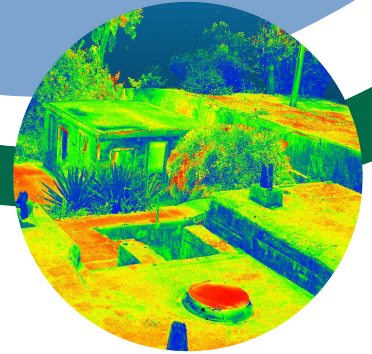


Cultural Heritage & Climate Change Geomatics at Egmont Key

Battery McIntosh
on Egmont Key



May 9-20, 2022



Project Leads

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Project Description

In 2018, the Florida Trust for Historic Preservation named Egmont Key one of the state's 11 most endangered heritage sites. In the last 150 years, half of the island's landmass has eroded into the Gulf of Mexico, submerging three historic sites, and endangering Battery McIntosh, a Spanish-American war fort built in 1901. Participants in this professional development workshop will learn advanced geomatics techniques, including LiDAR scanning, Matterport scanning, and GIS analysis in the process of answering the following research questions: (1) what is the overall state of preservation of Battery McIntosh, as of May 2022? And (2), how will projected sea-level rise scenarios impact Battery McIntosh in the future?

Schedule

During Week 1, participants will receive a tour of Egmont Key's cultural heritage sites as well as hands-on training with state-of-the-art lidar scanners and Matterport scanners. Research will focus on documenting Battery McIntosh and nearby cultural heritage sites. Week 2 consists of labwork at USF Access 3D Lab. Participants will register and georeference 3D lidar point clouds, model the impacts of sea-level rise on Egmont Key's cultural heritage sites in GIS, and create a public web-based heritage tour of Egmont Key with Matterport technology. @Access3D Gold Badges will be issued to all participants who complete all fieldwork, labwork, written assignments, and a final portfolio. The digital badge is easily embedded on LinkedIn and other social media channels.

Fees and Logistics

The workshop costs \$800, which includes expert instruction, scanning equipment, boat transport to Egmont Key, and computing resources at USF. Participants are responsible for their own transportation to the Ft. Desoto Marina during Week 1 and to USF during Week 2. Scholarships may be available. Apply early, as space is limited!

How to Apply

Submit your application form by visiting <https://www.usf.edu/arts-sciences/labs/access3d/lab-projects/egmontkey.aspx>.