

# Taking Bathymetry Using a Kayak



As a geomatics professional and avid kayaker involved in training, consulting and supporting CARIS bathymetric processing software, Matthew Gudger decided to assemble a simple and easy-to-use kayak-mounted bathymetric mapping system which could help to create simple bottom terrain maps of local lakes. The original concept was conceived by Paul Illsley, a geomatics instructor

based in Nova Scotia, Canada.

A bathymetric survey was conducted of Killarney Lake in Fredericton, New Brunswick. The survey was completed using a prototype sounding system consisting of a 10-foot open-cockpit kayak, Humminbird 788ci HD depth sounder and a 12V power supply. A series of 2,100 soundings were collected during the two-hour survey which were used in the creation of a depth model and selected soundings for the lake. The data was imported and processed using [CARIS BASE Editor](#).

CARIS customer service representative Matthew plans to continue mapping lakes in the area in the future and share his passion for geomatics with the local community.