



## ***Ice Profiler™ News***

### **CRREL Buys Another Ice Profiler**

A second Ice Profiler has been purchased by Oceantronics for the USACE-CRREL. The first was bought last year. The Ice Profiler will be deployed in the Chukchi Sea in the Arctic Ocean, north of the Bering Sea.

### **ASL Improves Canadian Coast Guard Ice Monitoring Station**

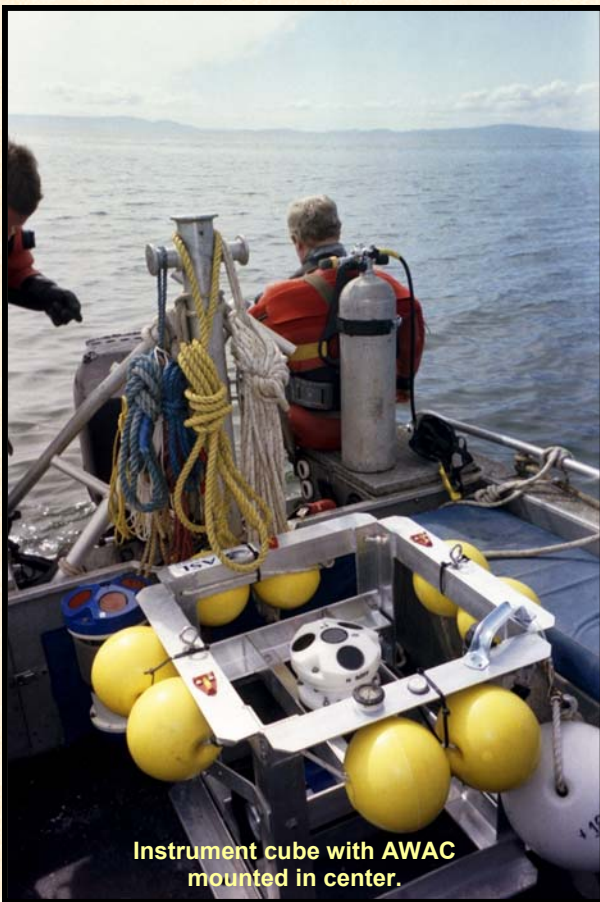
ASL has been contracted by the Canadian Coast Guard, Quebec Region, to provide software enhancements to the output of Ice Profiler™ (manufactured by ASL) and Acoustic Doppler Current Profiler (ADCP) instruments which form part of an ice monitoring station on the St. Lawrence river, in the Lake St. Pierre area. The ice monitoring station is part of the St Lawrence River Ice Manager (SLRIM) system, covering the Montreal-Quebec reach of the river, designed to provide the CCG with tools to identify in a more timely and efficient manner the appropriate operational measures to prevent and/or break ice jams, taking into account prevailing ice and environmental conditions. The overall objective is to prevent flooding caused by ice jams while maintaining the efficiency and the safety of commercial navigation throughout the winter.

The ice monitoring station has been in successful operation since 2001 and the current enhancements are designed to improve graphics and provide a near real time display of water speed, ice direction and ice draft to be incorporated in a Coast Guard intranet web site.



### Delta Port Expansion Project

The Vancouver Port Authority in BC, Canada wants to expand it's container business near the Tsawwassen terminal. They have contracted ASL to obtain long-term wave and current data for use in engineering and environmental studies in support of dredging operations for the container port expansion project. ASL has purchased and tested a Nortek AWAC, and designed a custom diver-serviceable bottom frame mount for the VPA. The instrument was deployed this April by ASL and divers from Foreshore Technologies Inc, at the mouth of the Fraser River. It will collect data for the next year or more. The AWAC was recovered, refurbished and redeployed for the first time in June. The mooring consists of a base with weights and levelling bolts and a separate instrument cube which is attached after the base is set by divers. For refurbishment, only the instrument cube is recovered.



Instrument cube with AWAC mounted in center.

### ASL Goes to VENUS

ASL is providing an initial installment of four of its Water Column Profiler™ instruments for application on the VENUS observatory project off Canada's West coast. VENUS (Victoria Experimental Network Under the Sea) is an ambitious project, headed by the University of Victoria, BC Canada to provide three underwater cables (total length 70km) supplying power and fiber-optic communications to a number of instruments measuring a wide range of marine data. The first phase of this project into Saanich Inlet is scheduled for installation in 2004.

ASL's Water Column Profilers will be used to provide continuous monitoring, in real-time, of acoustic backscatter returns from the water column, which are related to zooplankton abundance. VENUS scientists will use the ASL Water Column Profilers to develop improved understandings of this underwater acoustic technique to monitor zooplankton abundance and vertical migration in the ocean.

In support of the VENUS project, ASL is contributing to the novel VENUS project through a significant discount on the price of these four Water Column Profiler products.

For more information, see our web site and [www.venus.uvic.ca](http://www.venus.uvic.ca)

### ASL Completes Fifth Year of Oceanographic Studies for Sakhalin Energy

ASL has successfully completed its most recent contract with Sakhalin Energy Investment Company of Russia, providing deployment and recovery of instruments (with Russian partners) and analysis of ice, current, tide and other data from three regions off southern and central portions of Sakhalin Island.

This latest contract included data gathered for input to the design of a new oil terminal planned for the region. This marks the fifth year of extended measurement programs, spanning the winter and spring months, by ASL, which has involved extensive cooperation with Sakhalin-based companies as well as training of Russian technicians on ASL Profiler equipment in Canada.

### Meet Us at Events

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

Ocean Innovation 2004	October 24-26	Victoria, BC
Oceans '04	November 9-12	Kobe, Japan

