

Measurement Technology NW designs and manufactures sophisticated testing and measurement instrumentation systems for a variety of commercial, research, and government clients worldwide.

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*Your source for advanced winch line control and monitoring systems*

## Project Profile #3 – UNOLS/Oregon State University

GLOBEC (Global Ocean Ecosystem Dynamics) is a worldwide oceanographic research endeavor that will ultimately lead to an understanding of how global change affects the ocean ecosystem, its major sub-systems, and help predict the overall impact of change on the abundance, diversity and productivity of marine populations.

Participating in this major project is a regular occurrence for the crew and scientists of the R/V Wecoma, operated by Oregon State University for the National Science Foundation as part of the UNOLS fleet. “A typical year finds us out to sea between 180 and 220 days,” said Marc Willis, Marine Technician Superintendent for OSU. “We get involved in all types of GLOBEC-related oceanographic work - fisheries research, upwellings, climate



studies, and more. The R/V Wecoma’s capabilities make her a popular choice for large-scale, long-term ocean research, but with that demand comes the responsibility to ensure all our ship information systems are up-to-date, reliable and accurate.”

When Marc found that their existing winch monitoring equipment was outdated and no longer supported by the manufacturer, it was clearly time to make a change. Not wanting to replace more than was necessary, Marc completed an inventory of installed winch sensors and equipment, and then began looking at compatible, drop-in line monitoring units that could take over the task right out of the box. All leads pointed toward **Measurement Technology NW.**

“I couldn’t be happier with the decision to purchase LCI-90 and LCI-90R winch monitors from Measurement Technology NW”, confirmed Marc. “The LCI units slipped right into our existing panel cutouts, and they’re easy to program, easy to use, and have been far more reliable than our previous displays ever were. The winch operators really like the one touch counter reset feature, and I like the quick calibration process and the way all the menu functions can be accessed through pushbuttons on the front panel.”

The UL-approved LCI-90 and LCI-90R are rugged, versatile winch line instruments designed to be drop-in replacements for existing line monitoring equipment.



Tension, payout, and line speed are displayed on a high performance 320x240 electroluminescent display for unmatched readability in all light conditions. Four I/O channels and serial networking capability provide flexibility in line monitoring, weighing, or SCADA applications, and the LCI-90 can be linked with up to 32 remote LCI-90R displays to create a shipwide monitoring network.

The R/V Wecoma installation was completed in March, 2002. Marc remembers it well. "Measurement Technology NW was terrific. During installation they helped us figure out solutions to a problem we were having with the encoder interface, and through the whole retrofit process they provided constant support. I didn't expect it to be that easy, but the Measurement Technology NW team either had or were able to track down answers to every question I asked. The product documentation they supplied was first-class, and best of all, the LCI equipment continues to work great. It's one of the few products I've been able to install and then forget about."

Measurement Technology NW produces a wide range of precision line control products, including the LCI-90 and LCI-100 series, WinchDAC, and more. To learn how we can help your company stay on the cutting edge, contact us at 206-634-1308, or send an email inquiry to [lici@mtnw-usa.com](mailto:lici@mtnw-usa.com).

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