

Ensis directus Conr., abundant.
Spisula solidissima Dillw., fairly common.
Mulinia lateralis Say, scarce.
Lyonsia hyalina Conr., scarce.
Mya arenaria Linn., common.
Busycon canaliculata Say, fairly common.
Busycon carica Gmel., fairly common.
Nassa trivittata Say, fairly common.
Nassa obsoleta Say, very abundant.
Nassa vibex Say, scarce.
Astyris lunata Say, scarce.
Eupleura caudata Say, scarce.
Urosalpinx cinereus Say, common.
Odostomia trifida Totten, scarce.
Bittium nigrum Stimp, common.
Litorina rudis Donovan., common.
Litorina littorea Linn., very common.
Crepidula fornicata Linn., common.
Crepidula plana Say, common.
Crepidula convexa Say, scarce.
Neverita duplicata Say, fairly common.
Chaetopleura apiculata Say, scarce (usually on oysters).

A LIST OF THE LAND SHELLS OF LEE COUNTY, FLORIDA.

BY E. G. VANATTA.

The following species were collected in Lee County, Florida, by Mr. Clarence B. Moore. The smaller forms were picked from leaf-mould sent in bags, each with the exact locality carefully marked on it.

Practically nothing has been known hitherto of the land-snail fauna between Key Marco and Cape Florida, the Ten Thousand Island region being accessible only to the collector cruising in his own boat.

It is interesting to note the occurrence of *Bifidaria rhoadsi* Pils. and *Vertigo variolosa* Gld. on the west coast of Florida; also that many of the shells of *Zonitoides minuscula* Binn. have internal

laminæ or teeth. The use of the name *Euglandina rosea* Fér. instead of *Glandina truncata* has been explained by Dr. Pilsbry in the last number of the Manual of Conchology, p. 191. All the specimens listed are in the collection of the Academy of Natural Sciences of Philadelphia.

Blue Hill Id., near Goodland Point, Marco Key.

Truncatella bilabiata Pfr.
Thysanophora selenina Gld.
Polygyra cereolus f. *carpenteriana* Bld.
Polygyra uvulifera Shutt.
Drymæus multilineatus Say.
Euglandina rosea Fer.
Euglandina rosea parallela Binn.

Buttonwood Key.

Polygyra cereolus f. *carpenteriana* Bld.
Bifidaria p. hordeacella Pils.
Bifidaria rupicola Say.
Zonitoides singleyana Pils.

Chokoloskee Key.

Pupoides modicus Gld.
Bifidaria rupicola Say.
Zonitoides minuscula Binn.

Dismal Key.

Truncatella bilabiata Pfr.
Helicina orbiculata Say.
Thysanophora plagiptycha Shutt.
Polygyra cereolus f. *carpenteriana* Bld.
Strobilops hubbardi A. D. Brown.
Pupoides modicus Gld.
Bifidaria rhoadsi Pils.
Bifidaria p. hordeacella Pils.
Bifidaria rupicola Say.
Microceramus floridanus Pils.
Euglandina rosea parallela Binn.
Vitrea dalliana 'Simpson' Pilsbry.
Guppya gundlachi Pfr.
Zonitoides minuscula Binn.
Zonitoides singleyana Pils.

Fakahatchee Key.

Truncatella bilabiata Pfr.
Helicina orbiculata Say.
Thysanophora selenina Gld.
Polygyra cereolus f. *carpenteriana* Bld.
Pupoides modicus Gld.
Bifidaria rupicola Say.
Microceramus floridanus Pils? (young).
Drymæus (young *multilineatus* Say?)
Drymæus dominicus Rve.
Euglandina rosea Fer.
Euglandina rosea parallela Binn.
Vitrea dalliana 'Simp.' Pils.
Guppya gundlachi Pfr.
Zonitoides minuscula Binn.

Georgia Fruit Company's land, S. of Marco.

Praticolella jejuna Say.
Vitrea dalliana 'Simp.' Pils.
Guppya gundlachi Pfr.

Gilberts (near Matanzas Pass).

Polygyra cereolus f. *carpenteriana* Bld.
Pupoides modicus Gld.
Bifidaria p. hordeacella Pils.
Bifidaria rupicola Say.
Vitrea dalliana 'Simp.' Pils.
Guppya gundlachi Pfr.
Zonitoides minuscula Binn.
Zonitoidesingleyana Pils.

Goodland Point, Marco Key.

Polygyra c. f. carpenteriana Bld.
Bifidaria p. hordeacella Pils.
Euglandina rosea Fer. (near *parallela* Binn.)
Zonitoides minuscula Binn.
Succinea floridana Pils.

Little Marco.

Truncatella caribæensis succinea C. B. Ad.
Truncatella bilabiata Pfr.

Helicina orbiculata Say.
Helicina orbiculata var. *clappi* Pils. Mss.
Thysanophora plagiptycha Shutt.
Polygyra cereolus f. *carpenteriana* Bld.
Polygyra uvulifera Shutt.
Bifidaria contracta Say.
Bifidaria p. *hordeacella* Pils.
Bifidaria rupicola Say.
Vertigo variolosa Gld.
Microceramus floridanus Pils.
Euglandina r. *parallela* Binn.
Vitrea indentata Say.
Vitrea dalliana 'Simp' Pils.
Guppya gundlachi Pfr.
Zonitoides minuscula Binn.
Zonitoides singleyana Pils.

Marco, N. end of Marco Key

Polygyra cereolus f. *carpenteriana* Bld.
Bifidaria p. *hordeacella* Pils.
Bifidaria rupicola Say.
Euglandina rosea Fer.
Euglandina rosea parallela Binn.
Vitrea dalliana 'Simp.' Pils.
Guppya gundlachi Pfr.

Mound Key, Estero Bay.

Truncatella caribæensis succinea C. B. Ad.
Truncatella bilabiata Pfr.
Helicina orbiculata Say.
Thysanophora plagiptycha Shutt.
Polygyra cereolus f. *carpenteriana* Bld
Pupoides modicus Gld.
Bifidaria contracta Say.
Bifidaria p. *hordeacella* Pils.
Bifidaria rupicola Say.
Euglandina rosea parallela Binn.
Euglandina rosea minor Binn.
Guppya gundlachi Pfr.
Zonitoides minuscula Binn.
Succinea floridana Pils.

Nameless Key (Mr. Addison's) two miles east of Marco.

Helicina orbiculata Say.
Thysanophora selenina Gld.
Polygyra cereolus f. *carpenteriana* Bld.
Pupoides modicus Gld.
Bifidaria contracta Say.
Bifidaria p. *hordeacella* Pils.
Bifidaria rupicola Say.
Microceramus floridanus Pils.
Euglandina rosea parallela Binn.
Vitrea dalliana 'Simp' Pils.
Guppya gundlachi Pfr.
Zonitoides minuscula Binn.
Zonitoides singleyana Pils.

Near Punta Rassa.

Truncatella bilabiata Pfr.
Polygyra cereolus f. *volvoxis* Pfr.
Euglandina rosea parallela Binn.

Aboriginal shell-heap about one mile east of St. James, Pine Island.

Truncatella clathrus Lowe.
Truncatella caribæensis 'Sby.' Rve.
Truncatella caribæensis succinea C. B. Ad.
Truncatella bilabiata Pfr.
Praticolella jejuna Say.
Polygyra cereolus f. *volvoxis* Pfr.
Bifidaria p. *hordeacella* Pils.
Bifidaria rupicola Say.
Guppya gundlachi Pfr.
Zonitoides minuscula Binn.
Zonitoides singleyana Pils.

Pine land, N. W. end of Pine Island.

Helicina orbiculata Say.
Bifidaria contracta Say.
Bifidaria p. *hordeacella* Pils.
Bifidaria rupicola Say.
Euglandina rosea Fer. near var. *parallela* Binn.
Guppya gundlachi Pfr.
Zonitoides minuscula Binn.

N. E. end Pine Island, Lee Co., Florida.

Euglandina rosea parallela Binn.

Russell's Key.

Helicina orbiculata Say.

Helicina orbiculata var. *clappi* Pils. Mss.

Thysanophora selenina Gld.

Thysanophora plagioptycha Shutt.

Polygyra cereolus f. *carpenteriana* Bld.

Pupoides modicus Gld.

Bifidaria p. hordeacella Pils.

Bifidaria rupicola Say.

Microceramus floridanus Pils.

Euglandina rosea parallela Binn.

Guppya gundlachi Pfr.

Zonitoides arborea Say.

Zonitoides singleyana Pils.

Turner Place, Turner River (a key near Chokoloskee).

Truncatella bilabiata Pfr.

Polygyra cereolus f. *carpenteriana* Bld.

Polygyra uvulifera Shutt.

Bifidaria rupicola Say.

Microceramus floridanus Pils.

Euglandina rosea parallela Binn.

Vitrea indentata Say.

Zonitoides minuscula Binn.

About five miles up Whitney River (mainland).

Polygyra cereolus f. *carpenteriana* Bld.

Bifidaria rupicola Say.

Euglandina rosea parallela Binn.

Guppya gundlachi Pfr.

Wiggins' Key, Sandfly Pass.

Euglandina rosea parallela Binn.

Lossman's Key.

Euglandina rosea minor Binn.



Vanatta, E. G. 1908. "A list of the land shells of Lee County, Florida." *The Nautilus* 21, 99–104.

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