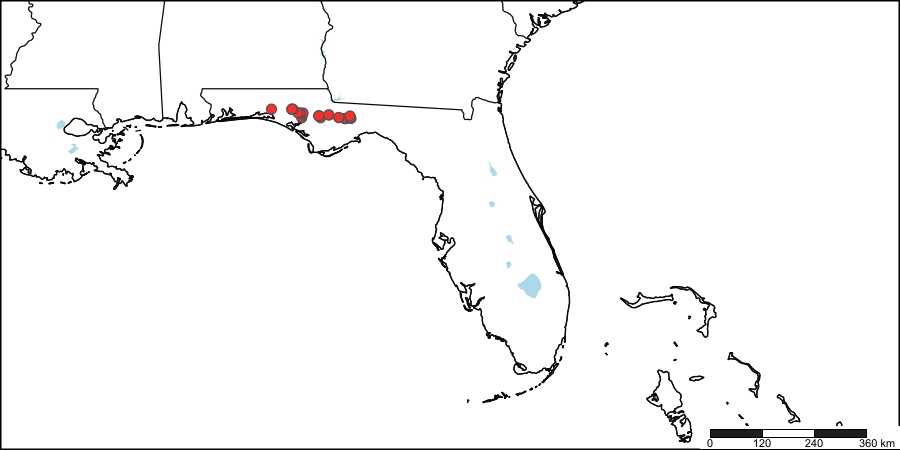


Duplin Formation

South Caroline and

North Carolina

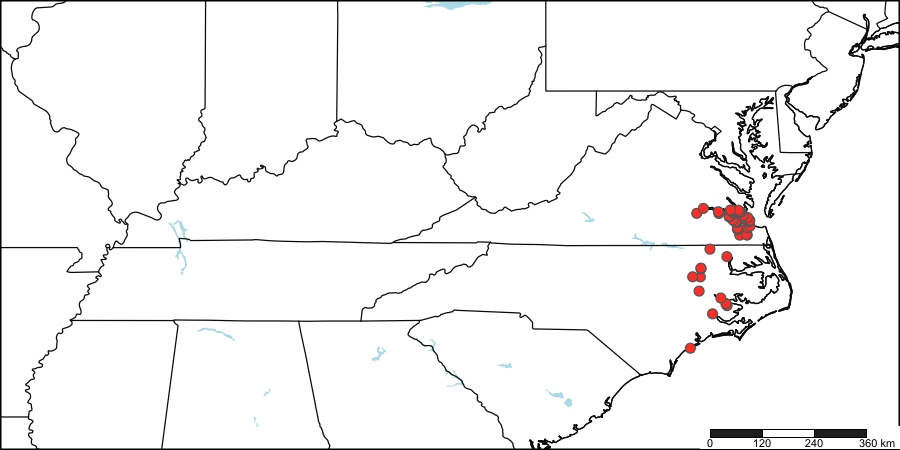
~3 million years old



Jackson Bluff Formation

Northern Florida Panhandle

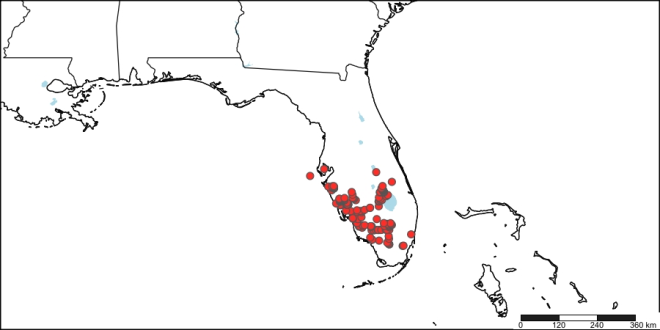
~3 million years old



Yorktown Formation

North Carolina and Virginia

~3 million years old



Tamiami Formation

Southern Florida

~3 million years old

**Location Series Maps**



Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Species Through Time: Location Data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Group | Species | Tamiami Fm. | Jackson Bluff Fm. | Duplin Fm. | Yorktown Fm. |
|  |  | ~3 million y.o. | ~3 million y.o. | ~3 million y.o. | ~3 million y.o. |
| Gastropods | *Conus adversarius* | 2810 | 284 |  |  |
|  | *Conasprella marylandica* | 202 | 6 |  |  |
|  | *Fusinus equalis* |  |  |  |  |
|  | *Neverita duplicata* |  |  |  |  |
|  | *Turritella subannulata* |  |  |  |  |
|  | *Xenophora floridana* |  |  |  |  |
| Bivalves | *Chesapecten jeffersonius* |  |  |  |  |
|  | *Crassostrea virginica* |  |  |  |  |
|  | *Lucina pensylvanica* |  |  |  |  |
|  | *Panchione ulocyma* |  |  |  |  |
|  | *Planicardium virginianum* |  |  |  |  |
| Corals | *Manicina areolata* |  |  |  |  |

Which location has the greatest diversity of species? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In which location have the most fossils been found? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which five species have been found in greatest abundance overall?

1) 2) 3) 4) 5)

Put the five most common species for each location in order from most abundant to least abundant:

Tamiami

1)

2)

3)

4)

5)

Jackson Bluff

1)

2)

3)

4)

5)

Duplin

1)

2)

3)

4)

5)

Yorktown

1)

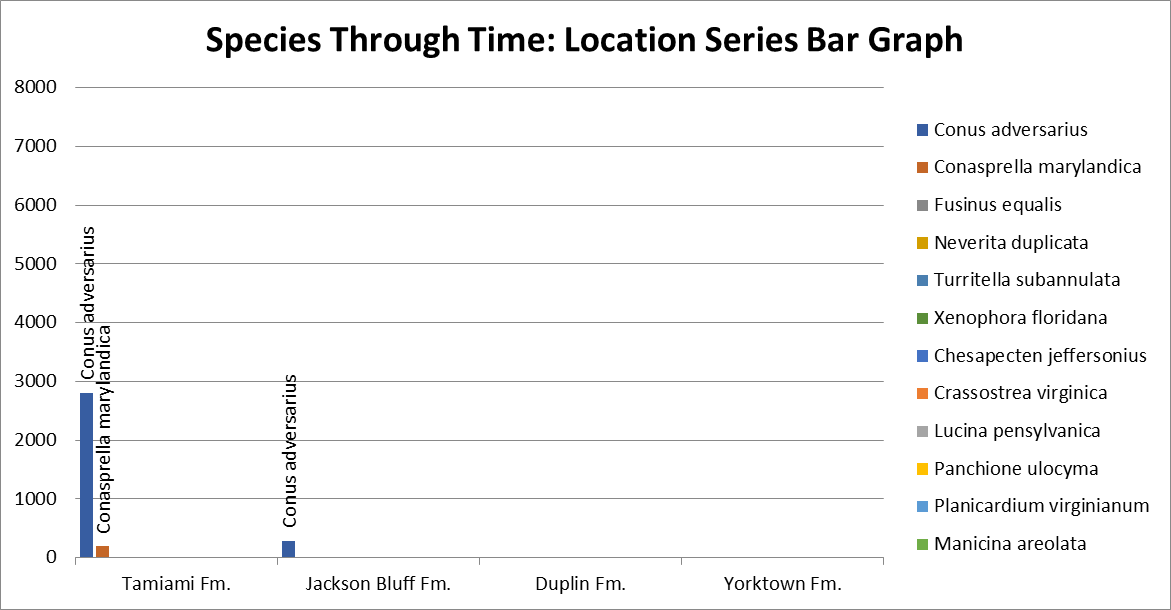
2)

3)

4)

5)

Are the most common species the same at each location? What are the similarities and differences?

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| **Species Through Time: Location Series Data** | | | |
| **Tamiami Formation**  **(Pinecrest Beds):**  **Southern Florida**  Late Pliocene  ~3 million years old  1,741 invertebrate species  241,963 specimens  **Gastropods**  *Conus adversarius*: 2810  *Conasprella marylandica*: 202  *Fusinus equalis*: 50  *Neverita duplicata*: 958  *Turritella subannulata*: 267  *Xenophora floridana*: 399  **Bivalves**  *Chesapecten jeffersonius*: 2  *Crassostrea virginica*: 164  *Lucina pensylvanica*: 1124  *Panchione ulocyma*: 457  *Planicardium virginianum*: 41  **Corals**  *Manicina areolata*: 68 | **Jackson Bluff Formation: Northern Florida Panhandle**  Late Pliocene  ~3 million years old  896 invertebrate species  133,215 specimens  **Gastropods**  *Conus adversarius*: 284  *Conasprella marylandica*: 6  *Fusinus equalis*: 4  *Neverita duplicata*: 264  *Turritella subannulata*: 13  *Xenophora floridana*: 127  **Bivalves**  *Chesapecten jeffersonius*: 6  *Crassostrea virginica*: 2  *Lucina pensylvanica*: 0  *Panchione ulocyma*: 7580  *Planicardium virginianum*: 175  **Corals**  *Manicina areolata*: 0 | **Duplin Formation:**  **South Carolina and North Carolina**  Late Pliocene  ~3 million years old  668 invertebrate species  39,499 specimens  **Gastropods**  *Conus adversarius*: 531  *Conasprella marylandica*: 31  *Fusinus equalis*: 20  *Neverita duplicata*: 68  *Turritella subannulata*: 1  *Xenophora floridana*: 0  **Bivalves**  *Chesapecten jeffersonius*: 0  *Crassostrea virginica*: 16  *Lucina pensylvanica*: 9  *Panchione ulocyma*: 0  *Planicardium virginianum*: 0  **Corals**  *Manicina areolata*: 0 | **Yorktown Formation:**  **North Carolina and Virginia**  Late Pliocene  ~3 million years old  633 invertebrate species  37,878 specimens  **Gastropods**  *Conus adversarius*: 17  *Conasprella marylandica*: 460  *Fusinus equalis*: 0  *Neverita duplicata*: 124  *Turritella subannulata*: 0  *Xenophora floridana*: 0  **Bivalves**  *Chesapecten jeffersonius*: 755  *Crassostrea virginica*: 13  *Lucina pensylvanica*: 0  *Panchione ulocyma*: 0  *Planicardium virginianum*: 42  **Corals**  *Manicina areolata*: 0 |