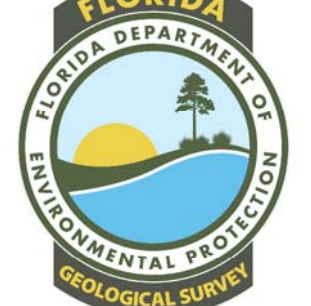


Noah Valenstein
Secretary



OPEN-FILE MAP SERIES 111, Plate 2
GEOLOGIC CROSS-SECTIONS FOR THE USGS BARTOW
30 X 60 MINUTE QUADRANGLE, CENTRAL FLORIDA
2019
BY
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State Geologist and Director

A WEST **A' EAST**

W-1864 W-14503 W-952 W-341 W-9259 W-19749 W-15336

R 24 E | R 25 E R 25 E | R 26 E R 26 E | R 27 E R 27 E | R 28 E R 28 E | R 29 E R 29 E | R 30 E R 30 E | R 31 E

LAKE HANCOCK LAKE ROSALIE LAKE KISSIMMEE

TD = 619' BLS TD = 667' BLS TD = 663' BLS TD = 732' BLS TD = 530' BLS TD = 860' BLS

SCALE 0 0.5 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS
VERTICAL EXAGGERATION = 10 TIMES HORIZONTAL SCALE

B WEST **B' EAST**

W-18807 W-9277 W-9348 W-16308 W-623 W-11179 W-4503 W-1710 W-17141 W-9150

R 25 E | R 26 E R 26 E | R 27 E R 27 E | R 28 E R 28 E | R 29 E R 29 E | R 30 E R 30 E | R 31 E R 31 E | R 32 E

PEACE RIVER CROOKED LAKE LAKE WEOHYAKAPKA KISSIMMEE RIVER

TD = 585' BLS TD = 664' BLS TD = 620' BLS TD = 967' BLS TD = 976' BLS TD = 880' BLS

SCALE 0 0.5 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS
VERTICAL EXAGGERATION = 10 TIMES HORIZONTAL SCALE

C WEST **C' EAST**

W-13712 W-14137 W-9049 W-9048 W-2842 W-437 W-17022 W-18629

R 25 E | R 26 E R 26 E | R 27 E R 27 E | R 28 E R 28 E | R 29 E R 29 E | R 30 E R 30 E | R 31 E R 31 E | R 32 E

PEACE RIVER LAKE ARBUCKLE KISSIMMEE RIVER

TD = 667' BLS TD = 1052' BLS TD = 720' BLS TD = 1238' BLS TD = 1000' BLS TD = 1043' BLS

SCALE 0 0.5 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS
VERTICAL EXAGGERATION = 10 TIMES HORIZONTAL SCALE

D NORTH **D' SOUTH**

W-14503 W-18805 W-18807 W-1008 W-4123 W-9264 W-14137 W-9070

T 29 S | T 30 S T 30 S | T 31 S T 31 S | T 32 S T 32 S | T 33 S T 33 S | T 34 S

PEACE RIVER LAKE CHARLIE CREEK

TD = 667' BLS TD = 802' BLS TD = 836' BLS TD = 780' BLS TD = 1052' BLS

SCALE 0 0.5 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS
VERTICAL EXAGGERATION = 10 TIMES HORIZONTAL SCALE

Figure 2. Correlation of stratigraphic units.

ERATHEM	SYSTEM	SERIES	AGE (BLS)	LITHOSTRATIGRAPHIC UNIT	HYDROSTRAT. UNIT
CENOZOIC	QUATERNARY	BECKEN	0.01	UNDIFFERENTIATED QUATERNARY SEDIMENTS	SURFICIAL
		FLUENT	2.6	POWERED CYPRUSHEAD FORMATION	ACQUEDUCT
		FLUENT	5.3	UNDIFFERENTIATED TERTIARY/QUATERNARY BELLY SEDIMENTS	ACQUEDUCT
		FLUENT	11.6	UNDIFFERENTIATED TERTIARY/QUATERNARY BELLY SEDIMENTS	ACQUEDUCT
	TERTIARY	NEOGENE	16.0	PEACE RIVER FORMATION	INTERMEDIATE
		OLIGOCENE	23.0	ARCADIA FORMATION	INTERMEDIATE
		OLIGOCENE	27.8	TAMPA MEMBER	INTERMEDIATE
		OLIGOCENE	33.9	NOCATEE MEMBER	INTERMEDIATE
		PALEOGENE	37.8	SUWANNEE LIMESTONE	INTERMEDIATE
		PALEOGENE	37.8	OCALA LIMESTONE	INTERMEDIATE
PALEOGENE	37.8	AVON PARK FORMATION	INTERMEDIATE		
	37.8	AVON PARK FORMATION	INTERMEDIATE		

Figure 1. Location of cross-sections on geologic map.

Scale = 1:80,000

Projection: NAD 1983 HARN Florida GDA Albers (Meters)
Horizontal Datum: North American Datum 1983 HARN (NAD83 HARN)
Vertical Datum: North American Vertical Datum 1988 (NAVD88)

Legend

Map Units

- Qbd: Quaternary beach ridge and dune
- Qu: Undifferentiated Quaternary sediments
- TQsu: Undiff. Tertiary/Quaternary belly sediments
- TQd: Undifferentiated dunes
- TQuc: Undifferentiated reworked Cypresshead sediments
- Thp: Hawthorn Group, Peace River Formation
- Tha: Hawthorn Group, Arcadia Formation
- That: Hawthorn Group, Arcadia Formation, Tampa Member
- Thn: Hawthorn Group, Arcadia Formation, Nocatee Member
- Ts: Suwannee Limestone
- To: Ocala Limestone
- Tap: Avon Park Formation

Cross-Sections

- Qbd: Core
- Qu: Cuttings
- TQsu: Cross-section line
- TQd: County boundary
- TQuc: USGS 1:24,000 Quadrangle
- Thp: USGS 1:24,000 Quadrangle tick mark
- Tha: Contact
- That: Inferred contact
- Thn: TD
- Ts: BLS
- To: Below land surface
- Tap: 1:24,000 QUADRANGLE GRID

Cross-Sections Legend

- Primary highway
- Secondary highway
- State lands and parks
- Waterbody
- Wetland
- River or stream
- Sample interval in feet
- Variable sample interval
- Roads

ADJOINING MAPS

1	2	3
4	5	6
7	8	

1 Tarpon Springs (OFMS 104)
2 Kissimmee (OFMS 110)
3 Cape Canaveral
4 Saint Petersburg (OFMS 109)
5 Vero Beach (to be mapped 2020)
6 Sarasota (OFMS 86)
7 Arcadia (OFMS 87/88)
8 Fort Pierce

Disclaimer

This map was created using Florida Department of Environmental Protection (FDEP) databases and data obtained from the Florida Geological Survey (FGS). It was completed August 31, 2019, by the FDEP/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 liability for inappropriate change of scale, interpretation, or decisions based thereon. Cooperatively funded by the FDEP/FGS and the U.S. Geological Survey (USGS), National Cooperative Geologic Mapping Program, under USGS assistance award number G18AC00025. 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 thickness. Additionally, cross-section contacts are based on straight-line projection between wells, which can lead to apparent thickness between wells on the cross-section that are not supported by field evidence or other wells.

For more information or to order maps contact Librarian:
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E NORTH **E' SOUTH**

W-5464 W-623 W-1887 W-2842 W-14884 W-18535

T 29 S | T 30 S T 30 S | T 31 S T 31 S | T 32 S T 32 S | T 33 S T 33 S | T 34 S

LAKE WALKER LAKE MOODY LAKE LIVINGSTON BONNET LAKE

TD = 1056' BLS TD = 967' BLS TD = 1023' BLS TD = 1238' BLS TD = 1360' BLS TD = 1877' BLS

SCALE 0 0.5 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS
VERTICAL EXAGGERATION = 10 TIMES HORIZONTAL SCALE

F NORTH **F' SOUTH**

W-15336 W-19748 W-9150 W-9144 W-18629 W-19735 W-15339

T 29 S | T 30 S T 30 S | T 31 S T 31 S | T 32 S T 32 S | T 33 S T 33 S | T 34 S

LAKE JACSON KISSIMMEE RIVER

TD = 860' BLS TD = 702' BLS

SCALE 0 0.5 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS
VERTICAL EXAGGERATION = 10 TIMES HORIZONTAL SCALE

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