YSI

ECOMAPPER™

Autonomous Underwater Vehicle

"We put the AUV in the lake at night, went to bed, woke up and picked it up. That's how easy field work should be."

Dr. Cary Troy
Purdue University

Generate **high-resolution maps**
of **water quality, water currents** and **bathymetry**
without getting your feet wet.

Baseline Monitoring

- Detailed data on horizontal and vertical planes
- Reduce number of personnel on the water
- Reduce costs to run monitoring program
- Simultaneous bathymetric, water quality and current mapping, sonar imaging

Source Water Mapping

- Improve knowledge of raw water quality
- Early warning of algal blooms and low DO events
- Map sediment level and reservoir volume
- Reduce water treatment operating costs

Coastal & Ocean Research

- Surf-zone turbulence
- Benthic boundary layer studies
- Coral reef ecology
- Tidal inlet studies
- Fisheries research
- Physical-biological interaction

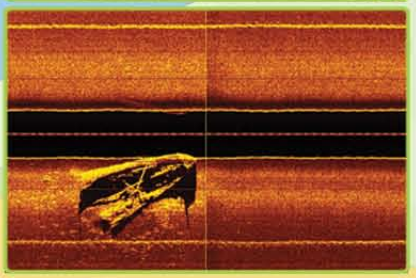
Bottom Mapping

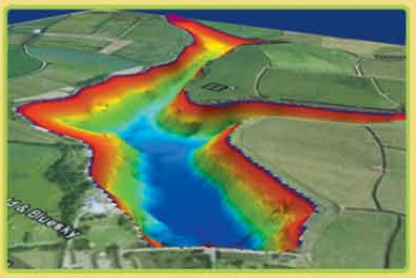
- Depth sensor and acoustic sounder standard
- Side-scan sonar optional
- Requires <1 m water depth

Point Source and Non-point Source Mapping

- Generate high-resolution map of plume
- Track movement of point source
- Map non-point source impacts to environment
- Monitor impacts by industry or development

Data graphs: Water quality, side-scan sonar, and 3-D bathymetry





4 When EcoMapper is on the surface and within Wi-Fi range, view data and monitor progress. Or take manual control over vehicle.

5 Retrieve EcoMapper at planned PARK location. Download data via Wi-Fi link; transfer data to preferred graphing software (software not included).