

Project SPAT

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Data summary

Location: Barnaul city – town Severo-Yeniseysk – town Tiksi (Figure 1).

Data acquired by Spetzgeofisika in 1981.

Profile length: 3091 km

1 PNE and 39 chemical explosions of 3000-5000 kg; only chemical explosions are provided in this distribution.

Recording systems: Portable 3-component analogue systems TAIGA and
CHEREPAKHA, 1-Hz sensors

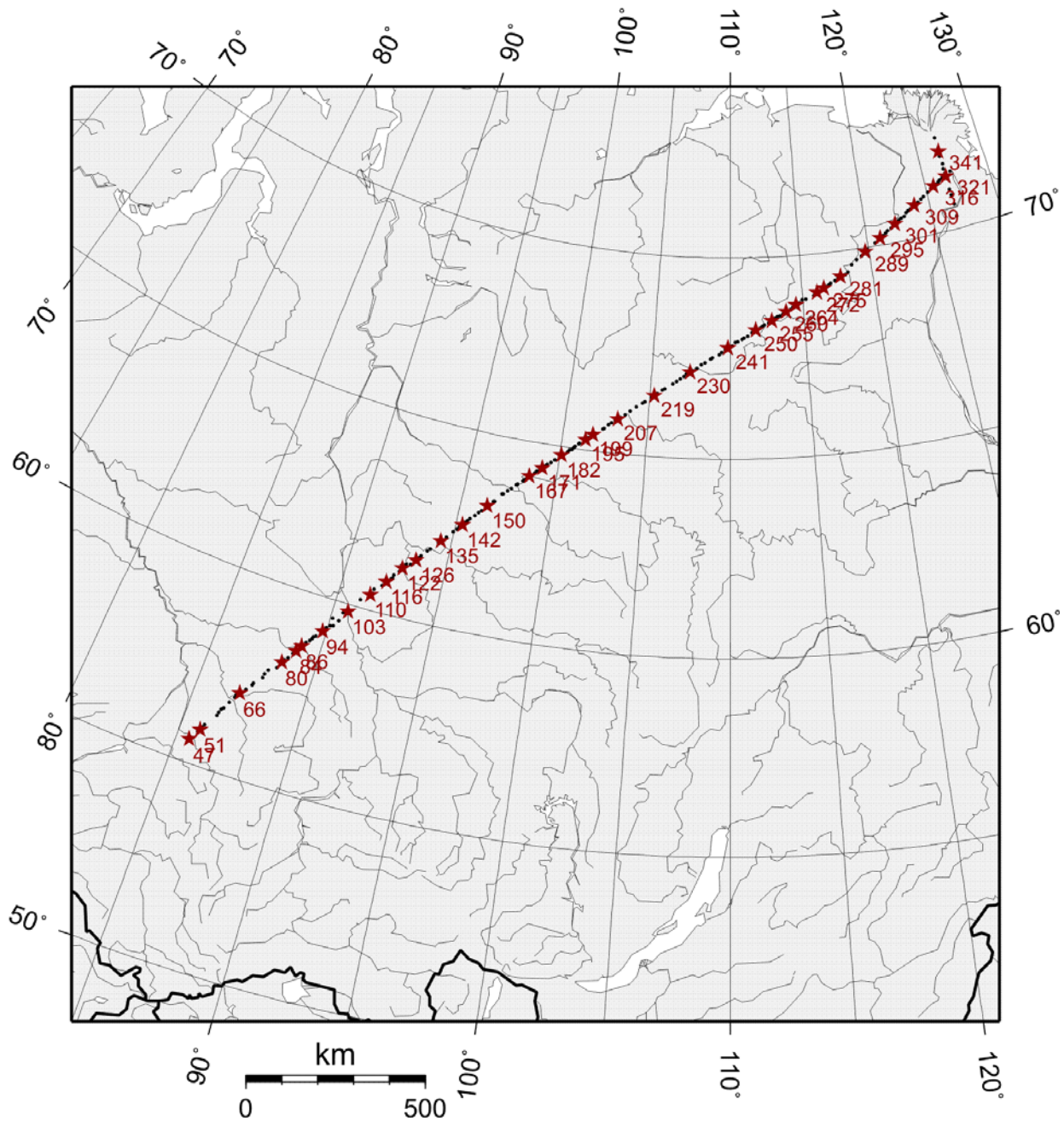


Figure 1. Location of profile SPAT. Small black triangles are recording stations. Labeled red stars are chemical explosions. Labels indicate station numbers of the explosions (loaded as FID headers in SEG Y files).

Data format

Data format is identical to that of QUARTZ records delivered earlier. The data are provided in standard SEG Y format using IBM floating point representation of data values. Geographic coordinates of shots and receivers (in degrees), and offsets (in meters) are loaded in data

headers. Recording station numbers (numbering starting from the West, Figure 1) are loaded in SEGY headers as CHANNEL, and the FFIDs correspond to shot numbers. Each data file contains a single component of recordings from one shot. File names follow the following convention:

```
spat-<shot_number>-<component_index>.segy
```

where `shot_number` is the number of the shot. Shot numbers correspond to the number of the nearest receiver station. The `component_index` is 'v' for the vertical (upward), 'r' for radial (directed away from the shot), and 't' for the transverse (directed to the right when looking away from the shot point).