



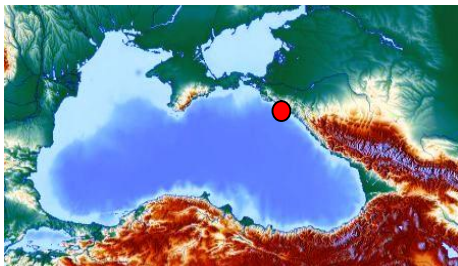
# Project Profile

## Gas Hydrate prognoses



**Target**  
**Country**  
**Region**  
**Area**  
**Geological objectives**

- Prognoses of Gas Hydrate deposits in sub-bottom sediments of the Black sea basin with application of High Resolution Electromagnetic technique
- Russia Federation
- Black sea basin
- South Eastern slope and Tuapse trough
1. Detection of Gas Hydrate within sub-bottom sediments
  2. Assessment of Gas Hydrate Stability zone (GHSZ) thickness
  3. Detection of free Gas accumulations below GHSZ
  4. Development of High Resolution Electromagnetic technique for Gas Hydrate deposits prognoses



### METHODS

Integrated set of three TDEM-IP electromagnetic methods was applied

I- Induced Induced Polarisation

II- Second Seismo Electrical Effect

III- Induced Polarisation

IV – Seismic 2D

V- High Resolution seismic

VI – Sub- bottom soil sampling

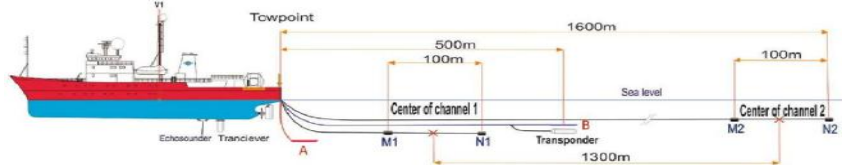
### FILED TECHNIQUE S

Dipole Receivers array – 1300 ÷

Symmetrical Source line- 400 ÷

Record length – 15 sec

Fold - 40 (5x8)



### RESULTS

1. An evidences of Gas Hydrate occurrence in sub- bottom sediments were detected in HREM – IIP and IP data
2. The area of Gas Hydrate accumulation was mapped within the northern flank of the Tuapse through
3. The thickness of Gas Hydrate saturated sediments was estimated

