Ice Studies in Alaska's Cook Inlet for an LNG Terminal

ASL Environmental Sciences, Canada, has secured a contract for a 3-year metocean-ice study programme in Cook Inlet, Alaska for the proposed Alaska LNG Project terminal site. This turnkey metocean programme includes programme management, a protected species observer (PSO) vessel, HSE lead, data processing and analysis, and engineering input.

During the summer and autumn of 2014, ASL deployed 3 Ice Profiler/ADCP moorings close to Nikiski, Alaska, on the Kenai Peninsula. Each mooring consisted of an Ice Profiler, ADCP, CT, and OBS Turbidity and was mounted in ASL's own designed bottom frame or a taut-line mooring. An additional 8 ADCP moorings have been deployed through the northern Cook Inlet from June to October 2014. Sediment transport and sand waves will be studied in this highly dynamic area (6 knot currents). Later in October, the 8 moorings were replaced with 4 custom-built heavy-duty frames each containing an Ice Profiler, ADCP, CT and OBS (see image). ASL will return to the sites biannually to download data and service the moorings.

Image: ASL trawl-resistant LowPro5x7IceProfiler/ADCP mooring.