RadExPro seismic software for infield QC and fast-track processing of 2D/3D seismic data

DECO Geophysical Software Co.





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 of at the office.

It is used for these purpose in a number of service and oil-and-gas companies both inside Russia and abroad.

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

- Handy graphical inteface
- Manual and tutorials available

No specific hardware required

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





SEG-D	Input	×	Formats supported:	
Files From batch list data\R1081_4951.1.0 data\R1081_4955.1.0 data\R1081_4953.1.0 data\R1081_4963.1.0 data\R1081_4971.1.0 data\R1081_4975.1.0 data\R1081_4975.1.0 data\R1081_4975.1.0 data\R1081_4975.1.0		Start time) End time) ples	-SEG-D (with optional header remapping) -SEG-Y (with optional header remapping) -SEG-2 and more -Input seismic trace from ASCII	
dataqR1081_4991.10 dataqR1081_4991.10 dataqR1081_4995.1.0 Skip records of types [-1 disables this feature] Input chanel type[s] [-1: input all chanel types] Specify seismic data channel type[s] Remap SEGD main header values	 ✓ Apply pre-amplifier gain □ Calculate Source Index manually □ Set auxiliary trace channel number to negat □ Suppress warnings □ Time from stamp □ Remap SEGD trace header values 	File(s) Data\line_1.	SEG-Y Input Sample format Sample interval 4 I.sgy II I2 I4 R4 IBM Floating Point Trace length 75 I Sig-endian byte order Big-endian byte order Sample interval 4	0
YEAR, 28,10.5/DAY, 38,12/HOUR, 28,13.5/ MINUTE, 28,14.5/SECOND, 28,15.5/ SOURCE, 11,76/ □ Debug log file □ Dump external headers □ OK	R_LINE,,2i,,,22/ REC_SLOC,,2i,,,25	Add		ve remap





SEG-Y Detective – flexible multi-purpose SEG-Y file analyzer

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Return of first Num Description Num	Trace № 1	÷		○ Little Endian / ⓒ Big Endian				-2.88474e-006 1.11301e-006	any formats with any byte order
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	leady	_	_					NUM	



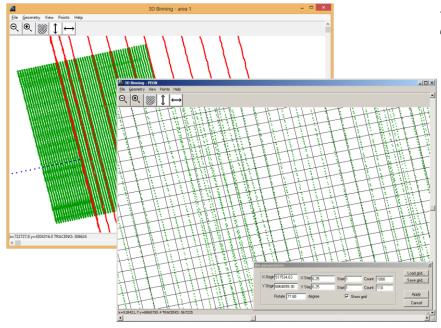
RadExPro for infield QC and fast-track processing

Handy and flexible geometry assignment tools

Import SP5 X file			X	- From SPS-files
		1	- Lines	- Frem UKOOA p1-90 files
Definition of Field Field record number	Header Name FFID	Change header		
Source line	S_LINE		From	- From arbitrary ASCII table files
Source station location	SOU_SLOC		To 0	- Built-in spreadsheet and header math editors
From chanel To chanel	CHAN			- built-in spreadsheet and nedder math eartors
Chanel increment			- Text table type	
Receiver line First receiver station location	R_LINE REC_SLOC	9 _ 11	C Delimited	line5746 - Geometry Spreadsheet
Last receiver station location	REC_SLOC			
Receiver station location increment		Set pos	Fixed width	CHAN SOU X SOU Y
(1, 1) Selection: 9 - 11				Citizit SOC_1 SOC_2 SOC_1 Receiver format definition 1 2.94579.50000 3203161.30000 Soruce format definition Receiver format definition
				2 294579.30000 3203161.30000 Field Description Beg End Header Name Field Description Beg End Header Name
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X31 286 5012	2311	1 240 1012	113	4 294579.30000 3203161.30000 Y - Northing 56 64 SOU_Y Y - Northing 15 23 REC_Y Elev/Depth 65 70 SOU ELEV Depth 24 27 REC_ELEV
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X31 284 5012	2371	1 240 1012	117	Y-Nothing 41 49 REC Y
X31 283 5012	2391	1 240 1012	119	8 294579 30000 3203161 30000 Chan 54 57 CHAN
X31 282 5012 X31 281 5012	2401 2411	1 240 1012 1 240 1012	120 121	3 294579,3000 3203161,30000 X - Easting 58 66 REC_X 9 294579,30000 3203161,30000 Y - Northing 67 75 REC_Y
X31 280 5012	2411	1 240 1012	121	10 294579.30000 3203161.30000 Depth 76 79 REC_ELEV
X31 279 5012	2471	1 240 1012	127	11 294579.30000 3203161.30000
X31 278 5012	2491	1 240 1012	129	12 294579.30000 3203161.30000 (9, 67) Selection: 47 - 55 ✓ Use R_LINE:CHAN for receiver matching Set post
X31 277 5012	2511	1 240 1012	131	13 294579.30000 3203161.30000 U5826 1 062.01929.0054.88N095.0031.30W 30436.0.73211338.4 11.9212.05403.0 14 294579.30000 3303161.30000 E5826 1 062.01929.0054.88N095.0031.30W 30436.0.73211338.4 11.9212.05403.0
X31 276 5012 X31 275 5012	2531 2551	1 240 1012 1 240 1012	133 135	1 002019290055.66N0950030.37W 304386.2 00170 0000 020000 55826 11 002019290055.66N0950030.37W 304386.2
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X31 273 5012	2591	1 240 1012	139	17 294579.30000 3203161.30000 R 10304440.73211497.803.6 20304443.03211499.803.6 30304445.43211501.903.61
X31 272 5012	2611	1 240 1012	141 🔽	18 294579.30000 3203161.30000 R 403.94447.73211519.4.003.6 503.94450.13211506.103.6 603.94452.43211508.103.61 18 294579.30000 3203161.30000 R 703.94454.73211519.203.6 803.94457.13211512.303.6 603.94452.43211508.103.61
•				<u>19</u> <u>294579.30000</u> <u>3203161.30000</u> R 183 <i>0</i> 4453.532115 <i>0</i> 2.103.5 2 <i>0</i> 3 <i>0</i> 4455.8321150 <mark>4.203.5</mark> 3 <i>0</i> 3 <i>0</i> 4458.232115 <i>0</i> 6.3 <i>0</i> 3.52
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			23 1003	22 29/45/9/30000 39/0316130000 R 403 04473 43211512 003 2 503 04475 73211514 103 2 603 04478 13211516 203 23 23 29/4579 3000 320316130000 R 703 04480 43211518 203 2 803 04482 83211520 303 2 3
			24 1003	24 294579 30000 3203161 30000 R 103 04479.332115 08.503.0 203 04481.7321151 0.603.0 303 04484.03211512.703.04
			25 1003	25 294579.30000 3203161.30000 R 403 04486.43211514.703.0 503 04488.73211516.803.0 603 04491.03211518.903.04 25 294579.30000 3203161.30000 R 7 03 04493.43211521.003.0 803 04495.73211523.003.0 603 04491.03211518.903.04
			26 1003	26 294579.30000 3203161.30000 R 19304492.332115 199.992.6 20894494.63211512.802.6 30894497.93211514.102.65
			27 1003	27 294579.30000 3203161.30000 R 40304499.32211516.102.6 50304501.73211518.202.6 60304504.03211520.302.65 v
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GEOPHYSICAL			29 1003	17 2453/50000 51031618000
software company				

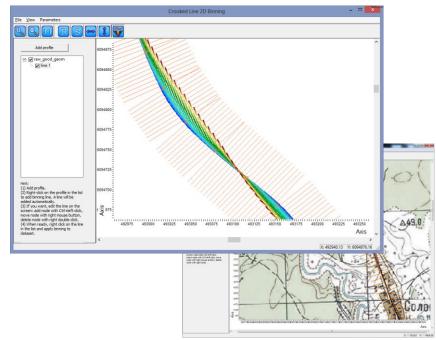
- From trace headers (if the values are there)





- 3D

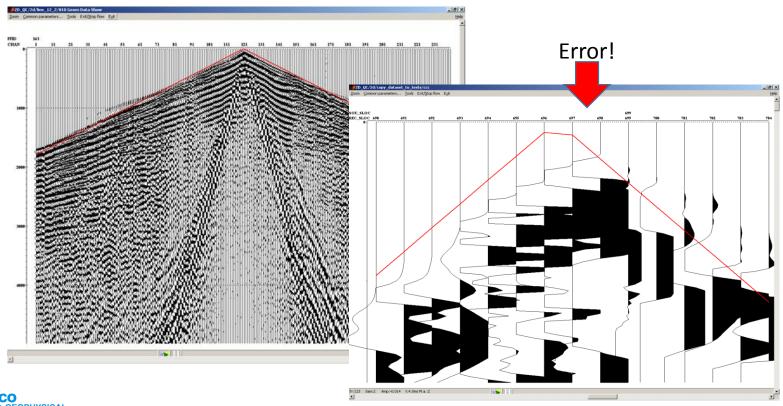
- 2D along arbitrary line (binning line offered automatically and can be edited interactively)







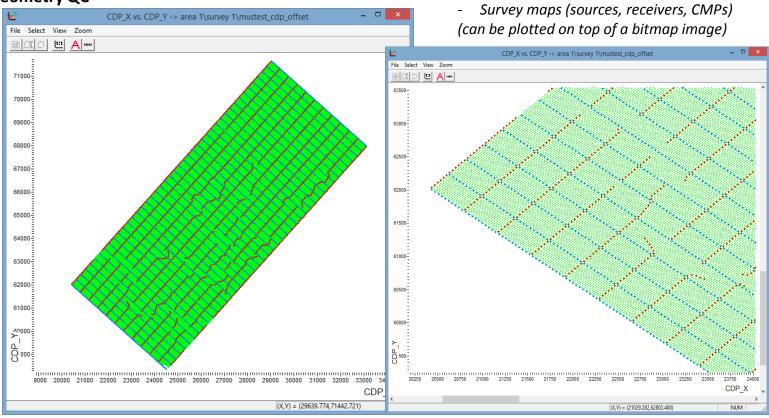
- First arrivals control







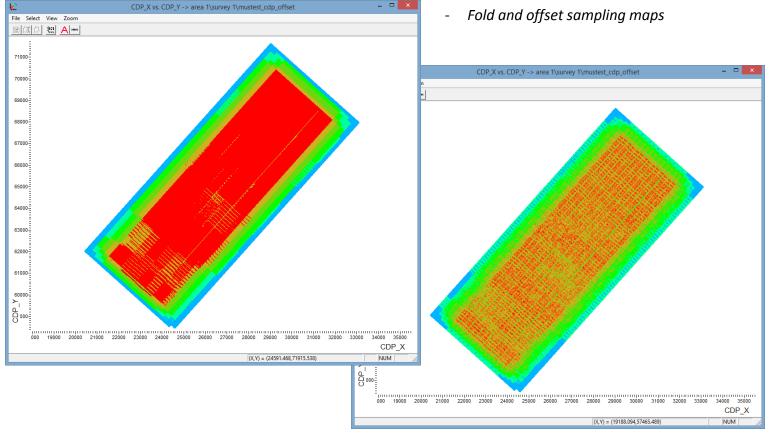
Geometry QC

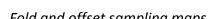






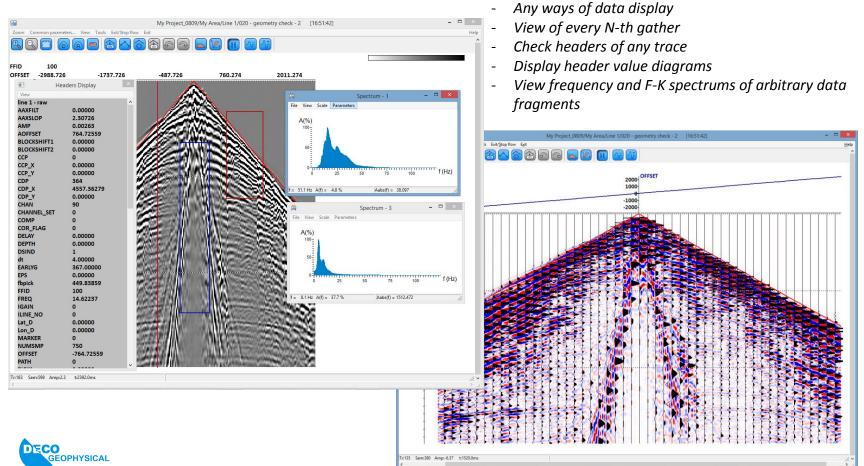
Geometry QC







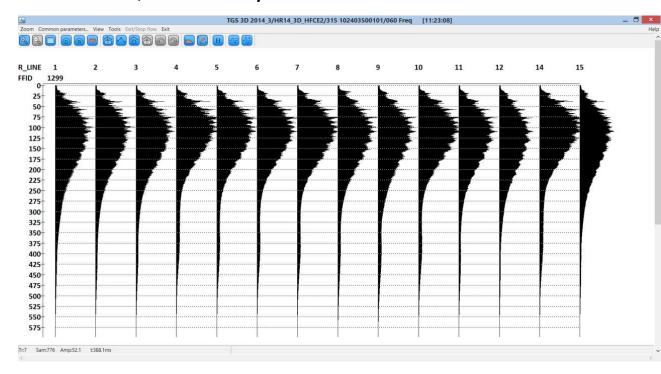




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software company



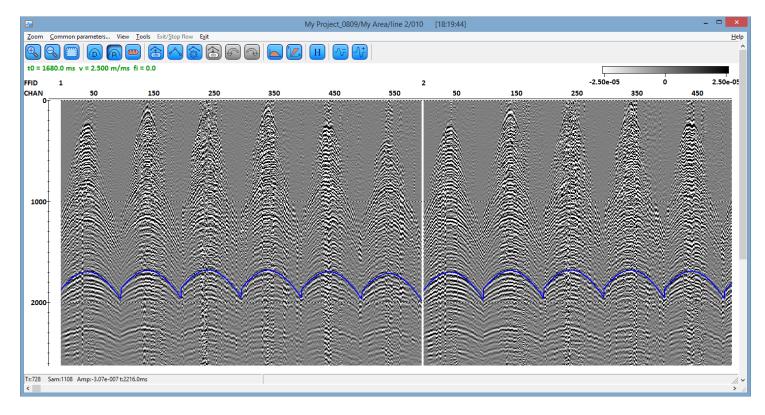


Display frequency spectra of every N-th channel





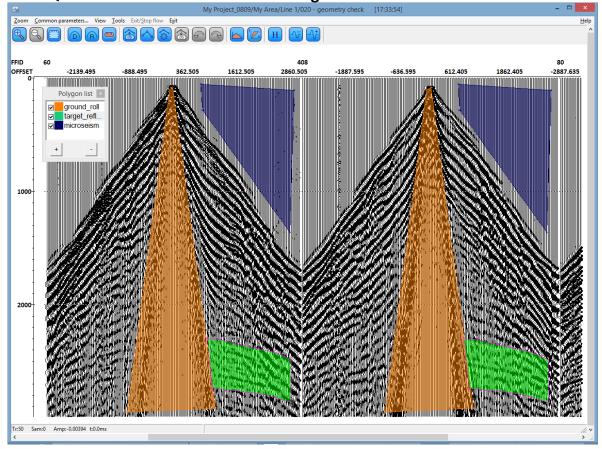
- Interactive estimation of seismic velocities of all wave types





RadExPro for infield QC and fast-track processing

QC attribute calculation for seismic gathers My Project_0809/My Area/Line 1/020 - geometry check [17:33:54]



- Interactively define windows for attribute calculation





QC attribute calculation for seismic gathers

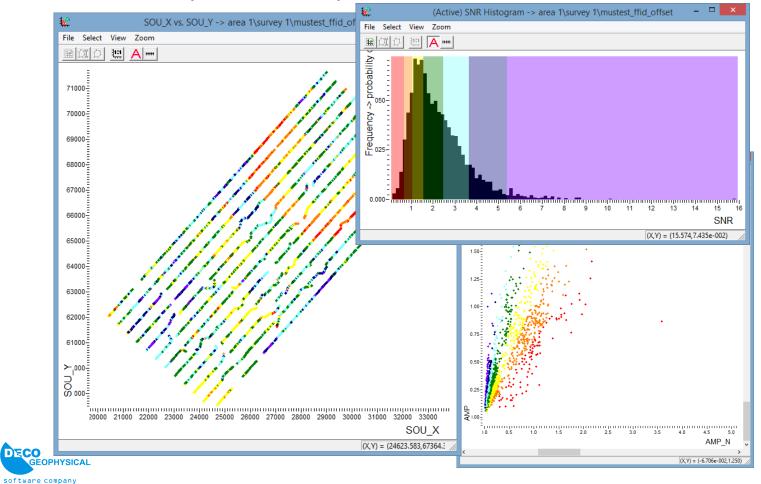
QC attribute	calculation for seismic gathers	- Evaluate amplitude and frequency
Image: Service parameters. Very just 12/15/10 Very just 12/15/10 Service parameters. Very just 12/15/10 Service parameters.	Ensemble QC Compute	attributes individually for each window
	Window Amplitude Ime 1\020 - geometry check\target_reflections Mean Trace Header Ine 1\020 - geometry check\target_reflections Mean Trace Header Square Max offset 2000 Min offset 1000 Max offset 2000 Min 0 Max 2000 Signal / Noise ratio Image: Compute Signal/Noise Ratio Signal / Noise ratio SNR Image: Compute Signal/Noise Ratio SNR Min Mode: Image: Normal Max 125 Compute Trace as signal Max 10	 Calculate SNR within a specified frequency band basing of correlation function spectra (either through CCF of neighboring traces, or with a stacked trace to remove coherent noise from the signal esitimate) Calculate any combined attributes and their relations
	Resolution SOU_H2OD Max time of ACF to 50 Mode: Image: Use mean ACF Use mean CCF Use separate CCFs Normalize CF (affects Apparent Frequency estimation also) Image: Q = CONS Apparent frequency Image: Q = CONS Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS Image: Image: Image: Compute apparent frequency Image: Q = CONS <	Trace Header Math AMP]/[AMP_N] bl([SNR2]<10 [FREQ]<30, 0, 1)





DECO

Attribute analysis on linked cross-plots





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

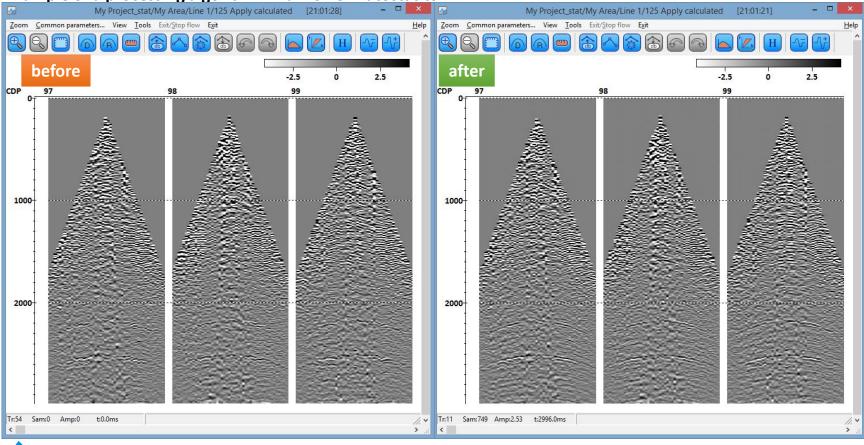
-Framed mode of flow execution. -Fast resorting of big data volumes. -Parallelization – up to 4 queues to run in parallel

Z	My Project_0809/My Area/Line 1/050	- bstack	- 🗆 🗙
Help Options Database Tools Run Flow me			
Trace Input <- line 1 - preproc			Geometry/Headers
NMO/NMI	Trace Header Math	Header<->Dataset Transfer	
***NMO/NMI	Header Averager	Header Output	
Amplitude Correction	Shift Header	Trace Header NMO/NMI	
Ensemble Stack	Near-Surface Geometry Input	Compute Line Length	
***Trace Output -> line 1 - stack2	Surface-Consistent Calibration*	Crooked Line 2D Binning*	
Screen Display			-Interactive Tools
	Screen Display	3D Gazer	
	Plotting*		
			—Signal Processing
	DC Removal	Hilbert Transform	
	ReSample	Amplitude Correction	
	Bandpass Filtering	Butterworth Filtering	
	Trace Math Transforms	Power of Trace	
			-Data Enhancement
	2D Spatial Filtering	Burst Noise Removal	
	Ensemble Equalization	F-K Filter	
	Spectral Shaping	Wave Field Subtraction	
	Radon Transforms	Radial Trace Transform	
	F-X Predictive Filtering	Spectral Whitening	
	TFD Noise Attenuation	TFD Noise Attenuation (Manual)	
	F-K Amplitude Power		
			——Trace Editing
	Trace Math	Trace Length	
	Trace Editing		
	Deconvolution	Predictive Deconvolution	
	Custom Impulse Trace Transforms	Surface-Consistent Deconvolution	
	Nonstationary predictive deconvolution	Surjuce-consistent beconvolution	
	Nonstationary predictive deconvolution		-Static Corrections
	Apply Statics	Calculate Statics	Static corrections
	Correlation Statics	Auto Statics*	
	conclution states	Auto Status	
	Interactive Velocity Analysis	Velocity Editor	,
	DB Velocity Interpolation	NMO/NMI	
	Time/Depth Conversion	Velocity Curve Editor*	
	Velocity Analysis Precompute	HVA*	
	HVA Semblance	Semblance Compute	
			Stacking/Ensembles
	Ensemble Stack		
			Migration
	T-K Migration	STOLT3D	
	Stolt F-K Migration	Kirchhoff Time Migration*	
			VSP
	3C Orientation	VSP Data Modeling	
	VSPNMO	Advanced VSP Display	
	VSP Geometry*	2D-3D VSP Migration	
	VSP SDC	2C Rotation	
	SSAA	Apparent Velocity Calculation	QC
MB1 - Drag module: Ctrl+MB1 - Copy module: MB1	, DblClick - Module Parameters; MB2 - Toggle module; (Ctrl+MB2 DblClick - Delete	1





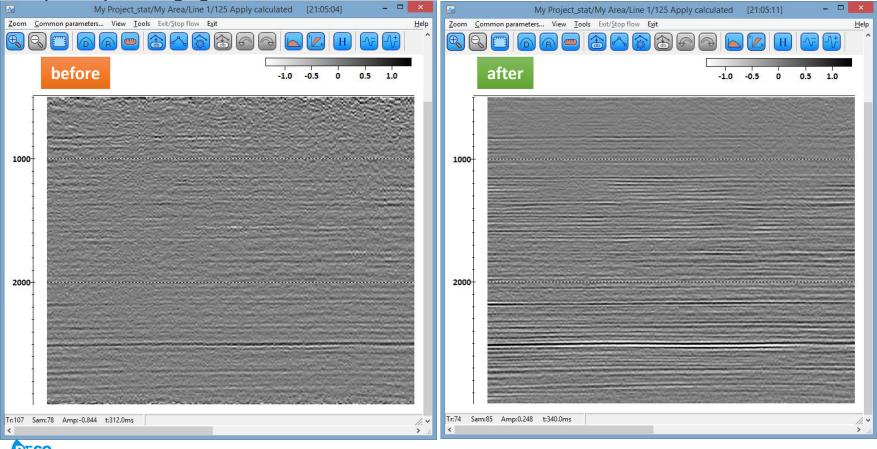
Example of a processing algorithm: MaxPower Autostatics







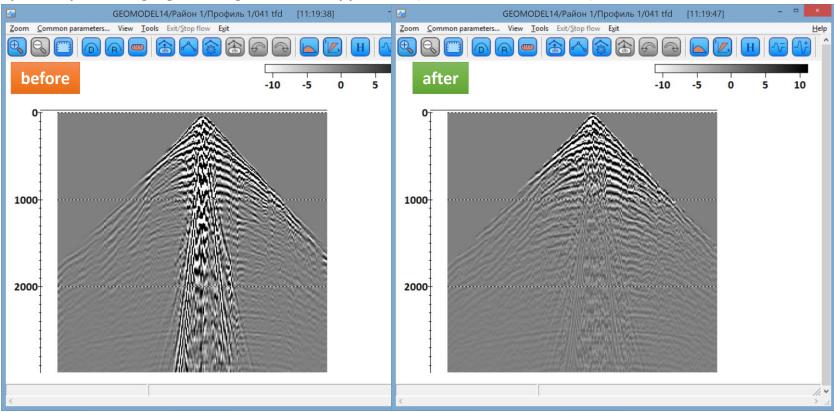
Example of a processing algorithm: MaxPower Autostatics







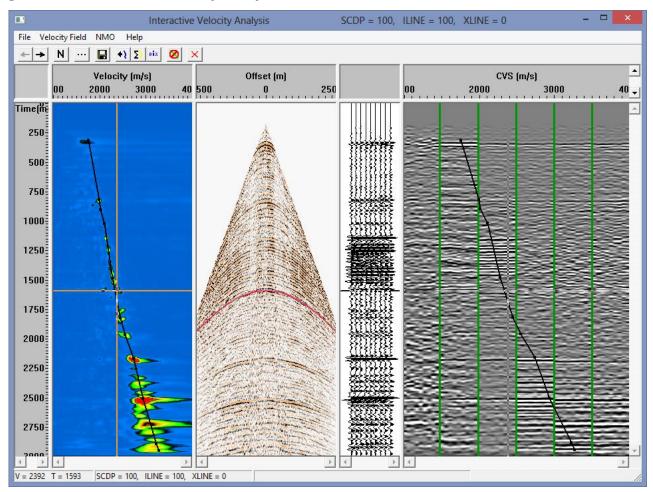
Example of a processing algorithm: ground-roll suppression (TFD Noise Attenuation)







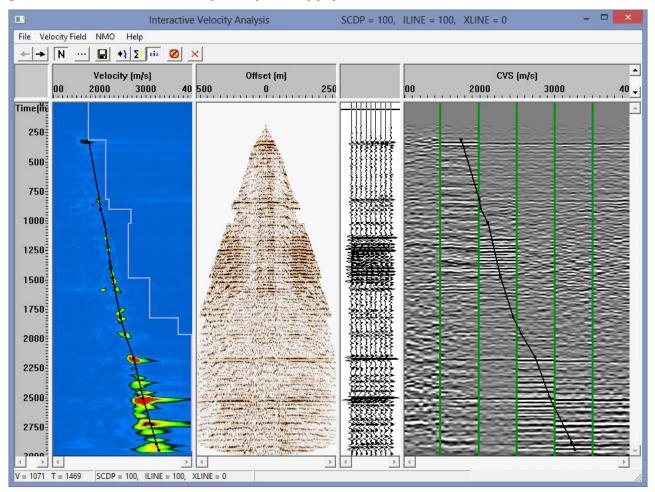
Example of a processing algorithm: interactive velocity analysis







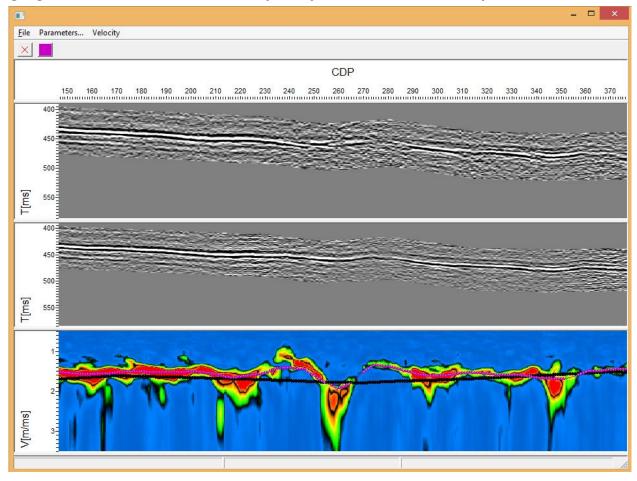
Example of a processing algorithm: interactive velocity analysis – apply NMO in the real time!







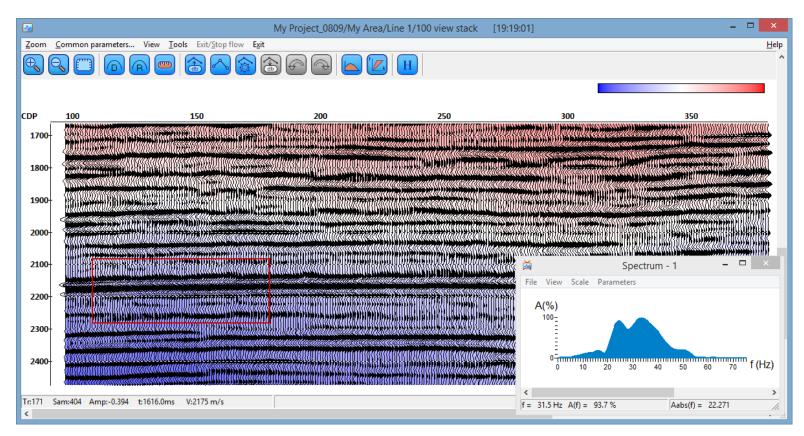
Example of a processing algorithm: horizon-based velocity analysis for detailed velocity information







Display of seismic brute stack on top of color-coded stacking velocity field







Deliverables: Export to SEG-Y – 100% adjustable and customizable!

	S	EG-Y Output		×	- Edit EBCDIC header				
	output.sgy		Brows	se	 Edit binary file header Optional remap of trace headers 				
	From batch list		output settings		- Optional remap of headers affected by				
Multiplied fields	Sample format	Byte order © Big-endian by	te order (SEG-Y standard	d)	coordinate and ele	vation	scalar	S	
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✓	Trace weighting								
	Allow negative weighting factor		ress out-of-range warning	gs					
EBCDIC header C 1 CLIENT COMPANY CREW NO C 2 LINE AREA MAP ID	Scalars Scalar for elevations and -1 depths		Coordinate units • Length in meters or fe	ets					
C 3 REEL NO DAY-START OF REEL YEAR OBSERVER C 4 INSTRUMENT: MFG MODEL SERIAL NO	Scalar for coordinates			27	Binary header e	ditor		- - ×	
C 5 DATA TRACES/RECORD AUXILIARY TRACES/RECORD CDF FC C 6 SAMPLE INTERVAL SAMPLES/TRACE BITS/IN BYTES/SAMP C 7 RECORDING FORMAT FORMAT THIS REEL MEASUREMENT S'	(+ = multiplier, - =	·	C Length in arc second	Offset	Description Job identification number	From header	Header list	Constant value ^	
C 8 SAMPLE CODE: FLOATING PT FIXED PT FIXED PT-GAIN CORRE C 9 GAIN TYPE: FIXED BINSRY FLOATING POINT OTHER	🔲 Remap header values			3205	Line number			✓ 0	
C10 FILTERS: ALIAS HZ NOTCH HZ BAND - HZ SLOPE - DB, C11 SOURCE: TYPE NUMBER/POINT POINT INTERVAL	RECN0,4I,,181/ SOURCE,4I,,185/ IL	INF NO 4L 189/ XL	INE NO 4L 1937		Reel number			✓ 0	
C12 PATTERN: LENGTH WIDTH C13 SWEEP: START HZ END HZ LENGTH MS CHANNEL NO TY	CDP X,4R,IBM,197/ CDP Y,4R,IBM		INC_10,40,1337		Number of data traces per ensemble			✓ 0	
C14 TAPER: START LENGTH MS END LE NGTH MS TYPE C15 SPREAD: OFFSET MAX DISTANCE GROUP INTERVAL					Number of auxiliary traces per ensemble Sample interval in microseconds (µs) (= 1000 × _)			✓ 0	
C16 GEOPHONES: PER GROUP SPACING FREQUENCY MFG I C17 PATTERN: LENGTH WIDTH	, , , , , , , , , , , , , , , , , , , ,				Sample interval in microseconds (µs) of original field recording (=		u.	V 0	
<	Load remap		Save remap		Number of samples per data trace	•	NUMSMP	✓ 0	
OK Load from EBCDIC text file Lo	SegY headers			3223	Number of samples per data trace for original field recording			✓ 0	
	▼ Fill EBDIC header Display E	BDIC	Edit binary header		Data sample format code1 = 4-byte IBM floating-point2 = 4-byte inte			✓ Auto	
					Ensemble fold - The expected number of data traces per trace ens			✓ 0	
	ОК	Саг	ncel		Trace sorting code (i.e. type of ensemble) Vertical sum code			 ✓ 0 ✓ 0 	
					OK		1		

Any sample format and byte order

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Deliverables: print with preview!

	<u>File</u> View	
Plotting parameters	X & @	_
Plotting parameters	CDP 1100 1200 1300 1400 1500 1500 1500 1900 2000 2100	2200
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Normalizing Scales		
C None T Scale 12 ms/cm General Layout		
© Entire set		>
C Individual X Scale 60 traces/cm		
Microsoft XPS Document Writer	Print setup Print processing results with a preview to any Windows-printer	
OK Cancel		

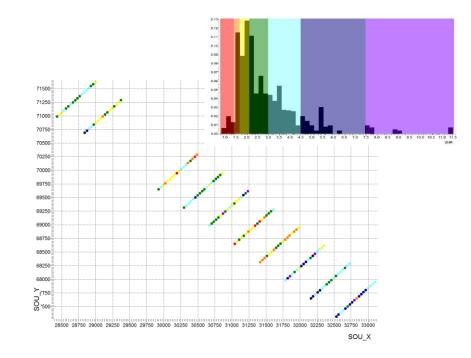




Deliverables: attributes and coordinates

				ExportHeaders.txt	— Блокнот			
айл	<u>П</u> равка Фор <u>м</u> ат	<u>В</u> ид <u>С</u> правка						
	FFID	AMP	AMP_N	FREQ	FREQ_N	SNR	SOU_X	SOU
	1	0.40780	0.00404	17.18436	11.40157	2.31017	-12.50000	2713.5454
	2	0.45047	0.00295	16.19009	12.38495	2.42503	38.53920	2713.6923
	3	0.44036	0.00525	15.81659	10.66598	2.58533	88.54920	2713.8000
	4	0.28959	0.00412	15.41971	13.12504	2.22132	137.54919	2713.8823
	5	0.40477	0.00364	16.54680	13.00957	1.56203	187.54919	2713.8947
	6	0.32324	0.00363	16.29476	13.28199	1.70511	237.54919	2713.9047
	7	0.46186	0.00738	13.71095	12.34985	1.42773	288.54919	2713.9130
	9	0.55527	0.00373	14.74238	13.92968	1.65314	387.55942	2713.9260
	10	0.84220	0.00342	15.36733	13.20636	2.23475	437.56940	2713.9311
	11	0.76150	0.00393	14.98869	15.32059	2.10012	487.57941	2713.9033
	12	0.56859	0.00350	14.54371	12.96010	1.54241	537.57941	2713.8789
	13	0.55225	0.00353	13.72338	12.14873	1.88807	587.58942	2713.8427
	14	0.58447	0.00333	14.96383	15.10681	1.30344	637.58942	2713.7973
	15	0.54245	0.00456	15.42029	12.48737	0.90051	687.59943	2713.756
	16	0.60316	0.00461	14.45383	14.02443	0.85021	737.59943	2713.7194
	17	0.77343	0.00477	12.95721	14.73612	0.75991	787.60938	2713.6860
	19	0.67094	0.00741	11.78627	15.67359	0.65103	885.71307	2713.6270
	20	0.66868	0.00926	11.84008	13.50540	0.61142	934.71307	2713.581
	21	0.64874	0.01031	11.31537	17.56605	0.54757	985.72284	2713.5588
	22	0.54006	0.00712	11.52600	14.56207	0.74262	1037.73242	2713.5378
	23	0.48283	0.00959	11.61851	14.46981	0.55119	1088.82068	2713.5180
	24	0.60930	0.01046	15.49097	15.78631	0.49083	1163.84729	2713.4914
	25	0.47919	0.01058	16.09502	17.82988	0.49014	1188.92712	2713.483
	26	0.57723	0.01284	15.43734	15.38037	0.65329	1237.96802	2713.4830
	27	0.79876	0.01247	15.55790	14.89894	0.53239	1313.97449	2713.484
	28	0.66504	0.00927	15.58137	17.72635	0.49675	1338.97449	2713.4846
	30	0.71848	0.01529	15.58392	15.97586	0.75715	1438.22485	2713.5144
	31	0.50405	0.01688	14.95415	11.69521	0.71301	1488.23486	2713.528
	32	0.54298	0.00769	15.56439	18.62620	1.23585	1539.23486	2713.534
	33	0.43817	0.01059	15.82579	19.76657	1.82030	1588.23486	2713.5334
	34	0.40370	0.01258	16.72662	17.70386	1.86233	1637.27563	2713.5324
	35	0.46802	0.00826	18.70637	15.29631	2.26211	1689.28528	2713.531
	36	0.36120	0.01061	17.30173	15.71662	1.96963	1739.28528	2713.537
	37	0.23180	0.00889	19.60849	16.21332	1.89694	1789.28528	2713.536
	38	0.44917	0.01035	18.32579	13.27274	2.06608	1836.29590	2713.5234
	39	0.53951	0.01172	15.82292	11.25987	0.97701	1888.30554	2713.5173
	40	0.34360	0.00577	16.54863	13.33638	0.61791	1940.30554	2713.5224
	41	0.26758	0.00426	17.08064	15.23038	0.88790	1990.34546	2713.5219
	42	0.27155	0.00500	16.06999	14.55667	0.81715	2043.35498	2713.5214
	43	0.44234	0.00806	16.08420	13.82697	0.62161	2088.35498	2713.5210

- Print and export images of cross-plots/histograms
- Export to ASCII







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.





The Software Offers:

- Input of field or post-stack data from standard or modified formats.
- Data resorting
- Vibroseis correlation
- Data display and interactive analysis
- Visual and quantitative data QC
- Geometry assignment and QC
- Attribute analysis in windows (pre-stack) or along horizons (post-stack)
- Fast-track processing/post-processing of seismic data
- Export seismic data to SEG-Y and making hard copies, export and hardcopying of maps, export attributes and any header information to ASCII
- Open architecture and API for developers

At that, highly price-efficient:

- ✓ Runs smoothly on just average modern PCs
- ✓ No system administration required
- ✓ Operator shall possess entry level computer skills only

