How do we conduct research
We are honoured to presents innovative technology of ThermoVision Tomography (TVT) for prospecting of Earth’s mineral resources.

Solutions provided by nonsimultaneous space survey and multi-altitudinal aero survey include:

- Geology (Prospecting of onshore and offshore mineral resources – oil, gas, water);
- Diagnostics of oil-and-gas pipelines;
- Ecology, forestry management;

The geoinformational outcome of the research include:

- 3D models of thermal field of the Earth;
- vertical and horizontal profiles (sections) of geological environment at a given depth;
- maps of spectral indicators of environment-landscape systems;
- prognostic maps of mineral deposits.
The algorithm of study

Comprehensive analysis of multispectral aerospace data both onshore and offshore is done on the basis of IR and visible imagery, maps of the terrain and bathymetry. The technology of Thermovision Tomography of the geological environment is based on the processing of an image in the thermal infrared range 8-14 microns. The technique allows to calculate the effective density of the thermal flux and block-fault structures at any given depth.
Interpretation process results in the formation of a 3D model of geological environment; dynamics of the geological environment and rock thermal characteristics are ascertained.
To detect sources of contamination it is required to understand the most probable ways of migration of hydrocarbons and deep waters through fault lines to the surface.

Then areas of high correlation of abnormal vegetation stress index ISN and probable hydrocarbon contamination outlets and man-caused ecological damage are highlighted.

3D Model Of Block-Fault Structures, Overlaid With The Map Of Dynamics Of Natural Environment \( \Delta ISN \), «Landsat» Data

Examples Of Faults In Vertical Section (Profile) View And Horizontal Section (Map) View
TVT technology advantages

- Short execution period: 1 000 sq.km. — 3-6 months; 5 000 sq.km. and above — 7 months
- More economical vs. traditional methods
- Physical presence is not required
- Regardless to relief, terrain and seabed conditions (Inc. complex fault structures)
- TVT has no problem identifying oil reserves even due to interference from gas clouds
- Enables possibility to build vertical and horizontal profiles of block-and-fault structures at any given depth and in any direction
- Maximal Depth: up to 100 km
- Zero environmental impact
8 - hour seminar for clients specialists:

“Reading and interpretation of TVT materials”
Thank you