

HOSTED by

University of Washington



Acoustic Seabed Classification Workshop

- Venue:** University of Washington, School of Oceanography, Seattle, WA
- Date:** Wednesday 19th January 2011.
- Time:** 9.00am to 4.00pm
- Program:** Learn about the latest seabed classification techniques, using data from multibeam and sidescan sonar systems. Bring your laptop to practice the techniques. The tutorial takes you through all the stages of classification including data processing, mapping and visualisation. Quester Tangent will provide full working software, with a 30 day licence, for 'hands-on' experience, and for you to take away afterwards.
- Lead Tutor:** Jon Preston, Senior Scientist at Quester Tangent, author of many papers on image-based classification and primary developer of the QTC products.
- Cost:** \$75 – includes lunch and morning and afternoon refreshments.

Abstract

Seabed images, from multibeam or sidescan sonar systems, convey a lot of information about seabed type. Large-scale rocky relief often gives dramatic images, and morphology such as sand waves can be very evident. Fine-grained sediments affect images in less obvious ways. Statistical processing of the backscatter amplitudes generate features adequate for seabed classification that agree with both large-scale interpretation and fine-grained details. The Quester Tangent software products are well-tested versions of these processes that have found widespread acceptance for geological studies and habitat mapping.

The purpose of the tutorial is to provide both a theoretical background and a "hands on" experience of the Quester Tangent approach to seabed classification. Particular emphasis will be placed on data QA, compensation for range and angle effects and production processing techniques. Techniques for post-processing, mapping and visualisation will be presented and discussed. Full working versions of the software will be loaded onto participants PC's and experimentation with data processing is encouraged. Participants will be provided with 30 day licences for image classification following the workshop.

To reserve your place, please e-mail the following information to Tony Tipple at Quester Tangent ttipple@questertangent.com or to *(host name)* at *(host email)*

Name - employer - position - tel. - email