diameter. Collected and photographed by William M. Frank.

Anguispira picta, the Painted Tigersnail, revisited

Five years ago this issue Bob Winters of Sparta, TN contributed an interest paper on the lovely, rare, and endangered American landsnail *Anguispira picta* (G. Clapp, 1920) known also as the Painted Snake-coiled Forest Snail and (officially) the Painted Tigersnail. By accident Bob's surname was transmogrified into "Hinten" from Winters, and his companion figure could not be included for technical reasons. Here we offer an emended bibliographic citation and publish the photograph he intended to accompany the original report. Our apologies (and thanks) to Bob.

"Hinten, B." [Winters, B.], 2010. Finding Picta. *Shell-O-Gram* 51(4): 7. July. [.pdf version on-line at <<http://www.jaxshells.org/pdfs/julaug10.pdf>>].



Anguispira picta (G. Clapp, 1920) 20 mm. Below quarry at Sherwood, Franklin County, Tennessee Bob Winters!
12 August, 2009.



Anne DuPont, of Delray Beach, FL photographed this living **Jingle Shell (*Anomia simplex*)** originally attached to a bottle on the bottom of Lake Worth Lagoon near Blue Heron Bridge, Riviera Beach, Palm Beach Co., FL on July 21. Below we explore a bit of the history, natural and otherwise of this clam and its relatives, close and not so close.

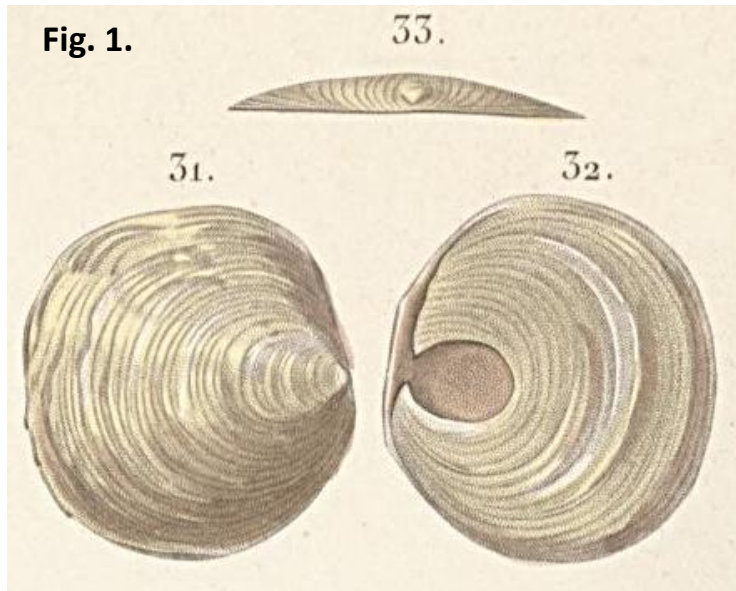
A snapshot of the Jingle Shell backstory

by Harry G. Lee

Anomia Linnaeus (1758: 700; <http://gdz.sub.uni-goettingen.de/dms/load/img/?PPN=PPN362053006&DMDID=DMDLOG_0047&LOGID=LOG_0047&PHYSID=PHYS_0704> [give or take a page or two]) has an interesting taxonomic and nomenclatorial history. Of the 28 species (23 in 1758) described by the master, only seven are bivalve mollusks (pelecypods), 20 are fossil and living brachiopods (superficially similar “bivalves”), and finally *A. sandalium* Linné, 1776, a fossil coral!

The type species, *A. ephippium* Linnaeus, 1758: 701 <http://gdz.sub.uni-goettingen.de/dms/load/img/?PPN=PPN362053006&DMDID=DMDLOG_0047&LOGID=LOG_0047&PHYSID=PHYS_0705> [give or take a page or two] was designated 60 years later (Schmidt, 1818: 71 <<http://biodiversitylibrary.org/page/46054247>>). The other six (molluscan) bivalve taxa include two synonyms of the type species (*A. cepa* and *A. electrica*), two other confamilials, the locally-occurring *A. squamula*, now assigned to the genus *Heteranomia* Winckworth, 1922, of which it is the type species, and the nomen dubium *A. patelliformis*, and two species currently placed somewhat unrelated genera, *Placunanomia placenta*, and the extinct oyster *Gryphaea gryphus* (Dodge, 1952: 197-203).

Anne's animal, *Anomia simplex* d'Orbigny, 1853: 367 <<http://biodiversitylibrary.org/page/43337617>>; pl. 28, figs. 31-33 [our **Fig. 1.**], is closely-related to *A. ephippium* – to the extent that some workers have considered them synonymous.



The Jingle Shell lives attached to hard surfaces in shallow marine habitats, but its shells are most commonly encountered on the beaches of our eastern seaboard, where many end up in shellcraft and wind chime creations. The two thin, translucent valves are dissimilar, the lower (right) valve being flat and more fragile and having a large perforation [no. 32.] through which a bundle of fleshy calcified byssal threads anchors the living animal to the substrate. Because of the greater fragility of the lower valves, they are much less commonly found on beaches than are the convex upper valves [no.

31.]. If the living animal attaches itself to another shell, the sculpture and shape of the upper (left) valve may resemble that of the shell to which it is attached, a typical instance being that of a scallop. The shape of the upper valve [no. 33] varies, but it is usually more convex than d'Orbigny's specimen.

In northeast Florida waters <<http://www.jaxshells.org/marine.htm>> we have two other members of the family Anomiidae, the Prickly Jingle, *Heteranomia squamula* (Linnaeus, 1758) mentioned above, and the generally larger *Pododesmus rudis* (Broderip, 1834) Atlantic Falsejingle, an offshore species commonly attached to sunken structures, e.g., shipwrecks, so often the raison d'être for popular SCUBA-diving destinations.

References:

Dodge, H., 1952. A historical review of the mollusks of Linnaeus. Part I. The classes Loricata and Pelecypoda. *Bulletin of the American Museum of Natural History* 100(1): 1-263.

d'Orbigny, A. 1853. *Mollusques. Histoire Physique, Politique et Naturelle de l'île de Cuba* 2: [iv] + 225-380, pls. 26-28[?]. <<http://biodiversitylibrary.org/page/43337249>>

Linnaeus, C., 1758. *Systema naturae per regna tria naturae, secundum classes, ordines, genera, species cum characteribus, differentiis, synonymis, locis. Tomus I. Editio decima, reformata.* Laurentius Salvius, Holmia (Stockholm). Pp. 1-823 + i. <http://gdz.sub.uni-goettingen.de/no_cache/dms/load/img/?IDDOC=265100>

Schmidt F.C., 1818, *Versuch über die beste Einrichtung zur Aufstellung: Behandlung und Aufbewahrung der verschiedenen Naturkörper und gegen tände der Kunst, vorzüglich der Conchylien-Sammlungen, nebst kurzer Beurtheilung der conchyliologischen Systeme und Schriften und einer tabellarischen Zusammenstellung und Vergleichung der sechs besten und neuesten conchyliologischen Systeme.* J. Perth, Gotha. 252 pp.

<<http://biodiversitylibrary.org/page/46054299>>

Species-level taxa of marginelliform snails (Marginellidae + Cystiscidae) recorded in the reverse-coiled (sinistral) condition.

by Harry G. Lee

Alphabetical by specific epithet:

- Glabella ansonae* Clover, 1973 [web; **Fig. 2**]
Marginella piperita albocincta G.B. Sowerby I, 1846 [Brian Hayes, pers. comm. 20 Oct., 2013]
Prunum amygdalum (Kiener, 1846)
Cryptospira angustata (G.B. Sowerby II, 1846)
Prunum apicnum (Menke, 1828)
Marginella aurantia Lamarck, 1822 [**Fig. 3.**]
Dentimargo aureocincta (Stearns, 1872)
Volvarina avena (Kiener, 1834)
Prunum "avenaceum" (Deshayes, 1844)"
Prunum cf. avellenum (Dall, 1881)
Marginella bairstowi G.B. Sowerby III, 1886 [web]
† *Prunum bellum* (Conrad, 1868)
† *Dentimargo bifidoplicata* (Edwards, 1854)
Volvarina bilineata (Krauss, 1848)
Bullata bullata (Born, 1878)
Prunum capense (Krauss, 1848)
Granulina clandestina (Brocchi, 1814)
† *Dentimargo crassula* (Deshayes, 1865)
† *Dentimargo crenulata* (Deshayes, 1865)
Prunum curtum (G.B. Sowerby I, 1832)
Hyalina cylindrica (G.B. Sowerby II, 1846)
Marginella desjardini Marche-Marshad, 1957
† *Stanzonia entomella* (Cossmann, 1889) [Mienis, 1992]
Volvarina effulgens (Reeve, 1865)
Marginella floccata G.B. Sowerby II, 1889 [web]
† *Protoginella fraudulenta* (Suter, 1917) [web]
Cryptospira elegans (Gmelin, 1791)
Closia giadae Cossignani, 2001 [web]
Marginella glabella (Linnaeus, 1758)
Granulina gofasi Smriglio & Marriottini, 1997 [*Idem*, 1997]
Marginella goodalli G.B. Sowerby I, 1825 [Belloccq, 1995]
Volvarina gracilis (C.B. Adams, 1851)
Prunum guttatum (Dillwyn, 1817)
Granulina hadria (Dall, 1889)
† *Granulina cf. hadria* (Dall, 1889)
Volvarina hirasei (Bavay, 1917) [web]
Austroginella johnstoni (Petterd, 1884)
Prunum keenii (Marrat, 1871) [web]
Prunum labiatum (Kiener, 1841)
Granulina cf. lavalleana (d'Orbigny, 1842)
Marginella limbata Lamarck, 1822
Marginella lineolata G.B. Sowerby III, 1886 [web]
- Hyalina lucida* (Marrat, 1877) [web]
Marginella lutea G.B. Sowerby II, 1889 [web]
Granulina margaritula (Carpenter, 1857)
Granulina marginata (Bivona, 1832) [Cossignani, 2006]
Gibberula miliaria (Linnaeus, 1758)
Cystiscus minutissimum (Tenison-Woods, 1876)
Volvarina mitrella (Risso, 1826)
Marginella mosaica G.B. Sowerby II, 1846 [web]
Austroginella muscaria (Lamarck, 1822)
Marginella nebulosa (Röding, 1798)
Volvarina obscura (Reeve, 1865)
Granulina occulta (Monterosato, 1869)
Marginella ornata Redfield, 1870
Granulina ovuliformis (d'Orbigny, 1841)
Persicula persicula (Linnaeus, 1758)
Prunum pellucidum (L. Pfeiffer, 1840)
Gibberula philippii (Monterosato, 1878)
Volvarina philippinarum (Redfield, 1848)
Marginella piperata Hinds, 1844
Prunum pruinosum (Hinds, 1844)
Prunum prunum (Gmelin, 1791)
Mesoginella pygmaea (G.B. Sowerby II, 1846)
Dentimargo reductus (Bavay, 1922) [web]
Marginella rosea Lamarck, 1822
Closia sarda (Kiener, 1834)
Marginella sebastiani Marche-Marchad & Rosso, 1979 [**Fig. 4.**]
Pugnus serrei (Bavay, 1911) [web]
† *Granulina s. stephaniae* (P. Da Costa, 1866) [Jansen]
Dentimargo suavis (Souverbie, 1859)
Prunum succinea (Conrad, 1846)
Volvarina taeniata (G.B. Sowerby I, 1846)
Prunum teverianum (Petit de la Saussaye, 1851)
Cryptospira tricineta (Hinds, 1844)
Mesoginella turbinata (G.B. Sowerby II, 1846) [web]
Granulina vanharenii (Aartsen, Menkhorst, & Gittenberger, 1984)
Cryptospira ventricosa (Hinds, 1844) [Rice, *vide infra*]
Prunum walvisianum (Tomlin, 1820)
Volvarina warrenii (Marrat, 1876) [web]
Marginella species
Volvarina species B [Redfern, 2001: no. 453] [web]

82 species-level taxa; 74 Recent (one disputed, one indeterminate) and 8 fossil (†):

Coover and Lee, 1989 (59 taxa)

“web” <<http://www.jaxshells.org/reverse.htm>> (16 taxa)

Other reported species-level taxa [as indicated with entry] (seven taxa)



Fig. 2. *Glabella ansonae*



Fig. 3. *Marginella aurantia*



Fig. 4. *Marginella sebastiani*

APPENDIX:

Inventory of sinistral Volutidae: 26 (sub)species, alphabetical by genus, then species; from Lee, 2009:

Alcithoe fusus (Quoy and Gaimard, 1833)
Alcithoe jaculoides Powell, 1924
Amoria dampieria Weaver, 1960
Amoria ellioti (G.B. Sowerby II, 1864)
Amoria grayi (Ludbrook, 1953)
Amoria turneri (Griffith and Pidgeon, 1834)
Amoria undulata (Lamarck, 1804)
Cymbiola cathcartiae (Reeve, 1850)
Cymbiola flavicans (Gmelin, 1791)
Cymbiola imperialis (Lightfoot, 1786)
Cymbiola nobilis (Lightfoot, 1786)
Cymbiola nivosa nivosa (Lamarck, 1804)
Cymbiola nivosa oblita (E.A. Smith, 1909)

Cymbiola magnifica (Gebauer, 1802)
Cymbiola rutila (Broderip, 1826)
Cymbiola vespertilio (Linnaeus, 1758)
Cymbiola complexa (Iredale, 1924)
Cymbium cymbium (Linnaeus, 1758)
Cymbium marmoratum (Link, 1807)
Melo aethiopica (Linnaeus, 1758)
Melo amphora (Lightfoot, 1786)
Melo broderipii (Griffith and Pidgeon, 1834)
Melo melo (Lightfoot, 1786)
Scaphella junonia (Lamarck, 1804)
Volutoconus grossi (Iredale, 1927)
Zidona dufresnei (Donovan, 1823)

Partial bibliography:

Coover, G.A. and H.G. Lee, 1989. A review of sinistrality in the family Marginellidae. *Marginella Marginalia* 6(1-2): 1-15. Jan.

Lee, H.G., 2009. Perversity among volutes. *Shell-O-Gram* 50(6): 3-5, 7. Nov.

<<http://www.jaxshells.org/novdec09.pdf>>

Rice, Tom, 2013. Personal communication on Conch-L listserv: <<http://www.listserv.uga.edu/cgi-bin/wa?A2=ind1307B&L=conch-l&P=R215>>



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