Open-File Map Series 112, Plate 2
*See Open-File Report 109 for accompanying text

This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program

Florida Department of Environmental Protection
Florida Geological Survey

Jonathan D. Arthur
State Geologist and Director

OPEN-FILE MAP SERIES 112, Plate 2
GEOLOGIC CROSS-SECTIONS FOR THE USGS VERO BEACH 30 X 60 MINUTE QUADRANGLE, CENTRAL FLORIDA
2021

BY
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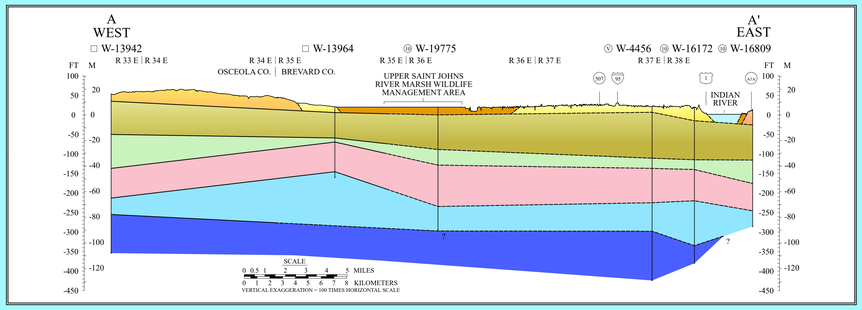
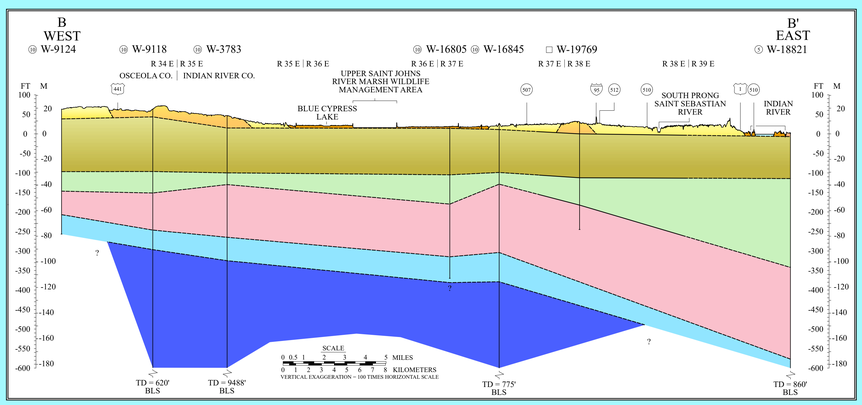
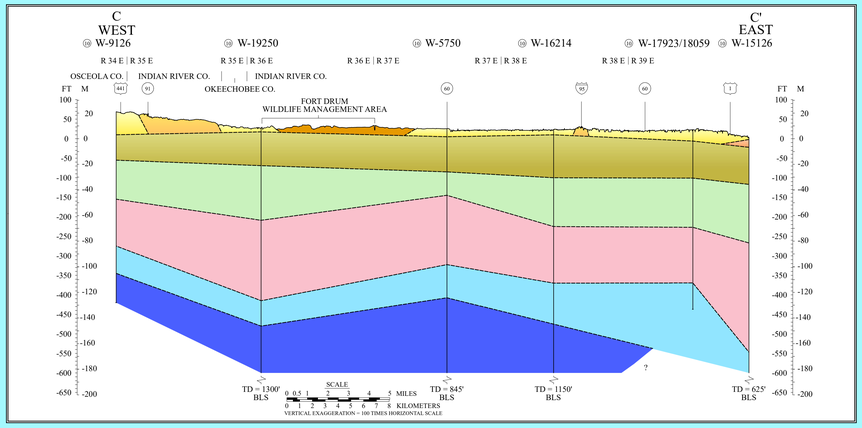
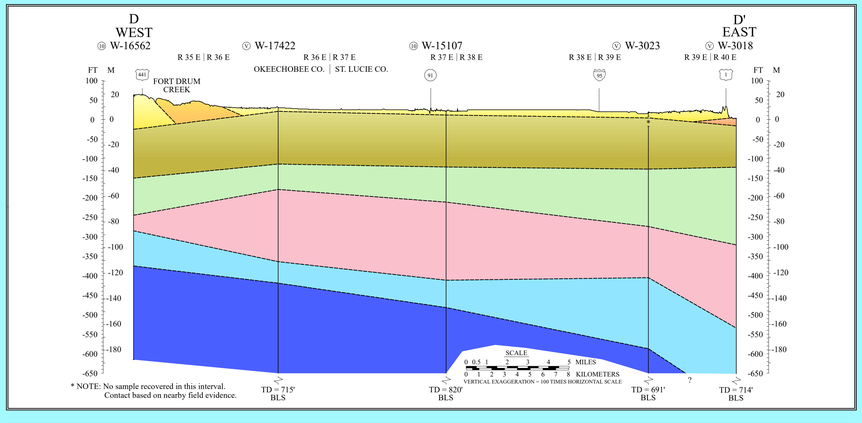
CRYSTAL L. HEBETS, GARRETT S. EVANS, AND CASEY K. ALBRITTON, P.G.

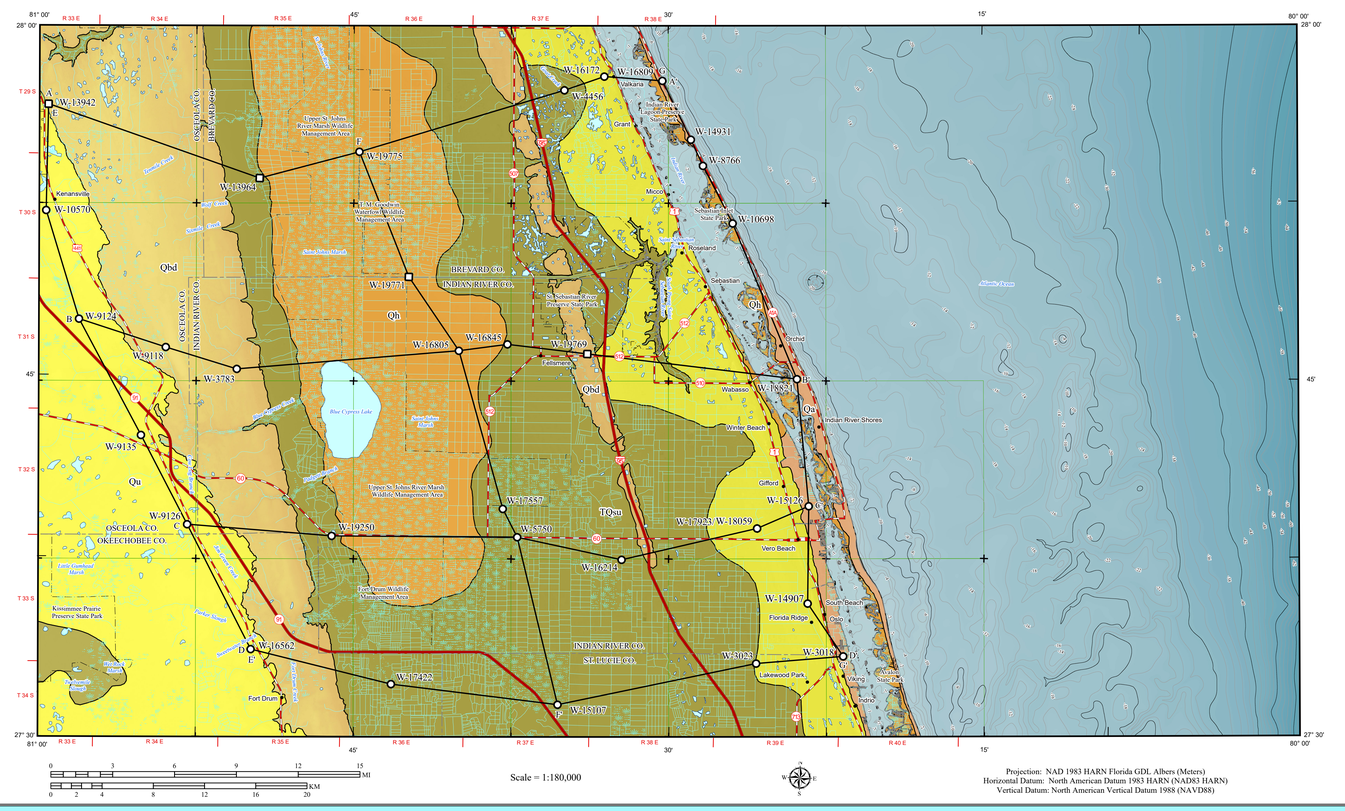








* NOTE: No sample recovered in this interval. Contact based on nearby field evidence.



Legend

Map Units

- Qh — Holocene sediments
- Qbd — Quaternary beach ridge and dune
- Qu — Undifferentiated Quaternary sediments
- Qa — Anastasia Formation
- TQsu — Undiff. Tertiary/Quaternary shelly sediments
- Thp — Hawthorn Group, Peace River Formation
- Tha — Hawthorn Group, Arcadia Formation
- To — Ocala Limestone
- Tap — Avon Park Formation
- Spoil

Cross-Sections

- Qh
- Qbd
- Qu
- Qa
- TQsu
- Thp
- Tha
- To
- Tap

- Core
- Cuttings
- Cross-section line
- City/town
- County boundary
- USGS 1:24,000 Quadrangle
- USGS 1:24,000 Quadrangle tick mark
- Primary highway
- Secondary highway
- State lands and parks
- Waterbody
- Wetland
- River or stream
- Bathymetry (2m) Index / Intermediate
- Roads

7°01'
MAGNETIC NORTH
TRUE NORTH
APPROXIMATE MEAN DECLINATION, 2021

Cross-Sections Legend

- Contact
- Inferred contact
- TD — Total depth
- BLS — Below land surface
- Sample interval in feet
- Variable sample interval

1:24,000 QUADRANGLE GRID

Figure 2. Correlation of stratigraphic units.

ERATHEM	SYSTEM	SERIES	AGE (m.y.)	LITHOSTRATIGRAPHIC UNIT	HYDRO-GEOLOGIC UNIT
CENOZOIC	QUATERNARY	HOLOCENE	0.01	HOLOCENE SEDIMENTS / BEACH RIDGE and DUNE SEDIMENTS; UNDIFFERENTIATED SHELLY SEDIMENTS	SURFICIAL AQUIFER SYSTEM (SAS)
		PLEISTOCENE	2.6		
	TERTIARY — NEOGENE	PLIOCENE	5.3	UNDIFFERENTIATED SHELLY SEDIMENTS; HAWTHORN GROUP: PEACE RIVER FORMATION, ARCADIA FORMATION	INTERMEDIATE AQUIFER SYSTEM/ INTERMEDIATE CONFINING UNIT (IAS/ICU)
		MIOCENE	23.0		
	TERTIARY — PALEOGENE	OLIGOCENE	33.9	OCALA LIMESTONE	FLORIDAN AQUIFER SYSTEM
		EOCENE		AVON PARK FORMATION	UPPER FLORIDAN AQUIFER

ADJOINING MAPS

1	2
3	
4	5

1 Kissimmee (OFMS 110)
2 Cape Canaveral
3 Bartow (OFMS 111)
4 Arcadia (OFMS 87/88)
8 Fort Pierce (to be mapped in 2021)

For more information or to order maps contact Librarian:
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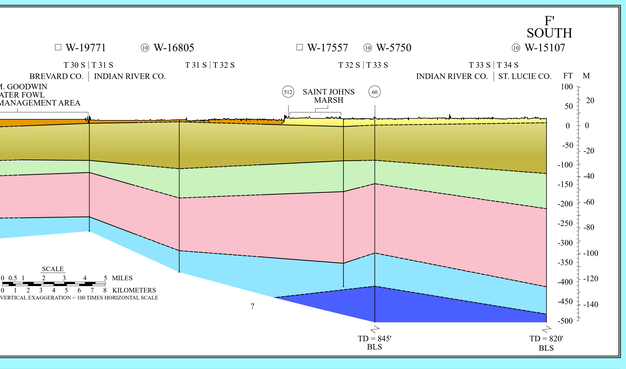
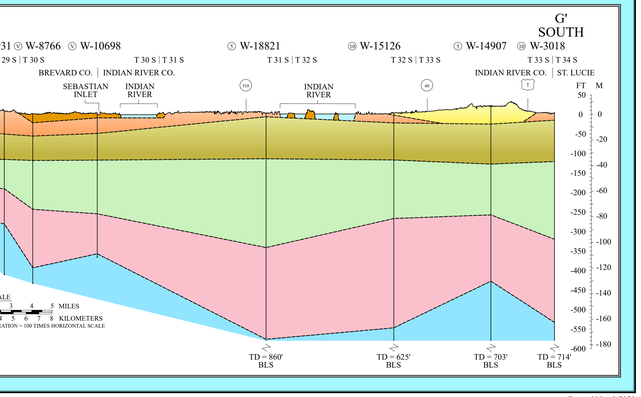
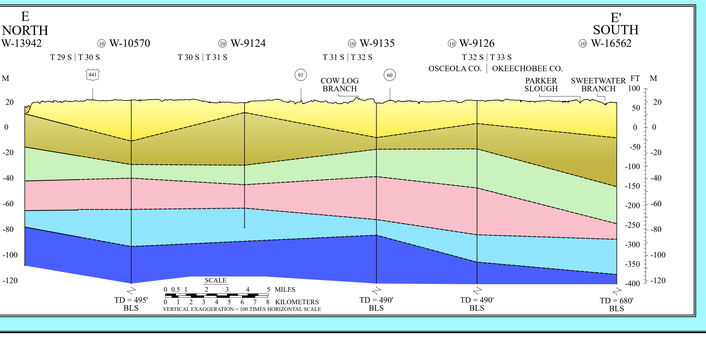
https://floridadep.gov/fgs/research/content/statemap

Refer to Open-File Report 109, Appendix A for well information
Refer to OFMS 112, Plate 1 for Geologic Map
Refer to OFMS 112, Plate 3 for Geomorphology Map







Disclaimer

This map was created using Florida Department of Environmental Protection (DEP) databases and data obtained from the Florida Geological Survey (FGS). It was completed March 31, 2021, by the DEP/FGS Geological Investigations Section. This document was prepared for the presentation of the geologic information shown and is not intended to replace site-specific or use-specific investigations. The FGS does not guarantee this document to be free from errors or inaccuracies and disclaims any responsibility or liability for inappropriate change of scale, interpretations, or decisions based thereon. Cooperatively funded by the DEP/FGS and the U.S. Geological Survey (USGS) National Cooperative Geologic Mapping Program under USGS assistance award number G19AC00313. The views and conclusions in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

NOTE: Geologic map and geologic cross-sections may appear to disagree slightly when depicting the upper unit due to the convention of not portraying undifferentiated sediments on the geologic map unless they are thicker than 20 feet (6.1 meters), whereas cross-sections will show all undifferentiated sediments thicknesses. Additionally, cross-section contacts are based on straight-line projection between wells, which can lead to apparent thicknesses between wells on the cross-section that are not supported by field evidence or other wells.

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