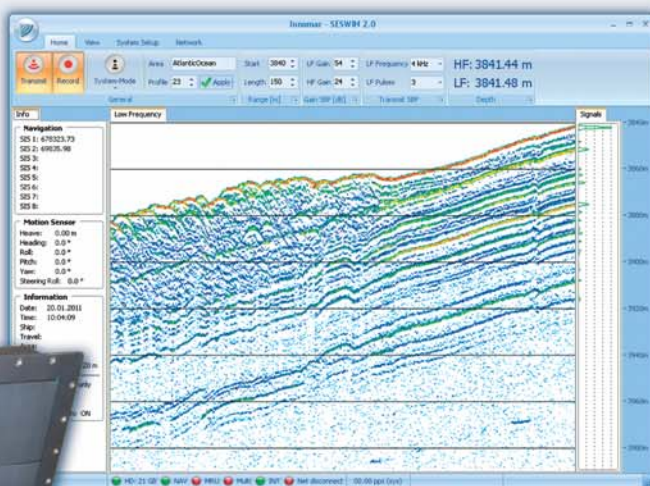




Top-side unit ►



▲ Screenshot of the operating software

Transducer ▼



► **Performance**

- water depth range: 5 – 6,000 m (option 10,000 m)
- penetration: up to 150 m, depending on sediments
- layer resolution: up to 12 cm
- motion compensation: heave, roll, pitch (option)
- beam width @ 3 dB:  $\pm 1.5^\circ$  / footprint  $< 5.5\%$  of water depth for all frequencies

► **Transmitter**

- primary frequencies: approx. 36 kHz (band 30 – 42 kHz)
- secondary low frequencies: 2, 3, 4, 5, 6, 7 kHz (band 1 – 10 kHz)
- primary source level:  $> 245$  dB/ $\mu$ Pa re 1 m
- pulse width: 0.15 – 5 ms
- pulse rate: up to 40/s
- multi-ping mode
- pulse type: CW, Ricker, LFM (chirp)

► **Acquisition**

- primary frequency (echo sounder, bottom track)
- secondary low frequency (sub-bottom data, multi-frequency mode)
- sample rate 48 kHz @ 24 bit

► **System Components**

- transceiver unit 19 inch / 16 U (WHD: 0.52 m x 0.74 m x 0.50 m; 95 kg)
- transducer with frame excl. cable (WHD: 0.90 m x 0.30 m x 0.90 m; 335 kg)
- system control: internal PC
- KVM remote control

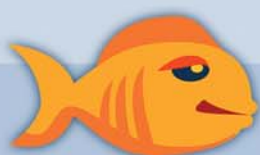
# SES-2000 deep-36 Parametric Sub-bottom Profiler

► **Software**

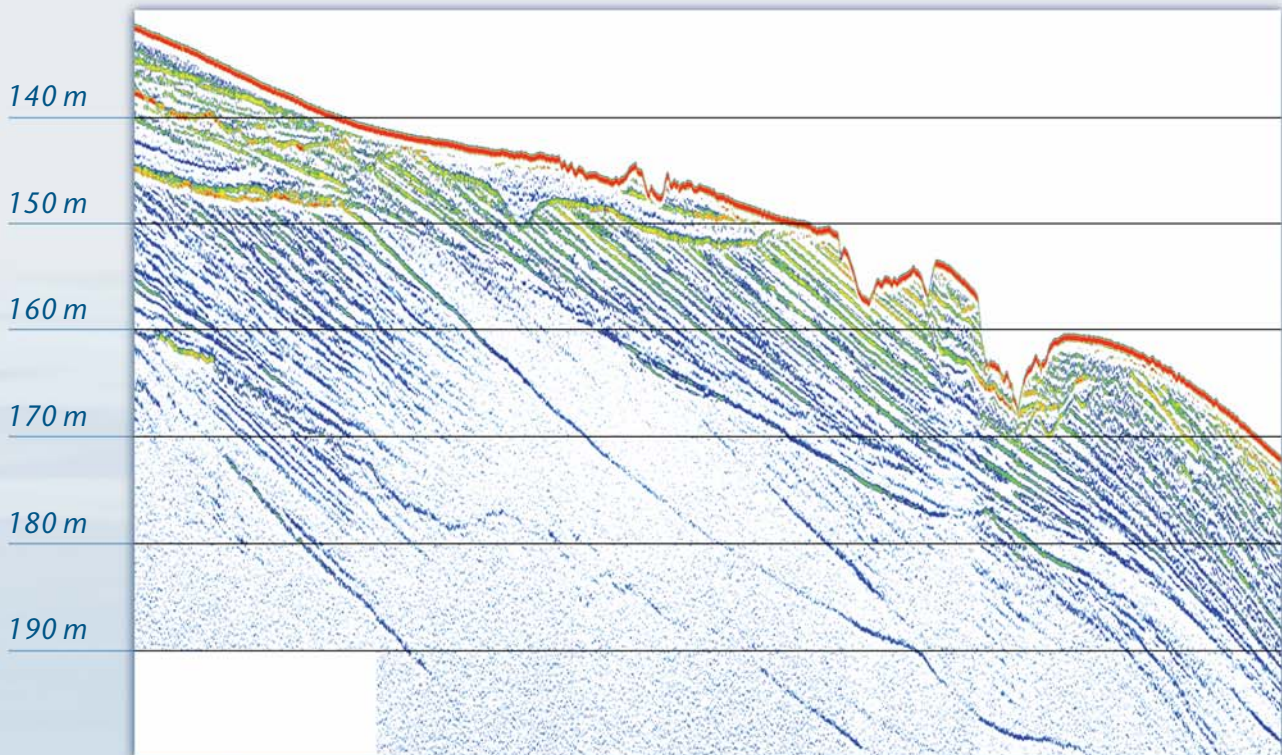
- SESWIN data acquisition software
- SES Convert SEG-Y/XTF data export
- SES NetView remote display
- ISE post-processing software

► **Power Supply Requirements**

- 100 – 240 V AC / 50 – 60 Hz
- power consumption:  $< 1.200$  W

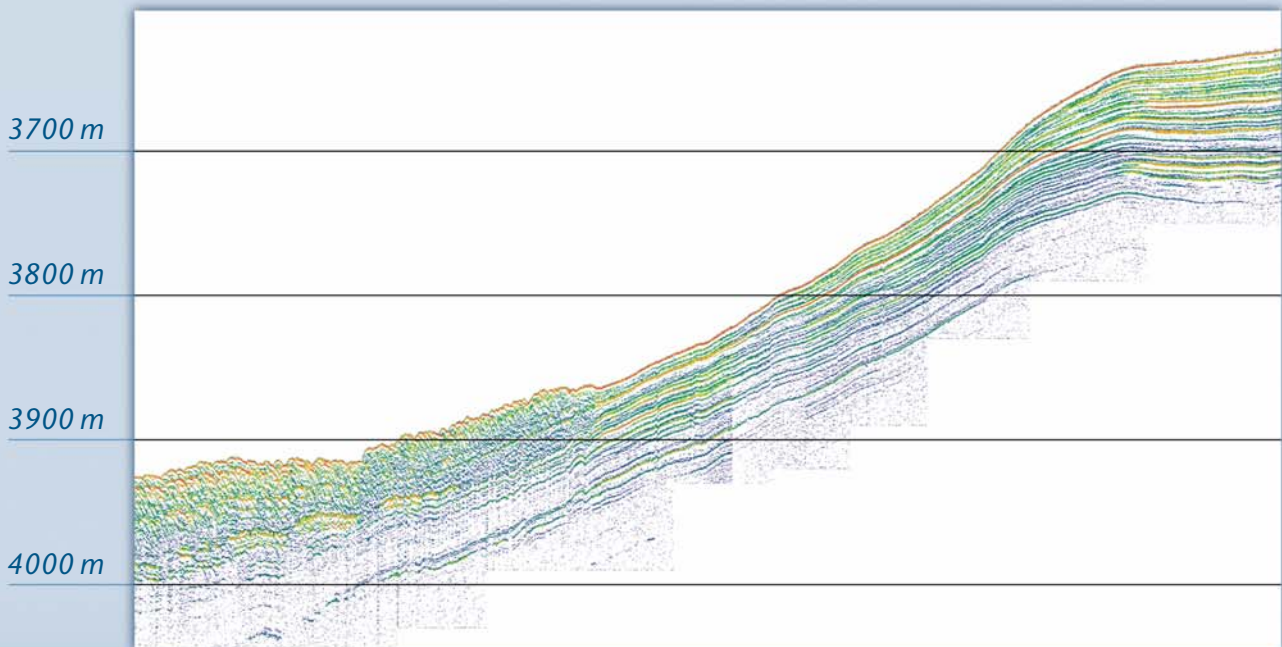


## Survey examples of SES-2000 deep-36



*South Korean Coast echo plot example*

*Frequency 4 kHz, pulse length 750  $\mu$ s, profile length 11 km, survey speed 13 knots*



*Atlantic Ocean (Argentina) echo plot example – Frequency 4 kHz, pulse length 1500  $\mu$ s, profile length 65 km*

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