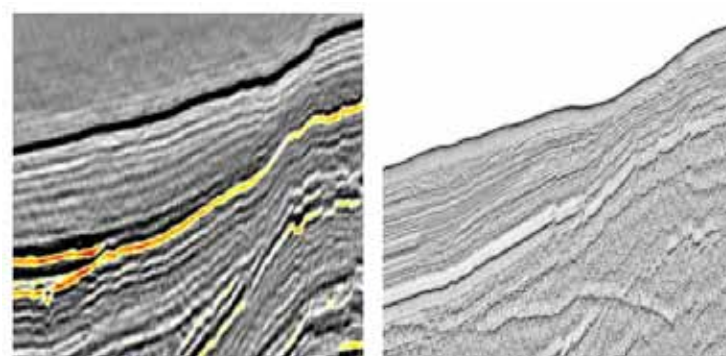
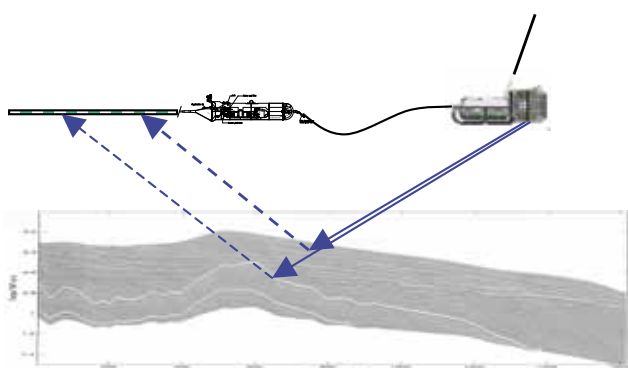


## Deep towed seismic system for very high resolution survey

SYSIF is a new deep-towed seismic system designed for very high resolution near-bottom marine seismic surveys up to 6,000 m.

Deep water geological studies: geohazards, sedimentary characterization, slope's instabilities, rifts, underwater volcanism.

Local underwater studies: underwater cables or pipelines, offshore systems, wreck research.



Classic Surface seismic section    SYSIF THR seismic section

### Operating characteristics

**Depth operation: 6,000 m**

**Dimensions: L 2.40 m x W 1.70 m x H 1.30 m**

**Weight: 2.27 t to 2.40 t**

**Survey at 2 kt and 100 m from the seabed**

- ➔ **The system includes 2 seismic sources:**
  - THR (650-2000 Hz) vertical resolution: 0.6 m
  - HR (250-1000 Hz) vertical resolution: 1 m
  - Transmitting power 196 dB (ref 1 $\mu$ Pa at 1 m)
  - Data rate 1 s
  - Chirp frequency modulated impulsions 20-400 ms
- ➔ **Bi-channels seismic streamer**  
6 hydrophones, sensitivity-160dB (ref 1V/ $\mu$ Pa)  
Digitalised on the deep-towed
- ➔ **Seismic Data**  
SegY format and Altitude correction



This new equipment is highly innovative and provides, in very deep sea, the same resolution as in shallow water.