

2015 CHaMP Camp Workshop

River Bathymetry Toolkit

June 3, 2015

8:15 a.m. – 10:15 a.m.

Lead Trainer Philip Bailey, North Arrow Research

Objectives: Understand what the River Bathymetry Toolkit software is, what versions are available and used by CHaMP, and what metrics are produced by the different versions.

ArcGIS 10.1 Service Pack 1.

Software needs: Good Text Editor (such as NotePad++ or Sublime)

Additional Resources:

Abstract:

The River Bathymetry Toolkit is the central, underlying technology that calculates physical measurements from the high resolution CHaMP topographic surveys. There are two versions of the software, one for desktop users to use within ArcGIS and one that runs on the command line (DOS). This latter version is run against CHaMP topographic surveys as they are uploaded onto champmonitoring.org.

This workshop session will introduce both RBT versions and cover the following topics:

- The overlap and differences between the two RBT versions
- Data requirements for running both versions
- Metrics produced
- GIS data products produced
- Online resources and where to get support

Group exercises will demonstrate how to obtain, install, and run both versions of the RBT. Emphasis will be placed on getting up and running with the software, instead of metric calculation minutiae.

7:30 – 8:15

Introduction

Introductory Remarks

Boyd Bowes

8:15 – 8:30

RBT Introduction

Desktop RBT Command Line RBT

8:30 – 9:00

Data Requirements

Required CHaMP Data Format for RBT Command line

9:00 – 9:30

Metric Calculations

Review of RBT Metrics and how they are produced
Data Requirements for Individual Metrics

9:30 – 9:45

RBT Outputs

Review of RBT output files and GIS data products.

9:45 – 10:15

RBT Exercise

Running both the RBT Console and Desktop.
