

# EQUIPMENT LEASING NEWSLETTER

SPRING 2014

**A big THANK YOU to all our customers in 2013 –  
we had a record number of leases!**

*Wave Measurement*

*Current Measurement*

*Ice Measurement*

*River/Stream Discharge*

*Fish Habitat Studies*

*Coastal Engineering*



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## **New Additions to lease pool**

- TRDI 1200 kHz Sentinel WH-ADCP
- RBR XR420 CTD with turbidity
- ASL Acoustic Zooplankton Fish Profiler (AZFP); up to four frequencies available 125, 200, 455 & 769 kHz.
- RiverRay performance upgrade (ISM compass, firmware, etc)
- 8 x Alec CLW turbidity, chlorophyll loggers
- 2 x acoustic transponders
- 4 x SubsA2, and 4 x SubsA3
- 4 x Xeos Iridium beacon
- ORE SPORT Pop-Up



### **CTD Cast**

Want to do a CTD cast and not use a winch or heavy rope? We now offer a fishing rod with the lease of a CTD. The RBR CTDs weigh only about a pound in water and they can easily be profiled with the fishing rod. The reel is spooled with 100 pound test braided line, which is only 0.5 mm diameter. But the best part is that the line changes color every 10 meters so you can keep track of the amount of line out.

## **Interesting Leases in 2013:**

### **Oil Recovery from a Sunken Ship**

Kerry Walsh, Project Manager for Global Diving and Salvage, leased a **Work Horse Sentinel 600 ADCP** to monitor currents for dive scheduling for a very interesting \$50 million operation to remove oil from a sunken navy boat.

70 years ago (1946), the Brigadier General M. G. Zalinski - a US Army transport ship - sunk in Grenville Channel in northwestern BC near Prince Rupert. The Canadian Coast Guard was concerned that nearly 600 tons of thick black Bunker C oil remained in the fuel tanks. Global Diving and Salvage and Mammoet Salvage Americas were contracted to recover the oil and remove the threat using a technique called hot-tapping to safely penetrate the steel vessel. The technique involves divers mounting a valve, securing a drill, and tapping in to pump out the oil. The long narrow Grenville channel is known for swift 4-5 knot currents and unpredictable tidal influences - a tough environment for divers. The ADCP was used to monitor the quickly changing currents for diver safety.



The operation was very successful. All oil was recovered – not a drop spilled!

The project was featured on the TV show Daily Planet on Discovery Channel. To view the show click here: <http://watch.discoverychannel.ca/#clip1060534>. It is the first segment following 2 short commercials.

**“ Reliable Rentals at Reasonable Rates ”**

Check out our rates at [www.aslenv.com](http://www.aslenv.com)

**Largest oceanographic equipment lease pool in North America!**

## Organic Carbon Tracking from the Andes to the Amazon

Dr. A. Joshua West, University of Southern California, is carrying out a research project in Peru. The goal of the project is to track organic carbon from its source during erosion in the Andes, through its transport in the Madre de Dios River and eventually into the Amazon, using new geochemical techniques to understand how river transport contributes to overall cycling of carbon in the Amazon basin. Dr. West leased a **Teledyne RDI 600 kHz** unit and a **Garmin 525S GPS** unit from ASL for the March 2013 expedition. Sediment samples and river flow information were collected for lab analysis.

They chartered a narrow boat - the kind used throughout the Amazon to navigate its chaotic waters - for the trip and set out to measure river cross-sections. One of their research team members, Dr. Valier Galy from Woods Hole Oceanographic Institution, had experience with ADCPs in this kind of context. At each sampling site they measured several cross-sections and then used the ADCP data, available live onto their field laptop in the middle of the Amazonian rainforest, to pick out individual sampling locations where they were to collect depth profiles. The ADCP was vital to determine the flow conditions associated with each given sample.

Back in North America, the team has been busy measuring the grain size and chemical composition of the sediment samples collected and are now in the final phases of tying all of the information together, and look forward to assembling an exciting picture of how flow conditions within the river regulate the composition of the sediments it is carrying. As Dr. West said, **“Without the ADCP, we never could get that kind of information for a large river like the Madre de Dios. ASL did a great job of turning around a quick lease agreement and fitting us with everything we needed to be ready to work in a remote environment.”**

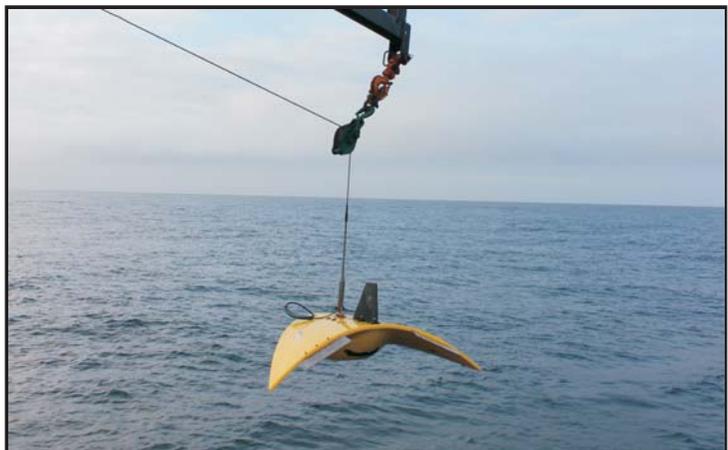
*Dr. Valier Galy and Dr. Camilo Ponton getting the ADCP mounted on a frame for the side of the boat on the Madre de Dios River, Peru. The GPS was mounted on the roof.*



## Surplus Equipment For Sale (make an offer)

**Brooke Ocean Technology BOT Wing 970**

– for towing CTD, ADCP, etc



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