



Solutions ENVIRONMENTAL SCIENCES

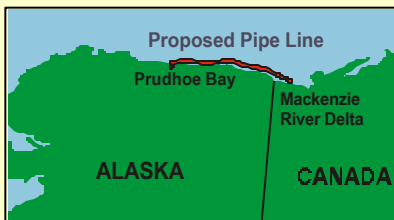
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The Newsletter For The Aquatic Sciences

November 2001

ASL Goes "Over-the-Top"

ASL is preparing the physical environmental portions of the Environmental Impact documents for the proposed marine-based gas pipeline from Prudhoe Bay, Alaska to a landfall site on the Canadian coast of the Beaufort Sea (the Over-the-Top route). This project is being carried out under subcontract to LGL Limited of King City, Ontario, for the Alaska Gas Producers Pipeline Team (AGPPT). ASL is responsible for the sections of the environmental summaries on the physical oceanography (currents, waves, water masses, ocean acoustics), Sea Ice evaluations (areal distributions, thicknesses and potential for bottom scouring), marine permafrost issues and related aspects involving meteorology and chemical water properties.



ICE PROFILER™

Real Time Ice Monitoring on the St. Lawrence River

ASL has recently modified the firmware of an *Ice Profiler* being used by the Canadian Coast Guard in order to provide a real time serial output. In addition, pc-based software to display the data was also supplied by ASL. This will allow the Coast Guard to provide real time monitoring of ice conditions in the St. Lawrence River.

Another AUV Application

Dr. Fukamachi of Hokkaido University, Japan has ordered a modified version of ASL's *Ice Profiler* for installation aboard an AUV owned by KDDI Corporation and manufactured by Mitsui Engineering and Shipbuilding Co, Ltd. of Tokyo. The AUV is planned to begin a cruise off the coast of Hokkaido in February of 2002. This is the second sale of an *Ice Profiler* for AUV applications, following a sale to the Monterey Bay Aquarium Research Institute earlier this year.

More Modeling

Following the success of our Stage I numerical modeling work for Columbia Power Corporation, British Columbia on the Columbia and Pend d'Oreille rivers, (see July 2001 Newsletter) ASL has been awarded a new contract for Stage II of this project which will extend and re-calibrate the model with more detailed bathymetry data. Field measurements by ASL encountered flows of up to 4 meters per second at the Waneta Dam tailrace. The model will be used to help predict the impact of a proposed expansion of generating capacity at the Waneta Dam.

Sakhalin Energy

Sakhalin Energy has contracted with ASL to refurbish and re-deploy *Ice Profiler* and ADCP instruments at three sites off Sakhalin Island, Russia. This contract is a continuation of a project that ASL has been engaged on since 1996.

Way Up North

ASL has completed a contract with the Arctic and Antarctic Research Institution of St. Petersburg, Russia under which ASL sold and deployed two *Ice Profilers*, along with other instruments to measure ice drafts and velocities at two locations in the Pechora Sea over the coming winter.

The data from these instruments will be used by Conoco and Lukoil in the design of offshore tanker loading terminals.

Meet Us at Events

ASL & ASL A_QFlow will be attending the following trade shows & conferences. We would like to have a chance to talk to you.

ASL

Oceans 2001 November 6-8 Honolulu, Hawaii
Oceanology Int'l UK March 5-8 London, England

ASL A_QFlow

URHP December 10-12 Prague, Czech Republic
HydroVision 2002 July 28-Aug. 2 Portland, Oregon



Syntactic Foam Floatation collars were used with all the instruments – they withstand ice impact better than traditional floats.