# Turo Technology – Interface & software for XBTs

Devil and Quoll - data acquisition and recording

Three different interface systems are available for the Lockheed Martin "Sippican" e**X**pendable **B**athy**T**hermograph probes. The Quoll-XBTsv offers the greatest flexibility for relatively little additional cost. The three recorders are:

Devil XBT - interfaces to a computer via USB and supports XBT probes.

Quoll XBT - As per the Devil XBT but also supports an Ethernet network.

Quoll XBT-sv - As Quoll XBT but also supports XSV probes.
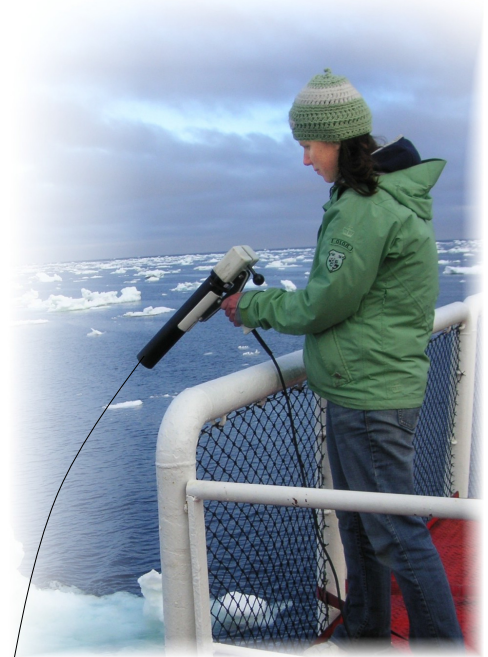
Compact and light weight

Fully compatible with Sippican launchers and probe
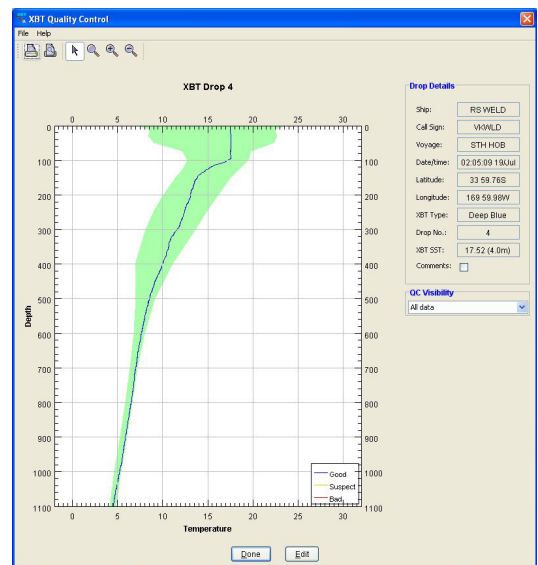
Windows XP, Vista or Windows 7

Global Charts

Climatology database

Quality control

GPS input

Satellite telemetry

Additional features that are unavailable from Sippican's native interface include:

- **Smaller size and powered by USB, Power over Ethernet (PoE) or external 12v.**

- **Software has a global chart with GPS input so users can instantly see where drops have been done.**

- **The software also contains global climatology that overlays the expected temperature or sound speed profile graph with the result just obtained.**

- **The sound speed can optionally be done in the conventional way with a fixed salinity assumption (as done on the Sippican) or with our unique climatology assisted calculation.**

- **A first-pass quality control with colour coding on the profile trace for Good, Suspect and Bad data.**

- **The Turo software has more output formats and stores more meta-data.**

Acquisition, Processing and Management

Software included with Quoll offers:

- Windows XP, Vista or Win7 compatibility
- 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
- Display:
  - real time temperature profile plot
  - single or multiple drops
  - climatology overlay
  - location of drops on the chart
  - colour coded QC on temperature graph
- Formats: netCDF, ascii, JJVV
- Automatic GPS input
- Iridium and Argos satellite transmission support
- Integral training simulator

XBT System

Compatibility	Fully compatible with Sippican handheld and thru hull launchers
XBT Probes	Uses Sippican probes

Electrical

Sample rate	10 Hz
XBT connection	DB9 socket, Sippican compatible
Computer connection	USB 2.0, full speed or Ethernet network
Power Supply	USB bus powered or Power over Ethernet (PoE) or External 12-30 Vdc 300mA

Mechanical

Box Size (L x W x H)	139.0 x 106.0 x 28.5 mm
Weight	290 g

Environment

Operating temperature	-5 to +60°C

Computer Requirements

Operating system	Windows XP, Vista or Win7
Computer I/O	USB or Ethernet network

Optional GPS

GPS module	Standard GPS unit
Format	NMEA 0813 $GPGLL or $GPGGA
Computer I/O	RS-232

Optional Iridium Transmitter

Transmitter	NAL 9601
Interface/Computer I/O	RS-232

Optional Argos Transmitter

Transmitter	Seimac Wildcat Argos transmitter
Computer I/O	Turo Argos Interface Module / RS-232

Note: "Sippican" refers to Lockheed Martin Sippican, Inc
System compatible with XBT probes T4, T5, T6, T7, T10, Deep Blue, Fast Deep & XSV probes XSV-01, 02 & 03

SWALE TECHNOLOGIES Ltd

Unit 51G, Rm48 Whitehill & Bordon Enterprise Park, Budds Lane, Bordon, GU35 0FJ, UK
Tel: +44 (0)1420 473334   Email: Sales@swaletechnologies.com   www.swaleocean.co.uk