



Sediment Traps ❖ Moored Profilers ❖ Remote Access Samplers ❖ Water Transfer Systems ❖ Flotation

## Ice Profiler Sends Real-Time Arctic Data Photo Gallery

Scientists are collecting more data to analyze Arctic climate change thanks to a new instrument - the Ice Tethered Profiler (ITP). The ITP moves along a mooring wire under the ice and automatically transmits daily readings of depth, salinity and temperature via satellite.

The prototype ITP was created in 2004 by WHOI

scientists and test deployed in the Arctic.

During the Arctic test, success of the ITP and other instruments helped to convince the NSF to fund the Beaufort Gyre Observing System through 2008.

McLane Research Labs is building more ITP units for Arctic expeditions in 2006.

### From the Arctic to Mexico!



*MMP Ice Deployment in the Arctic*  
(Photo courtesy of R. Chadwell, University of Alaska)



*Scientists Deploy the ITP Prototype* (Photo courtesy of R. Krishfield)

For the test deployment (shown at left) scientists landed by helicopter and drilled a 25cm hole in a 4m thick ice floe. Read more at: [www.whoi.edu/itp](http://www.whoi.edu/itp). ❖

### Customer Mods Enhance MMP, PPS, RAS-500

In response to customer needs, McLane continues to update our instruments and manuals.

The WetLabs CDOM Fluorometer can now be used with the MMP, variable PPS pumping volumes are available, and a RAS-500 pre-and post-

sample acid flush can be programmed.

Version 2.0 of the MMP Unpacker, a Windows application that unpacks deployment data was released this past October.

The Sediment Trap Manual was also recently updated. ❖



Photo courtesy of E. Tappa, University of South Carolina

*University of Mexico Deployment Near the Gulf of Tehuantepec*

Have any photos of a McLane instrument in the field? Send your great action shots to [mclane@mclanelabs.com](mailto:mclane@mclanelabs.com). ❖



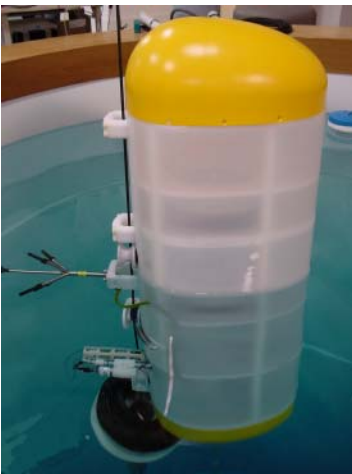
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ADDRESS CORRECTION REQUESTED

## Extended MMP Delivered to APL for Long-Term Mooring

The Applied Physics Laboratory at the University of Washington (APL) partnered with McLane Research Labs to create an extended MMP with a modified drive wheel.



*MMP with Extended Third Sphere*

This MMP is slightly longer than the standard MMP and contains three glass spheres – two for flotation and a third to house a rechargeable battery bank.

For the APL project, this MMP will communicate with an APL embedded controller. The controller commands the MMP to move into an inductive charging station to charge the battery.

The Extended MMP will be deployed on the ALOHA/MARS mooring in Summer 2006. ❖

## McLane Wins Navy Contract

Custom 60" spheres were among steel buoys McLane recently manufactured for the Naval Undersea Warfare Center Division, Newport (NUWC). The buoys were tested in



*NUWC Buoys on the Shipping Dock*

Seneca Lake, NY and deployed for naval sonar testing and calibration at the Naval Test Range near the Berry Islands in the Bahamas. ❖