

# EQUIPMENT LEASING NEWSLETTER

SPRING 2013

Wave Measurement

Current Measurement

Ice Measurement

River/Stream Discharge

Fish Habitat Studies

Coastal Engineering



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## One-Stop Shopping:

ASL can provide just the equipment or we can design a full mooring.  
Pick your components:

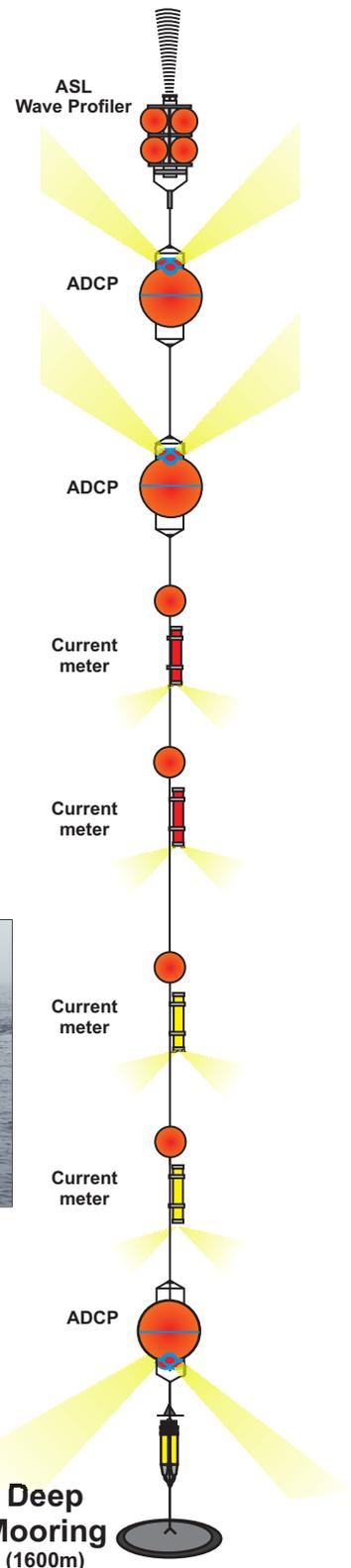
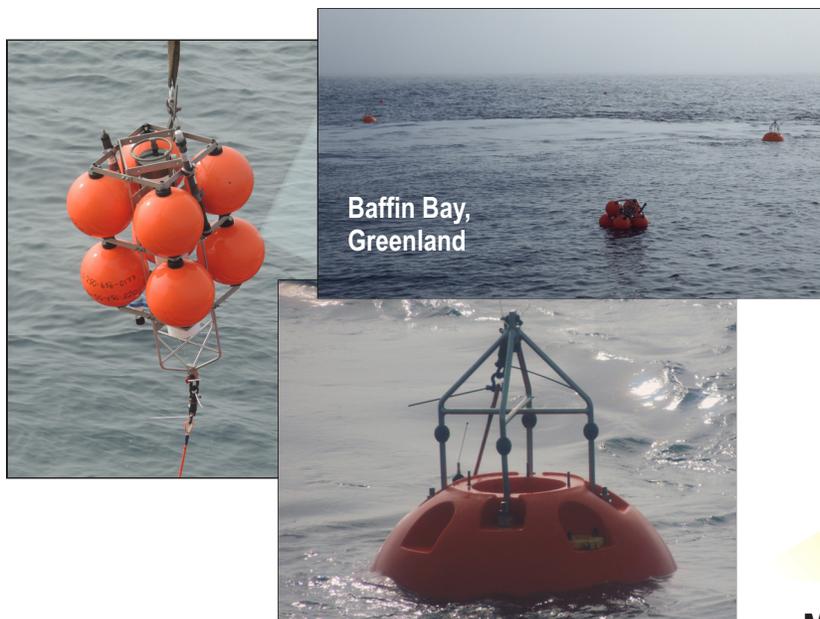
Water quality: ctds, dissolved oxygen, turbidity, temperature,...  
Current profilers  
Ice Profilers  
Wave Profilers

We will determine flotation and anchor requirements, and even splice up the lines.

For more difficult cases flotation and anchor requirements will be based on mooring model predictions.

ASL has provided full moorings for small projects like our work in lakes and coastal areas with Rescan Environmental Services, up to large projects for international engineering firms in ports and harbours and large offshore oil & gas companies in up to 1600m water depth in oceans and seas.

One such recent project was for GEMS International (for Shell Hague) in Baffin Bay, Greenland. Three long taut-line moorings were leased which included 6 ADCPs, 3 Ice Profilers, 5 DVS's, 6 CTDS, and 20 temperature loggers, plus the acoustic releases, satellite beacons, and rf/flashers. ASL designed, deployed, and recovered the moorings. Data processing and analyses was also performed by ASL.



**“ 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!**

## Interesting New Lease Equipment:



The **ASD Field Spectrometer** instrument was leased for field components of several ASL remote sensing projects for a number of government and industry clients in summer 2012. These projects spanned the following application areas:

- Optical characterization of lake waters to improve our understanding of factors that control freshwater survival of Sockeye salmon.
- Airborne hyperspectral mapping of intertidal marine habitat and biomass estimation
- Studies of land reclamation

The ASD Hand Held 2 Field Spectrometer is available as part of our equipment lease pool. We can also provide the services of experienced ASL staff for consulting projects and field programs that are customized to your needs.

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## More is Better!

More instruments have been added to our already huge inventory:

### Teledyne RD Instrument ADCPs:

- 3 new **Quarter Masters**;
- 3 new **Long Rangers**;
- 5 new **DVSs**

So we now have 6 Quarter Masters, 6 Long Rangers, and 10 DVS's available for lease.

### Acoustic Releases:

- 12 **CART**
- 14 **PORT**



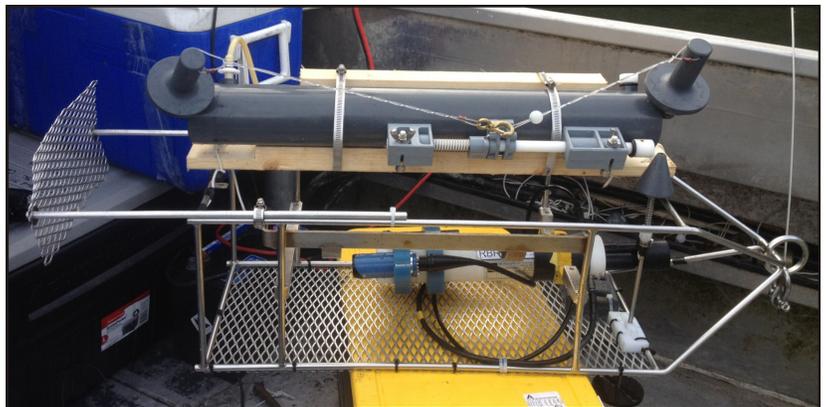
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## CTD Profiles with an RBR-XR-620

Dale McCullough, Senior Field Technologist and Planner for **Archipelago Marine Research**, leased our **RBR-XR-620** recently for CTD profiles in Kitimat Arm (BC coastal). They are doing a marine biophysical baseline study for a liquefied natural gas port that is under construction.

Dale also rigged a water bottle to the CTD cage in order to collect seabed set down water samples. When the cage touched bottom it triggered closure of the Niskin bottle. Video inspection had shown the areas to be clear of bottom debris. The XR-620 worked perfectly and water samples were collected a few cm above the seabed.

Dale says, "I have worked in the marine science business for many years and have known Rick Birch for a similar length of time. I would always turn to ASL first as a source of lease instruments. Archipelago's strength is in marine biology so most of their core tools are biological in nature. I bring more of an instrument oriented oceanographic background to the company so they rely on me to source and operate the type of instruments ASL has. I have always found ASL's equipment to be in excellent working condition and when the operator (me) has issues, the support I get from Rick and Wally is excellent."



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