



# Solutions ENVIRONMENTAL SCIENCES

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The Newsletter For The Aquatic Sciences

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## Sediment Transport Study

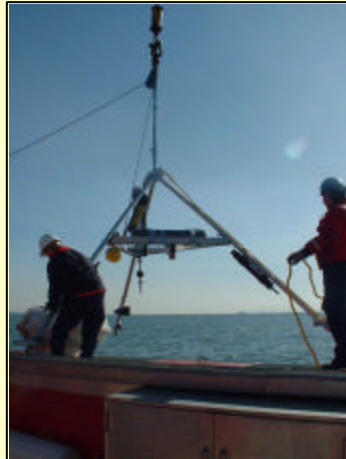
In February 2002, ASL was contracted by the Geological Survey of Canada (Pacific Geoscience Centre), for the provision of a custom sediment transport measurement system for deployment in the Fraser River delta foreslope area of the Strait of Georgia in BC, Canada. This represents one of the components of the Georgia Basin Geohazards Initiative.

This system used a combination of off-the-shelf and custom elements to measure waves, currents, optical backscatter and sea bottom imaging, all assembled in a custom tripod. Included were a Nortek 1MHz Profiler, a Coastal Leasing MiniSpec, 2 Applied Microsystems Ltd. OBS Sensors, and an Imagenex Scanning Sonar.

ASL designed the frame as well as a custom data logging and control module for the Imagenex scanning sonar instrument.

ASL deployed, and one month later successfully recovered, the system from the Canadian Coast Guard Hovercraft, the CCG SIYAY.

Data recovery was 100%, with data processing presently underway.



## ICE PROFILER™

### Canadian Coast Guard Uses ASL Ice Profiler

ASL has completed an order from the Canadian Coast Guard for a real time Ice Profiler instrument for use in monitoring ice drafts in the St Lawrence River in Quebec.

In a related contract, ASL provided software development services to provide an accurate, real time display of water speed, ice speed, ice direction and ice draft, derived from real-time Ice Profiler and ADCP data.

These displays will be available on the DFO website.

### Ice Profilers and AUV's

Dr. Nicole Tervalon of Monterey Bay Aquarium Research Institute in California attended an intensive training session at ASL in processing AUV IPS data which was collected in October 2001 in the Arctic near Svalbard, Norway.

## Aquaculture on BC Coast

Current and wave studies for a fish farm siting off Port Renfrew, BC have been carried out by ASL for the Pacheedaht First Nation, using a 300kHz RDI ADCP in a current/wave mode, set in a gimbed mount.

## Tidal Current Predictions for Glostén Associates

ASL's tidal current predictions of slack tide for passages through the Kuril Islands and La Perouse Strait, Russia, prepared for summer 2001 marine operations, were found to be very accurate. The marine operators responsible for navigating the oil platform through the strait at 3 knots, were very pleased with the predictions. More tidal current predictions are being prepared for the upcoming summer.

## ASL Celebrates 25 Years!

ASL held a 25<sup>th</sup> Anniversary celebration on April 19<sup>th</sup>. About 50 local clients and associates from Sidney and Victoria, BC attended. Everyone enjoyed BBQ, refreshments, and cake.

## Meet Us at Events

ASL will be attending the following trade shows & conferences. We would welcome the opportunity to meet with you.

ASLO		June 9-14	Victoria, BC
ULS Workshop		July 1-3	Tromsø, Norway
HydroVision 2002	Booth #848	July 28-Aug.2	Portland, Oregon
Wave Hindcasting & Forecasting		Oct 21-25	Banff, Alberta
Oceans 2002	Booth #617	Oct 28-31	Biloxi, Mississippi

