



**GLOBAL SYSTEM OF THE OBSERVATION AND
MONITORING OF THE GEOLOGICAL
STATEMENT OF THE SHELF**

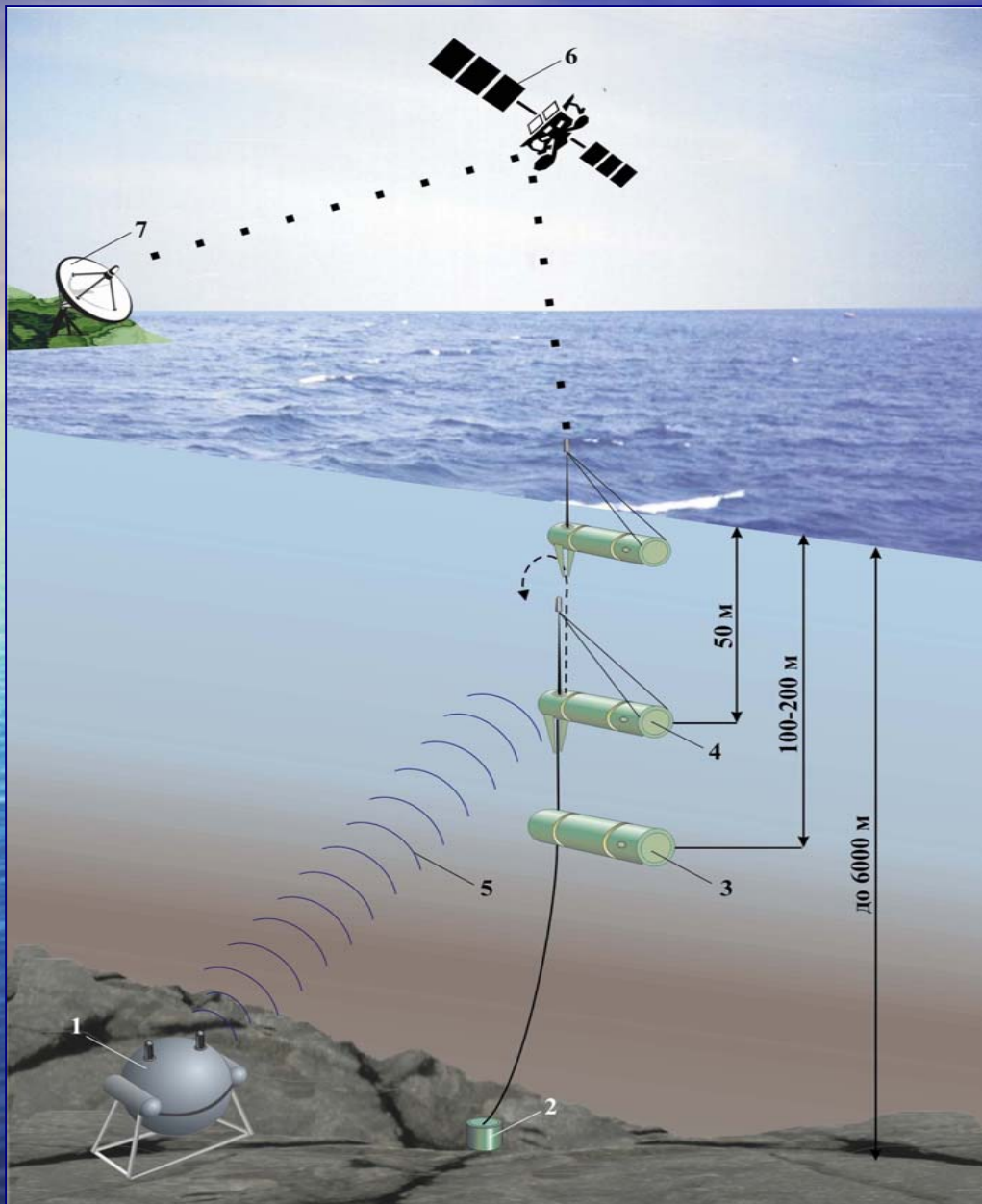
**WITH USING OF THE LONGTERM AUTONOMOUS BOTTOM
GEOECOLOGICAL STATIONS AND TRANSMISSION OF THE
MEASUREMENTS VIA SATELLITE**

Implementation Plan

In the defined points of the shelf the bottom station must be deployed. The given station must measure the parameters in the permanent regime. The measuring data transmit to satellite for 2 variants:

1. normal – from 1 time per day to 1 time per week
2. urgent – after appearing of the anomaly data

(using of the separated modules is the possible)



System consist of:

1. the measuring modules, situated from each other on distance from 50 to 300 m:

2. the self-release anchor

3. the ballast

4. the self-release collector of the measuring information using the hydro acoustic channel (5) with the speed 300 Bit/c (emanation power - 1 Wt, signal duration - 0.25×10^{-3} c, frequency - 150 kHz)

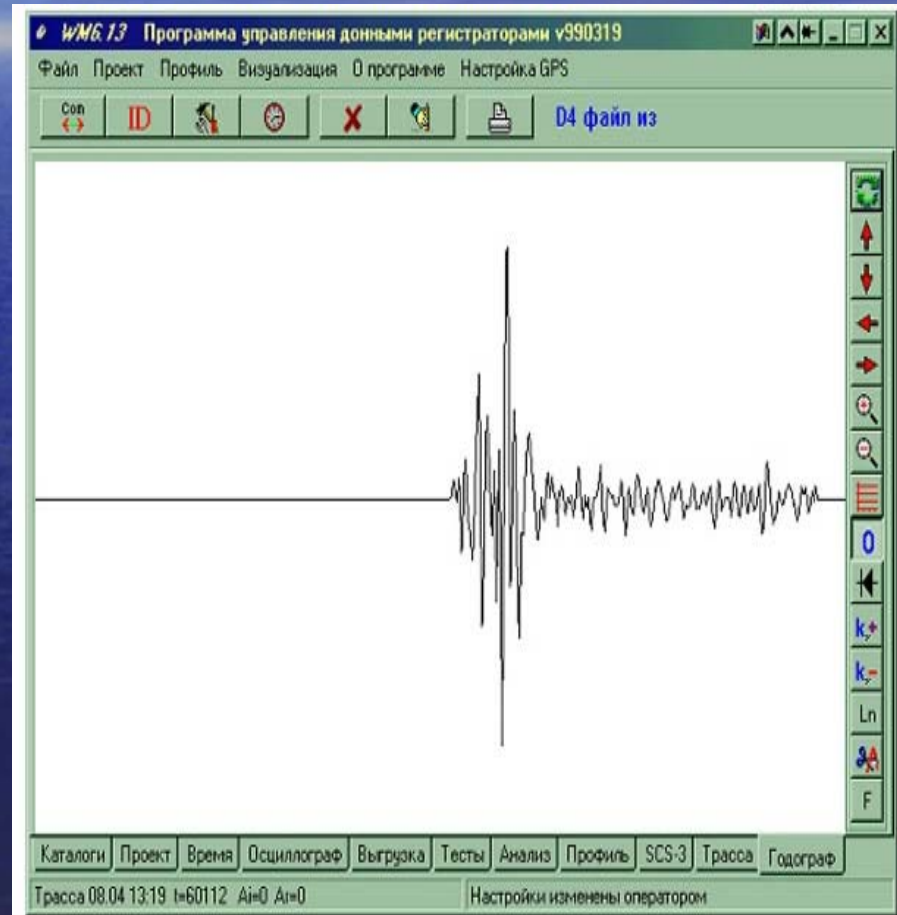
6. the satellite (the transmission speed from the bottom station to satellite is a 1 200-2 400 Bod)

7. the Coastal Monitoring Center (the transmission speed from the satellite to Coastal Center is a 4 800-9 600 Bod)

Microseismic module

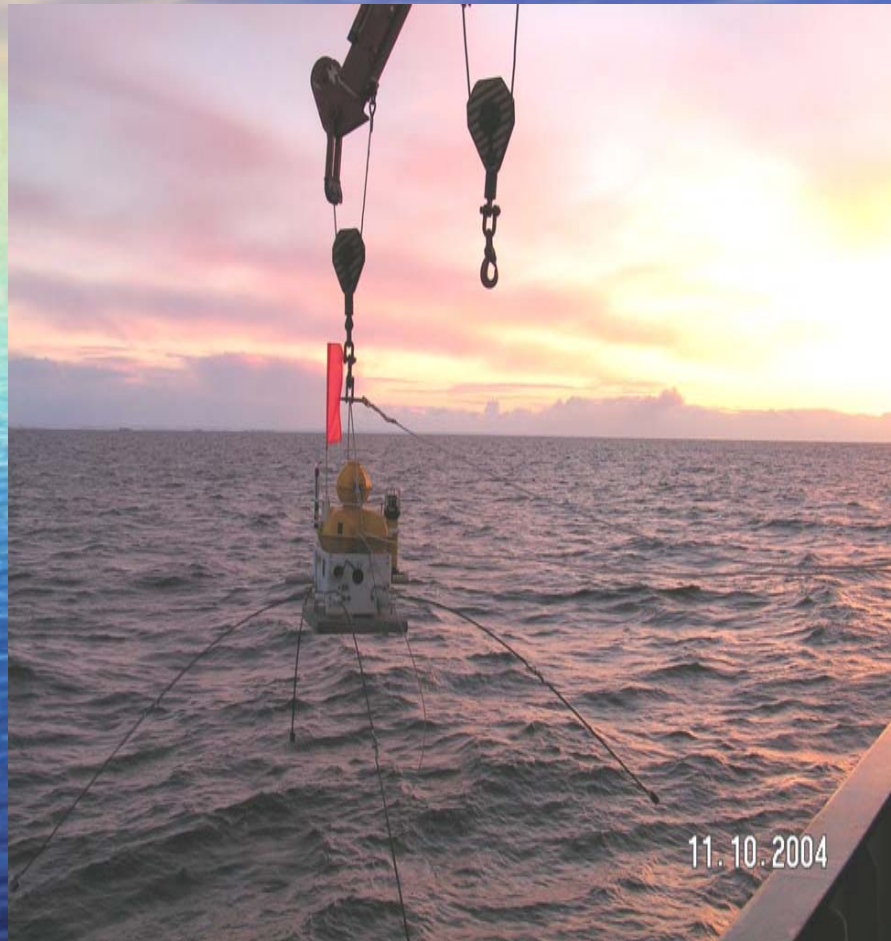


Real example of the module (SMG)

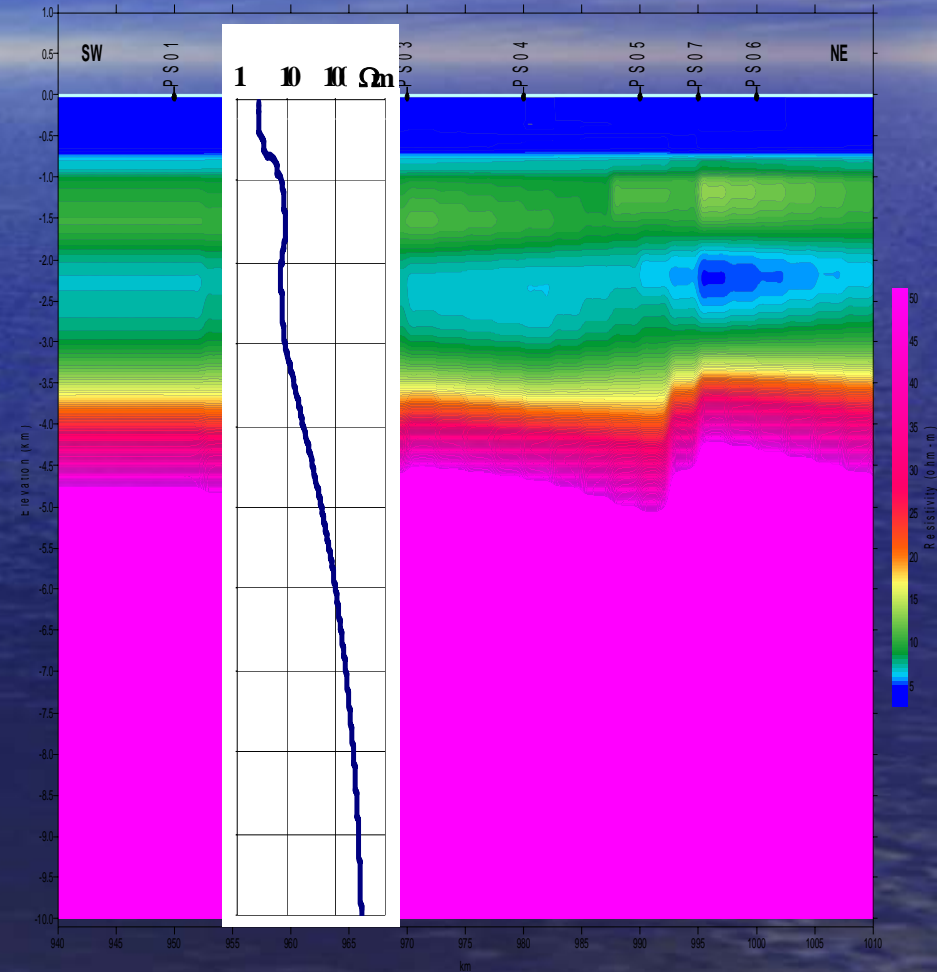


Example of the module recording

Electromagnetic module



Real example of the module (SMG)



Example of the module recording

The total sum for realization of this project:

**1 Coastal Center of the measurements
receiving and treatment
- 5 sets of the bottom station**

is \$ 3.5 mln

Thank you for your attention!