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Lighthouse R & D Enterprises, Inc. completes a successful retrofit of its cabled ocean observatory off the coast of Oman

Houston, Texas, 25 September, 2010 – Lighthouse R & D Enterprises, Inc. mobilized to undertake a complete retrofit of the first Lighthouse Ocean Research Initiative (LORI I) system installed with the cooperation of the Oman Ministry of Fisheries Wealth. This system measures current velocities, oceanic physical properties, and dissolved oxygen of the seawater off the coast of Oman. The LORI I system has been in place since 2005 and is connected to a shore facility via fiber optic cable, allowing full duplex capability.

Existing current meters and sensors were replaced with instruments and sensors reconfigured for optimum performance and best data quality. Additional cathodic protection and new, anti-biofouling measures will improve on the previous configuration of the system by decreasing the need to return to the site for maintenance. “This retrofit capitalizes on our collective research experience and developmental efforts accumulated during the 5 years that we have operated and maintained the LORI I system,” said Douglas Potter, project manager with Lighthouse.

The Lighthouse Seismic Tsunami Early Warning System (STEWS) measures seismic activity and overlying water pressure in real time in order to provide an early warning of approaching tsunamis. STEWS was also retrofitted with additional cathodic protection during the LORI I expedition, in order to protect the sensitive instruments from corrosion, thus increasing STEWS’s longevity.

The crew embarked aboard the DSV Texas on 7 September in Hamriyah, UAE and, after completing the retrofit, disembarked in Hamriyah, UAE on 25 September, 2010. Initial data, received real-time in Houston, gives confidence that the retrofit was a complete success.

See <http://www.lighthousehouston.com> for additional information and video animations on Lighthouse R & D Enterprise, Inc. and its products.

Lighthouse R & D Enterprises, Inc. focuses on the research and development of technical applications for the marine environment and sources innovative ideas and technical breakthroughs that can be applied or modified to support the acquisition of reliable time-series data using the latest advances in technology.
