GeoExplorer SSV

Technologies for seismology, engineering and geophysics

The GeoExplorer SSV software, included in the GeoExplorer suite, allows for the processing of data recorded with the DoReMi© or third-party seismographs for the search of possible water reservoirs.

The SSV technique employs imaging and data processing methods to highlight potential high-frequency reflectors associated with granular material that could indicate an aquifer. The module enables the interpretation and modeling of the data to provide possible depths of the identified targets.

For more information, please visit **www.sara.pg.it** or **info@sara.pg.it.**

◆ The GE SSV software load .drm or .seg files from third-party seismographs and enables data processing with different tools, visualizing it with different types of displays, making it easier to interpret and pick reflections of interest. By selecting the depth conversion mode, it provides a 1D model with the corresponding depths of the identified targets.
The technique requires a high SPS to perform an adequate spectrum computation for the high frequency reflector identification.
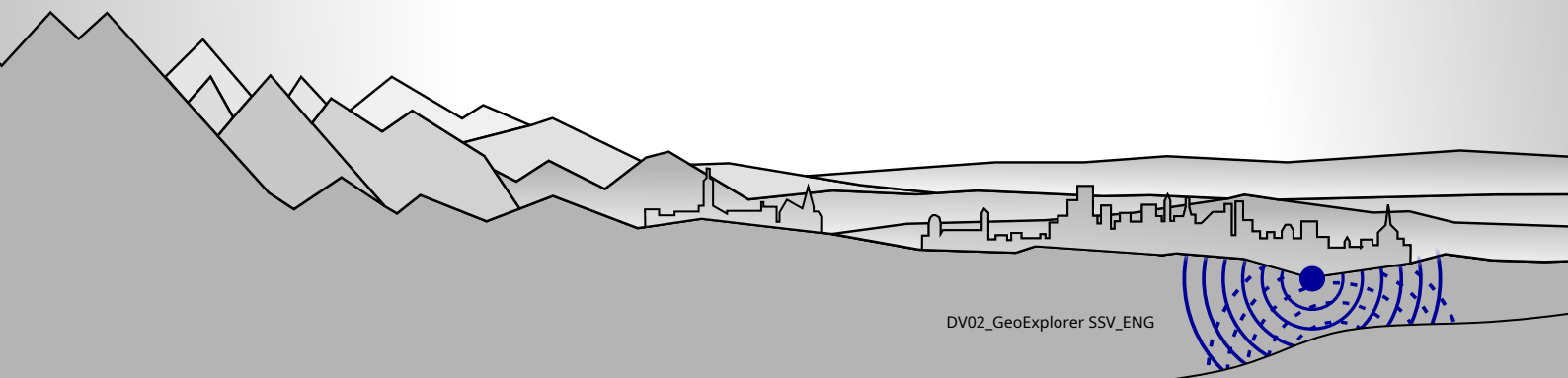
◆ The GeoExplorer suite requires a Windows PC.
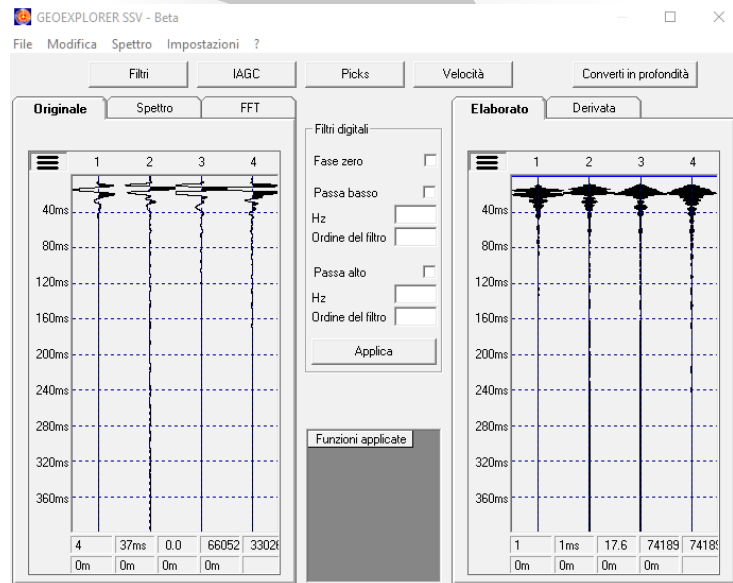
SSV main window witht he 2 seismogram visualization
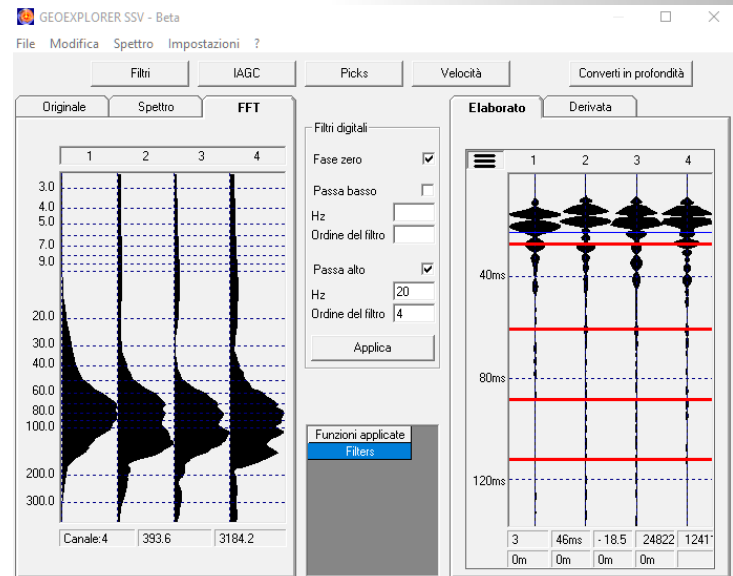
FFT and picking with possible interesting targets

Dataset processing
 • Filters
 • Display of the waveform derivatives
 • Computation of energy distribution in the frequency/time domain on raw or processed data
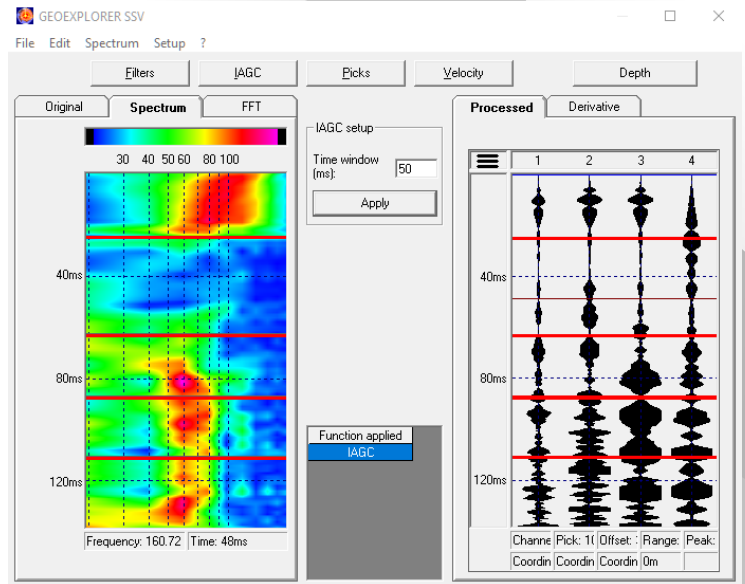 • FFT
 • IAGC
 • Picking
 • Data saving and backup

Modeling:
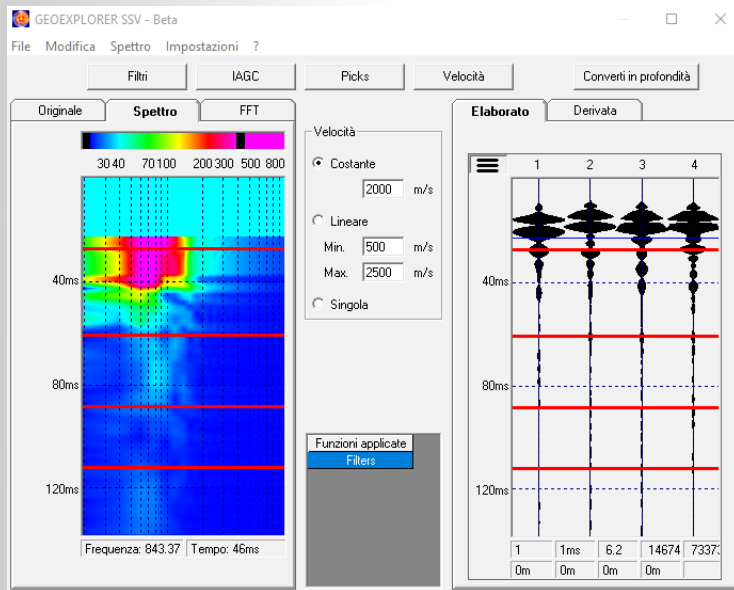 • Depth conversion (V= constant, V= function, Vint = interval velocity)

The module does not require third-party software for graphical representations and it is possible to export each single image and table displayed.
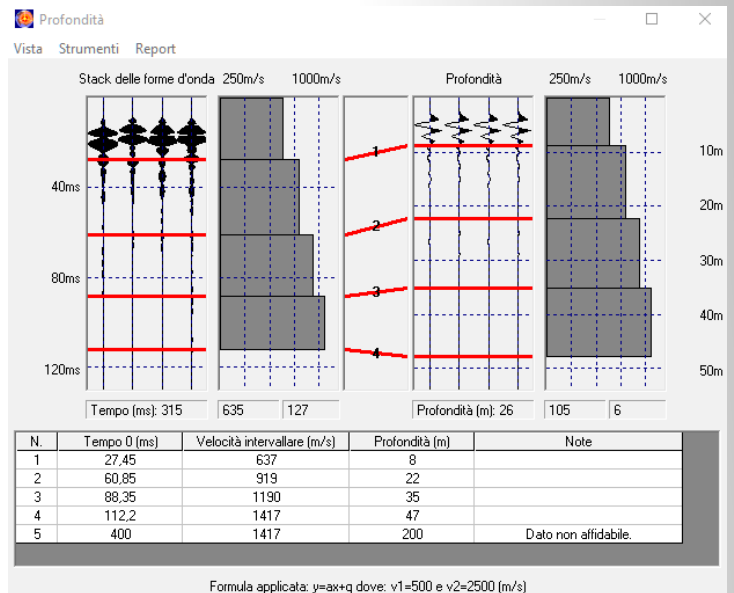The supported formats are:
 • .drm
 • .segy
 • .seg2

Frequency spectrum and with IAGC applied

Frequency spectrum and veloity conversion settings

Depth conversion window

SARA electronic instruments s.r.l. is constantly looking for new solutions, implementations and optimizations for the GeoExplorer Suite, providing a high level of customer support and gathering customer feedback for the Suite improvement.

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