# ZOND SOFTWARE

OVERVIEW

Software for the interpretation of geophysical data is widespread. Depending on the nature of the application, they encompass many different directions in geophysics. Many of these programs are for seismic data interpretation. The ZOND software package is oriented mainly for near surface geophysics. The package was developed during the 21st century and includes applications for electric prospecting, seismic, magnetic and gravity surveys. The main focus is on DC and AC resistivity methods, however modules for seismic interpretation are planned for the near future.
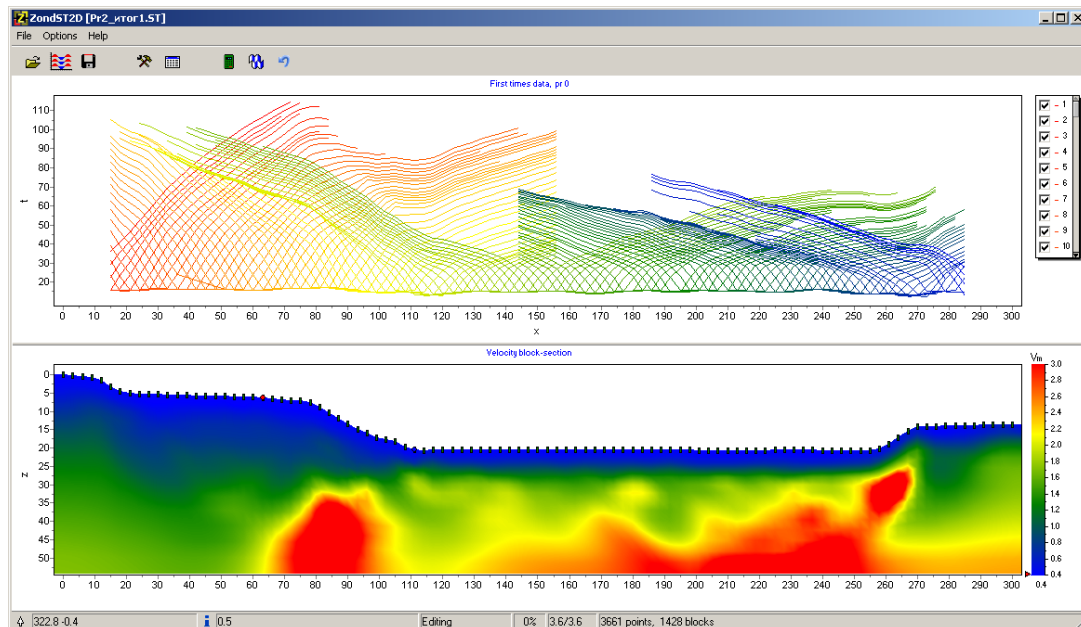
During the development of the software, special focus was put on a user friendly interface and simplicity of use, the variety of visualization facilities, and accounting for a priori data. Numerous variants of borehole and other geological data mapping are included. Depending on the interpreter's idea of the cross- section type, programs give the user an option to choose specific data interpretation algorithms. Easy-to-use control systems allow the user to choose from the great number of equivalent results which are geophysically or geologically valid.

The user-friendly, intuitive interface and wide range of data presentation options allow geological problems to be solved with maximum efficiency. All ZOND programs are built using the same principle. Therefore, by mastering one you will easily be able to work with the other programs. Programs "understand" each other, which allows to interchange data from different methods between the programs, promoting a more holistic approach to data interpretation.

ZOND Software Package for data processing, analysis and interpretation

POTENTIAL METHODS

ZondMag2D	2D gravity and magnetic data interpretation (versions Ground, Airborne)
ZondPGM	2D gravity and magnetic data interpretation in polygonal way
ZondMag3D	3D gravity and magnetic data interpretation
ZondSP2D	2D electric self-potential data interpretation
ZondSP2Dp	2D electric self-potential data interpretation in polygonal way

ELECTROMAGNETIC METHODS

Geometrical EM Sounding and Profiling:

ZCGViewer	calculation and visualization of electric resistivity profiling graphic maps and apparent resistivity maps (for different arrays)
ZondIP1D	VES and VES-IP 1D data interpretation
ZondHED1D	VES 1D data interpretation with induction effect calculation
ZondRes2D	Resistivity + IP 2D data interpretation (versions Land, Marine, Borehole)
ZondRes2Dp	Resistivity + IP 2D data interpretation in polygonal way (versions Land and Borehole)
ZondRes3D	Resistivity + IP 3D data interpretation (versions Land, Marine, Borehole)
ZondCHT	Resistivity, IP and EM logging 2D data interpretation (specialized for borehole measurements)

Induction EM Sounding:

Natural Source

ZondMT1D	MT (AMT, RMT) 1D data interpretation
ZondMT2D	MT (AMT, RMT) 2D data interpretation

Control Source (Frequency Domain)

ZondVMD1d	FDEM sounding with vertical magnetic source dipole 1D data interpretation
Nemfis1D	electromagnetic scanner (Nemfis) 1D data interpretation

Control Source (Time Domain)

ZondTEM1D	TDEM sounding 1D data interpretation for source loop and electric dipole.

SEISMIC

ZondST2D	Seismotomography 2D data interpretation
ZondST3D	Seismotomography 3D data interpretation

SPECIAL SOFTWARE

SectionEditor	Software for geological –geophysical section creation
BHEditor	The software for lithological columns creation
Z3DModView	Software for 3D visualization of 2D inversion results