

ecoSUB C³ GUI Graphical User Interface for ecoSUB AUVs

Innovative AUV technology

Increasing accessibility to AUVs

ecoSUB Robotics Limited is committed to making AUV technology accessible to all; reducing the barriers to autonomous system use in the underwater environment

As part of this philosophy, ecoSUB have produced an extremely simple to use graphical software suite for diagnostics, mission planning, monitoring and recovery operations

- Pre-launch checks & diagnostics
- Offline maps & charts
- Mission planning & programming
- Real-time data viewing
- Recovery aid

Able to run on laptops and windows tablets, the ecoSUB C³ GUI, provides users with a suite of software tools to undertake comprehensive pre-launch vehicle checks and diagnostics, plan & launch missions, view ecoSUB data in near real-time and locate vehicles for recovery. The ecoSUB C³ GUI can work in conjunction with our **HERMES C³** Command, Control & Communications system to provide a choice of communication channels and combinations to ensure that you stay in touch with your vehicles anywhere in the World



Optional
HERMES C³ SYSTEM



Total control, anywhere

A helpful tool for operating ecoSUB AUVs

The ecoSUB GUI, is designed to allow users to operate ecoSUBs with the minimum of training and understanding of robotics. The system is extremely simple to use, intuitive and provides multiple functions in a single software package. Connection to ecoSUBs is made via a local WiFi network with data transfer via Wi-Fi, acoustics or Iridium. The ecoSUB C³ GUI basic version is provided free with all ecoSUBs; an optional enhanced version with additional features and behaviours is available. The ecoSUB C³ GUI works best when used in conjunction with the **HERMES C³** system and the enhanced GUI is provided free to HERMES C³ users.

Data Management

Vehicle housekeeping data such as internal pressure, temperature, humidity, battery volts, power usage, location etc are sent via Iridium and stored within a data base on a secure server with multi level password protected access. Data from single or multiple vehicles can be viewed in real-time or historically

Offline maps

The system can use Google maps with an internet connection, or marine charts with or without internet connectivity. Users can select which charts to download for use offline to economise on local storage space

Mission planner

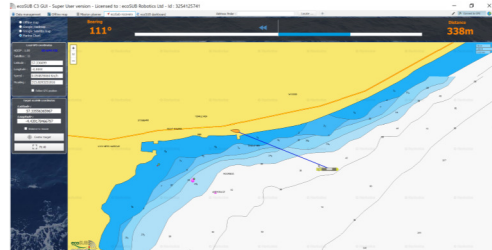
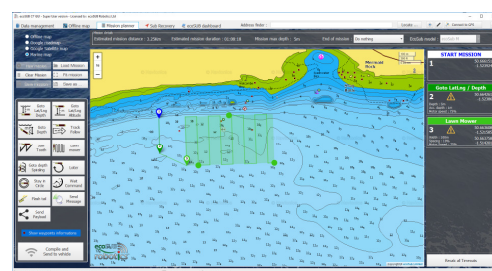
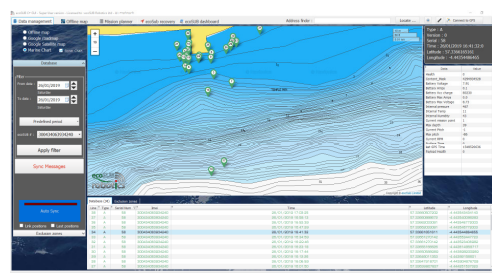
The mission planning feature allows users to drag and drop behaviours onto a map or chart, and adjust behaviour arguments without programming knowledge. Basic behaviours are provided as part of the free package. The enhanced paid for package provides access to additional behaviours and facilities. Behaviours are sanity checked and overall mission criteria such as maximum depth, run time and distance are calculated as part of the planning

Recovery

This facility provides the user with navigation information and tools to assist piloting a recovery vessel to the location of the ecoSUBs last transmitted position. When run on a windows machine with internal or external GPS, users are presented with a simple to understand range and bearing to the vehicle which is updated in real-time

Dashboard

The ecoSUB dashboard provides users access to the sub systems of ecoSUB and shows graphically, information on the internal sensors, external payloads and manipulate the vehicles control systems including propeller, moving mass and rudder. This is used for pre-launch and post recovery testing and diagnostics



Specifications are subject to alteration without notice. Laptop not provided.