

Outreach Activities Associated with the PALEONICHES TCN



Jonathan R. Hendricks

jonathan.hendricks@sjsu.edu

Dept. of Geology, San Jose State University

TCN Overview

PALEONICHES-TCN: Digitizing Fossils to Enable New Syntheses in Biogeography

TCN PI's: Bruce Lieberman (Univ. Kansas), Alycia Stigall (Ohio Univ.), Jonathan Hendricks (SJSU)

PEN (Partners to Existing Networks) PI's: Ann Molineux (UT-Austin), and Derek Briggs (Yale Univ.).

Time intervals and institutions:

- **Cambrian-Ordovician:** Ohio Univ., Miami Univ., Cincinnati Museum Center, UT-Austin, Yale Univ.
- **Pennsylvanian:** Univ. Kansas, UT-Austin, Yale Univ.
- **Paleogene-Neogene:** Florida Museum of Natural History, UT-Austin

TCN Education & Outreach Components

- 1) The Digital Atlas of Ancient Life
- 2) K-12 and post-secondary activities associated with the Digital Atlas

The Digital Atlas of Ancient Life



New digital “field guides” to help members of the public (and scientific community!):

- Identify fossils from particular regions
- Explore ancient biodiversity patterns
- Understand how species ranges vary over geological time scales, including in response to environmental changes

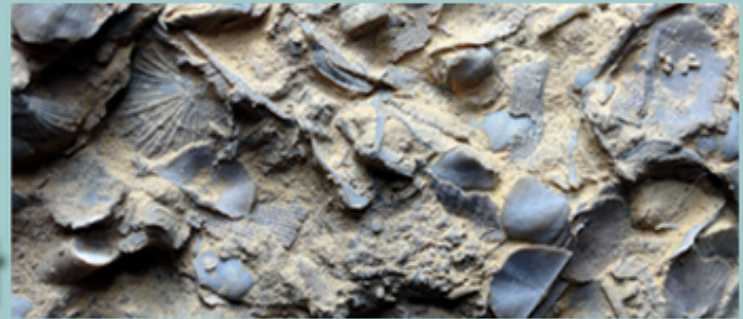
Atlas content (occurrence data, images, etc.) derived from digitization efforts associated with TCN.



The Digital Atlas of Ordovician Life

Exploring the Fauna of the Cincinnati Region

The Digital Atlas of Pennsylvanian Life: American Midcontinent



The Digital Atlas of Neogene Life: Southeastern U.S.



The Digital Atlas of Neogene Life

The Digital Atlas of Neogene Life: Southeastern U.S.



[Home](#) [Atlas](#) [Geology](#) [Other Information](#)

Chicoreus floridanus

Classification

Phylum: Mollusca

Class: Gastropoda

Family: Muricidae

Genus: *Chicoreus*

Species: *Chicoreus floridanus*

(Vokes, E., 1965)



Geological Range

Late Pliocene to Late Pleistocene; Extinct

Stratigraphic Occurrences

Late Pleistocene:

Panlico Fm. (S. FL)

Middle Pleistocene:

Bermont Fm. (S. FL)

Early Pleistocene:

Caloosahatchee Fm. (S. FL)

Nashua Fm. (N. FL)

Waccamaw Fm. (SC, NC)

Late Pliocene:

Jackson Bluff Fm. (N. FL)

Tamiami Fm. (Murdoch Station Member) (S. FL)

Tamiami Fm. (Pinecrest Beds) (S. FL)

Paleogeographic Distribution

Southern Florida to North Carolina.

Late Pleistocene Map



Middle Pleistocene Map



Early Pleistocene Map



Late Pliocene Map



Photographs



Chicoreus floridanus from the Late Pliocene Tamiami Fm. (Pinecrest Beds) of Sarasota County, Florida (UF 137760).

©2000 *Chicoreus floridanus* UF137760 by The Digital Atlas of Ancient Life is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported License](#).

The Digital Atlas of Neogene Life:



Paleogeographic Distribution

Southern Florida to North Carolina.

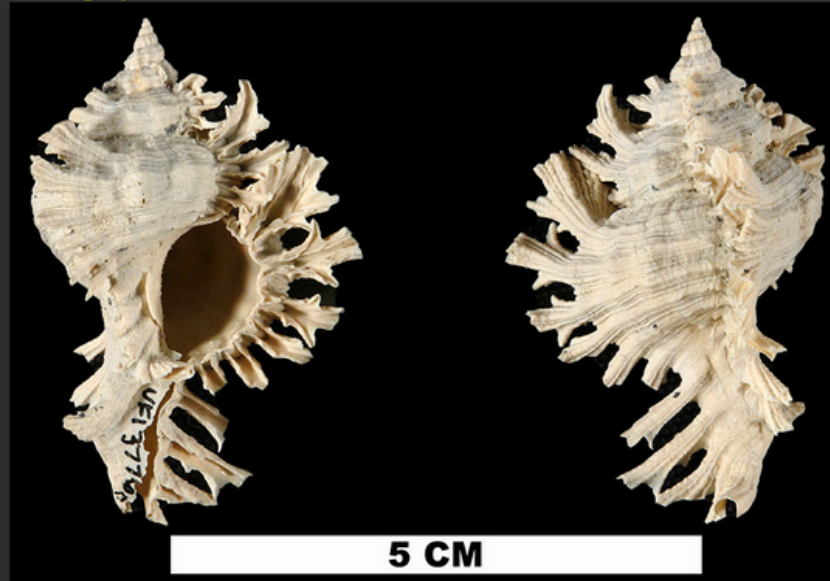
Late Pleistocene Map



Middle Pleistocene Map



Photographs



Chicoreus floridanus from the Late Pliocene Tamiami Fm. (Pinecrest Beds) of Sarasota County, Florida (UF 137760).



Chicoreus floridanus UF137760 by The Digital Atlas of Ancient Life is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported License](#).

The Digital Atlas of Neogene Life: Southeastern U.S.



~ 200 of 500 planned Neogene Digital Atlas
pages have been completed.



Resources for Teachers

We are planning to develop a number of classroom (or take-home) exercises for educators that will utilize the Digital Atlases to address topics that are aligned with Common Core and/or Next Generation Science Standards.

Examples might include:

- Online scavenger hunts (e.g., “Can you find a snail that coils to the left?”)
- Based on the fossils present, how has a region changed over time?
- Simplified analyses of diversity change over time, including relationship(s) to environmental change.

Thank You!

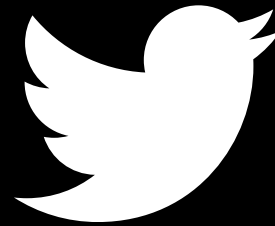
- iDigBio for organizing this workshop.
- NSF for supporting our PALEONICHES-TCN.



The Digital Atlas of Ancient Life



try it
out!



**Follow us
on
Twitter!**
@PaleoDigAtlas