

Güralp and Sonardyne to Provide Seabed Exploration and Research Technology



Seismic monitoring instrumentation and solutions provider Güralp Systems and Sonardyne International have signed an agreement to cooperate in the provision of cutting edge multidisciplinary ocean bottom research technology, including capabilities for an earthquake or tsunami detection. The official Teaming Agreement between Güralp and Sonardyne, announced at the recent European Association of Geoscientists and Engineers (EAGE) conference in London, will enable the two companies to collaboratively provide more advanced and efficient technology for in-situ seismic and seabed monitoring.

Digital Feedback Tri-axial Broadband Seismometer

At the heart of the cooperation is Güralp's Aquarius Ocean Bottom Seismometer (OBS). Comprising of a digital feedback tri-axial broadband seismometer, three-axis magnetometer, a micro-electric mechanical system (MEMS) accelerometer and absolute pressure gauge, Aquarius is also equipped with Sonardyne's 6G Wideband low-mid frequency (LMF) acoustics.

Available in two variants, the Aquarius is capable of 12 or 18-month deployments depending on the system options selected. These options include instrument configuration, the transmission of the state of health and triggered event or snippet data transmission at up to 9,000 bps.

Tsunami Detection System

6G-inside capability also means that Aquarius is compatible with a range of other Sonardyne technologies, including Ranger 2 Ultra-Short BaseLine (USBL) positioning and telemetry, as well as its unmanned surface vehicle (USV) GPS-Acoustic payload box and Tsunami Detection System.

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