

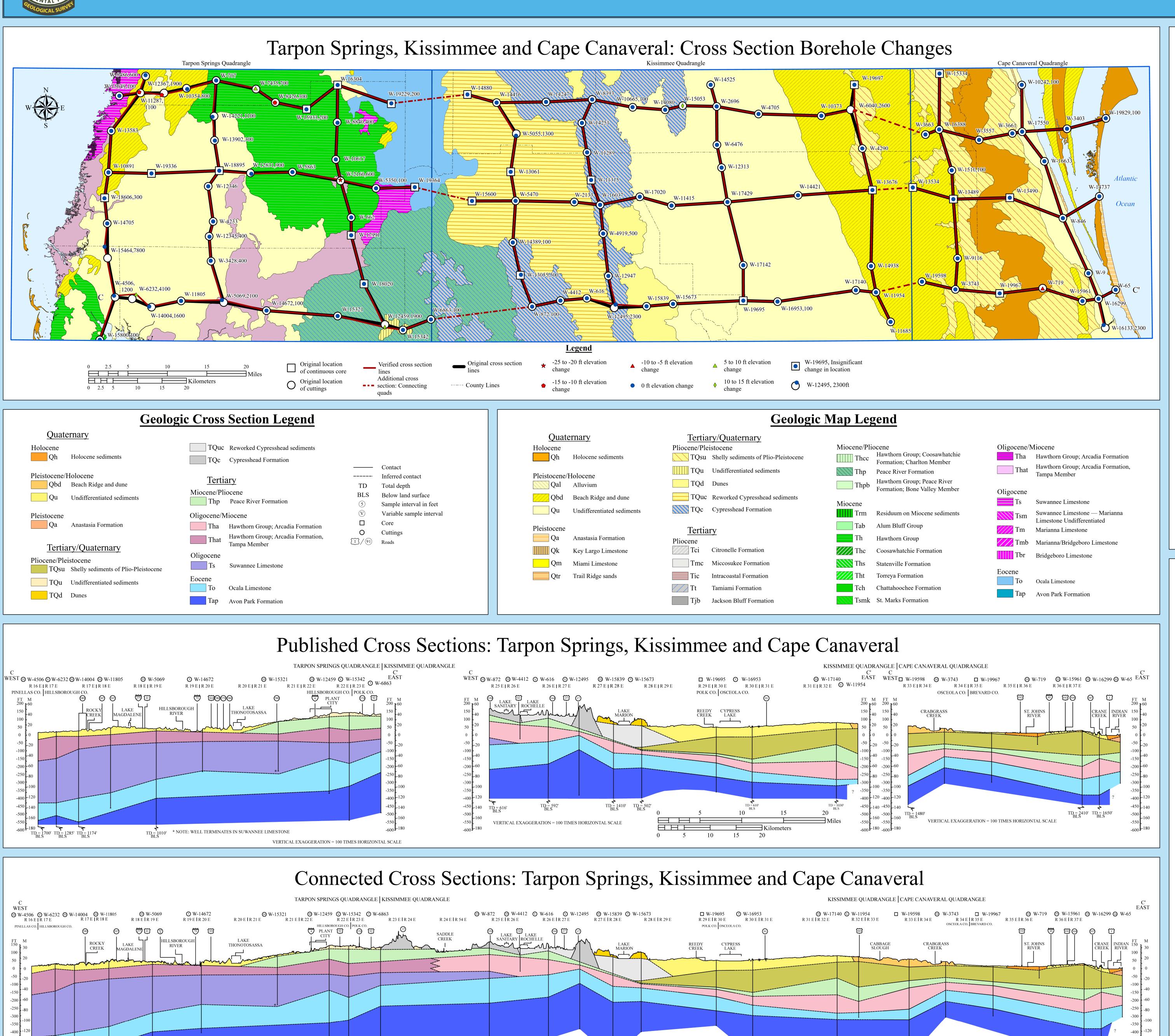
* NOTE: WELL TERMINATES IN SUWANNEE LIMESTONE

VERTICAL EXAGGERATION = 100 TIMES HORIZONTAL SCALE

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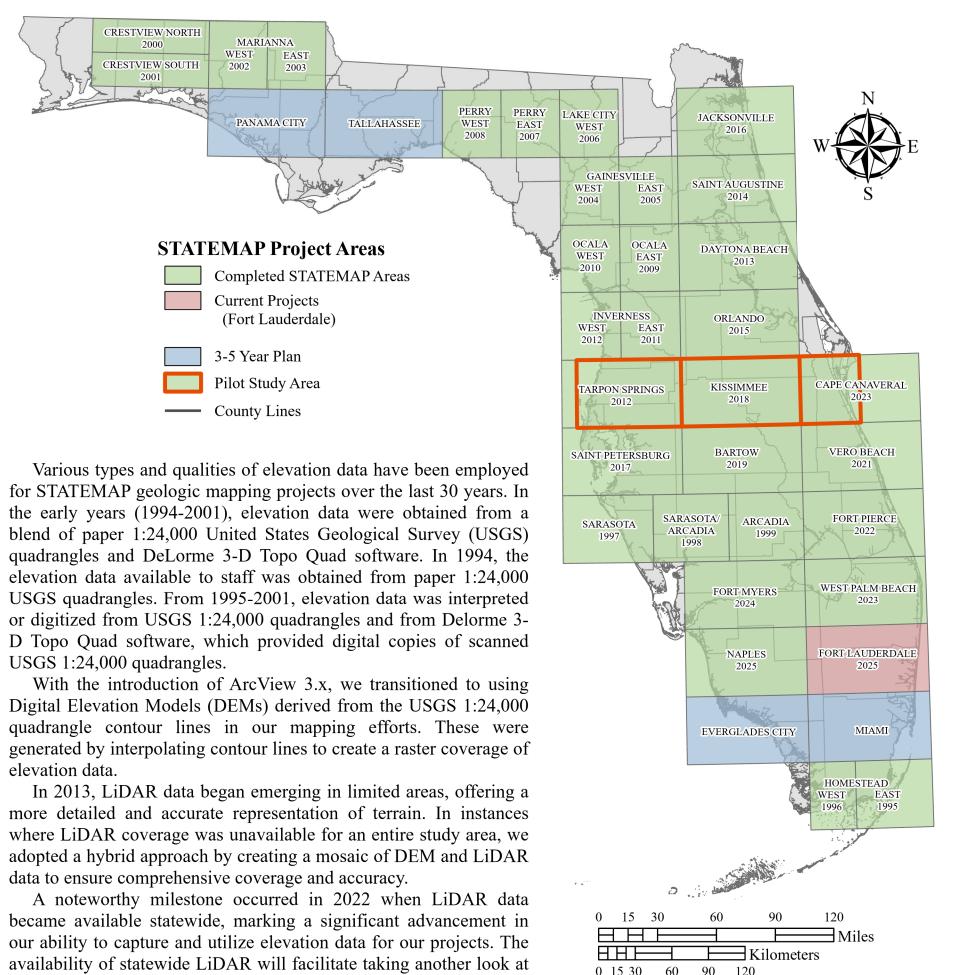
A Pilot Study: Updating and Connecting Geologic Cross Sections Across Quadrangle Boundaries

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VERTICAL EXAGGERATION = 100 TIMES HORIZONTAL SCALE

STATEMAP Cross Section Pilot Study

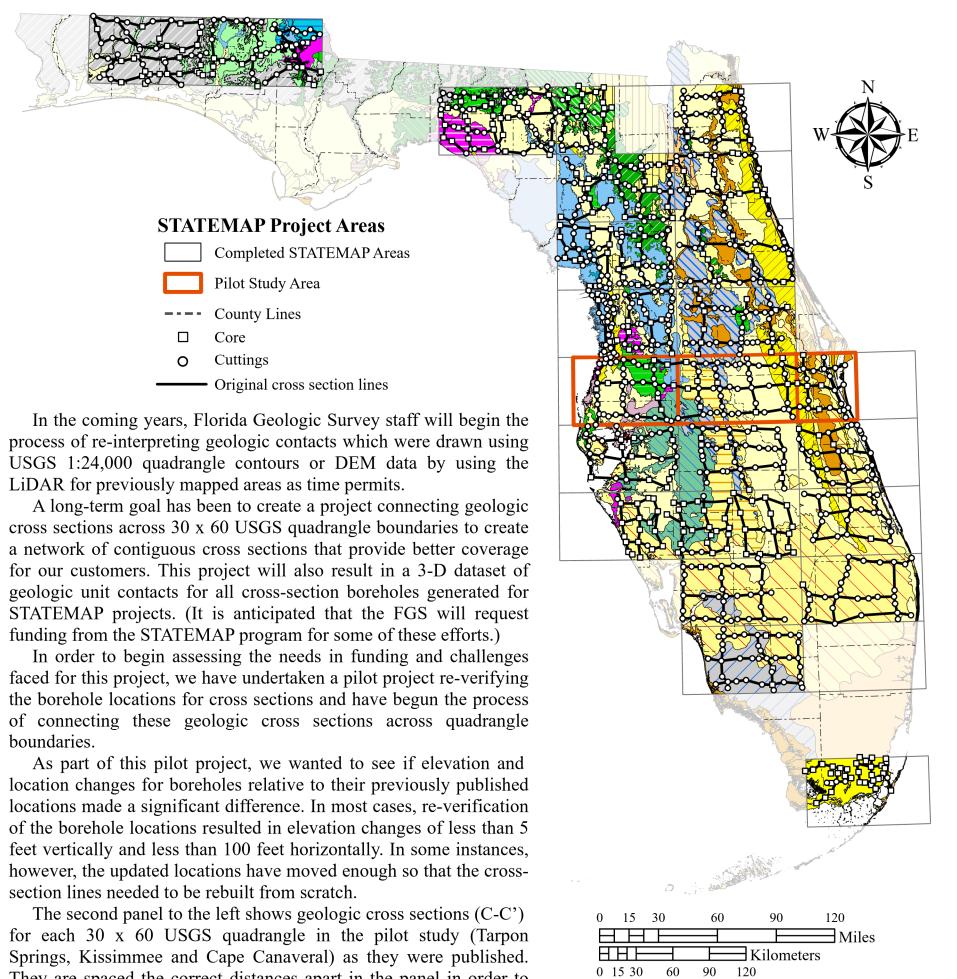


When cross sections were originally published, boreholes were located using multiple sources ranging from field notes, hand-written records, hand-plotted locations on Department of Transportation base maps, and a variety of other sources. At the time of publication, we made every effort to assure that the boreholes were properly located given the data sets we had available. In recent years, we have gained access to additional databases for borehole locations that, in some instances, allow for improving borehole location accuracy.

geological contacts and borehole elevation data from previous years.

As part of a pilot project, we have begun to re-check published borehole locations to determine if changes in locations (and elevations) for boreholes significantly affect the accuracy of the geologic cross-sections. The first panel of this poster shows original borehole locations and cross-section lines (thicker black lines on map), along with the changes in borehole locations for three pilot quadrangles (thinner red lines). Changes in surface elevations of the boreholes are denoted by the borehole symbols and colors of symbols (red = decrease in elevation; green = increase in elevation).

Changes, Challenges, and Future Plans



The panel on the bottom left depicts the results of re-building each of these geologic cross sections (based on new borehole locations and elevations) and connecting them across quad boundaries. The borehole that moved the most in this exercise was W-6232. It moved approximately 4,100 feet to the northeast and up in elevation approximately 5 feet.

The ultimate goal for this project is to take geologic cross-section lines constructed for individual 30 x 60 minute.

They are spaced the correct distances apart in the panel in order to more easily compare them with the rebuilt and connected cross

sections (bottom panel).

VERTICAL EXAGGERATION = 100 TIMES HORIZONTAL SCALE

The ultimate goal for this project is to take geologic cross-section lines constructed for individual 30 x 60 minute quadrangles and connect them across quad boundaries, resulting in creating a set of "coast to coast" geologic cross-sections throughout the state of Florida. To date, approximately 190 geologic cross-sections have been created for STATEMAP projects (see map above). It is our plan to create a web page and digital publication that will allow readers to access these composite cross-sections in one place by 2028. At the moment, a user would have to go to each individual project page in our publications in order to compare geologic cross sections.