



## Vertical Profiling Systems

### *High resolution vertical water column measurement*

Available in three different deployment configurations—Fixed, Pontoon, and Buoy—YSI Profiler Systems provide reliable, fully-automated data collection.



*The YSI 6950 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

### **YSI 6950 Fixed Profiling System features:**

- 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 include:*

- Hydropower: thermal phenomena, temperature
- Drinking water: water quality, homeland security, salinity, DO, pH
- Research: upwelling events
- Industrial: drinking water holding tanks



*The YSI 6951 Pontoon Mounted Profiling System with Meteorological Package*

### **Floating Profiling Systems: 6951 Pontoon-mounted and 6952 Buoy-based configurations feature:**

- Submersible, water-tight enclosure for control electronics
- Optional depth sounder which automatically compensates for varying water levels from tides, reservoirs 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 detects unexpected activity and recovers automatically
- Optional 'Easy Trailer' deployment mechanism

### *Applications include:*

- Drinking Water Reservoirs: water quality, homeland security, salinity, DO, pH
- Research: upwelling events, open water
- General Monitoring: Lakes, rivers, estuaries, bays



*The YSI 6952 Buoy Based Profiling System*

Pure  
Data for a  
Healthy  
Planet.®

[www.ysi.com](http://www.ysi.com)



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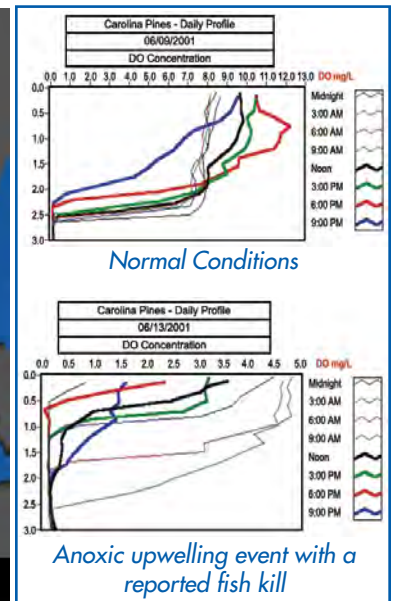
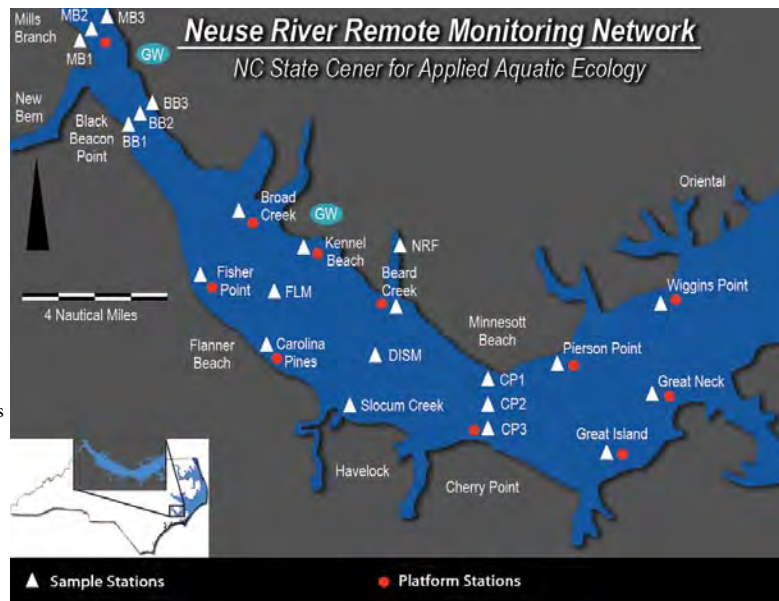
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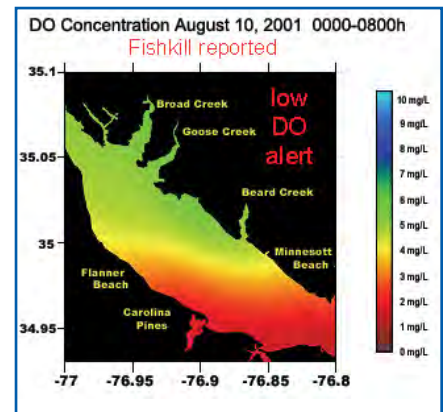
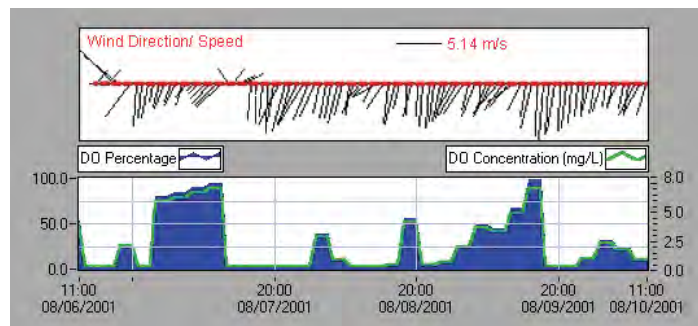
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## Vertical Profiling Deployment

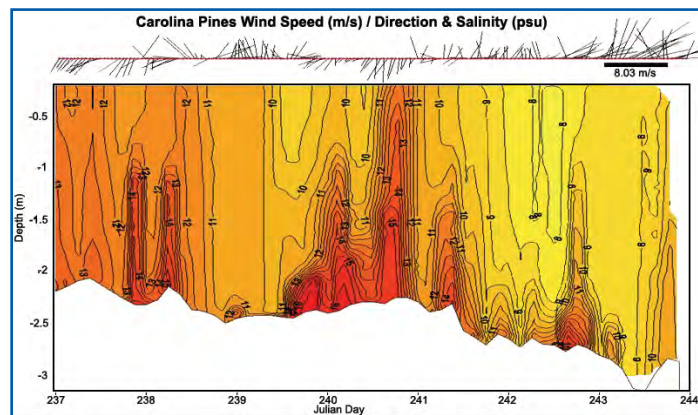


The raw data (above) from a YSI Profiling System can be used for advanced analysis and modeling like wind-driven dissolved oxygen event analysis (left).



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

Left: Advanced analysis of wind-driven salinity trending.



## YSI Profiling Systems Specifications

Minimum Profile Depth	1 meter
Maximum Profile Depth	100 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 vented, 50 meter, 100 meter