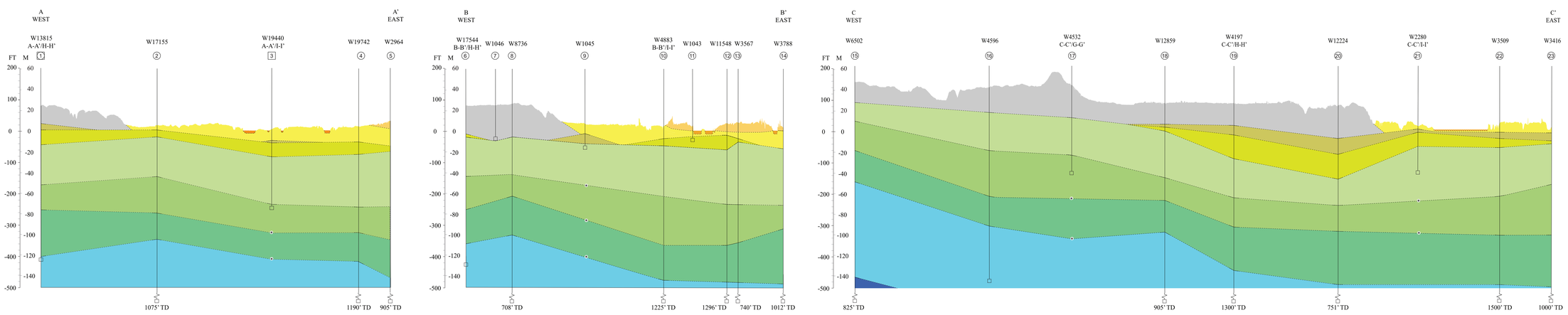
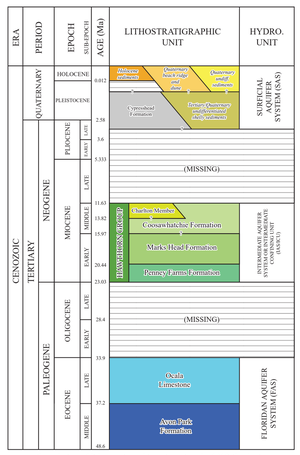
Guy H. Means
State Geologist and Director

REPORT OF INVESTIGATION 123, Plate 2
GEOLOGIC MAPPING IN THE TRAIL RIDGE PLACERS, FLORIDA FOCUS AREA

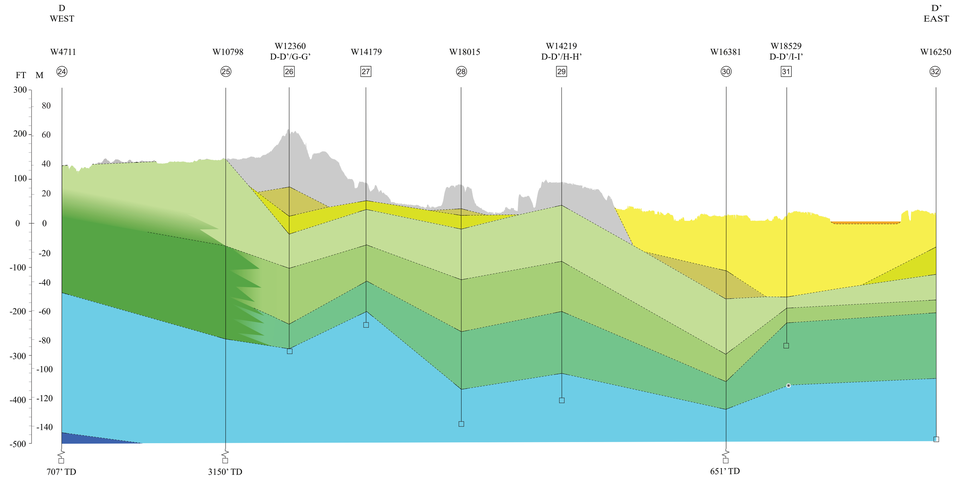
2026

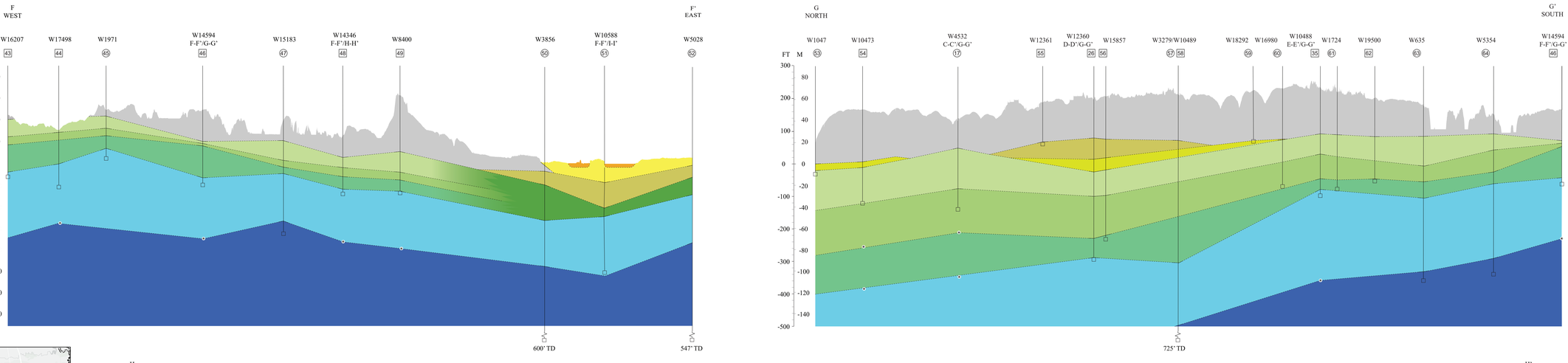
BY
MARY E. LUPO (P.G. # 3134), BENJAMIN L. DAVIS, ERICKA L. MCMAHAN, AND GUY H. MEANS





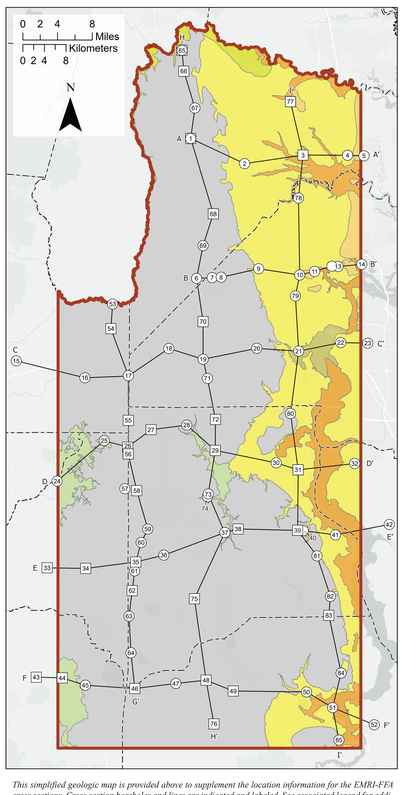
Correlation of lithostratigraphic units using the 2022 Geologic Time Scale v. 6.0, compiled by Walker and Gissman, Geological Society of America.



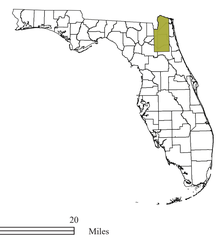


Map Units / Cross Section Units

Map Units		Cross Section Units
Qh	Holocene sediments	Qh
Qbd	Quaternary beach ridge and dune	Qbd
Qu	Quaternary undifferentiated sediments	Qu
TQc	Cypresshead Formation	TQc
TQsu	Tertiary-Quaternary undifferentiated shelly sediments	TQsu
Th	Hawthorn Group undifferentiated	Th
Thc	Coosawhatchie Formation	Thc
Thca	Charlton Member	Thca
Thmh	Marks Head Formation	Thmh
Thpf	Penney Farms Formation	Thpf
To	Ocala Limestone	To
Tap	Avon Park Formation	Tap

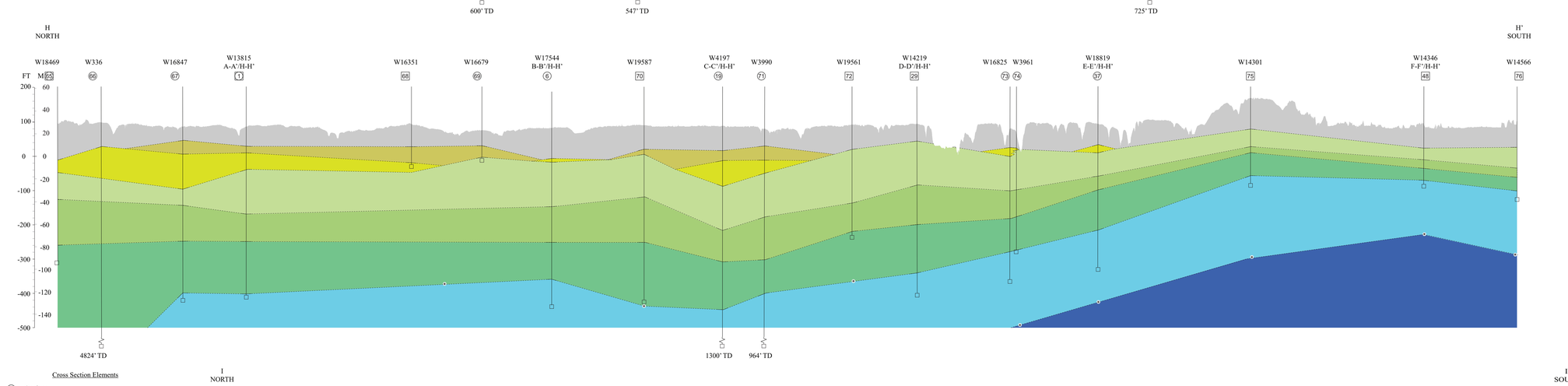


This simplified geologic map is provided above to supplement the location information for the EMRI-FFA cross sections. Cross section boreholes and lines are indicated and labeled. See associated legend for additional map and cross section items. Data from proximal borehole samples were used for deeper stratigraphic interpretations and as additional control points where borehole data along the cross sectional line was inadequate. Deeper stratigraphic contacts calculated from additional geologic data are indicated within each cross section. Those sample sets and their corresponding lithologic reports are available on the Florida Geological Survey's online resources.



Vertical Exaggeration for all Cross Sections is 1:100

0 2 4 6 8 10 15 20 Miles
0 2 4 6 8 10 15 20 Kilometers



Cross Section Elements

- (3) Cuttings
- (77) Core
- (68) Cuttings and Core
- Total depth of borehole to scale
- Total depth of borehole exceeds depth represented
- Calculated geologic contact
- Inferred geologic contact projected between borehole samples
- Observed geologic contact present in borehole samples

Qualification: This map was created using Florida Department of Environmental Protection (DEP) databases and data obtained by the Florida Geological Survey (FGS). Lidar used for the completion of this basemap was delivered by the county area and mosaiced to cover the entire study area. The map was completed in August 2023 by the DEP/FGS, Applied Geoscience Services Section. The final publication was made available by FGS in 2026 . This document is prepared for the presentation of the geologic information shown and is not intended to replace site-specific or use-specific investigations. Cooperatively funded by the DEP/FGS and the U.S. Geological Survey (USGS) Earth Mapping Resource Initiative under USGS assistance award number G20AC00169. The views and conclusions in this document are those of the authors and should not be interpreted as necessarily representing the opinions or official policies, either expressed or implied, of the DEP, FGS, the State, or the U.S. Geological Survey or U.S. government.

Disclaimer of Liability: With respect to documents and information available from the Florida Geological Survey (FGS), regardless of where published (i.e., online, publications, etc.), is provided for general informational purposes only. FGS, the Florida Department of Environmental Protection (DEP), and the State of Florida (State) make no warranty, expressed or implied, regarding the accuracy, completeness, reliability, availability, or usefulness of any information, apparatus, product, or process including the warranties of merchantability and fitness for a particular purpose arising out of the use or inability to use the data; or represents that its use would not infringe privately owned rights. FGS, DEP, and the State are not responsible for any indirect, special, incidental, or consequential damages for the use or reliance upon FGS information and any views or opinions associated with such information.

Use: As a professional courtesy, the FGS asks that due credit be given when our data sets are used by other individuals or entities. Further, since some or all of the data yielded from each FGS project were developed using public funds, no proprietary rights may be attached to FGS products wholly or in part, nor may FGS products be sold to the U.S. government or the State as part of any procurement of products or services.

Notes to Users: The 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 a combination of straight-line projection between boreholes and interpolation with proximal sample sets. These interpretations are marked with an * symbol.

For more information or to order maps contact:
Librarian, Florida Geological Survey
3000 Commonwealth Blvd., Suite 1
Tallahassee, FL 32303
850/ 617-0316