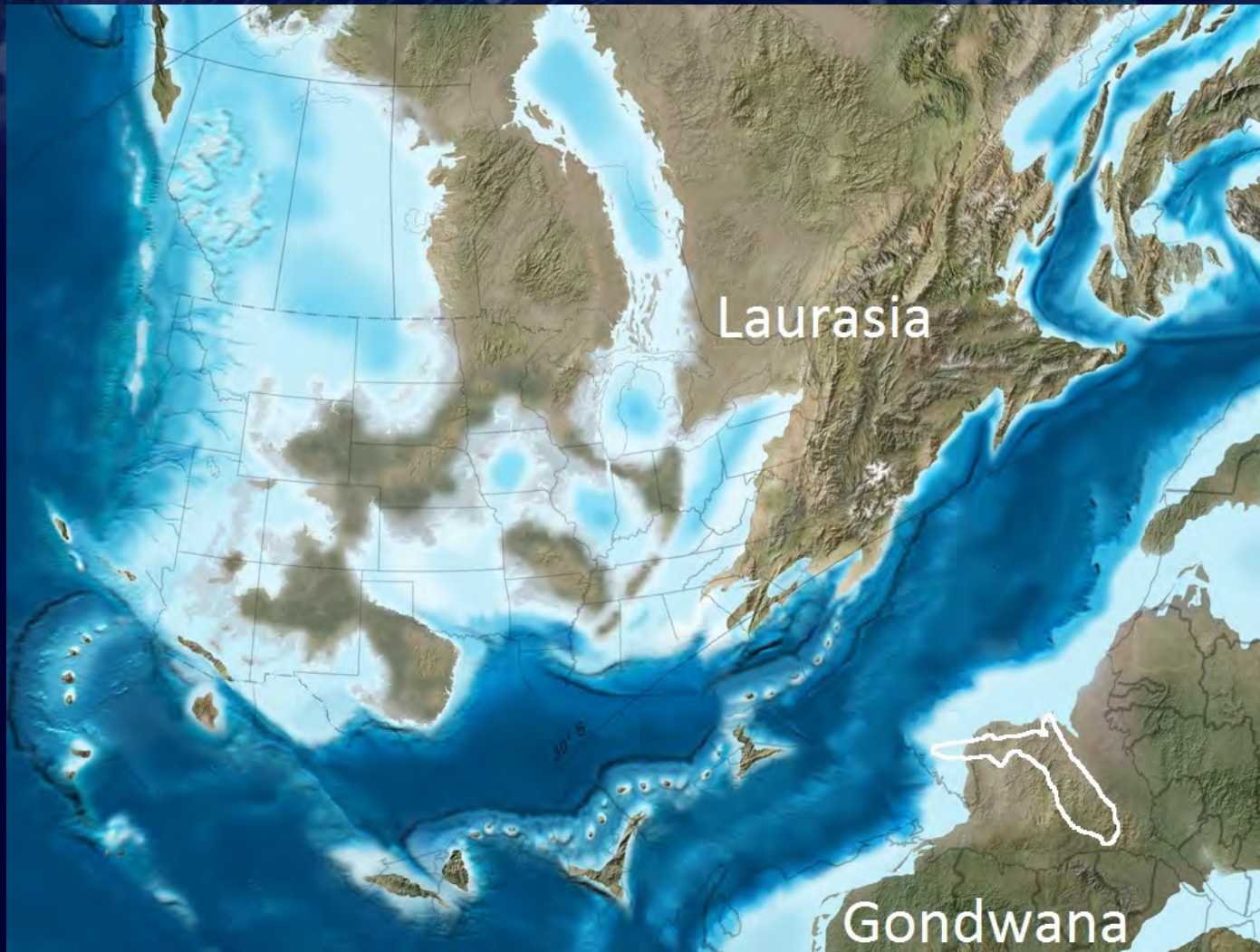


Geology, Lithology and Dredging in Florida

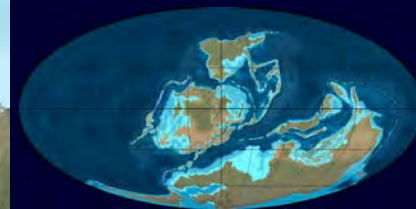
Presented by: William J. Wetta, P.E.



Geologic Formation of Florida



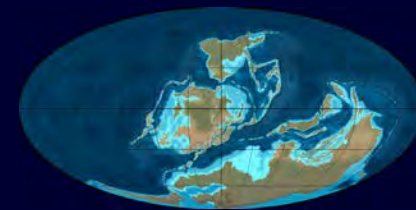
Late Devonian
Period 375
million years
ago



Geologic Formation of Florida



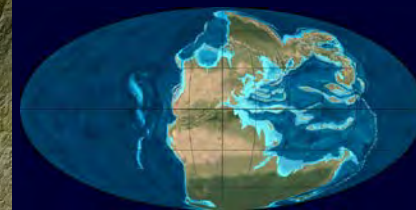
Late Devonian
Period 375
million years
ago



Geologic Formation of Florida



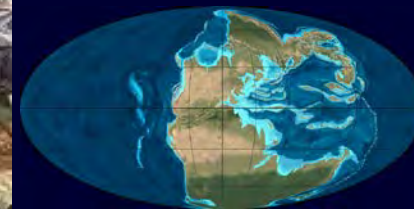
Early Triassic
Period 245
million years
ago



Geologic Formation of Florida



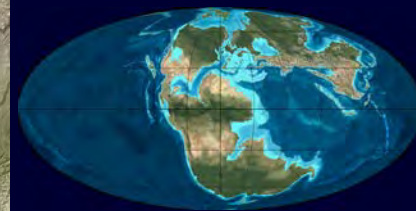
**Early Triassic
Period 245
million years
ago**



Geologic Formation of Florida



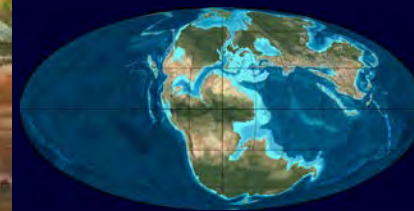
**Middle Jurassic
Period 170
million years
ago**



Geologic Formation of Florida



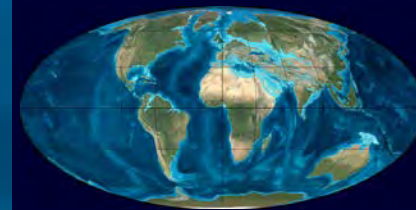
**Middle Jurassic
Period 170
million years
ago**



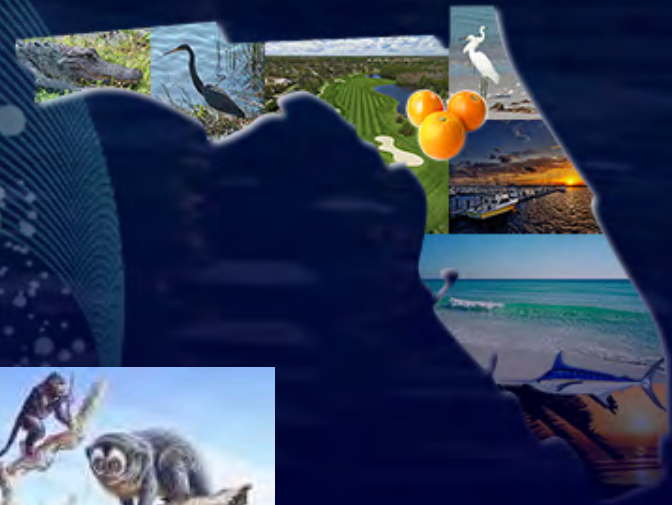
Geologic Formation of Florida



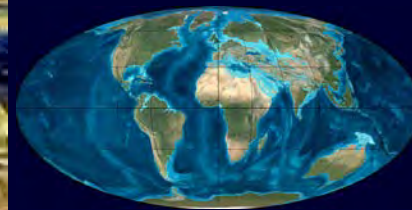
**Middle Tertiary
Period 35 million
years ago**



Geologic Formation of Florida



**Middle Tertiary
Period 35 million
years ago**



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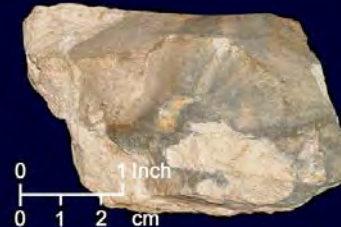
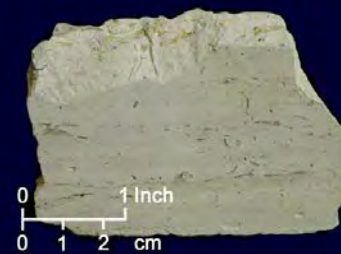


Lithology of Modern Florida

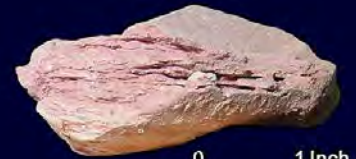
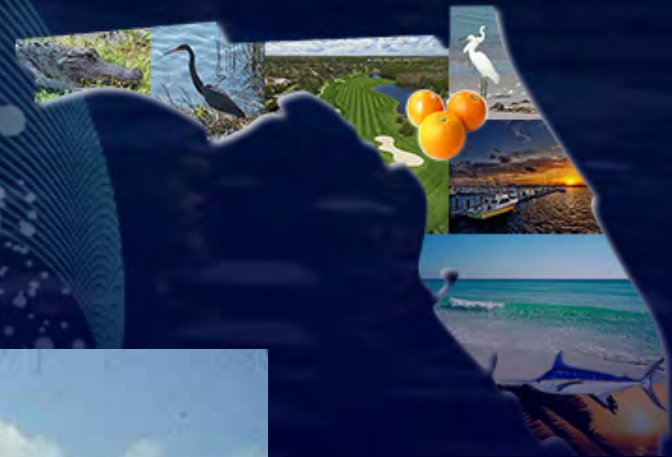


- Limestone
- Dolostone
- Chert
- Coquina
- Clay
- Sand
- Ilmenite
- Staurolite
- Rutile
- Zircon
- Phosphate Rock

Lithology of Modern Florida



Lithology of Modern Florida



0 1 2 cm
0 1 2 cm

0 1 2 cm
0 1 2 cm



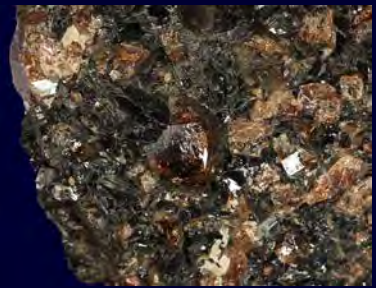
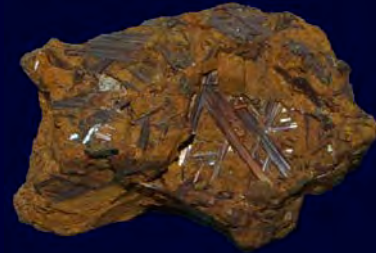
0 1 2 cm
0 1 2 cm



Lithology of Modern Florida



Lithology of Modern Florida



Lithology of Modern Florida



Lithology of Modern Florida



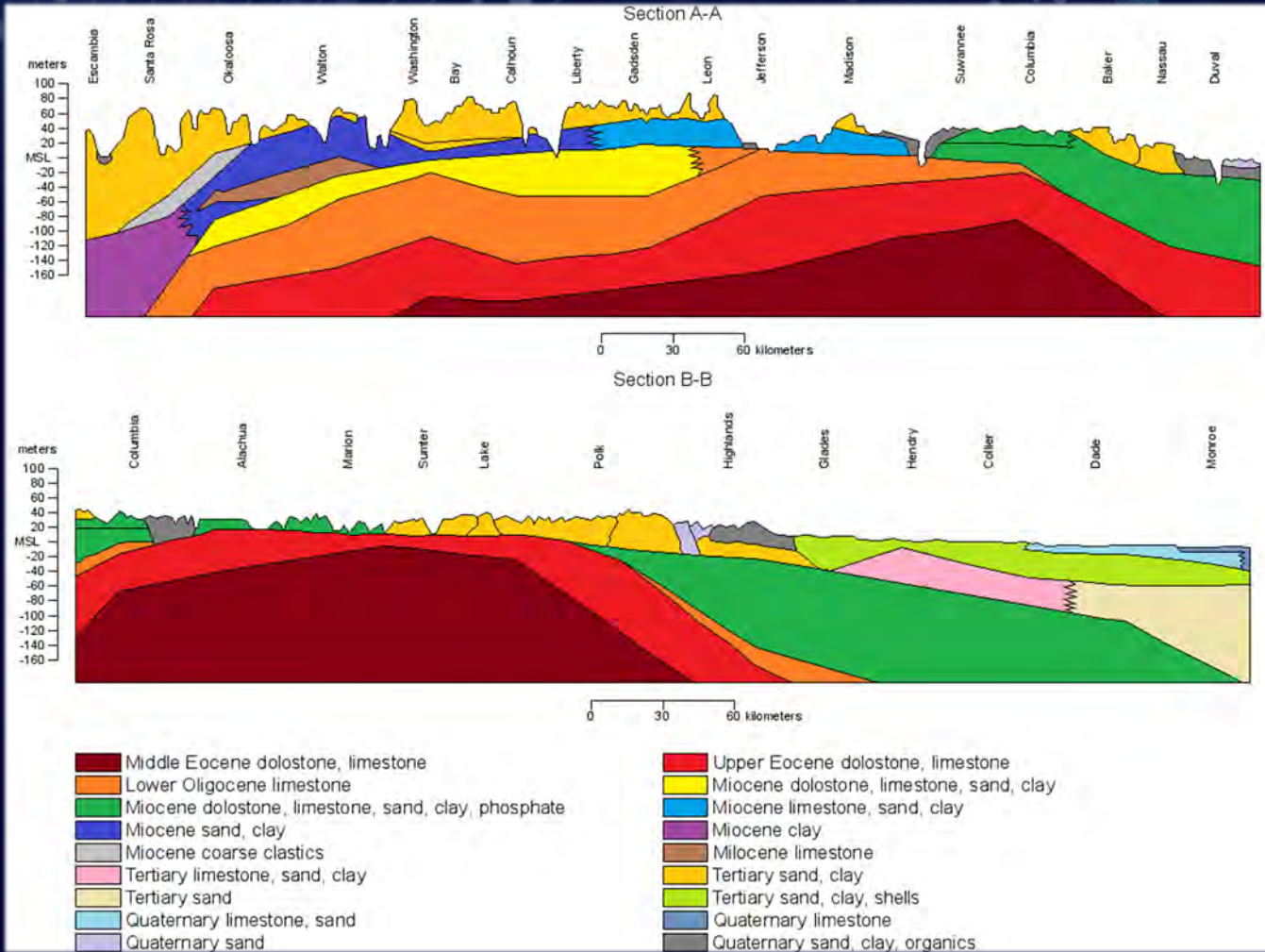
LEGEND	
—	County boundary
★	Capital
•	City
1	Crushed stone/sand and gravel districts
MINERAL SYMBOLS (Major producing areas)	
<u>Cem</u>	Cement plant
Clay	Common clay
CS	Crushed stone
Ful	Fuller's earth
Gyp	Gypsum
Gyp-s	Synthetic gypsum
IS	Industrial sand
Ka	Kaolin
<u>Lime</u>	Lime plant
<u>MoCo</u>	Magnesium compound plant
P	Phosphate rock
Peat	Peat
<u>Per</u>	Perlite plant
S-ng	Sulfur (natural gas)
SG	Construction sand and gravel
Shell	Shell
<u>Steel</u>	Steel plant
Ti	Titanium minerals
<u>Vm</u>	Vermiculite plant
Zr	Zirconium
○	Concentration of mineral operations



Source: Florida Geological Survey/U.S. Geological Survey (2004)



Lithology of Modern Florida



Dredging in Florida



Dredging for Mineral Sands



WODCON XXI Proceedings

Dredging in Florida



Dredging for Navigation



WODCON XXI Proceedings

Dredging in Florida



Dredging for Recreation

Dredging in Florida



Dredging for the Environment





Any Questions?

Presented by William J. Wetta, P.E.

DSC Dredge LLC

