

Topo-Bathymetric Performance of the VQ-820-G over Manatee Springs

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ABSTRACT:

Aerial Cartographics of America flew the *RIEGL VQ-820-G* bathymetric scanner over areas of interest in Central Florida for the Suwannee River Water Management District on Nov 20, 2013. The focus of this scan was to capture data at the Manatee Springs run-out into Suwannee River. Accurate surveying of the riverbeds of these river systems are necessary for predicting water flow from the spring systems. The crystalline water emanating from the spring allowed for superb penetration into the spring system. Even with a thick canopy of trees over the majority of the spring, high point density was attained inside the spring. Features that cannot otherwise be resolved in competing bathymetric systems were clearly visible in this dataset. Features such as ropes, boulders and even manatees were able to be observed within this dataset.