



# Vertical Profiling Systems

## High resolution vertical water column measurement

Introducing the first line of YSI Vertical Profiling Systems. Available in three different deployment configurations—Fixed, Pontoon, and Buoy—YSI Profiler Systems provide reliable, fully-automated data collection.



The YSI 6590 Fixed Profiling System

- Rugged, non-corrosive mechanical winch and drive mechanism
- Compatible with all YSI 6-Series sondes equipped with depth
- Profile Wizard software for easy set-up and deployment
- ProFile Manager software for data analysis and export
- User-selectable sample intervals
- Optional meteorological package
- Several wireless data transmission options available



The YSI 6591 Pontoon Mounted Profiling System with Meteorological Package

### Fixed Profiling System

- NEMA 4 enclosure for control electronics
- Bottom-referenced control point (physically set and controlled)
- Profiles from the bottom-up
- Mounts on a dam, pier, or piling

#### Applications:

Hydropower: thermal phenomena, temperature

Drinking Water: water quality, homeland security, salinity, DO, pH

Research: upwelling events

Other Industrial Applications: drinking water holding tanks



The YSI 6952 Buoy Based Profiling System

### Floating Systems: Pontoon Mounted & Buoy Based

- Submersible, water-tight enclosure for control electronics
- Optional depth sounder automatically compensates for varying water levels due to tides, reservoir levels, etc.
- Uses top and bottom as reference points for software controlled positioning
- Profiles up or down and parks at any depth
- Redundant error recovery logic that detects unexpected activity and recovers automatically
- Optional “Easy Trailer” deployment mechanism

#### Applications:

Drinking Water Reservoirs: water quality, homeland security, salinity, DO, pH

Research: upwelling events, open water

General: lakes, rivers, estuaries, bays



# Vertical Profiling Deployment

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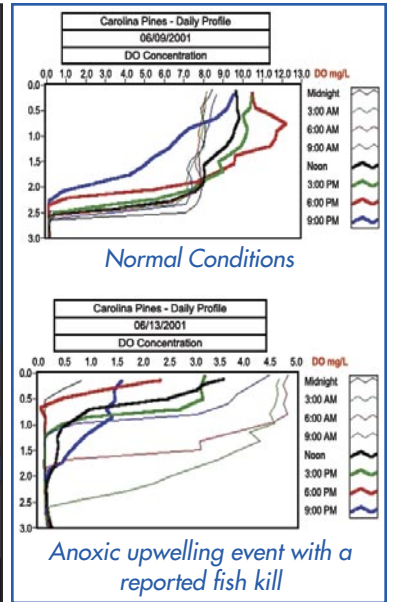
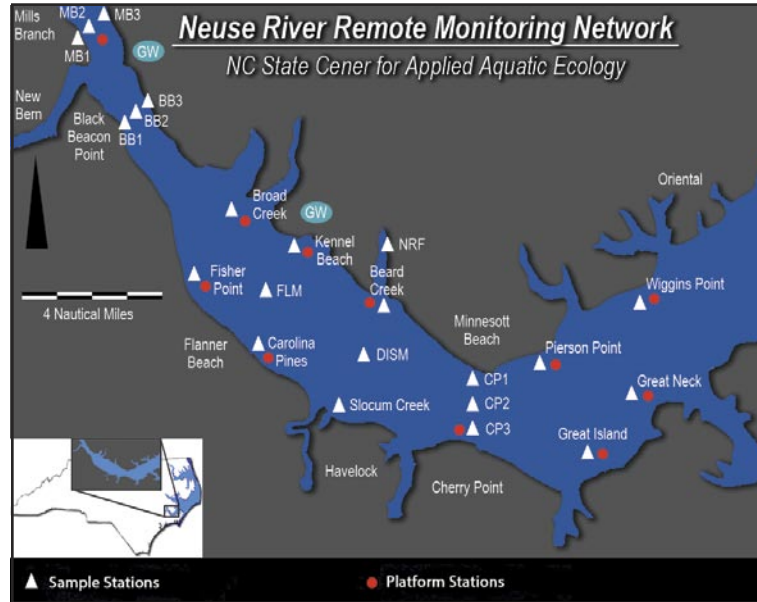
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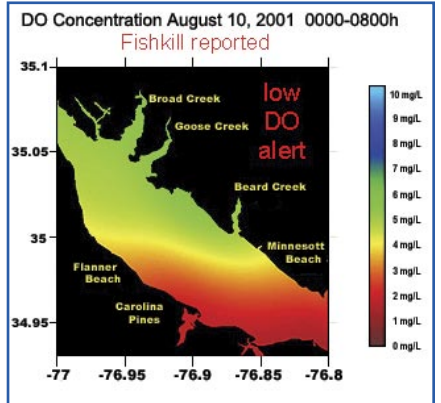
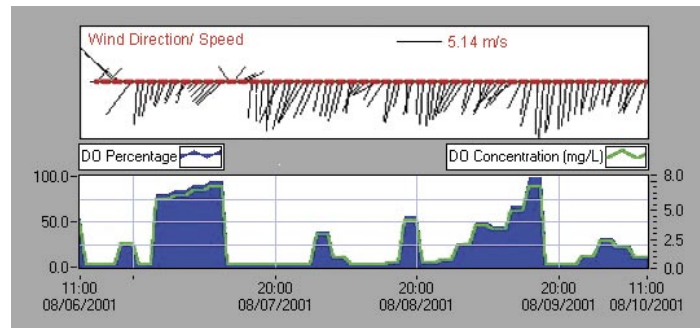
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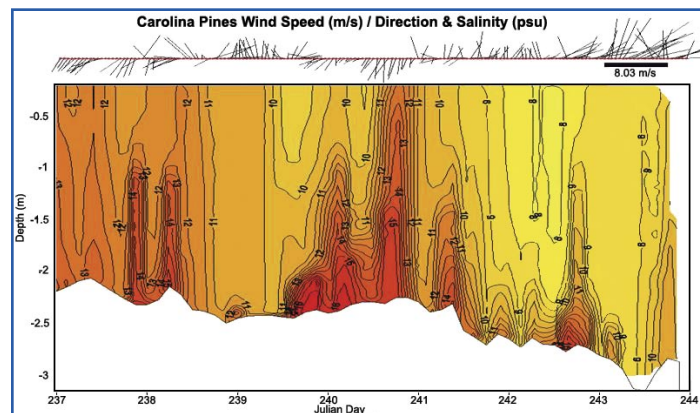


The raw data (above) from a YSI Profiling System can be used for advanced analysis and modeling like wind-driven dissolved oxygen event analysis (left).



Above: Advanced modeling of a low dissolved oxygen concentration event with a reported fish kill.

Left: Advanced analysis of wind-driven salinity trending.



Profiling System Specifications	
Minimum Profile Depth	1 meter
Maximum Profile Depth	50 meters
Depth Profile Setpoint Accuracy	±0.1 meter
Minimum Profile Step Size	0.5 meter
Maximum Profile Frequency	~50% of duty cycle
Standard Payload	YSI 6-Series Sonde with depth
Power Requirement	12V DC 18 ah min
Cable Options	15 meter, 50 meter