



**RadExPro seismic software for 2D/3D data QC
and infield processing**

History

The software took its origin in 1992 at the Geophysical Department, Faculty of Geology, Lomonosov Moscow State University and, since then, has been continuously developed and advanced.

In 2001 when the DECO Geophysical company was founded, the software transferred to the company together with its initial authors.



Lomonosov Moscow State University main building

The software provides all necessary facilities for 2D/3D seismic data QC and fast-track processing, either in field or at the office.

It is used for these purpose in a number of service and oil-and-gas companies both inside Russia and abroad, including *Bashneft*, *Novatek*, *Largeo*, *NIS-Naftagas*, *MM-Geo*, etc.

Russian office of *FairField Nodal* company offers RadExPro as a standard solution for infield processing and QC, coming together with their seismic systems.



On Windows:



Easy to install

- Does not require administrative expertise

Easy to learn and to use

- Intuitive graphical interface
- Manual and tutorials available

No specific hardware required

- Operates smoothly on just an average up-to-date laptop or desktop computer

Infield QC

Rapid input of data of any size

SEG-D Input

Files... ☐ From batch list

E:\segd\00029812.segd
 E:\segd\00029813.segd
 E:\segd\00029814.segd
 E:\segd\00029815.segd
 E:\segd\00029816.segd
 E:\segd\00029817.segd
 E:\segd\00029818.segd
 E:\segd\00029819.segd
 E:\segd\00029820.segd
 E:\segd\00029821.segd
 E:\segd\00029822.segd
 E:\segd\00029823.segd

Skip records of types (-1 disables this feature)
 Input channel type(s) [TRC_TYPE] (-1: input all channel types)
 Specify seismic data channel type(s)
☐ Remap SEG-D main header values
 YEAR,,,2B,,,10.5/DAY,,,3B,,,12/HOUR,,,2B,,,13.5/
 MINUTE,,,2B,,,14.5/SECOND,,,2B,,,15.5/
 SOURCE,,,1,,,76/
 Load Remap... Save Remap...

☒ Debug log file
 debuglog.txt
☒ Dump external headers
 exthead.txt
 OK Cancel

Station type
 Trace length
☒ NP = (TE- Start time)
☐ NP = (TE- End time)
☐ NP = (TE- Samples)
☐ Override to
☒ Apply pre-amplifier gain
☐ Set auxiliary trace
☐ Suppress warning
☐ Time from stamp
☐ Allow different DT
☐ Remap SEG-D trace
 R_LINE,,,2,,,22/ REC

Formats supported:

- SEG-D (incl. rev.3, with optional header remapping)
- SEG-Y (with optional header remapping)
- SEG-2 and more...
- Input seismic trace from ASCII

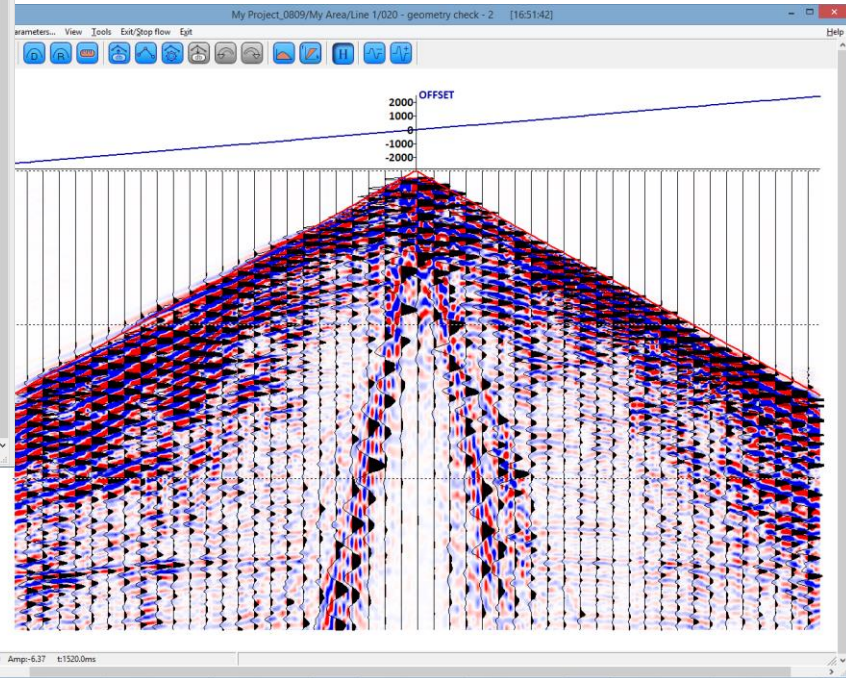
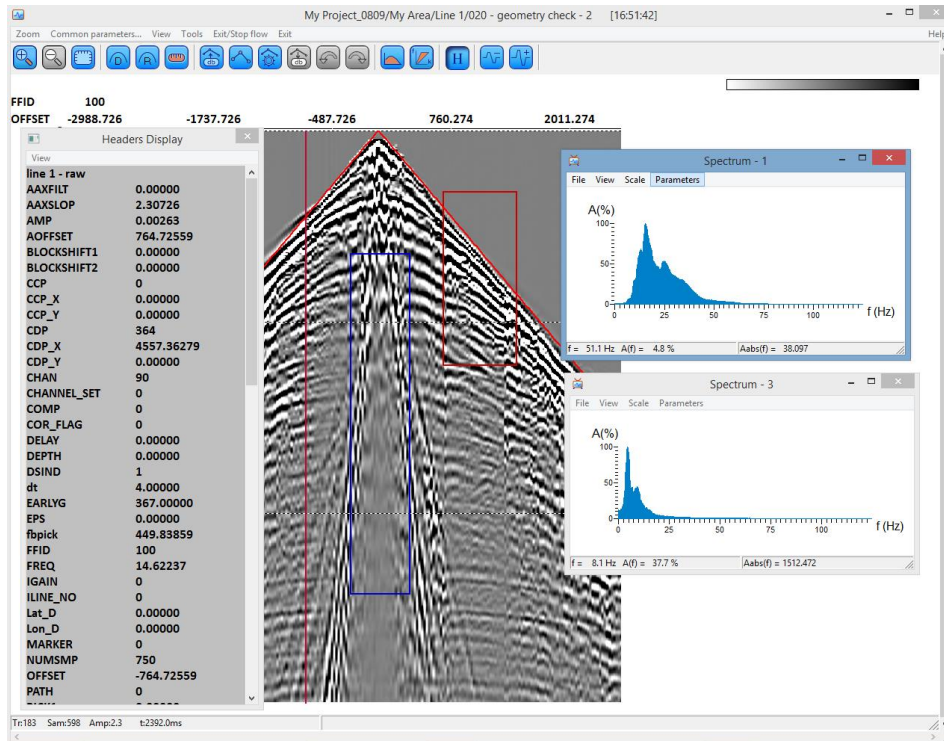
SEG-Y Input

File(s)
 E:\projects\My Project_0809\Data\line_1.sgy

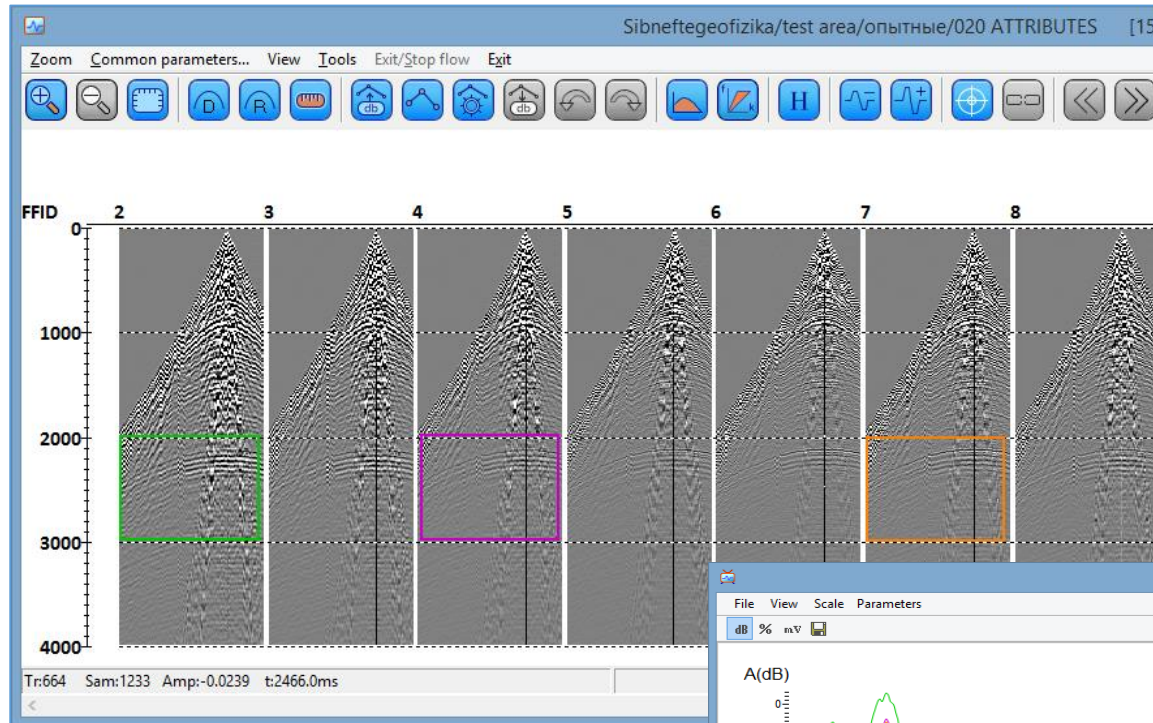
☐ Take format from file
☐ I1 ☐ I2 ☐ I4 ☒ R4
☒ IBM Floating Point
 Sample interval
 Number of traces
 Trace length
☐ Take byte order from file
☒ Big-endian byte order (SEG-Y standard)
☐ Little-endian byte order
☒ Use trace weighting factor
 Sorted by
☒ Get all ☐ Selection
☒ 3D Survey ☐ 2D Survey Profile ID
☒ Remap header values
 RECNO,4I,,,181/ SOURCE,4I,,,185/ ILINE_NO,4I,,,189/ XLINE
 Add... Delete Load list... Save list...
☐ From batch list
 OK Cancel Load remap... Save remap...

Visual QC and data analysis

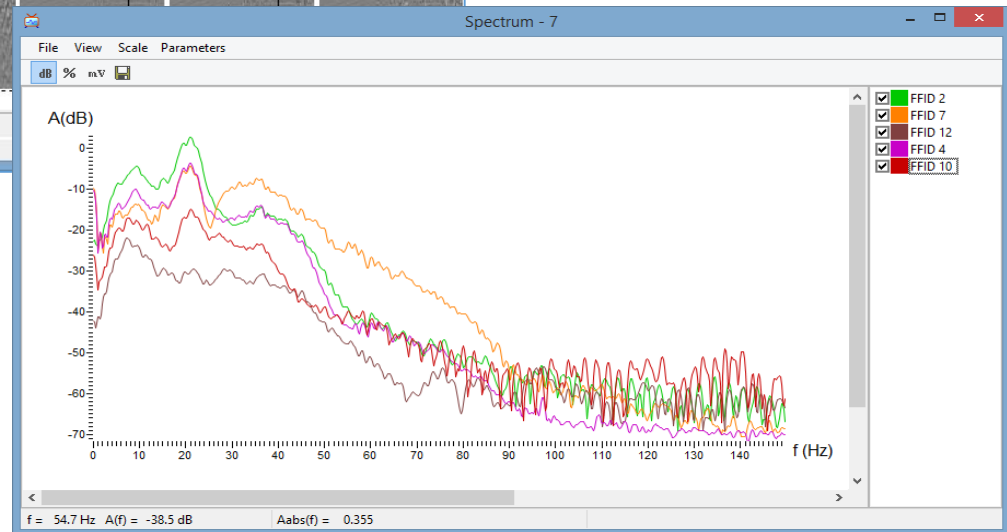
- Any ways of data display
- View of every N-th gather
- Check headers of any trace
- Display header value diagrams
- View frequency and F-K spectra of arbitrary data fragments



Visual QC and data analysis

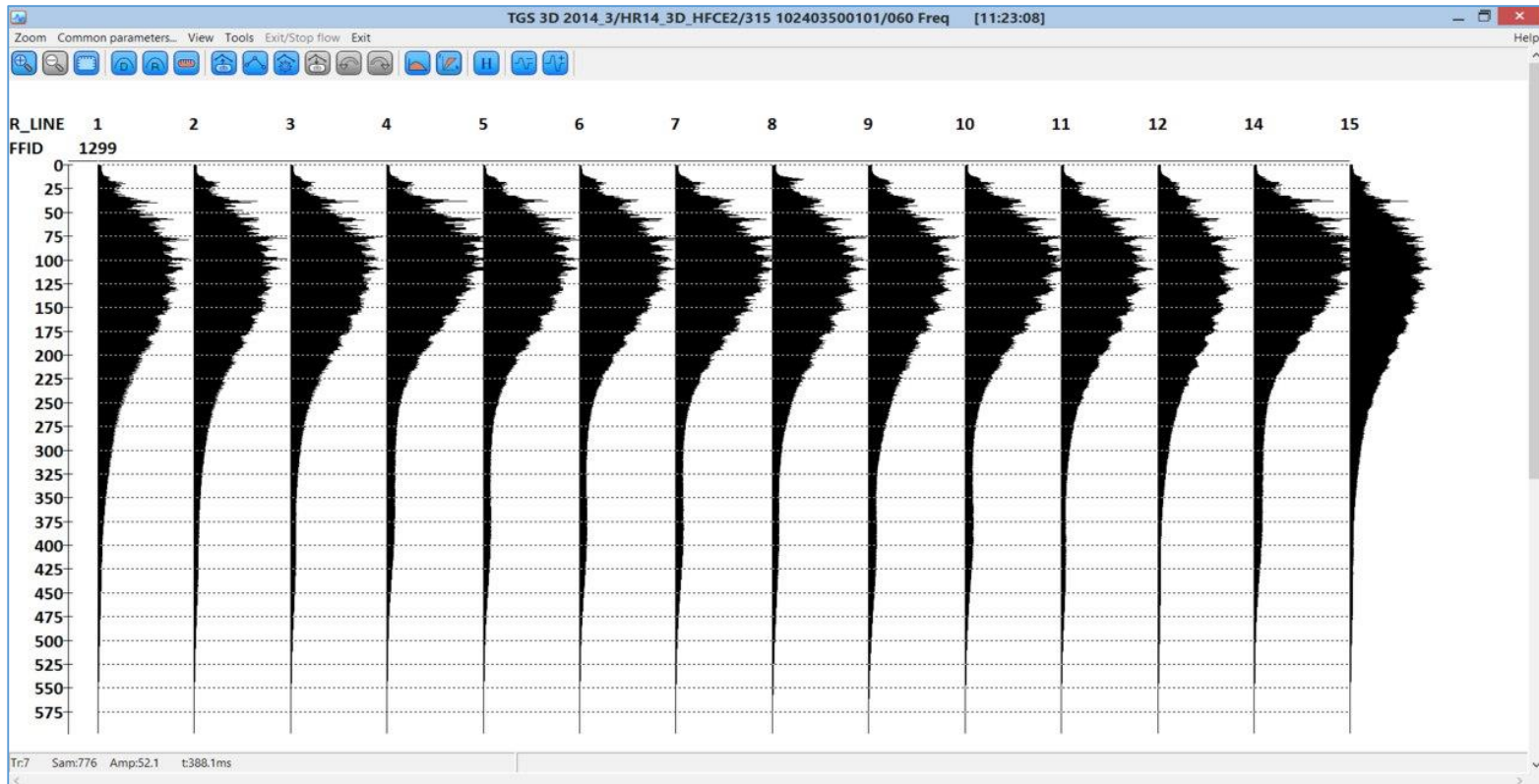


- Display of several spectra plots in the same window



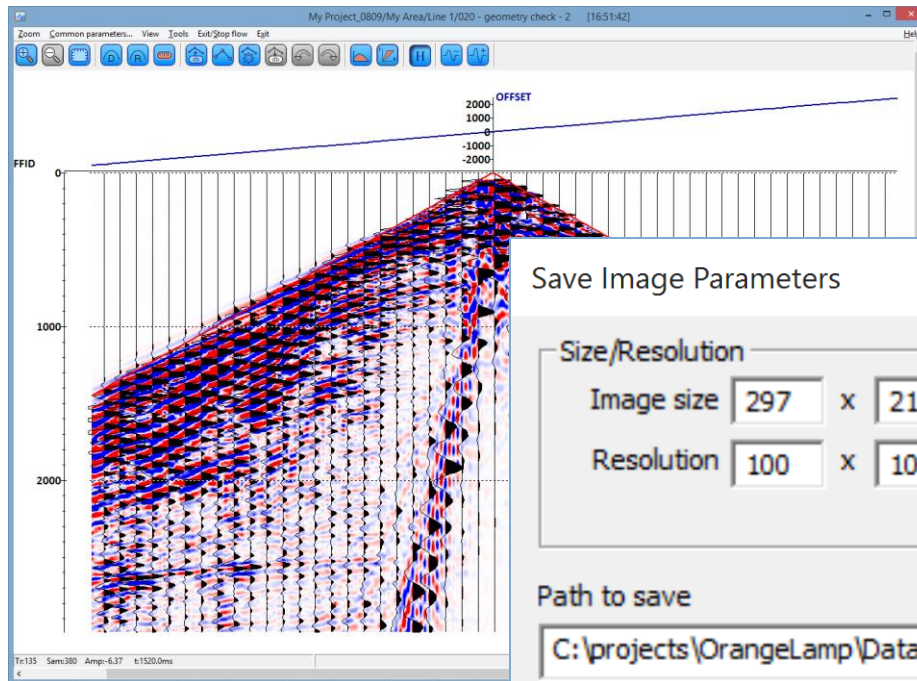
Visual QC and data analysis

- Display frequency spectra of every N-th channel



Visual QC and data analysis

- Use hotkey to save images for report to a predefined folder with predefined parameters



Save Image Parameters

Size/Resolution

Image size 297 x 210 mm

Resolution 100 x 100 dpi

Format

☐ Windows BMP

☐ TIFF 5.0

☒ TIFF 5.0 LZW Compressed

Path to save

C:\projects\OrangeLamp\Data\Images

File name

Image

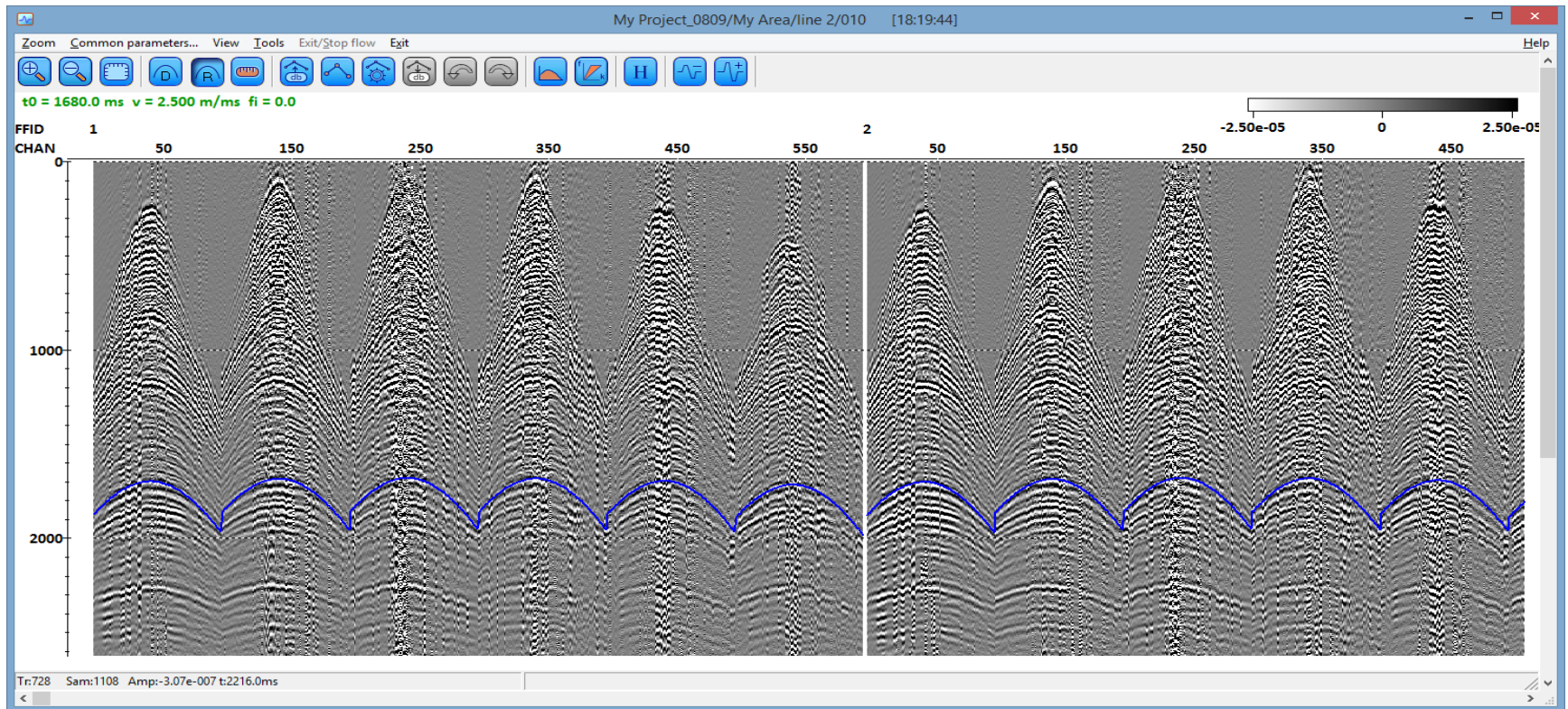
OK Cancel



for infield QC and fast-track processing

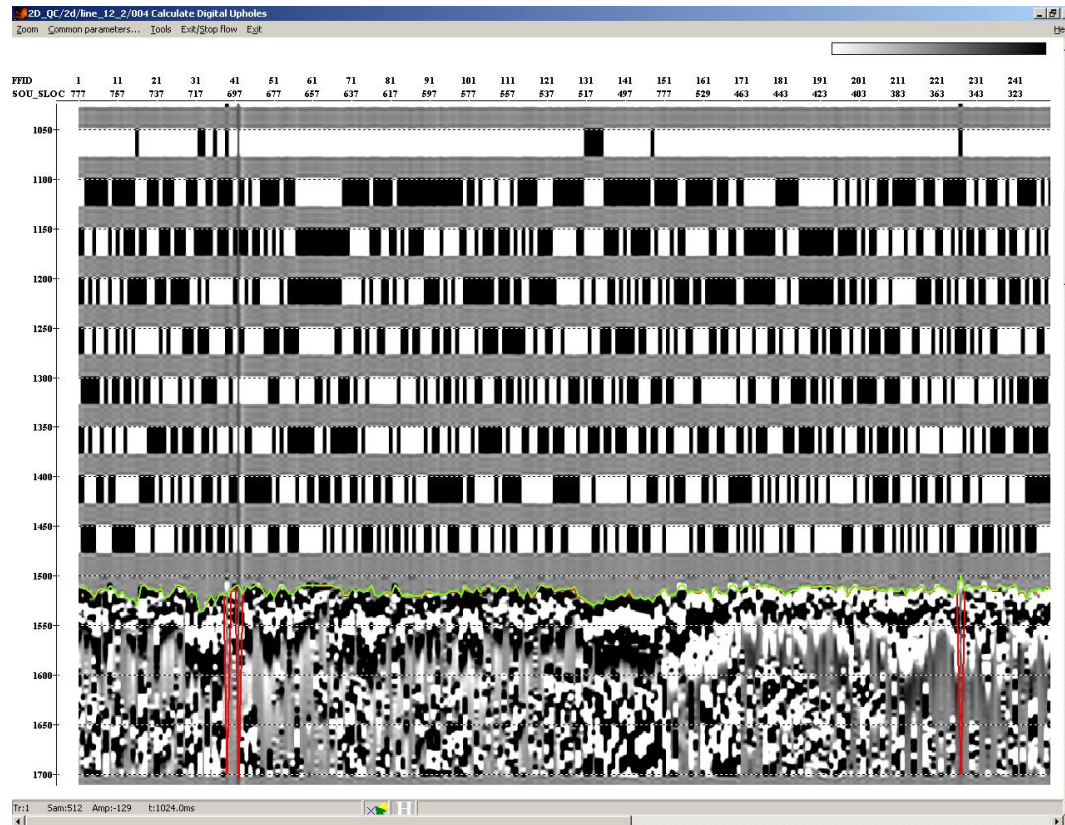
Visual QC and data analysis

- Interactive estimation of seismic velocities of all wave types



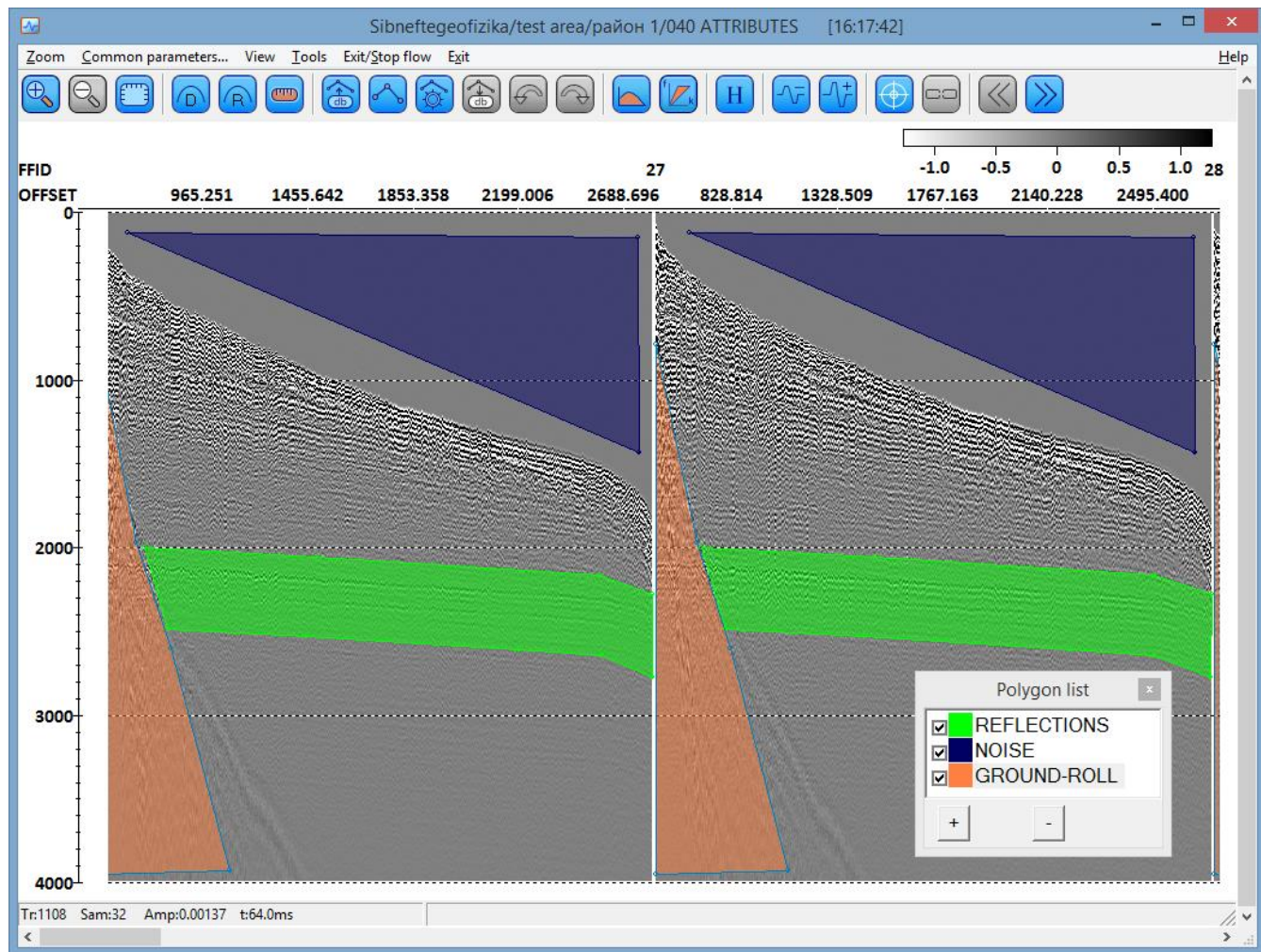
Analysis of auxiliary channels

- “Digital” uphole time calculated from auxiliary channel information plotted on top the uphole geophone record



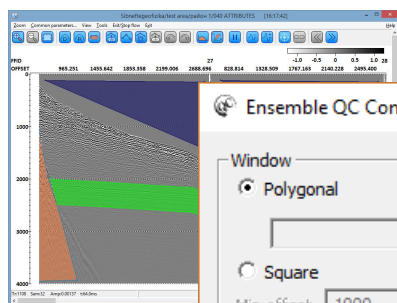
QC attribute calculation for seismic gathers (either source or receiver gathers)

- Interactively define windows for attribute calculation



QC attribute calculation for seismic gathers (either source or receiver gathers)

- Evaluate amplitude and frequency attributes individually for each window
- Calculate SNR within a specified frequency band basing on correlation function spectra (either through CCF of neighboring traces, or with a stacked trace to remove coherent noise from the signal estimate)
- Calculate any combined attributes and their relations



Ensemble QC Compute

Window

☒ Polygonal Load polygon...

☐ Square

Min offset: Max offset:

Min time: Max time:

Amplitude

☒ Mean Trace Header

☐ 2D RMS AAXSLOP

☐ Mean 1D RMS

Signal / Noise ratio

☒ Compute Signal/Noise Ratio REC_H2OD

Min frequency: Mode: ☒ Normal

Max frequency: ☐ Use model trace

Max shift: ☐ Treat model trace as signal

☐ Treat first trace in each ensemble as model

Resolution

☒ Compute resolution SOU_H2OD Max time of ACF to use:

Mode: ☒ Use mean ACF ☐ Use mean CCF ☐ Use separate CCFs

☐ Normalize CF (affects Apparent Frequency estimation also)

Frequency attributes

☒ Apparent frequency AAXFILT ☐ Peak frequency

Mode: ☒ Number of sign changes ☐ ACF ☐ Mean ACF ☒ Average amplitude

☒ Band width AAXFILT ☐ Average intensity

☒ At - dB of peak amplitude Minimum window length: samples

☐ Square under spectrum curve / maximum amplitude

OK Cancel

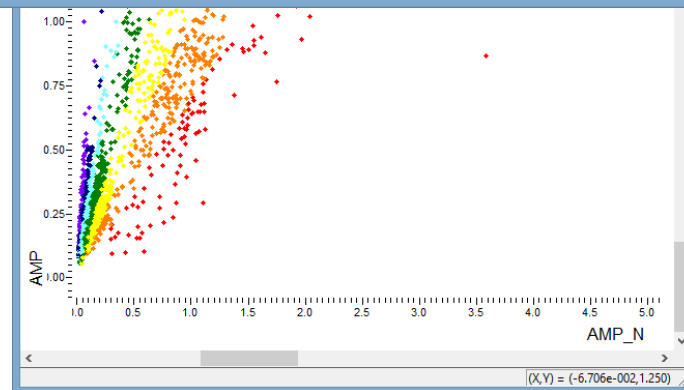
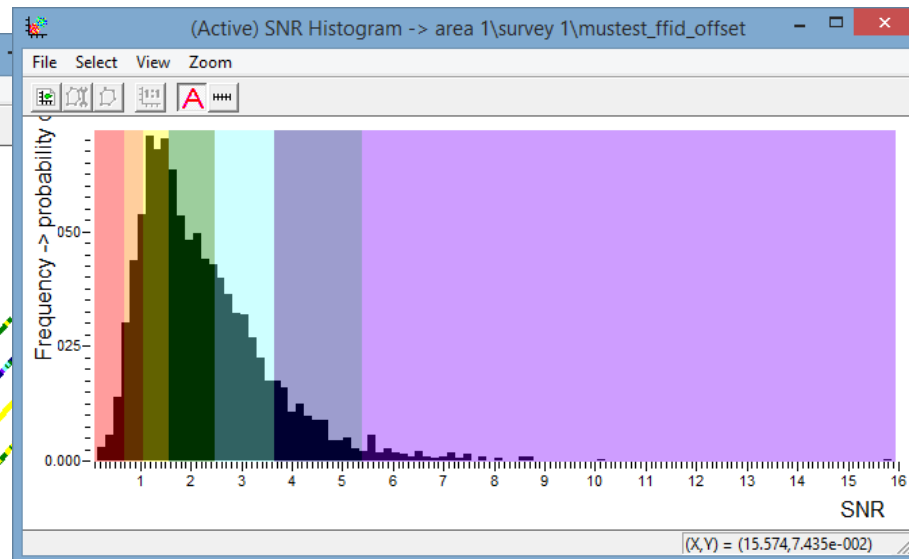
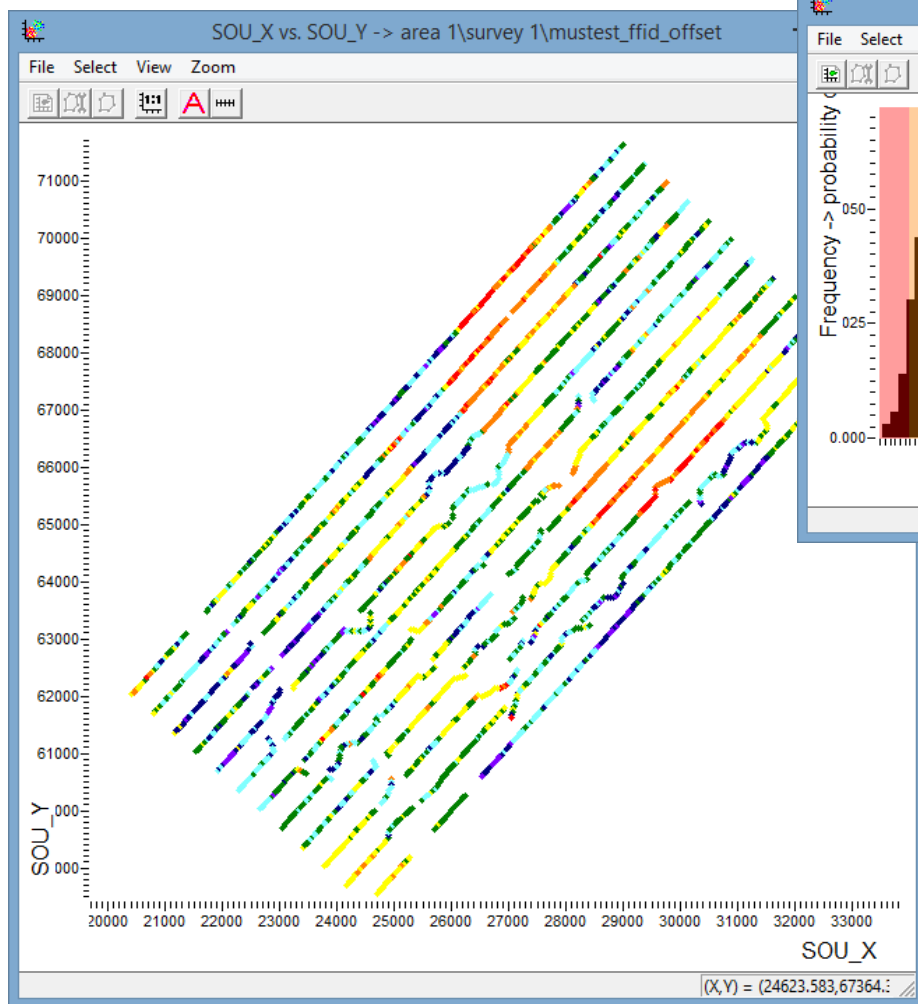
Trace Header Math

SNR2 = [AMP]/[AMP_N]
 Q1 = cond([FREQ]<30, 0, cond([SNR2]<5, 0, cond([SNR2]<10, 0.9, 1))
 Q2 = ([SNR] + [BANWIDTH]/m+[FREQ]/n+([AMP_N])^2/([AMP])^2)*k

Line 1 Pos 1

OK Cancel Check syntax Load template... Save template...

Attribute analysis on linked cross-plots



Infield Processing

Handy and flexible geometry assignment tools

[illegible]

- From trace headers (if the values are there)
- From SPS-files
- From UKOOA p1-90 files
- From arbitrary ASCII table files
- Built-in spreadsheet and header math editors

Default

line5746 - Geometry Spreadsheet

template...

File...

IAN	SOU_X	SOU_Y
1	294579.30000	3203161.30000
2	294579.30000	3203161.30000
3	294579.30000	3203161.30000
4	294579.30000	3203161.30000
5	294579.30000	3203161.30000
6	294579.30000	3203161.30000
7	294579.30000	3203161.30000
8	294579.30000	3203161.30000
9	294579.30000	3203161.30000
10	294579.30000	3203161.30000
11	294579.30000	3203161.30000
12	294579.30000	3203161.30000
13	294579.30000	3203161.30000
14	294579.30000	3203161.30000
15	294579.30000	3203161.30000
16	294579.30000	3203161.30000
17	294579.30000	3203161.30000
18	294579.30000	3203161.30000
19	294579.30000	3203161.30000
20	294579.30000	3203161.30000
21	294579.30000	3203161.30000
22	294579.30000	3203161.30000
23	294579.30000	3203161.30000
24	294579.30000	3203161.30000
25	294579.30000	3203161.30000
26	294579.30000	3203161.30000
27	294579.30000	3203161.30000
28	294579.30000	3203161.30000
29	294579.30000	3203161.30000

Source format definition

Field Description	Beg	End	Header Name
Point number	20	25	FFID
X - Easting	47	55	SOU_X
Y - Northing	56	64	SOU_Y
Elev/Depth	65	70	SOU_ELEV

Set pos

Receiver format definition

Field Description	Beg	End	Header Name
Chan	2	5	CHAN
X - Easting	6	14	REC_X
Y - Northing	15	23	REC_Y
Depth	24	27	REC_ELEV
Chan	28	31	CHAN
X - Easting	32	40	REC_X
Y - Northing	41	49	REC_Y
Depth	50	53	REC_ELEV
Chan	54	57	CHAN
X - Easting	58	66	REC_X
Y - Northing	67	75	REC_Y
Depth	76	79	REC_ELEV
Receiver line	80	80	R_LINE

Set pos

(9, 67) Selection: 47 - 55

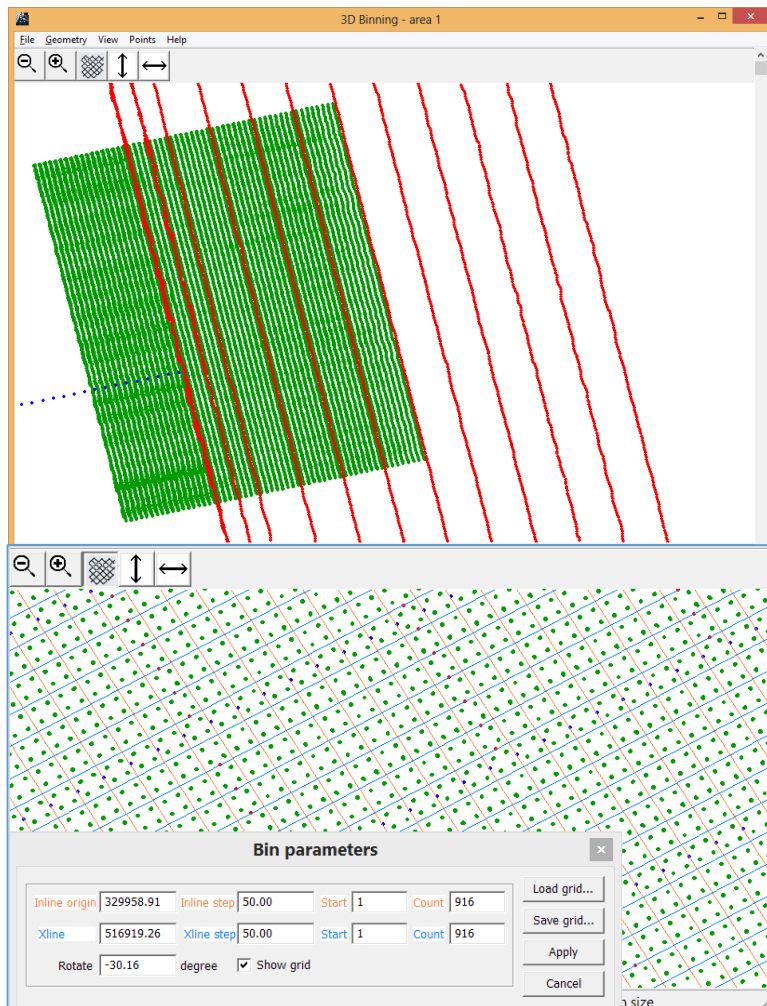
☒ Use R_LINE:CHAN for receiver matcher

template...

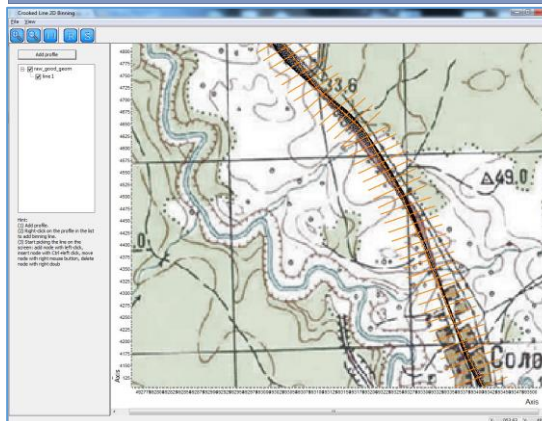
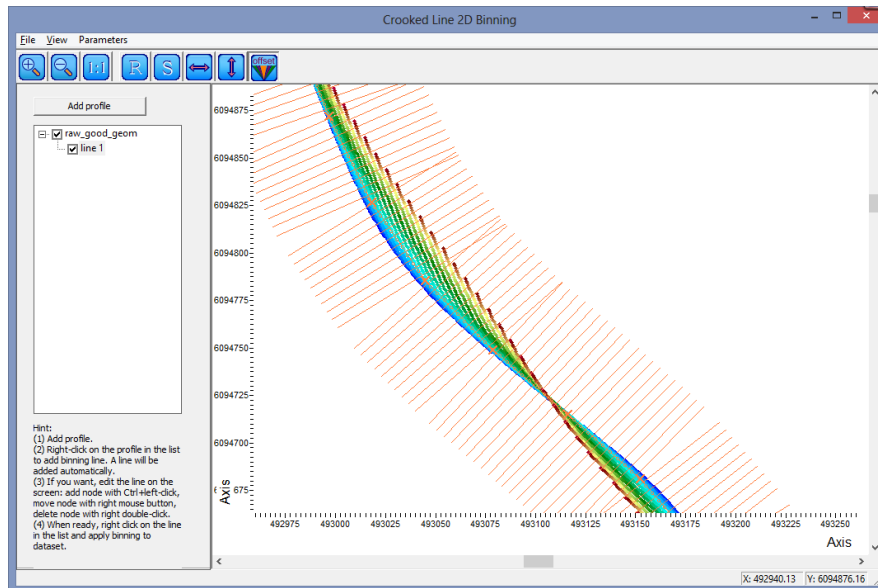
File...

U5826	1	002019290054.88N0950031.300	304360.73211338.4	11.9212054030
E5826	1	002019290054.88N0950031.300	304360.73211338.4	11.9212054030
S5826	11	002019290055.66N0950030.370	304386.23211361.9	11.9212054030
T5826	1	1002019290059.72N0950030.000	304398.43211486.8	11.9212054030
T5826	1	2002019290056.15N0950025.820	304509.73211375.0	11.9212054030
R	10304440.73211497.803.6	20304443.83211499.803.6	30304445.43211501.903.61	
R	40304447.73211504.003.6	50304450.13211506.103.6	60304452.43211508.103.61	
R	70304454.73211510.203.6	80304457.13211512.303.6		1
R	10304453.53211510.2103.5	20304455.83211510.403.5	30304458.23211510.303.52	
R	40304460.53211508.303.5	50304462.83211510.403.5	60304465.23211512.503.52	
R	70304467.53211514.603.5	80304469.83211516.603.5		2
R	10304466.43211505.803.2	20304468.73211507.803.2	30304471.13211509.903.23	
R	40304473.43211512.003.2	50304475.73211514.103.2	60304478.13211516.203.23	
R	70304480.43211510.203.2	80304482.83211520.303.2		3
R	10304479.33211508.503.0	20304481.73211510.603.0	30304484.03211512.703.0	

Interactive CMP binning

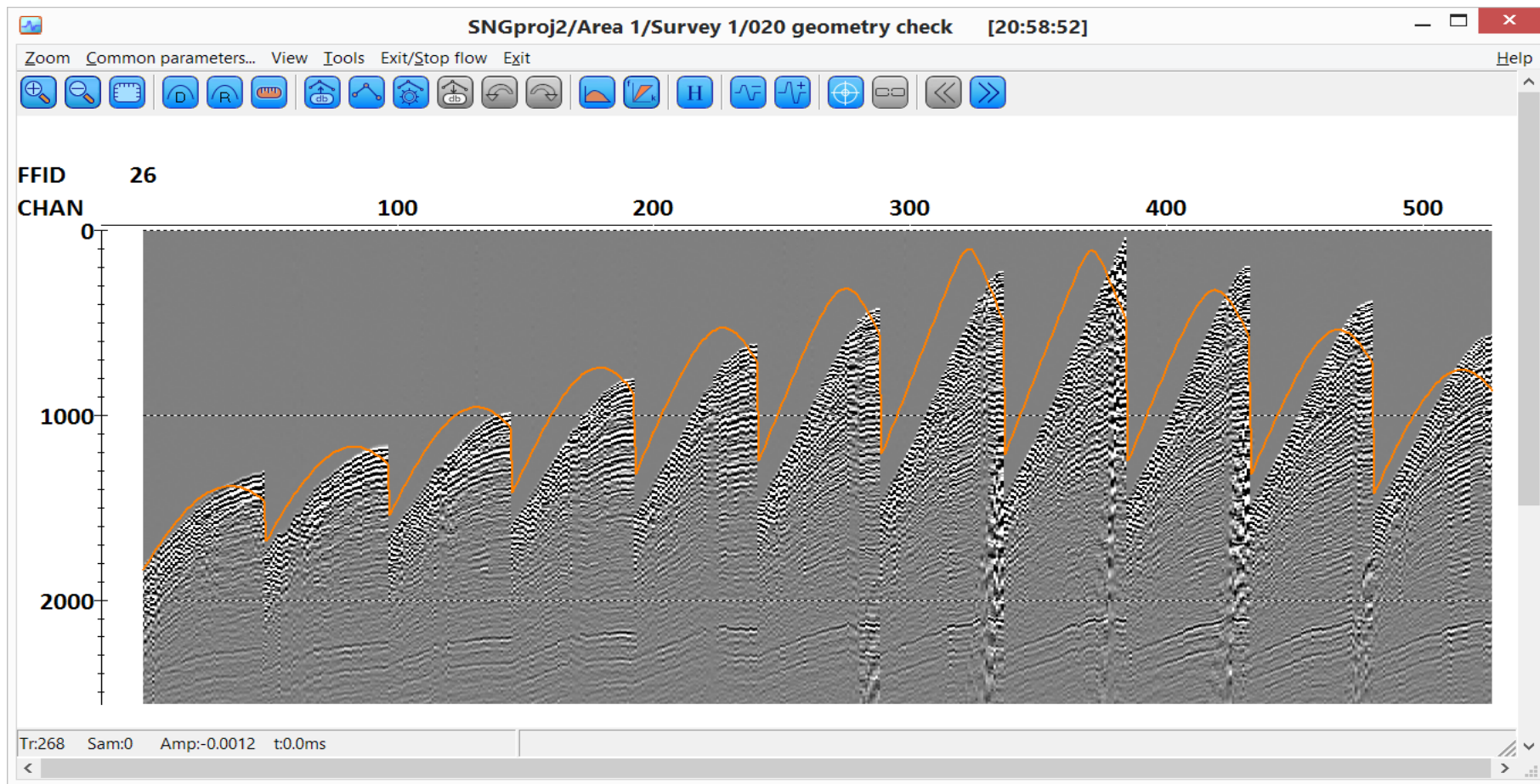


- 3D
- Crooked line 2D

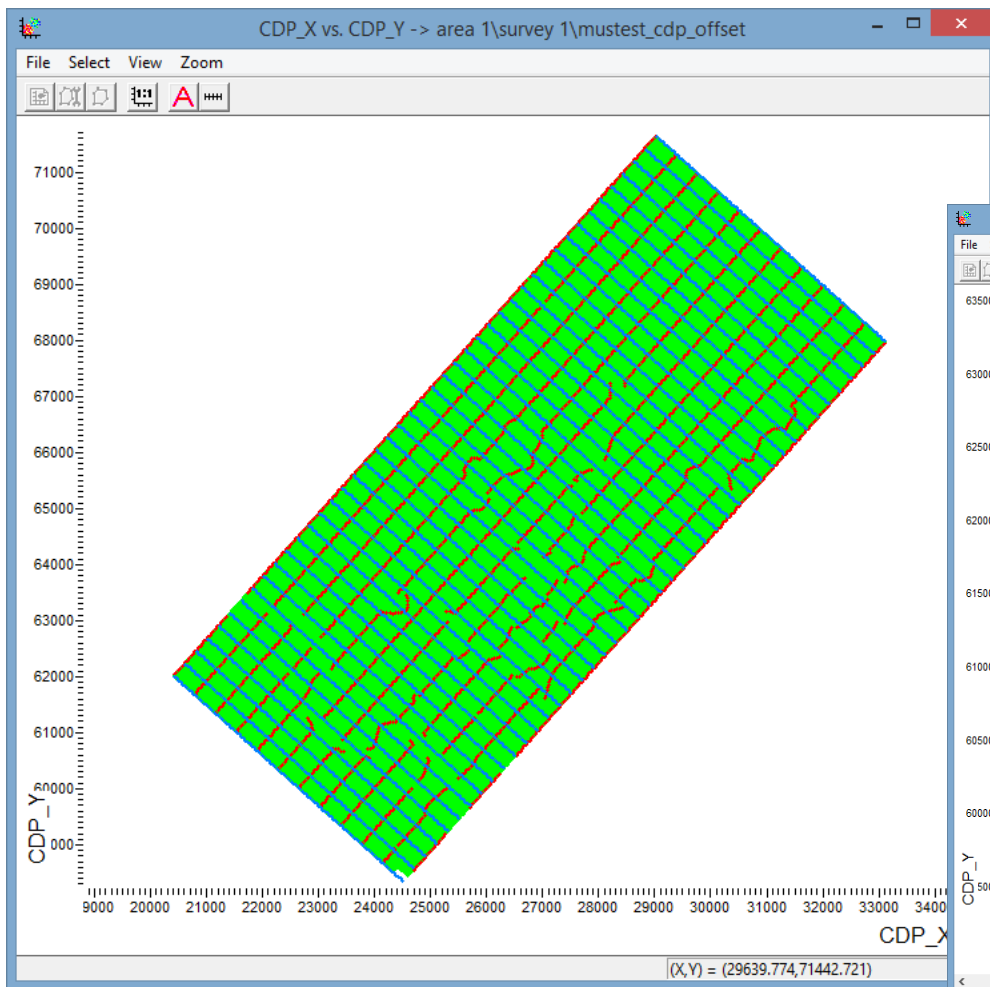


Geometry QC

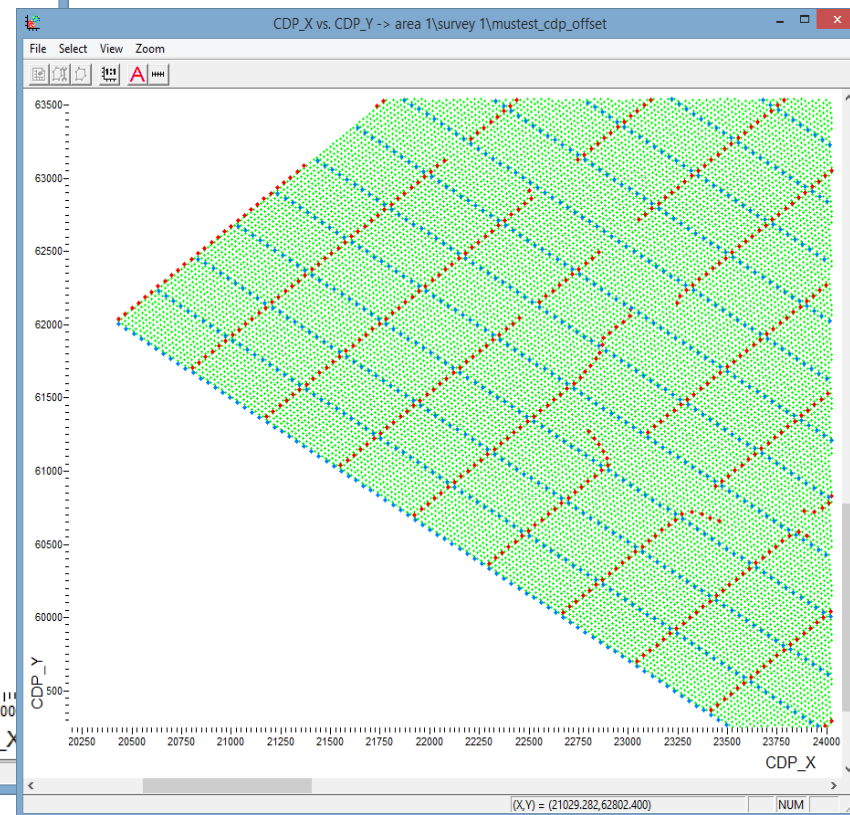
- First arrivals control



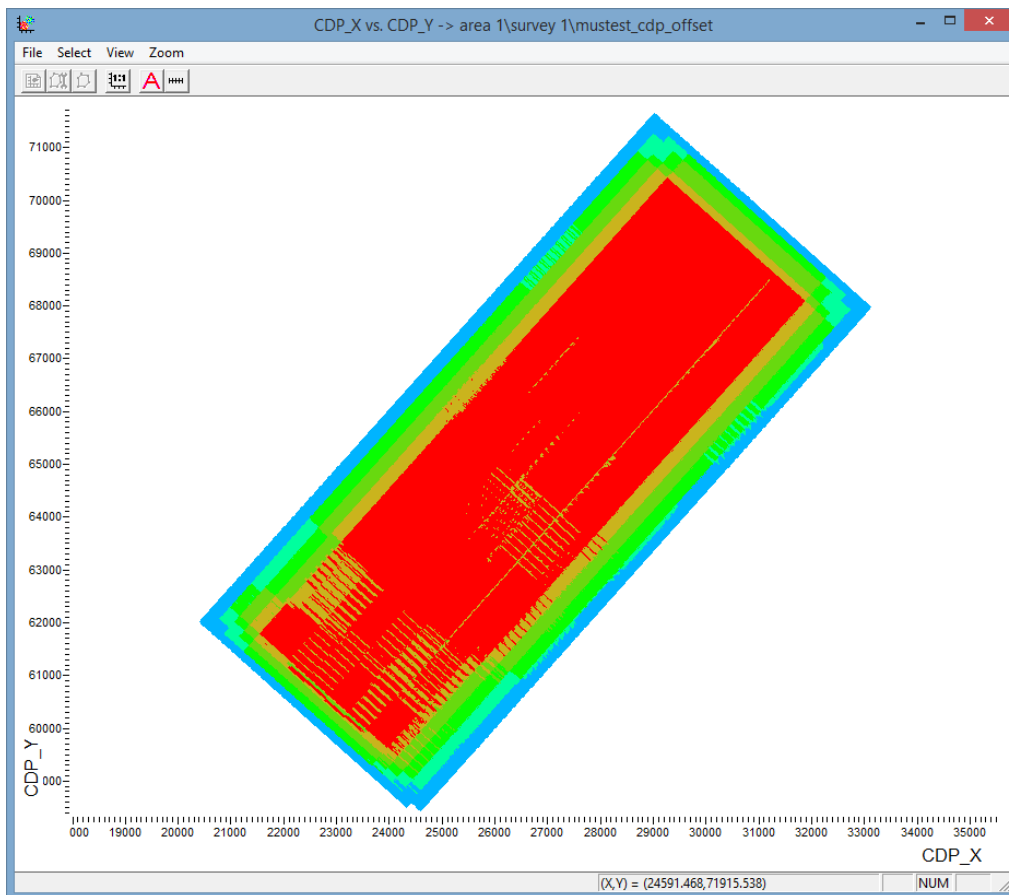
Geometry QC



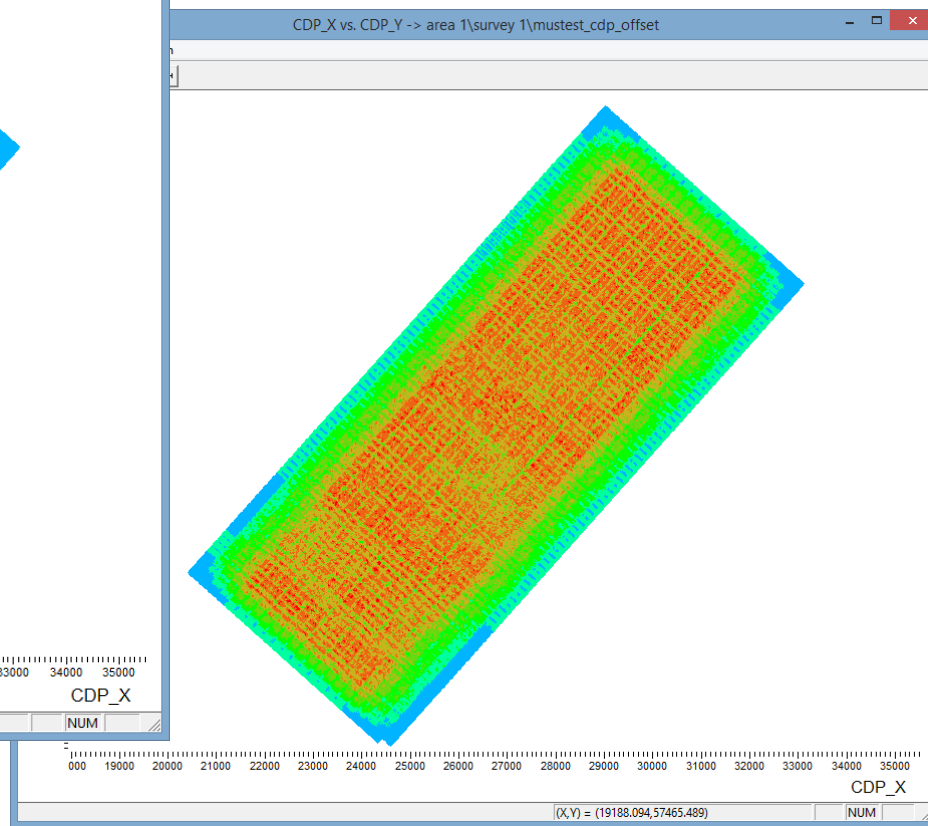
- Survey maps (sources, receivers, CMPs)
(can be plotted on top of a bitmap image)



Geometry QC



- Fold and offset distribution maps



Fast-track processing

Complete set of industry-standard algorithms

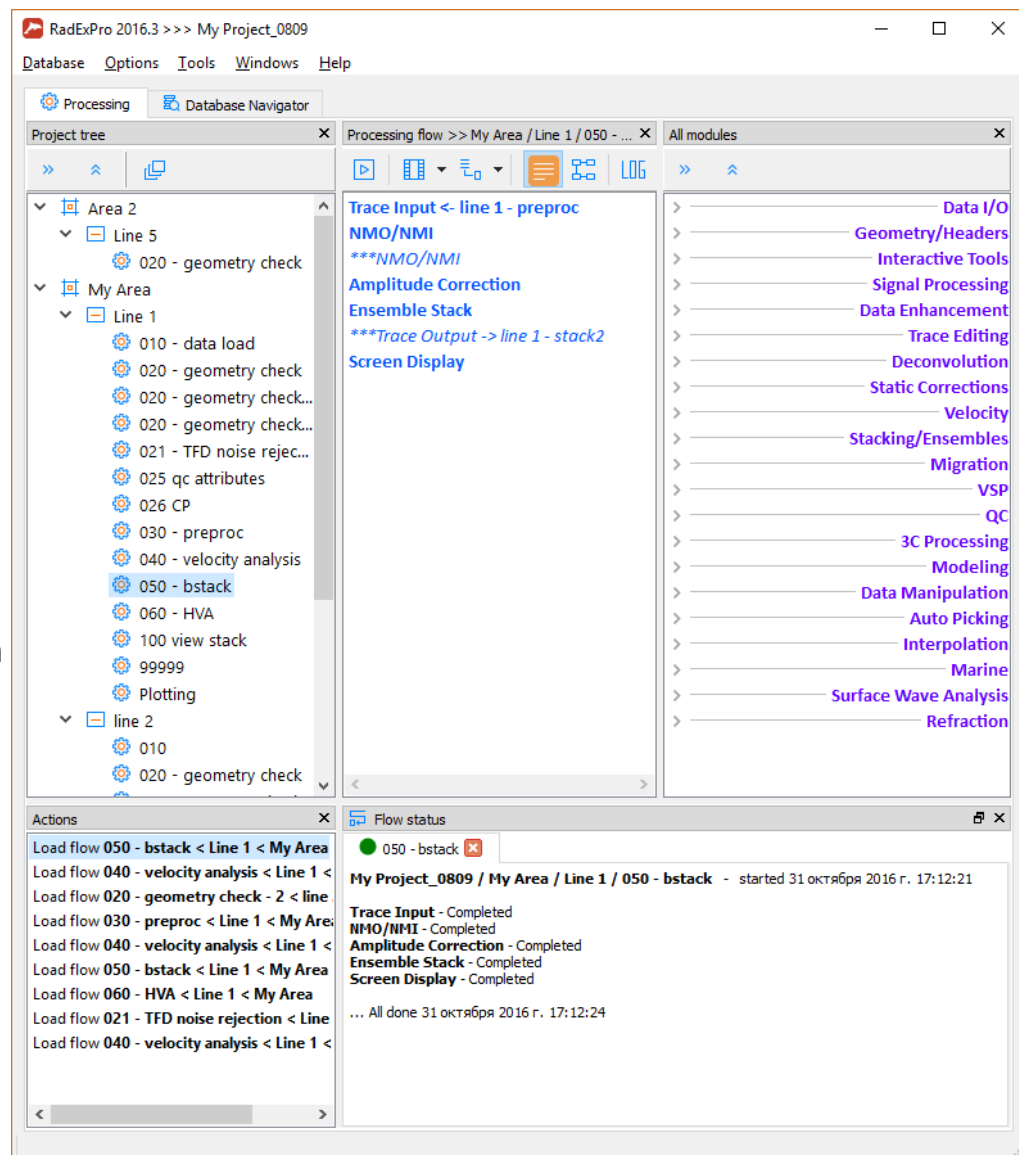
Vibroseis correlation, trace editing, band-pass and 2D filtering, ground-roll suppression, amplitude correction, deconvolutionms, interactive velocity analysis, statics, NMO-correction, DMO, stacking, migrations, etc.

Handy data management tools

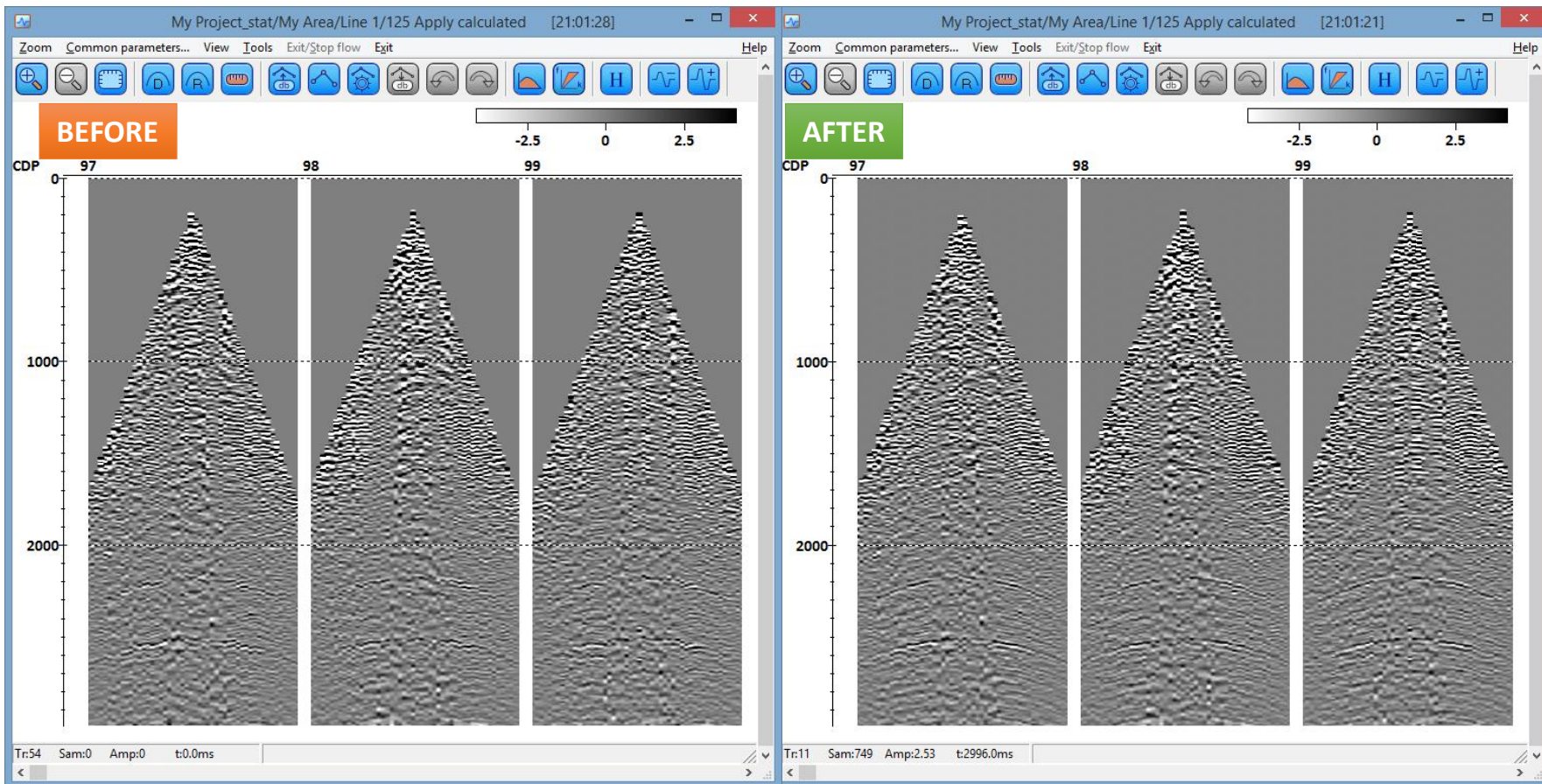
- Processing in projects, data is stored together with processing parameters.
- Processing history is available for each dataset.

Efficiently handle data of any size

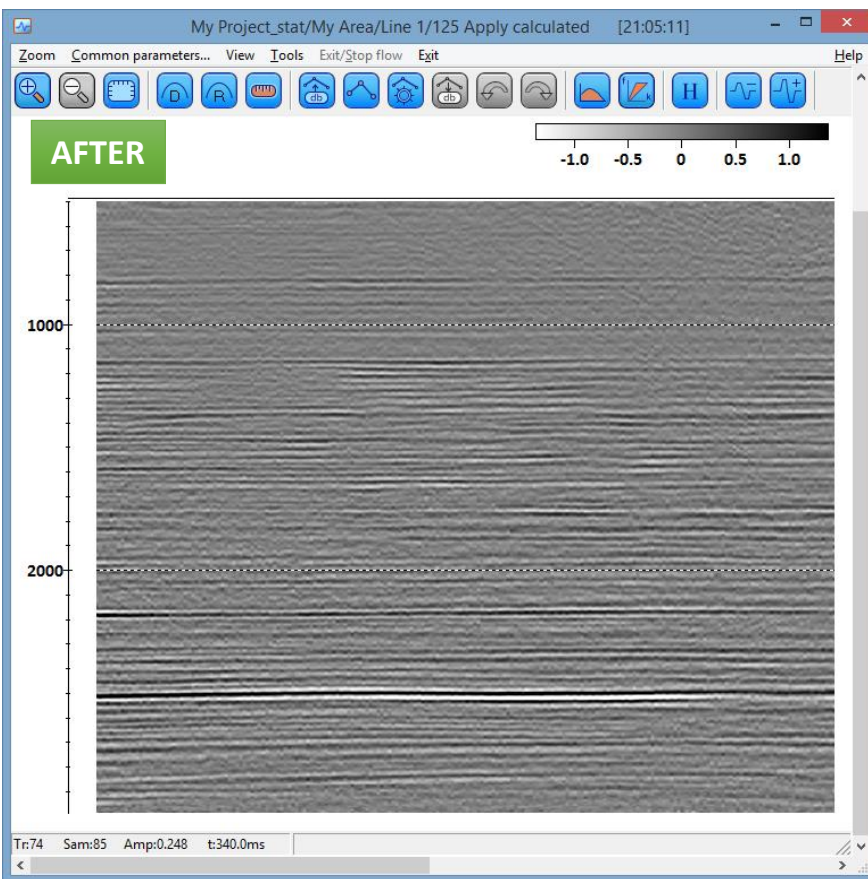
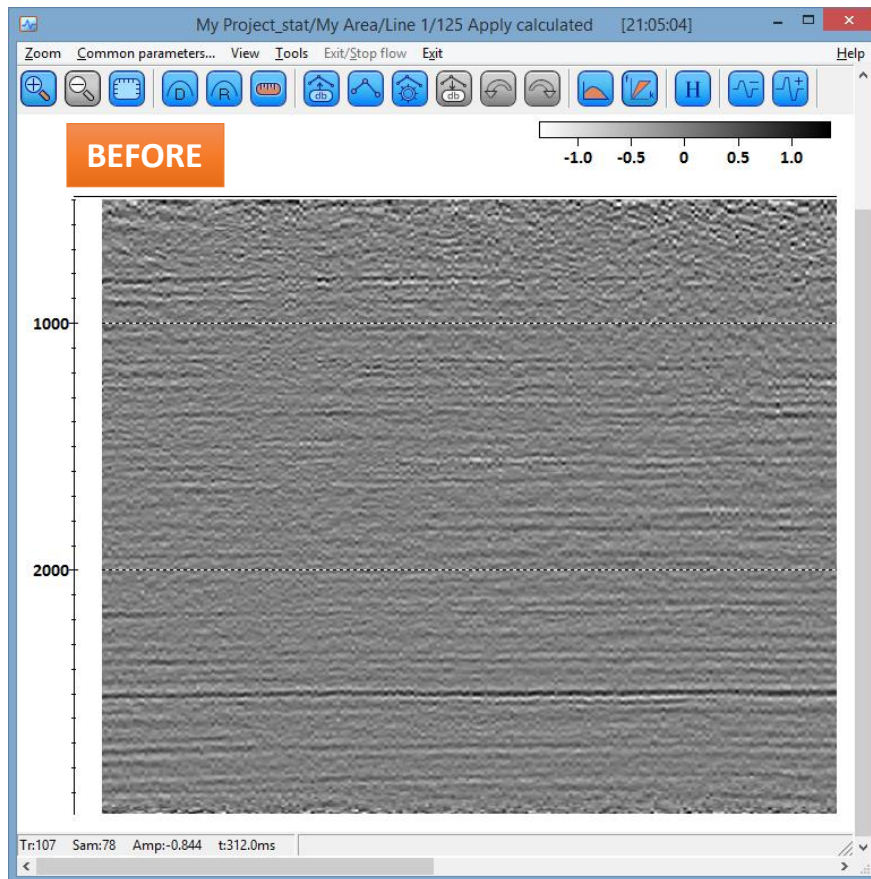
- Framed mode of flow execution.
- Fast resorting of big data volumes.
- Parallelization – up to 4 queues to run in parallel



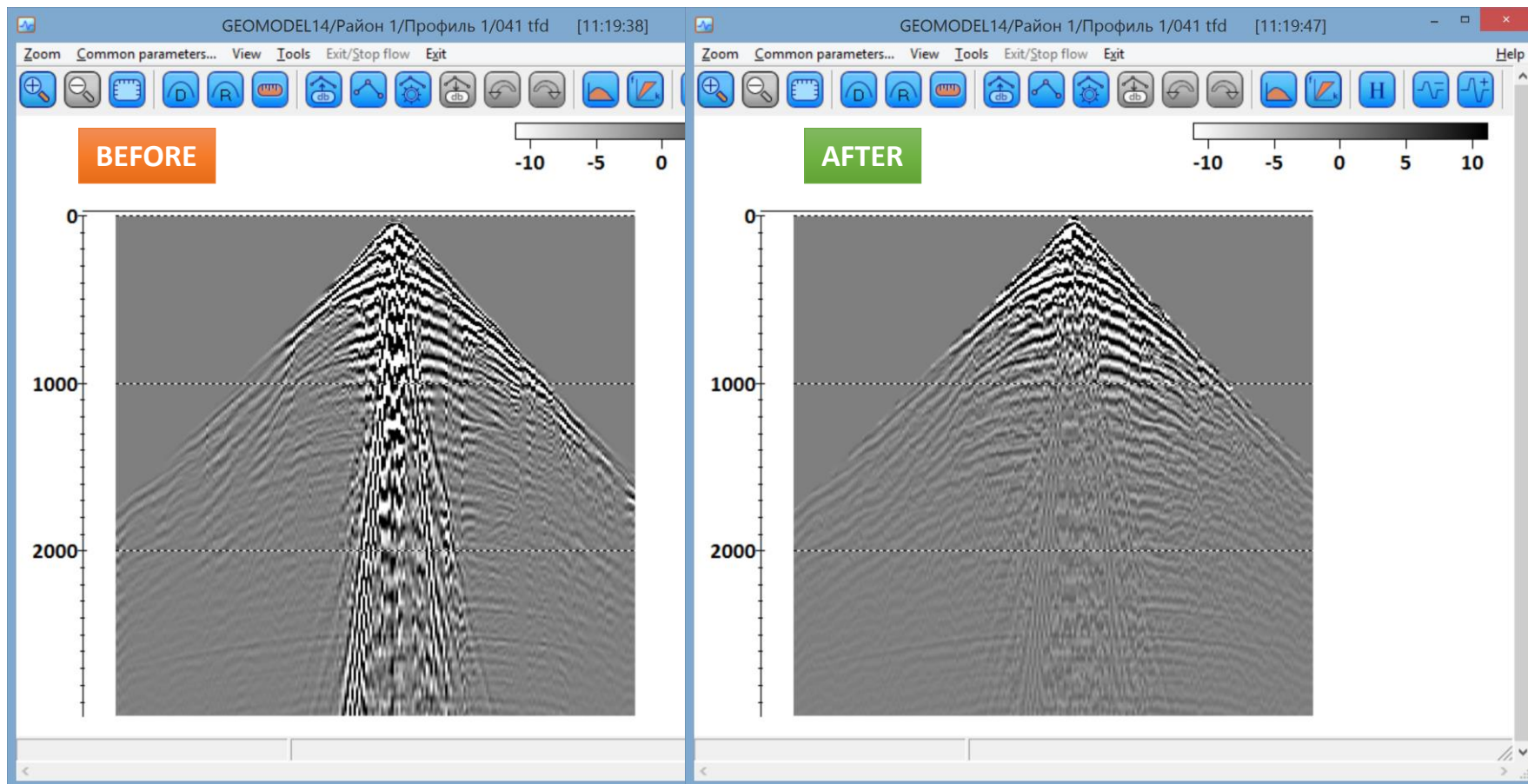
Processing example: MaxPower autostatics (2D, 3D)



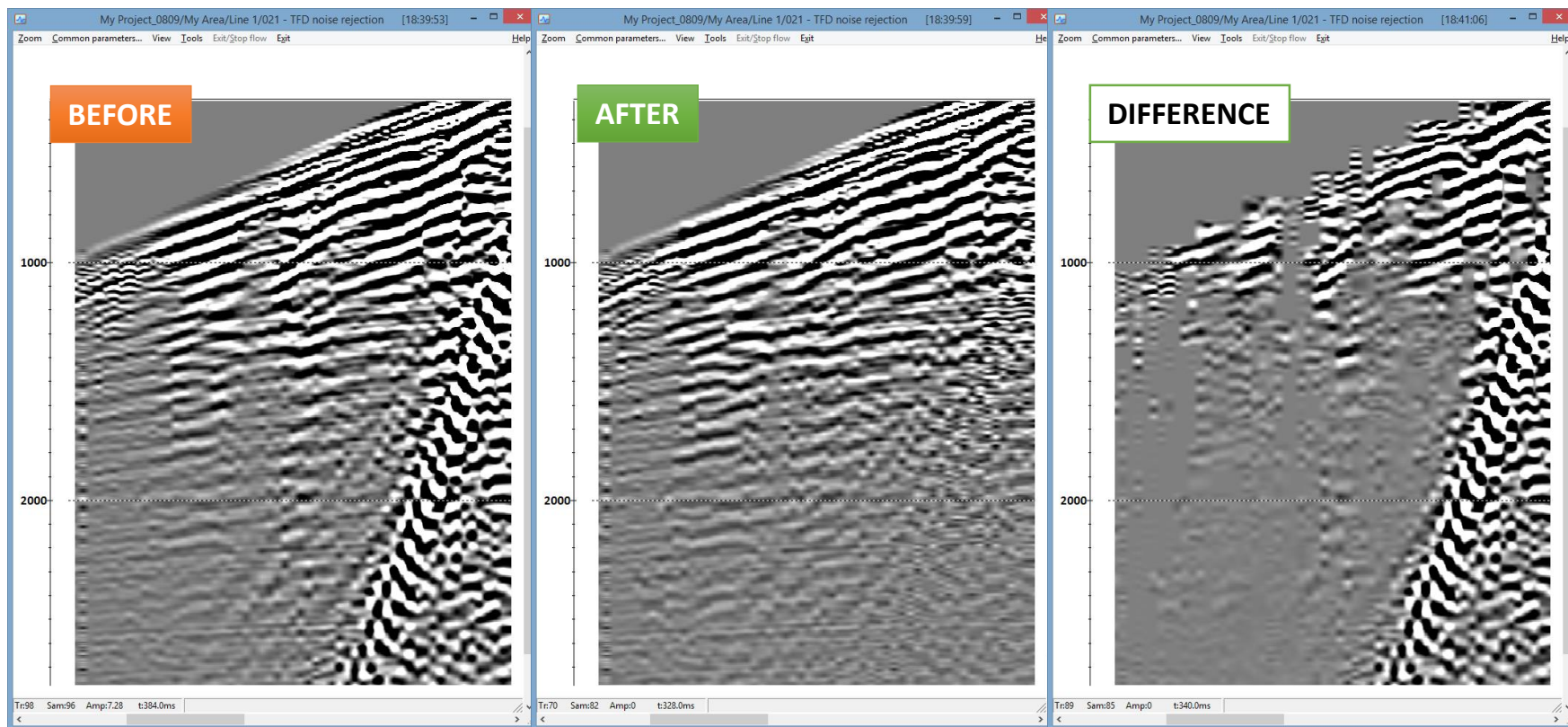
Processing example: MaxPower autostatics (2D, 3D)



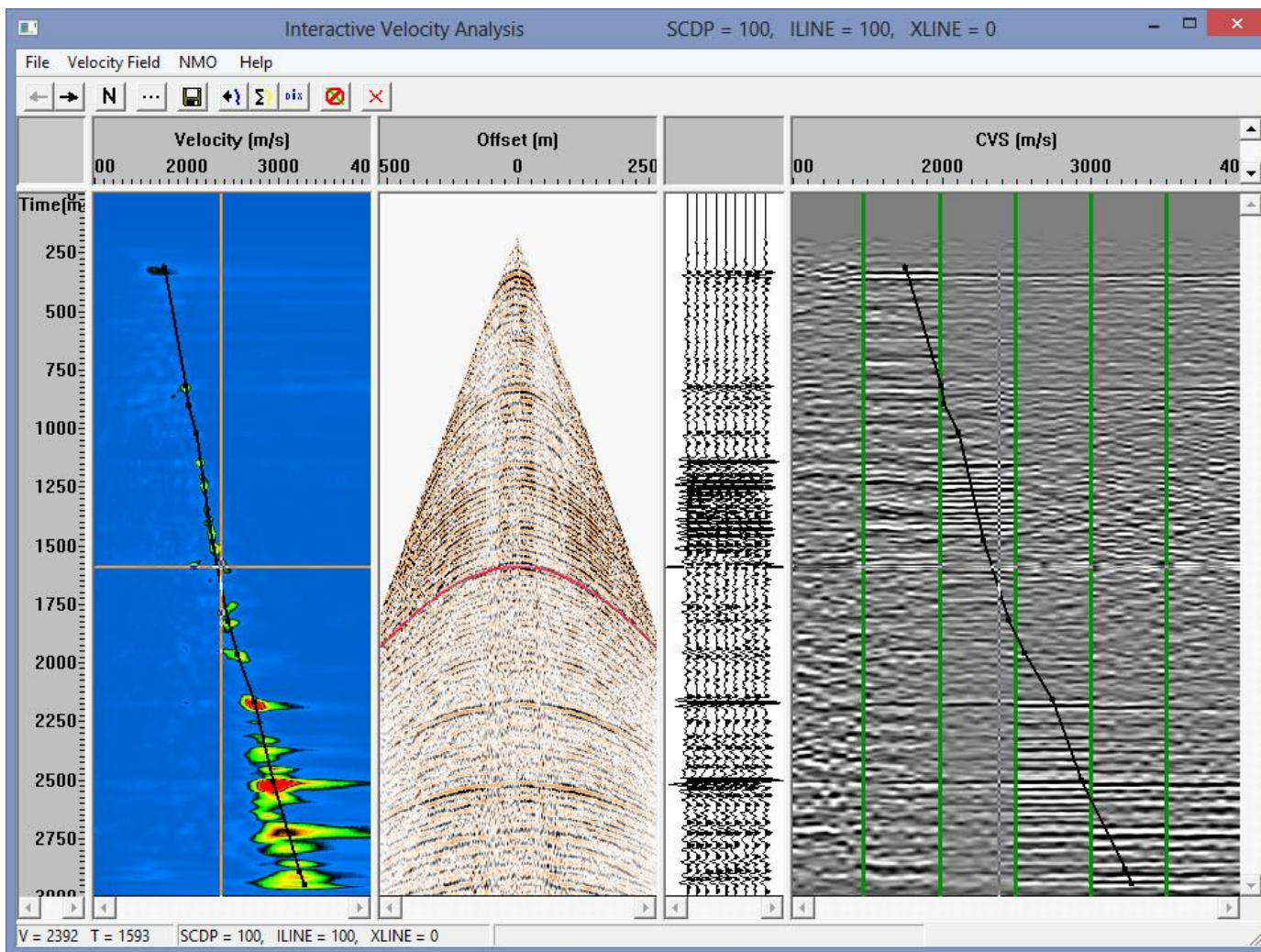
Processing example: TFD Noise Attenuation



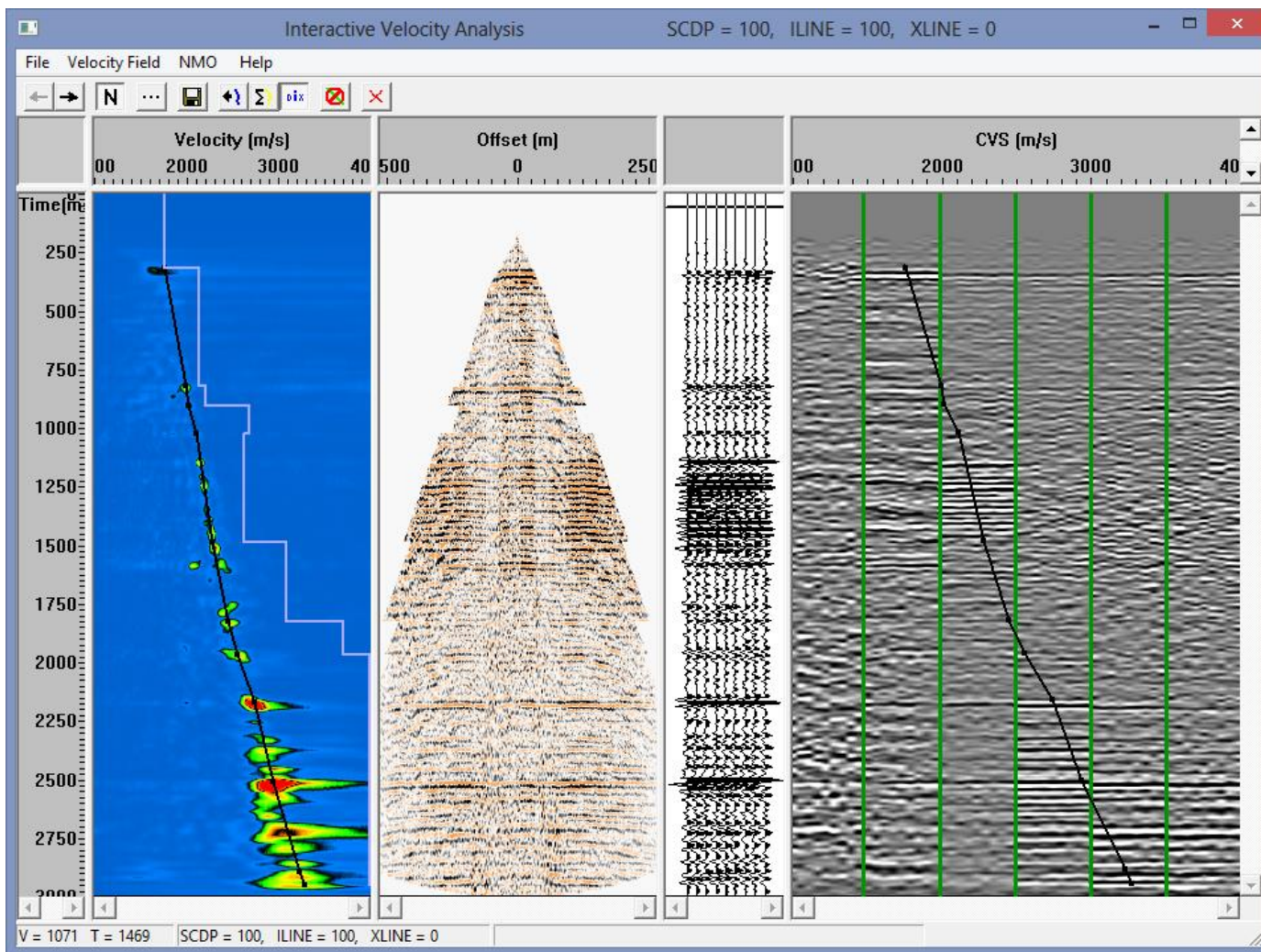
Automatically synchronized displays: before processing, after processing and the difference



Interactive Velocity Analysis



Interactive Velocity Analysis

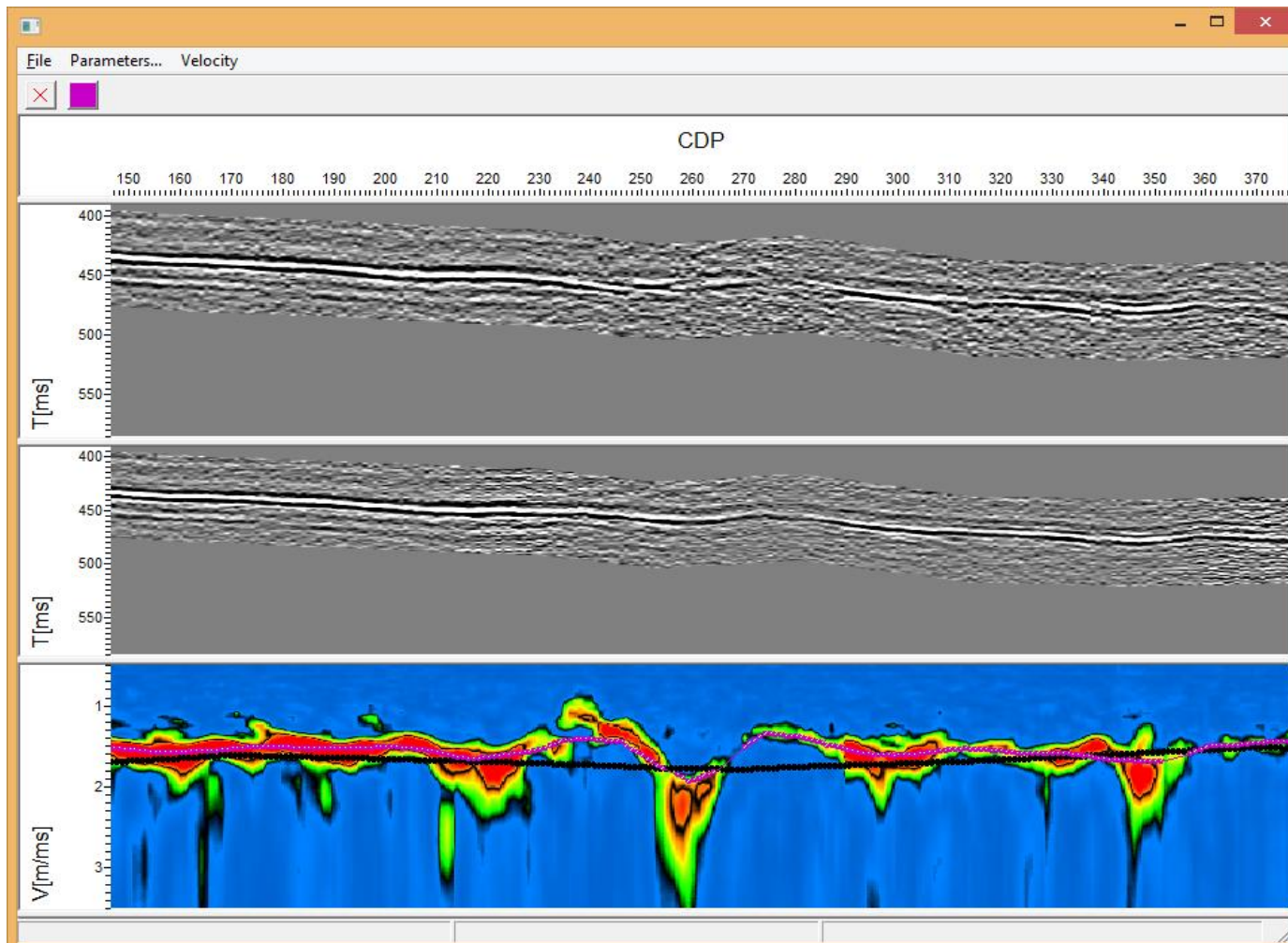




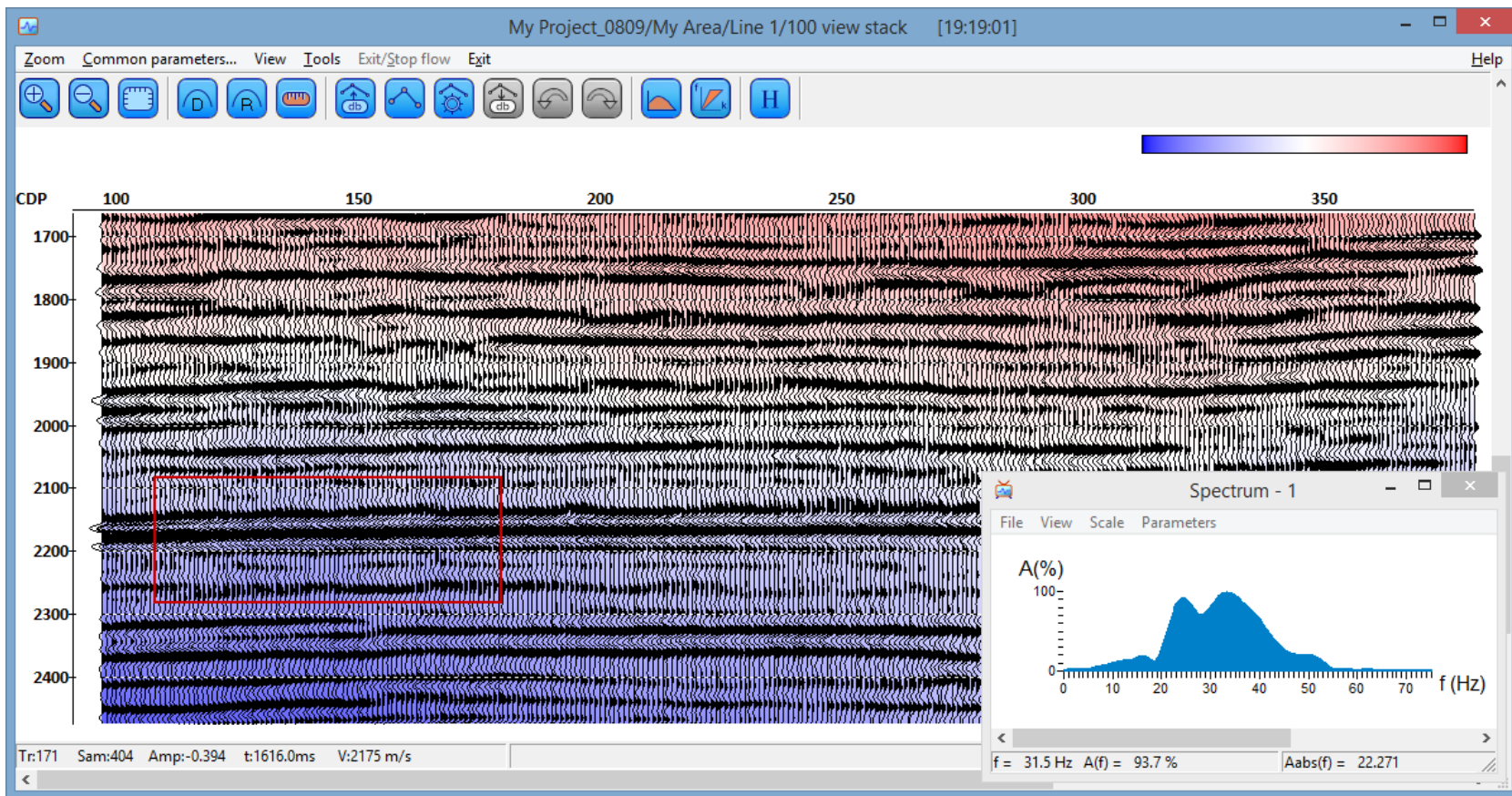
RadExPro
seismic software

for infield QC and fast-track processing

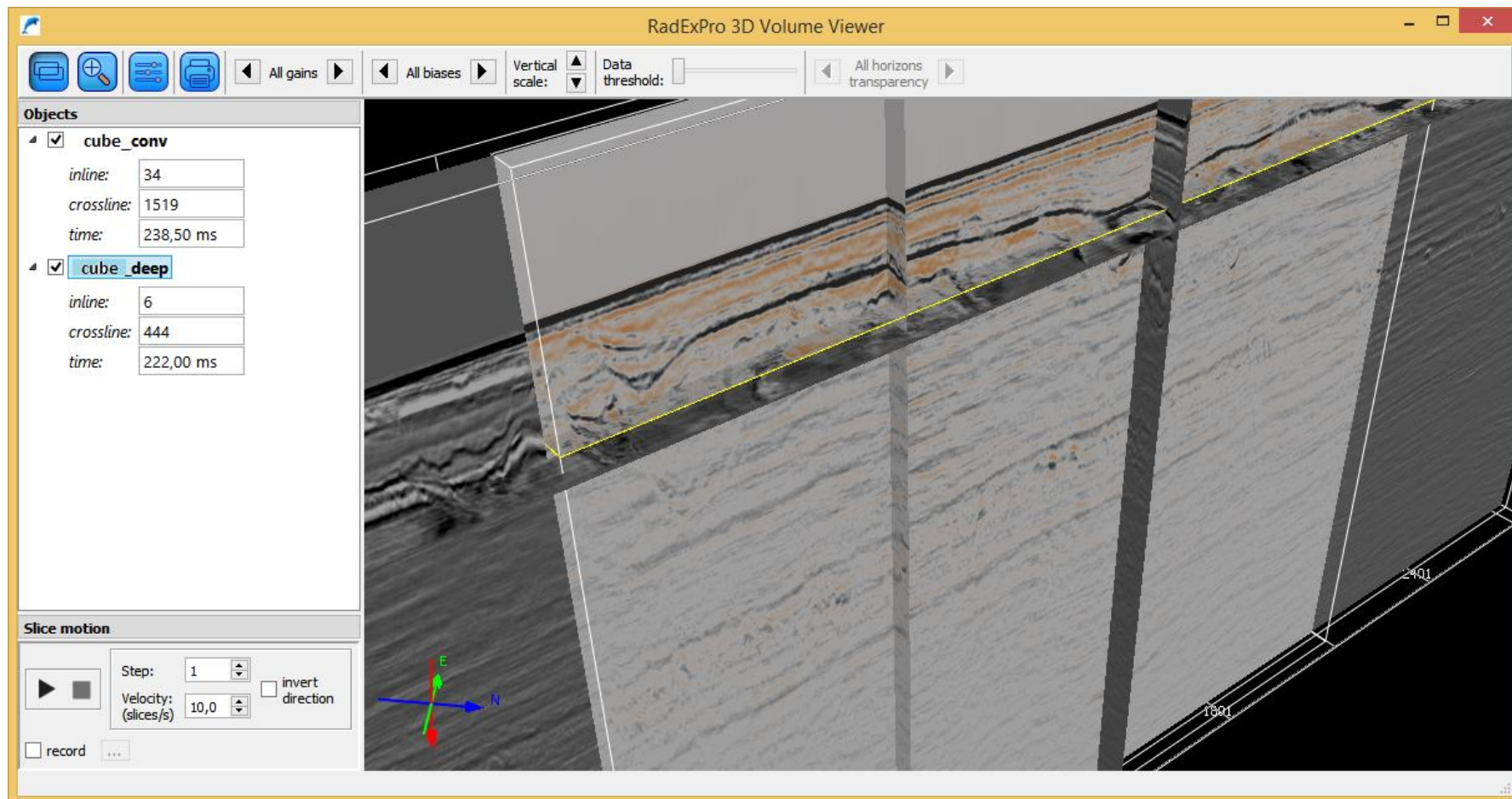
Horizontal Velocity Analysis



Simultaneous display of seismic and velocity sections



Simultaneous display of seismic and velocity sections





for infield QC and fast-track processing

Deliverables: Export to SEG-Y is fully customizable!

- Any sample format and byte order
- Trace header remapping

SEG-Y Output

output.sgy

☐ From batch list

Sample format

☐ I1 ☐ I2 ☒ I4

☐ R4 ☐ IBM floating point

Byte order

☒ Big-endian byte order (SEG-Y standard)

☐ Little-endian byte order

Trace weighting

☐ Allow trace weighting

☐ Allow negative weighting factor ☐ Suppress out-of-range warnings

Scalars

Scalar for elevations and depths (+ = multiplier, - = divisor).

Scalar for coordinates (+ = multiplier, - = divisor).

Coordinate units

☒ Length in meters or feet

☐ Length in arc seconds

☒ Remap header values

RECNO,4I,,181/ SOURCE,4I,,185/ ILINE_NO,4I,,189/ XLINE_NO,4I,,193/
CDP_X,4R,IBM,197/ CDP_Y,4R,IBM, 201

SegY headers

☐ Fill EBCDIC header

Deliverables: Export to SEG-Y is fully customizable!

- Any sample format and byte order
- Trace header remapping
- Edit EBCDIC textual header

SEG-Y Output

output.sgy Browse...

☐ From batch list Batch output settings...

Sample format

☐ I1 ☐ I2 ☒ I4

☐ R4 ☐ IBM floating point

Byte order

☒ Big-endian byte order (SEG-Y standard)

☐ Little-endian byte order

Trace weighting

☐ Allow trace weighting

☐ Allow negative weighting factor

Scalars

Scalar for elevations and depths (+ = multiplier, - = divisor): -10

Scalar for coordinates (+ = multiplier, - = divisor): -10

☒ Remap header values

RECNO,4I,,181/ SOURCE,4I,,185/ ILINE_NO,4I
CDP_X,4R,IBM,197/ CDP_Y,4R,IBM, 201

Load remap

SegY headers

☐ Fill EBCDIC header Display EBCDIC

EBCDIC header

C 1 CLIENT COMPANY CREW NO

C 2 LINE AREA MAP ID

C 3 REEL NO DAY-START OF REEL YEAR OBSERVER

C 4 INSTRUMENT: MFG MODEL SERIAL NO

C 5 DATA TRACES/RECORD AUXILIARY TRACES/RECORD CDF FOLD

C 6 SAMPLE INTERVAL SAMPLES/TRACE BITS/IN BYTES/SAMPLE

C 7 RECORDING FORMAT FORMAT THIS REEL MEASUREMENT SYSTEM

C 8 SAMPLE CODE: FLOATING PT FIXED PT FIXED PT-GAIN CORRELATED

C 9 GAIN TYPE: FIXED BINSRY FLOATING POINT OTHER

C 10 FILTERS: ALIAS HZ NOTCH HZ BAND - HZ SLOPE - DB/OCT

C 11 SOURCE: TYPE NUMBER/POINT POINT INTERVAL

C 12 PATTERN: LENGTH WIDTH

C 13 SWEEP: START HZ END HZ LENGTH MS CHANNEL NO TYPE

C 14 TAPER: START LENGTH MS END LENGTH MS TYPE

C 15 SPREAD: OFFSET MAX DISTANCE GROUP INTERVAL

C 16 GEOPHONES: PER GROUP SPACING FREQUENCY MFG MODEL

C 17 PATTERN: LENGTH WIDTH

OK Load from EBCDIC text file Load from ASCII text file Cancel

Edit binary header

OK Cancel

Deliverables: Export to SEG-Y is fully customizable!

- Any sample format and byte order
- Trace header remapping
- Edit EBCDIC textual header
- Edit binary header

SEG-Y Output

output.sgy Browse...

☐ From batch list Batch output settings...

Sample format

☐ I1 ☐ I2 ☒ I4

☐ R4 ☐ IBM floating point

Byte order

☒ Big-endian byte order (SEG-Y standard)

☐ Little-endian byte order

Trace weighting

☐ Allow trace weighting

☐ Allow negative weighting factor

Scalars

Scalar for elevations and depths (+ = multiplier, - = divisor).

Scalar for coordinates (+ = multiplier, - = divisor).

☒ Remap header values

RECNO,4I,,181/ SOURCE,4I,,185/ ILINE_NO,4I
CDP_X,4R,IBM,197/ CDP_Y,4R,IBM, 201

Load remap

SegY headers

☐ Fill EBCDIC header Display EBCDIC

OK Cancel

EBCDIC header

C 1 CLIENT COMPANY CREW NO

C 2 LINE AREA MAP ID

C 3 REEL NO DAY-START OF REEL YEAR OBSERVER

C 4 INSTRUMENT: MFG

C 5 DATA TRACES/RECORD

C 6 SAMPLE INTERVAL

C 7 RECORDING FORMAT

C 8 SAMPLE CODE: FLOATING

C 9 GAIN TYPE: FIXED BINS

C 10 FILTERS: ALIAS HZ NOT

C 11 SOURCE: TYPE NUM

C 12 PATTERN:

C 13 SWEEP: START HZ END

C 14 TAPER: START LENGTH

C 15 SPREAD: OFFSET MAX

C 16 GEOPHONES: PER GROUP

C 17 PATTERN:

OK Cancel

Binary header editor

Offset	Description	From header	Header list	Constant value
3201	Job identification number	<input type="checkbox"/>		0
3205	Line number	<input type="checkbox"/>		0
3209	Reel number	<input type="checkbox"/>		0
3213	Number of data traces per ensemble	<input type="checkbox"/>		0
3215	Number of auxiliary traces per ensemble	<input type="checkbox"/>		0
3217	Sample interval in microseconds (μ s) (= 1000 x value -- value mus...	<input checked="" type="checkbox"/>	dt	0
3219	Sample interval in microseconds (μ s) of original field recording (= ...	<input type="checkbox"/>		0
3221	Number of samples per data trace	<input checked="" type="checkbox"/>	NUMSMP	0
3223	Number of samples per data trace for original field recording	<input checked="" type="checkbox"/>		0
3225	Data sample format code 1 = 4-byte IBM floating-point 2 = 4-byte inte...	<input type="checkbox"/>		Auto
3227	Ensemble fold - The expected number of data traces per trace ens...	<input type="checkbox"/>		0
3229	Trace sorting code (i.e. type of ensemble)	<input type="checkbox"/>		0
3231	Vertical sum code	<input type="checkbox"/>		0

OK Cancel Set defaults

Deliverables: Export to SEG-Y is fully customizable!

- Any sample format and byte order
- Trace header remapping
- Edit EBCDIC textual header
- Edit binary header
- Optional remap of headers affected by coordinates and elevation scalars

SEG-Y Output

output.sgy Browse...

☐ From batch list Batch output settings...

Sample format

☐ I1 ☐ I2 ☒ I4

☐ R4 ☐ IBM floating point

Byte order

☒ Big-endian byte order (SEG-Y standard)

☐ Little-endian byte order

Trace weighting

☐ Allow trace weighting

☐ Allow negative weighting factor

Scalars

Scalar for elevations and depths (+ = multiplier, - = divisor).

Scalar for coordinates (+ = multiplier, - = divisor).

☒ Remap header values

RECNO,4I,,181/ SOURCE,4I,,185/ ILINE_NO,4I
CDP_X,4R,IBM,197/ CDP_Y,4R,IBM, 201

Load remap

SegY headers

☐ Fill EBCDIC header Display EBCDIC

OK Cancel

EBCDIC header

Offset	Description	From header	Header list	Constant value
3201	Job identification number	<input type="checkbox"/>		0
3205	Line number	<input type="checkbox"/>		0
3209	Reel number	<input type="checkbox"/>		0
3213	Number of data traces per ensemble	<input type="checkbox"/>		0
3215	Number of auxiliary traces per ensemble	<input type="checkbox"/>		0
3217	Sample interval in microseconds (µs) (= 1000 × value -- value mus...	<input checked="" type="checkbox"/>	dt	0
3219	Sample interval in microseconds (µs) of original field recording (= ...	<input type="checkbox"/>		0
3221	Number of samples per data trace	<input checked="" type="checkbox"/>	NUMSMP	0
3223	Number of samples per data trace for original field recording	<input type="checkbox"/>		0
3225	Data sample format code1 = 4-byte IBM floating-point2 = 4-byte inte...	<input type="checkbox"/>		Auto
3227	Ensemble fold - The expected number of data traces per ensemble	<input type="checkbox"/>		0
3229	Trace sorting code (i.e. type of ensemble)	<input type="checkbox"/>		0
3231	Vertical sum code	<input type="checkbox"/>		0

OK Cancel

Multiplied fields

REC_ELEV,SOU_ELEV,DEPTH,SOU_H2OD,REC_H2OD

Defaults

OK Cancel



for infield QC and fast-track processing

Deliverables: print with preview!

Plotting parameters

Dataset: White Sea\line 5\stack_final

Sort fields: CDP

Selection: 1100-2200

From t= 50 to 200

☐ Variable spacing field...

☐ Ensemble boundaries

Ensembles' gap: 2 traces

☐ Use excursion 2 traces

Additional scalar: 0.3

Bias: 0

Line width (mm): 0.01

Normalizing: ☐ None ☒ Entire set ☐ Individual

Scales: T Scale: 12 ms/cm X Scale: 60 traces/cm

General Layout...

T Axis...

X Axis...

Microsoft XPS Document Writer

☒ Display traces in Layout Preview

Update Preview

Layout preview

File View

DECO GEOPHYSICAL software company

DECO Geophysical Software Company
High-Resolution Offshore Data Processing Tutorial
White Sea

SEG-Y input < lineDraw.sgy
Geometry Assignment
BPF 75-150-2500-5000
Spherical Divergence Correction
N/A
NMO-correction
CDP stacking
Predictive Deconv 1.5 ms gap
BPF 100-200-1500-3000
Top Muting
Kirchoff Migration
F-K Amplitude Polver (exp. 0.5, FX domain)
Top Muting

CDP 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200

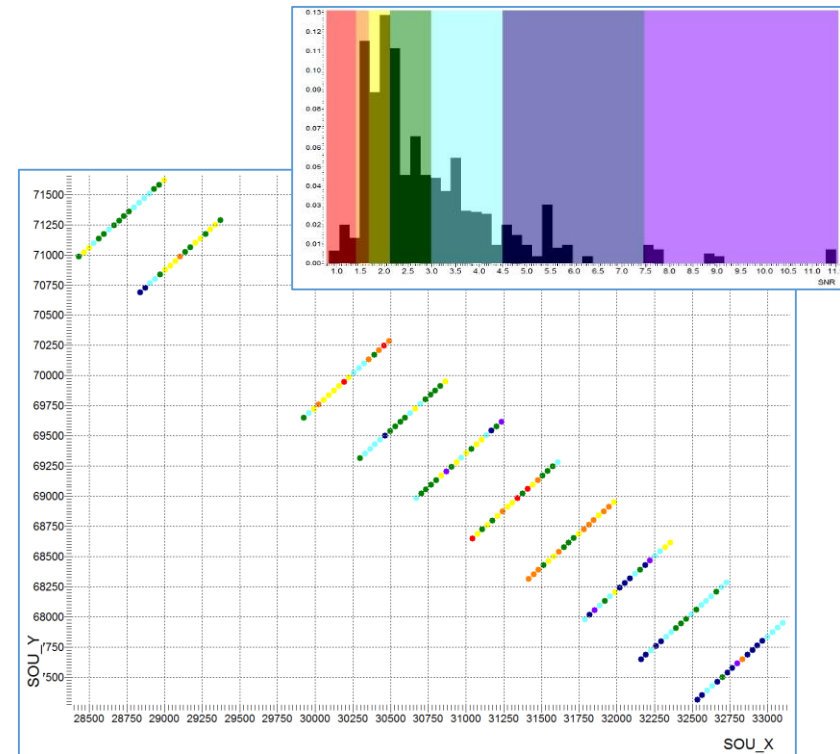
TWT (ms) 50 100 150

Deliverables: attributes and coordinates

ExportHeaders.txt — Блокнот

	FFID	AMP	AMP_N	FREQ	FREQ_N	SNR	SOU_X	SOU_Y
1	0.40780	0.00404	17.18436	11.40157	2.31017	-12.50000	2713.54541	
2	0.45047	0.00295	16.19009	12.38495	2.42503	38.53920	2713.69238	
3	0.44036	0.00525	15.81659	10.66598	2.58533	88.54920	2713.80005	
4	0.28959	0.00412	15.41971	13.12504	2.22132	137.54919	2713.88232	
5	0.40477	0.00364	16.54680	13.00957	1.56203	187.54919	2713.89478	
6	0.32324	0.00363	16.29476	13.28199	1.70511	237.54919	2713.90479	
7	0.46186	0.00738	13.71095	12.34985	1.42773	288.54919	2713.91309	
9	0.55527	0.00373	14.74238	13.92968	1.65314	387.55942	2713.92603	
10	0.84220	0.00342	15.36733	13.20636	2.23475	437.56940	2713.93115	
11	0.76150	0.00393	14.98869	15.32059	2.10012	487.57941	2713.90332	
12	0.56859	0.00350	14.54371	12.96010	1.54241	537.57941	2713.87891	
13	0.55225	0.00353	13.72338	12.14873	1.88807	587.58942	2713.84277	
14	0.58447	0.00333	14.96383	15.10681	1.30344	637.58942	2713.79736	
15	0.54245	0.00456	15.42029	12.48737	0.90051	687.59943	2713.75635	
16	0.60316	0.00461	14.45383	14.02443	0.85021	737.59943	2713.71948	
17	0.77343	0.00477	12.95721	14.73612	0.75991	787.60938	2713.68604	
19	0.67094	0.00741	11.78627	15.67359	0.65103	885.71307	2713.62769	
20	0.66868	0.00926	11.84008	13.50540	0.61142	934.71307	2713.58154	
21	0.64874	0.01031	11.31537	17.56605	0.54757	985.72284	2713.55884	
22	0.54006	0.00712	11.52600	14.56207	0.74262	1037.73242	2713.53784	
23	0.48283	0.00959	11.61851	14.46981	0.55119	1088.82068	2713.51807	
24	0.60930	0.01046	15.49097	15.78631	0.49083	1163.84729	2713.49146	
25	0.47919	0.01058	16.09502	17.82988	0.49014	1188.92712	2713.48315	
26	0.57723	0.01284	15.43734	15.38037	0.65329	1237.96802	2713.48364	
27	0.79876	0.01247	15.55790	14.89894	0.53239	1313.97449	2713.48438	
28	0.66504	0.00927	15.58137	17.72635	0.49675	1338.97449	2713.48462	
30	0.71848	0.01529	15.58392	15.97586	0.75715	1438.22485	2713.51440	
31	0.50405	0.01688	14.95415	11.69521	0.71301	1488.23486	2713.52808	
32	0.54298	0.00769	15.56439	18.62620	1.23585	1539.23486	2713.53418	
33	0.43817	0.01059	15.82579	19.76657	1.82030	1588.23486	2713.53345	
34	0.40370	0.01258	16.72662	17.70386	1.86233	1637.27563	2713.53247	
35	0.46802	0.00826	18.70637	15.29631	2.26211	1689.28528	2713.53174	
36	0.36120	0.01061	17.30173	15.71662	1.96963	1739.28528	2713.53711	
37	0.23100	0.00809	19.60849	16.21332	1.89694	1789.28528	2713.53613	
38	0.44917	0.01035	18.32579	13.27274	2.06608	1836.29590	2713.52344	
39	0.53951	0.01172	15.82292	11.25987	0.97701	1888.30554	2713.51733	
40	0.34360	0.00577	16.54863	13.33638	0.61791	1940.30554	2713.52246	
41	0.26758	0.00426	17.08064	15.23038	0.88790	1990.34546	2713.52197	
42	0.27155	0.00500	16.06999	14.55667	0.81715	2043.35498	2713.52148	
43	0.44234	0.00806	16.08420	13.82697	0.62161	2088.35498	2713.52100	

- Export to ASCII
- Print and save images from crossplots



Open architecture

Missing some specific algorithm? Code it yourself and get it integrated into the system!

We provide open API for developing your own modules on C++.

A dedicated Wizard for MS Visual C++ will generate an empty processing module for you, you will only need to populate it with your own processing code.



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