

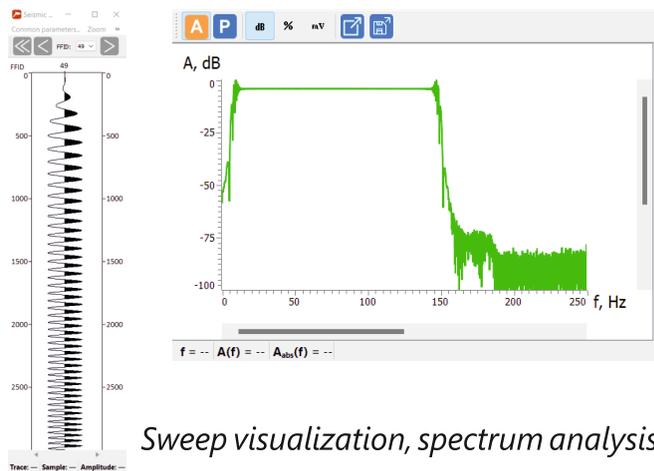
RadExPro
seismic software

DAS VSP Acquisition Real-Time QC and Data Processing

Novel Distributed Acoustic Sensing (DAS) fiber-optic technology is widely used to acquire VSP data for various applications, such as conventional VSP imaging, permanent reservoir monitoring and time-lapse imaging.

RadExPro provides extended DAS VSP data support with the following capabilities:

Initial in-field source QC and analysis:



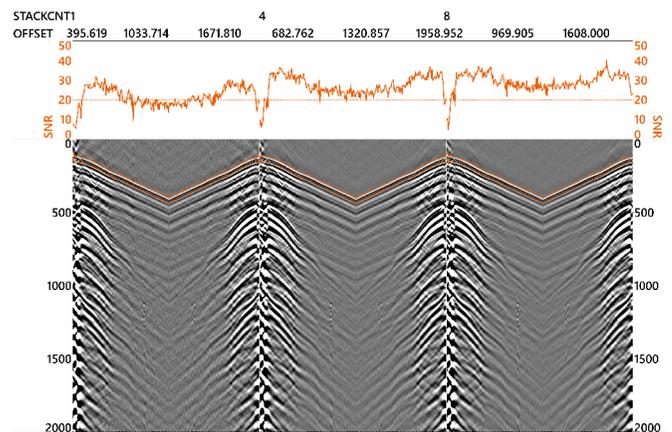
Data in-field QC and analysis:

Read DAS VSP data in the following formats:

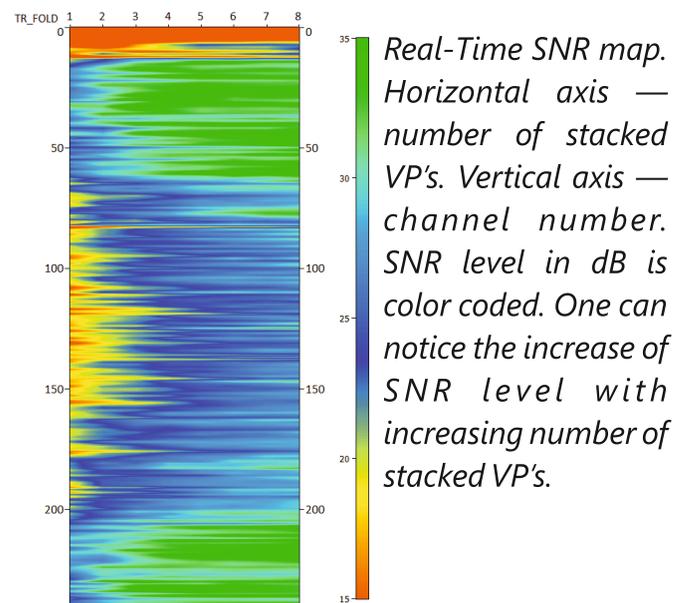
- Silixa
- Fotech HDF5
- Terra15 HDF5
- PRODML HDF5

Headers QC (time, GPS, depth, etc.)
Export DAS VSP data to SEG-Y format
Sweep correlation

Estimation of the required number of shots to achieve certain SNR level:



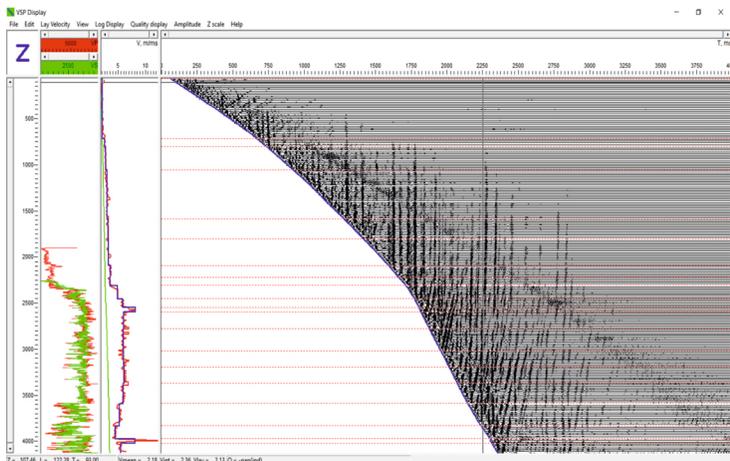
1, 4 and 8 vertical stacked VP. Graph on top shows estimated SNR in dB. Orange window – SNR estimation base.



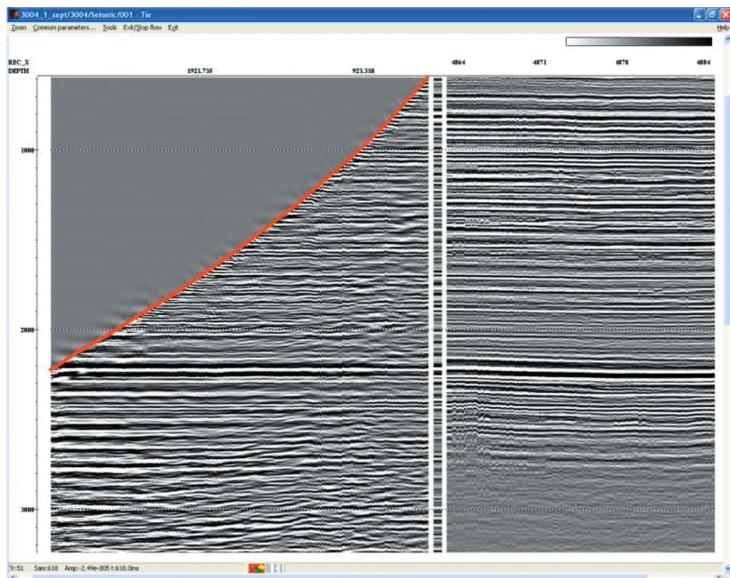
Conventional DAS VSP processing

DAS VSP processing in RadExPro includes the following:

- Sweep correlation
- Noise attenuation, amplitude correction
- Conversion to strain rate
- Vertical stacking
- Automatic first break picking
- Wavelet estimation and deconvolution
- Wavefield separation
- VSP velocity modelling
- Kirchhoff migration
- Corridor stacking



Interactive VSP Velocity modelling



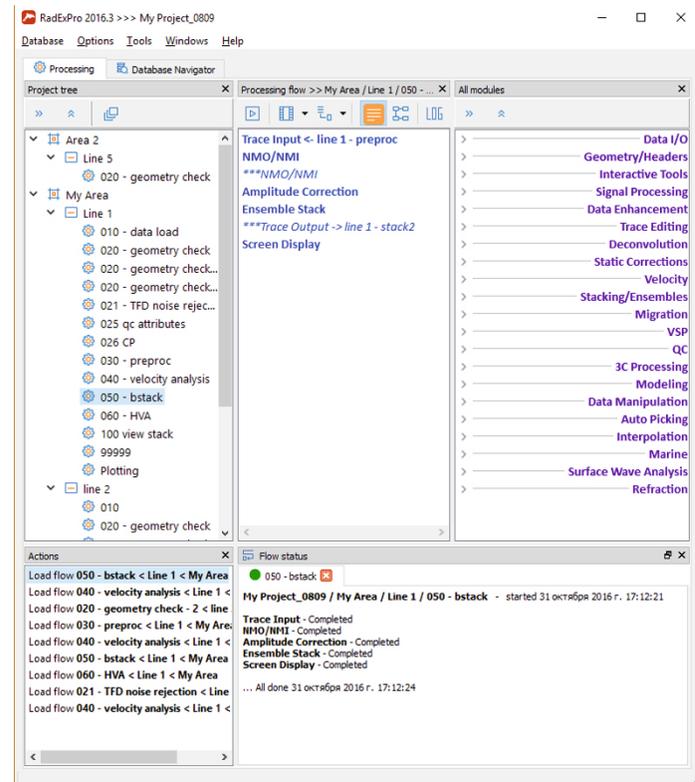
NMO-corrected reflected P-waves, VSP corridor stack and surface seismic section

Complete set of industry-standard general processing algorithms:

- vibroseis correlation, trace editing, statics, frequency/FK/Radon filtering, denoising, deconvolutions and spectral whitening, adaptive wavefield subtraction, etc.

Handy data management tools -- processing is project based, each dataset contains processing history.

Convenient user-friendly interface – easy to learn and to use.



MINIMUM RECOMMENDED SYSTEM REQUIREMENTS

- Intel Core i5 CPU
- 8 GB RAM
- Windows 7/8/10/11 64-bit OS



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