

SOSI

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GEO-DROME

» Geophysical Deepwater Research Observatory

Standard Features

3 seismic channels

- Frequency range of registered seismic signals, 0.03-40 Hz
- Complete dynamic range of digital registration, 120 dB, not less

1 seismic-acoustic channel

- Frequency a range registered seismic-acoustic signals, 0.5 - 100 Hz
- Complete dynamic range of digital registration, 80 dB, not less

Azimuth Meter

- Range of measurements of azimuth angle, 0-360 degree
- Error of measurement of azimuth angle, 1 degree, no more
- Kind of a output signal, Digital

Hydrophysical unit

- Range of measurement of current velocity vector, 0.5 – 300 cm/s
- The basic error of measurement of speed, 2% fr. V meas. cm/s
- Range of measurement, directions of velocity vector current 0 – 360 degree
- The basic error of measurement of a direction, ± 2 degree
- Range of measurement of temperature, -2 + 32 OC,
- The basic error of measurement of temperature, $\pm 0.010C$
- Range of measurement of pressure, 1 – 600 bar
- The basic error of measurement of pressure, 0.25 %
- Range of measurement of electrical conductivity, 0.2 – 7 siemens/m
- The basic error of measurement, 0.005 siemens/m

Sensor of magnetic field vector unit

- Measurement range, ntesla, 20000...100000
- The basic error of measurement, ntesla ± 1

Underwater spectrum analyzer

- Spectral range, (Vis) 415-800 nm
- Passband, (Vis) 9cm (0.54nm on 783.2 nm (Ar)
- Accuracy of positioning, ± 0.2 nm
- Number of spectral channels, 4400 (Vis)
- Minimum access time, 20 ms
- Field of sight, 2 x 10mm

Module of Radioactive Pollution Control

- Gamma-spectrometer (type of the detector) NaI (TI)
- Energy range of registered gamma-quantum 100 – 3000 keV
- Minimum detectable activity of Cesium-137
- Detectible activity in sea water 3 – 5 Bq/m³

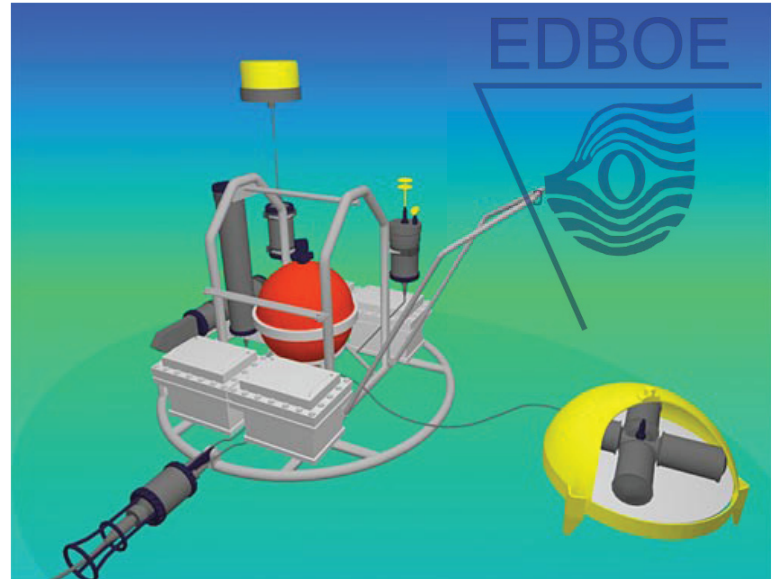
Underwater complex

- Internal storage capacity, 2000 Mbyte

Wire (fiber-optic) telemetry

- Kind of communication Duplex
- Total speed of transfer of the digital information, 460 kBaud
- Range of communication, 10 km, not less
- Noise stability of communication channel 10-7, not worse

Hydroacoustic facilities for accurate positioning in geographical and local coordinates are available



Sound Ocean Systems, Inc., is the exclusive reseller of EDBOE (Experimental Design Bureau of Oceanological Engineering of the Russian Academy of Sciences) in the United States. EDBOE possesses extensive experience in the development, manufacture and supply of subsea research instrumentation. These sensors and systems are used around the world in hydrology, hydroacoustic, geophysics, geomorphology, geology, ecology and for the monitoring of coastal zones.

The GeO-DROME is a unique oceanographic, multi-disciplinary, geophysical ocean observation system for measuring bottom and near-bottom phenomena. The GeO-DROME system is perfect for geophysical and geochemical research of near-bottom stratum of the world oceans. This device is typically used to research both nature and man-made ecology disaster situations in seas and costal zones. The investigation of such phenomena may include earthquake zones, tsunami zones, deep ocean exploration, continental shelf exploration and inland basin work.

SOSI would welcome an opportunity to become an equipment supplier for your company. SOSI resells the full EDBOE equipment line. Systems are available in a variety of configurations and are custom ordered to meet your requirements. For additional information on EDBOE, you may visit their website at www.edboe.ru. **SOSI**

*Specifications subject to change