

# Equipment Leasing Newsletter

March 2003

*Wave Measurement*

*Current Measurement*

*Ice Measurement*

*Sediment Transport*

*Fish Habitat Studies*

*Coastal Engineering*

# ASL

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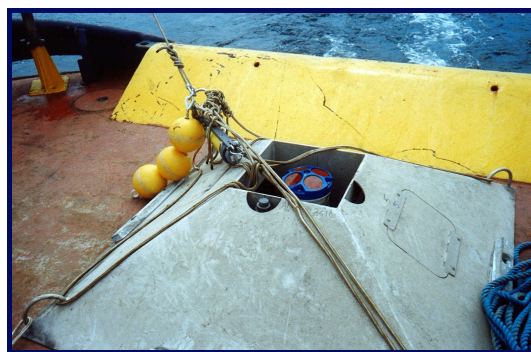
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## NEW ASL EQUIPMENT OFFERED FOR THE 2003 FIELD SEASON

- Three Acoustic Doppler Current Profilers (ADCP's) from RD Instruments. The ADCP's are 600kHz Workhorse Sentinels equipped with wave measuring firmware, extra memory and external battery cases to allow extended deployments.
- A 600kHz Nortek Profiler
- Four EdgeTech Cart Releases for use in taut-line moorings or with pop-up buoys
- Another Applied Microsystems STD 12+ CTD
- Richard Brancker Research RBR: two XR-420 tide gauges and a DR-1050 pressure gauge

## PUSHING THE LIMITS ON WAVES

Marathon Oil has contracted ASL to lease and deploy, over a 15 month period, 3 RDI 600 kHz ADCP's, as well as a 600 Nortek current profiler, 3 low-profile bottom frames designed by ASL and 3 EdgeTech Cart pop-up buoys. The contract is for an ongoing current and wave study along the coast of Malabo, Equatorial Guinea, Africa. The RDI ADCP's each have 880MB memory and two external battery cases to accommodate the high sampling demands.



*RDI 600 kHz ADCP in an ASL low-profile bottom frame, ready to be deployed off West Africa.*

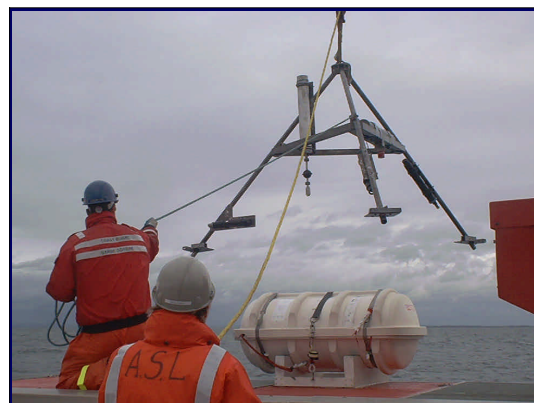
## TILT PINGER

ASL has developed a tilt-pinger which can be used to confirm that your bottom frame was deployed upright. These are available for lease or sale.

## SEDIMENT TRANSPORT

ASL now offers a full suite of instruments for sediment transport studies including:

- Imagenex 881A multi-frequency scanning sonar
- Optical Backscatter (OBS) Sensors
- Acoustic Doppler Current Profilers, with directional wave capability
- Marsh McBarney near-bottom flow sensor
- These instruments can be mixed and matched and added to our 'Norton' bottom tripod.
- Norton has been recently deployed on the Fraser River delta, BC, as part of a study for the Canadian Government.



*First recovery of 'Norton' on the BC coast.*

## OTHER RECENT CLIENTS INCLUDE:

**Simon Fraser Univ., Dept. of Biological Sciences/National Wildlife Research Inst., CWS** - 2 Aquadopp and a 1000kHz Nortek Profiler for a study of ducks in arctic polynyas.

**Pacific National Aquaculture** - 3 Nortek Aquadopp current meters for fish farm site assessment.

**Band Lavis & Associates** - 1MHz Nortek Profiler to measure currents & waves in a tidal river.

**US Dept. Energy, Pacific NW Lab** - leased a 300 kHz Workhorse ADCP for transects upstream of hydroelectric dams.

**Lorax Environmental** - Nortek Aquadopp current meter for a lake project in E. Canada.

**Genium** - Nortek Aquadopp, 2 RBR XR-420 Wave Gauges, and 1 RBR DL-1050 pressure logger for a study of tides in Ungava Bay.

**" Reliable Rentals at Reasonable Prices "**

ASL continues to offer all equipment to our U.S. clients F.O.B. Bellingham, WA.