GWL Seismobuoy™

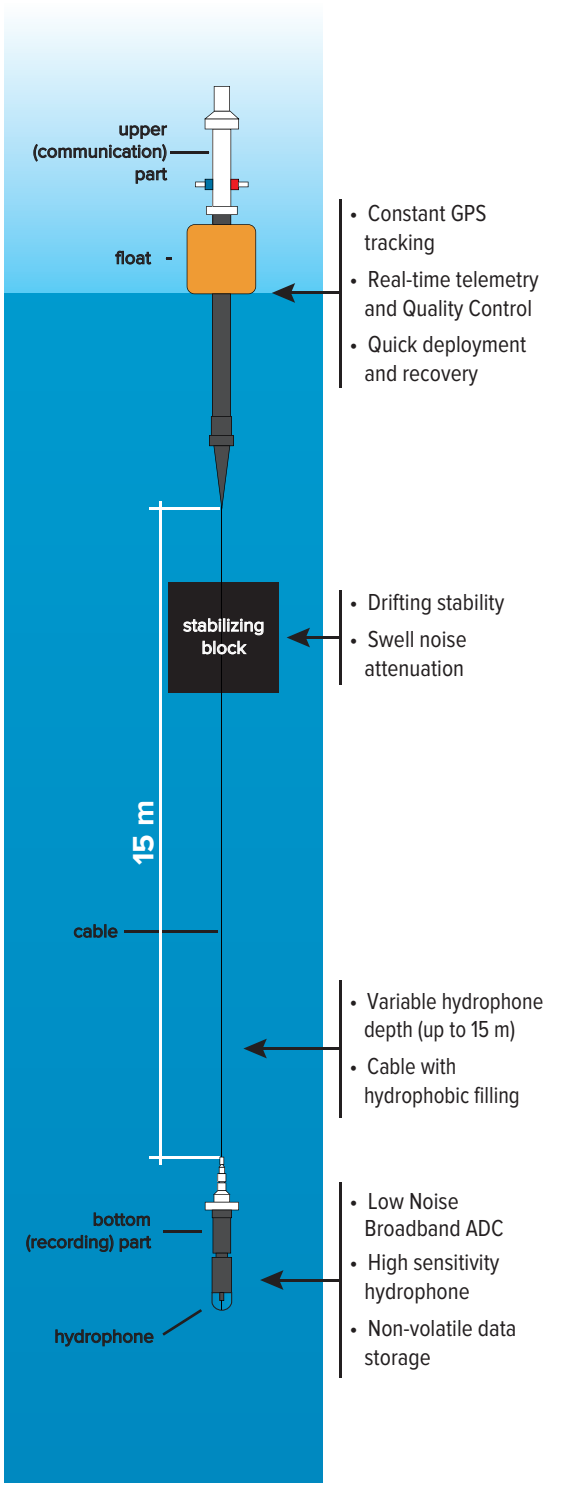
GEOLOGY WITHOUT LIMITS GROUP

The Next Tool for Recording Long-Offsets

GWL Seismobuoy™ is a free floating standalone seismic recording device designed to record ultra-long offset seismic data at up to 120 km offsets. GWL Seismobuoy™ sensor frequency range of 1-1000 Hz is perfect for recording low frequencies, which can be beneficial both for FWI data sets and deep targets illumination. Real-time GPS positioning and online QC gives it substantial advantage in comparison to OBS/OBN surveys for a given type application. Operational costs of GWL Seismobuoy™ based surveys are drastically lower than traditional techniques, especially on deep water. Actually, GWL Seismobuoy™ is the only available on the market device that allows deployment of dense arrays to record seismic data with required offsets and high spatial resolution and is able to maintain the same speed of data acquisition as the towed streamer seismic.

GWL Seismobuoy™ is patented and has been tested and certified.

The GWL Seismobuoy™



Technical Parameters

Frequency Range	1–1000 Hz
Hydrophone Sensitivity	-191-/+ dBV re 1 µPa @ 20°C, 27.22 V/bar
ADC Resolution	24 bits
Sample Interval	8; 4; 2; 1; 0.5; 0.25 ms
Timing accuracy	80 µs
Real-time Location Tracking	Data channel
Operating Life	Up to 11 days of continuous record

Comparison of available long-offset acquisition techniques

	GWL Seismobuoy™	OBN/OBC	Multi-vessel surveys
No limitations on recording offsets	✓	✓	✗
No limitations on water depth	✓	✗	✓
Precise positioning	✓	✗	✓
Real time tracking and QC	✓	✗	✓
Eco & fishing activities friendly	✓	✗	✗
Portable solution	✓	✓	✗
No demand for specialized vessels	✓	✗	✗
High production rate	✓	✗	✓
Cost-effective	✓	✗	✗