New Equipment Available for the 2008 Field Season:

**Nortek Vectrino.** The Vectrino is a high-resolution acoustic velocimeter used to measure 3D water velocity in a wide variety of applications from the laboratory to the ocean. This replaces our older Velocimeter. The probe is attached via a 1 m flexible cable, and a 50 m cable connects the submersible datalogger to surface. Sample rates can be set from 1 to 25 Hz.

**Garmin GPS-Sounder 525S.** This unit is a combination WAAS enables GPS, with a dual frequency echo sounder. It comes with an external antenna and serial output for logging to computer. It is perfect for small boat survey work such as ADCP transects and bathymetric mapping.

**Valeport 106 Current Meter.** A low cost, lightweight alternative to more expensive flow meters. Can be run in real-time using the 50 m cable, or moored in self-contained mode. Real-time operation is via a command unit, or through a PC. It is ideal for coastal and estuarine applications, and other light duty survey work.

**ASL has lots of ADCPs to lease:**

There are now 15 RDI ADCPs in the lease pool:

- 1 at 150kHz
- 3 at 300kHz
- 8 at 600kHz
- 2 at 1200kHz
- 1 at 2MHz

As well as several Norteks:

- 4 Aquadopps,
- 2 profilers (600 & 1000 kHz)
- And the 2MHz Vectrino

If acoustics scare you, we also have a couple of rotor & vane current meters Including the new Valeport 106.
**Importance of insurance!**
Insurance is generally required to protect against loss or flooding. Fish bites are another good reason!

![Fish bites to ADCP head:](image1.jpg)

![ADCP Y-cable chewed through:](image2.jpg)

**Recent clients include:**
- IMV Projects, Beaufort Sea
- Marathon Oil, Equatorial Guinea
- Battelle, Columbia River
- Woods Hole Group, MA
- Jacques Whitford, BC
- HDR/LMS Nanuet Lab, New York
- Sea Engineering, California
- Water Wall Turbines, BC
- NaiKun Wind Development Inc., BC
- G-3 Consulting Ltd
- Hay & Co.
- Golder Associates Ltd, Alberta
- CIMA, Quebec
- Manitoba Hydro
- Weston Solutions
- Tollhouse Energy Company, NWT
- Sandwell Engineering, Vancouver
- Coastal Leasing Inc., MA
- PNL, Washington
- Rescan Environmental, Vancouver
- Coastal Villages Region Fund, Alaska
- Vancouver Port Authority
- Aquametrix Research, BC
- Seavision
- Middle Bay Sustainable Aquaculture
- Strait Solutions
- Polaris Applied Sciences, WA
- Coastal & Oceans Resources Inc., NS

**NaiKun Wind Farm**
NaiKun Wind Development Inc of Vancouver BC plans to extract power from the plentiful winds of Hecate Strait. They will install wind turbines on Dogfish Bank, a shallow area to the east of Haida Gwaii (Queen Charlotte, BC).

The design criteria for construction and installation of the turbine towers require knowledge of the current velocity and wave field. Dogfish Bank experiences strong tidal currents, and severe winter storms. Wave heights could reach 10 m or more. ASL was contracted by Sandwell Engineering to measure current velocity profiles and directional waves over the winter of 2006-2007. A heavily weighted, low profile bottom frame was used to house the ADCP instrument.

For more ASL projects see ASL’s Solutions Newsletter

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