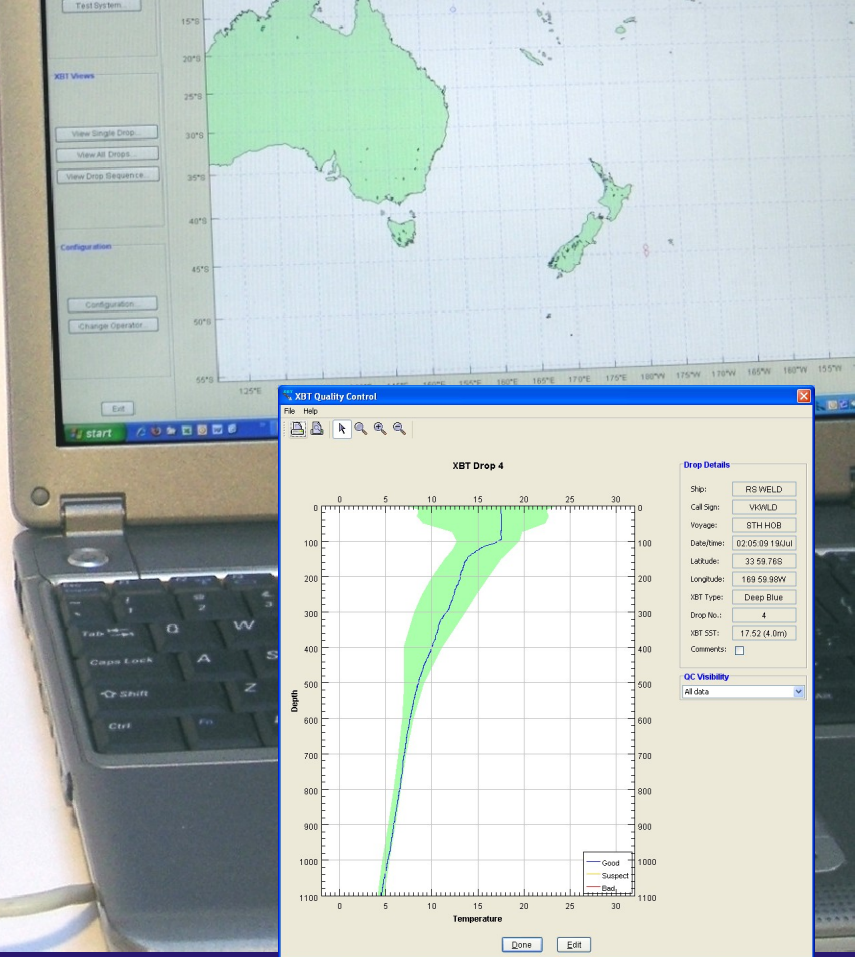


TURO DEVIL XBT

with USB



eXpendable BathyThermograph data acquisition and recording system

Acquisition Recording Analysis

- ▶ USB interface, USB powered
- ▶ Compact and light weight
- ▶ Fully compatible with Sippican¹ launchers and XBT probes



- ▶ Windows 7, Windows 8.1
- ▶ Global Charts
- ▶ Climatology database
- ▶ Quality control
- ▶ GPS input
- ▶ Satellite telemetry

TURO

TURO TECHNOLOGY PTY LTD
www.turo.com.au

DEVIL XBT data acquisition and recording system

XBT Acquisition and Recording

The Turo Devil XBT System is fully compatible with Sippican¹ launchers and uses Sippican probes² to record ocean temperature profiles.

Originally developed by the laboratories of the CSIRO³ Marine Research Division, the Turo Devil XBT System includes the acquisition unit and comprehensive Devil software.



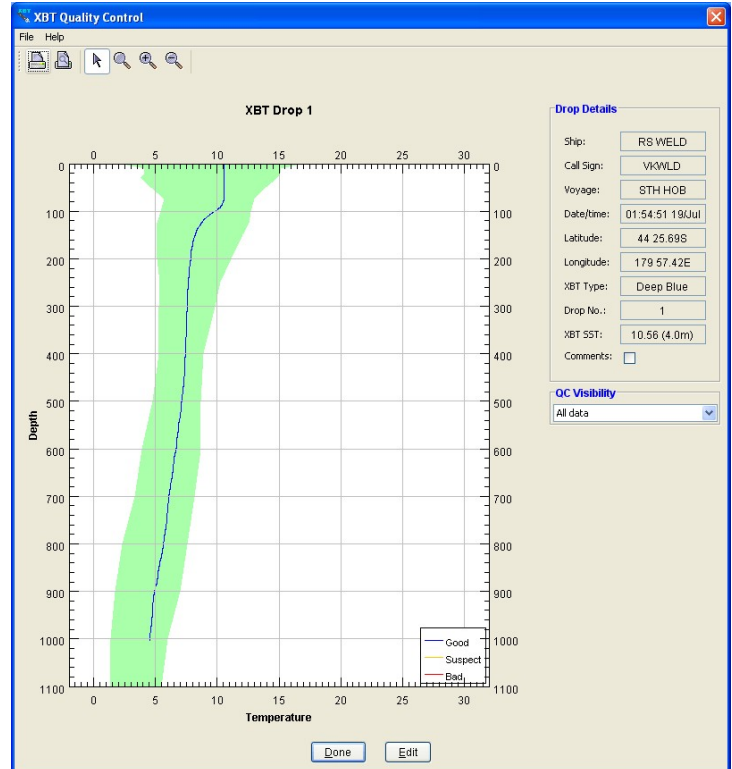
Truly Portable

For the first time it is possible to do XBT drops from small survey vessels, away from the main ship. A laptop computer, a hand launcher and the Devil XBT acquisition unit offers the full power of the Devil XBT System in a truly portable mode.

The Devil is powered through the USB port - no batteries or external power supply is needed. Compact and lightweight, Devil XBT System is so simple to install, it can be done in minutes.

Acquisition, Processing and Management

- ▶ Software included with Devil offers:
 - ▶ Windows XP, Windows 7, Windows 8.1
 - ▶ Four operating modes for Open, Restricted, SOOP and Secure situations each with Administrator and Operator permissions
 - ▶ Global atlas
 - ▶ Global climatology database
 - ▶ First pass Quality Control analysis
 - ▶ Sound speed profile using XBT probes with advanced climatology assisted or simple fixed salinity algorithm
 - ▶ Display:
 - ▶ realtime temperature or sound speed profile plot
 - ▶ single or multiple drops
 - ▶ climatology overlay
 - ▶ location of drops on the chart
 - ▶ colour coded QC on temperature & calculated sound speed graph
 - ▶ Formats: netCDF, ascii, JJVV, CALC
 - ▶ Automatic GPS input
 - ▶ Iridium satellite transmission support
 - ▶ Integral training simulator



XBT System

Compatibility

Fully compatible with Sippican¹ hand and thru hull launchers
Uses Sippican¹ probes²

XBT Probes

Electrical

Sample rate
Computer connection
XBT connection
Power Supply

10 Hz
USB 2.0, full speed
DB9 socket, Sippican¹ compatible
USB bus powered

Mechanical

Size box (L x W x H)
Weight

139.0 x 106.0 x 28.5 mm
275 gm

Environment

Operating temperature

-5 to +60°C

Computer Requirements

Operating system
Computer I/O

Windows XP, Windows 7, Windows 8.1
USB

Optional GPS

GPS module
Format
Computer I/O

Standard GPS unit
NMEA 0813 \$GPGLL or \$GPGGA
rs232

Optional Iridium Transmitter

Transmitter
Computer I/O

NAL 9601
rs232



Tasmanian Devil
Sarcophilus harrisii

- 1 Lockheed Martin Sippican, Inc
- 2 XBT probes T4, T5, T6, T7, T10, Deep Blue, Fast Deep
- 3 Commonwealth Scientific and Industrial Research Organisation, Division of Marine and Atmospheric Research, Australia