

Exploratory Seismic Data Analysis in the Field

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May 5, 2014

The Project

Software to explore seismic survey in the field.

- Display survey geometry
 - Plot GPS, source/receiver, elevation, etc.
 - Interactively display shot records
 - Display by FFID, channel, within a range
 - Controls for gain, amplitude balancing, etc.

GPS

- Reads Lat/Lon from CSV, TSV, or GPX.
- Plots in plan view.
- Reads elevations from USGS NED file.
- Exports to CSV file.
- Download NED files from USGS servers.

SEGD

- Reads SEGD files from Sercel
 - Import a directory or specific files
 - Ignores bad shots
 - High or low shot point numbers
- Creates plots of shot records based on user input

Modes for viewing the seismic data

- Roam Mode: Display shot records based on GPS points and mouse position.
- Circle Mode: Display brute stack of shots within a circle.
- Channel Mode: Create a common channel section.
- No GPS Mode: Display shots based on shot number.

Demo

































