*F*ast
*G*eophysical
*P*ositioning
*S*olutions

FGPS Limited

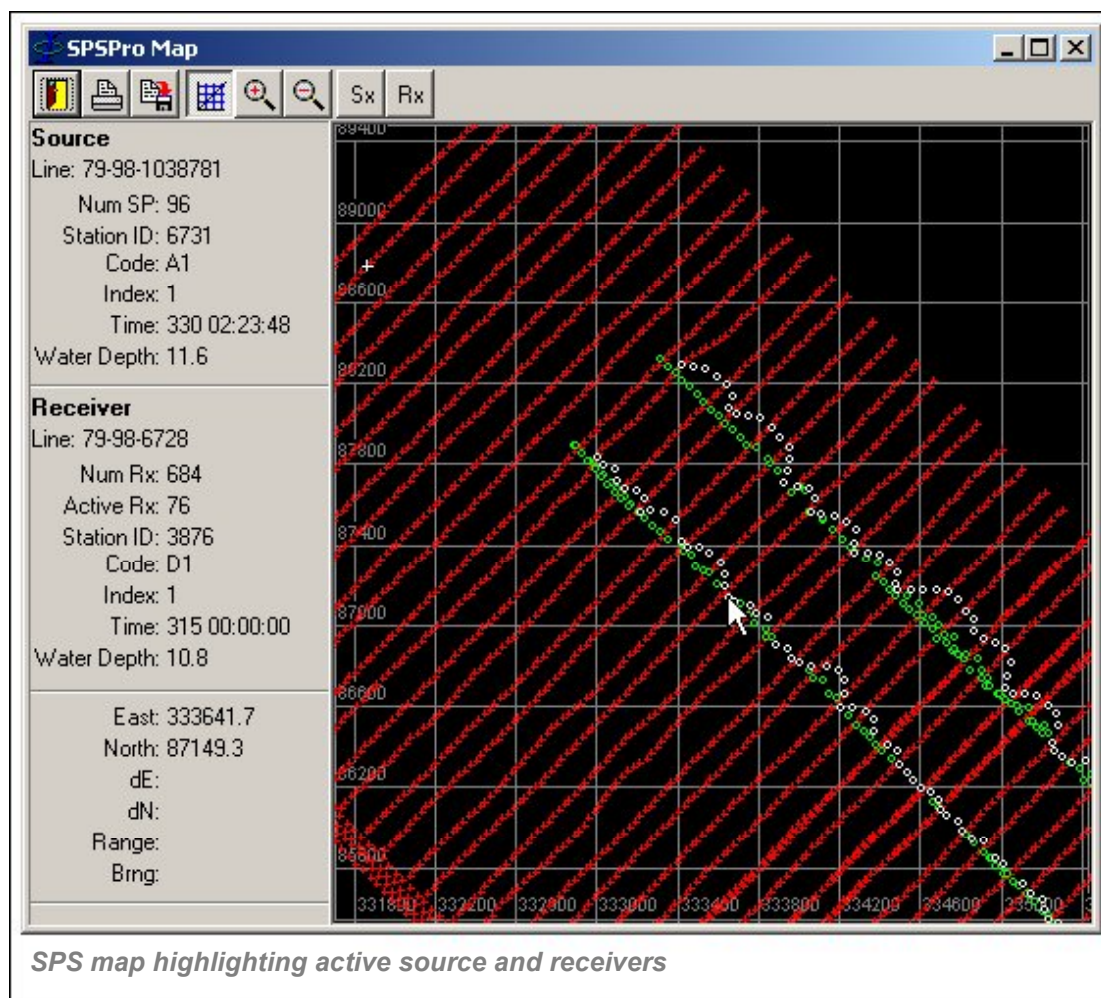24 Cray Rd. Crockenhill, Swanley, Kent, BR8 8LN, UK

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SPSPro

SPSPro is a Windows NT/95/98/2000/XP program which provides interactive graphical and numerical quality appraisal of data recorded in the Shell Processing Support format (SPS), the most commonly used format for recording land and OBC seismic positioning data.
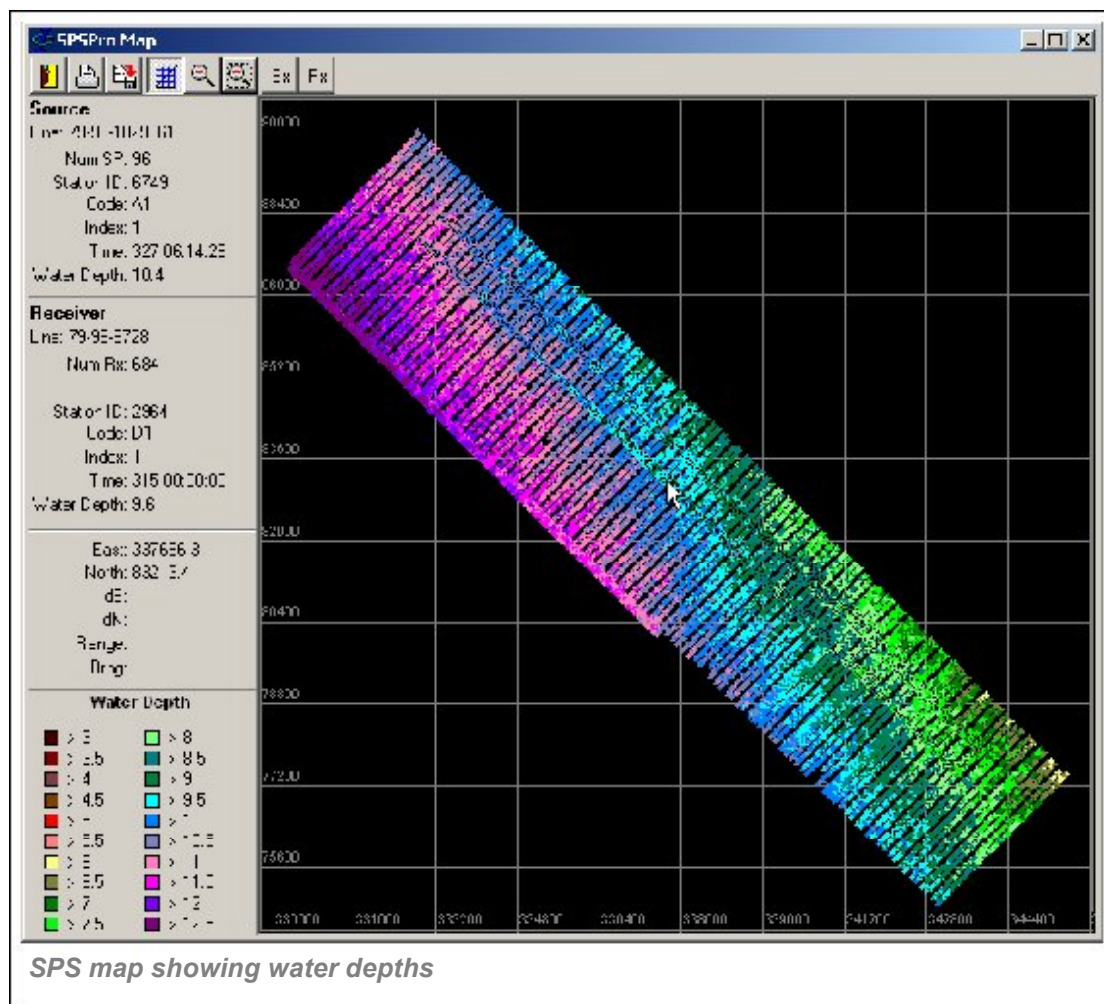
Comprehensive database functions are provided for the manipulation of datasets.

An optional module is available for the computation of receiver coordinates using acoustic ranging or first breaks.
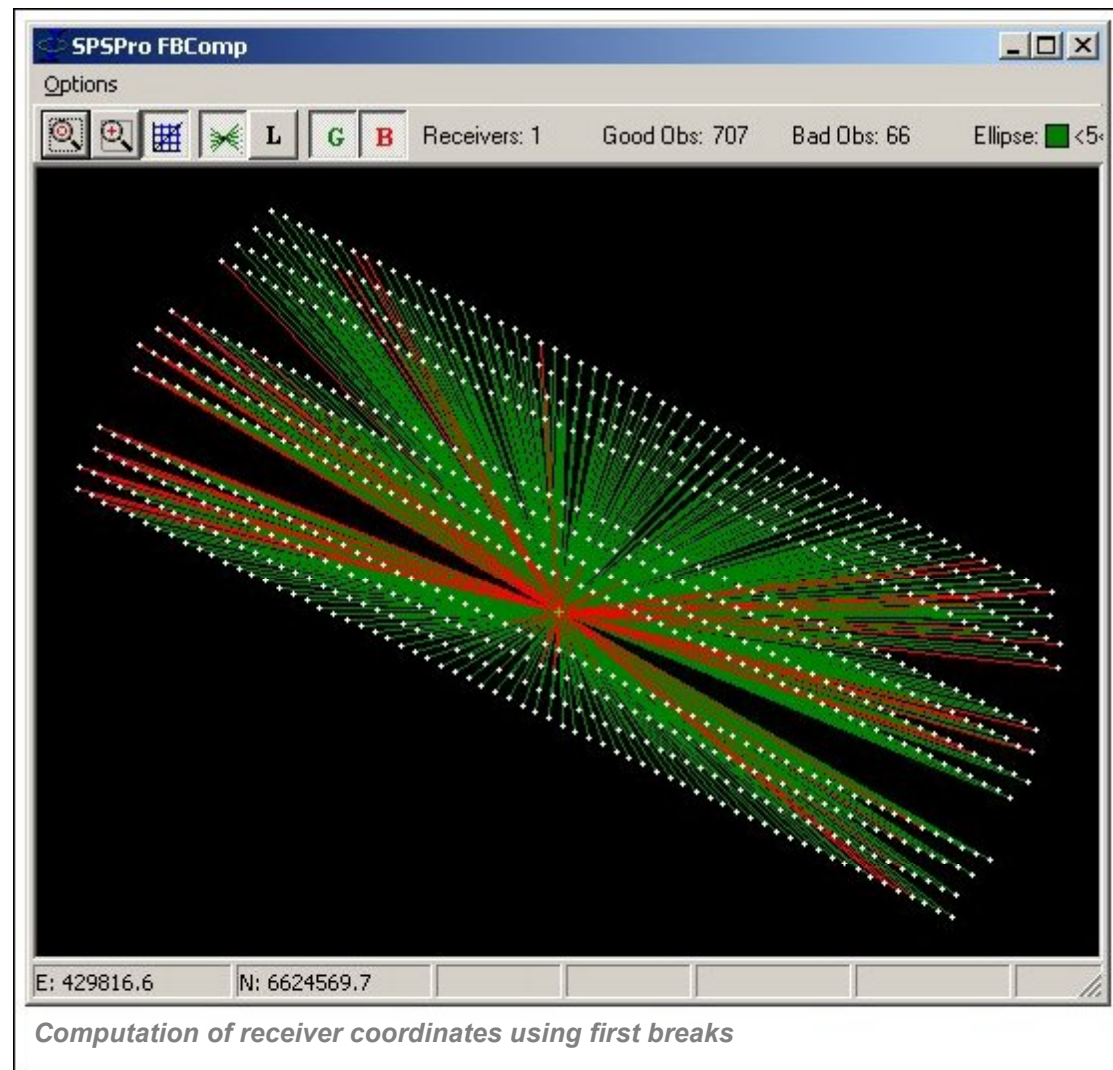

SPS map highlighting active source and receivers

QC Functions

- Format checking.

- File integrity checking.

- Mapping of source and receiver positions by type and index.

- Interactive mapping of active spread.

- Acquisition replay.

- Mapping of source and receiver attributes (static correction, point depth, seismic datum, uphole time, water depth and surface elevation)

- File comparisons, mapped and time series.

- On-screen measurements supported.

- Plotting.

- Time series plots of source and receiver lines for all point attributes.

- Interactive output of source and receiver data to csv file.

SPS map showing water depths

Database Functions

- Editing
- File splitting and consolidation
- Sorting
- Search (and replace)
- Receiver bathymetry interpolation from source bathymetry
- Header prefixing

Computation of receiver coordinates using first breaks

Receiver coordinate computation

- Uses acoustic ranging or first breaks recorded in user defined format.
- First break method models velocity gradient using polynomial of user specifiable order.
- Uses weighted least squares solution.
- Supports Rejection of bad data by Delft Method.
- Full QC statistics available – unit variance, error ellipse etc.