

(Holiday Edition) release notes

We wish you and your families and friends great winter holidays and most happy and fulfilling New Year!

Today we are most exited to announce the last RadExPro release of the year 2013 – the RadExPro 2013.4 (Holiday Edition).

This time the main upgrades are as following:

• Now you can easily process a number of files/datasets in one flow and output them individually – a new mode of flow execution, the *batch mode*, has been implemented.

In the batch mode, an input module takes input files/datasets from the *batch list* one by one and pass each of them sequentially through one and the same flow. At the output, an output routine saves the processing result for each input file/dataset separately.

For the moment, the following i/o and stand-alone modules support the batch mode:

o Input:

Files: SEG-Y Input, SEG-D Input, SEG-2 Input Datasets: Trace Input

• Output:

Files: SEG-Y Output Datasets: Trace Output

• Stand-alone:

Marine Geometry Input

NOTE: To run a flow in the batch mode, you need to (1) in the Flow Mode dialog set the I/O mode to Batch, (2) click the Edit batch button to populate the batch list with files or datasets, and (3) **set each of the i/o routines in the flow to take its file/dataset name from the 'batch list'** rather than from its own parameters.

SEG-Y Input					
File(s) DATA\line5raw.sgy Add Delete Load list Save ✓ From batch list			SEG-Y standard) ET n ^{*.*}		
	К	Cancel			
Trace Out	put		×		
File raw ; White Sea\line 5\raw ✓ From batch list Batch output set OK Cancel					

For big input datasets, the batch mode can be combined with the framed mode. To ensure that you do not get lost, we have added flow mode indicators signaling the currently selected modes at the bottom left of the flow editor window:

Help Options Database Tools Run	Flow mode Exit		
			Data I/O
EG-Y Input <- [from batch list]	Trace Input	Trace Output	,-
andpass Filtering	SEG-Y Input	SEG-Y Output	
race Output -> [from batch list]	SEG-D Input	RAMAC/GPR	
ace output -> [noin batch list]	SEG-B Input	логис	
	SEG-2 Input	GSSI Input	
	SCS-3 Input	Super Gather	
	Load Text Trace	Text Output	
	Data Input	Data Output	
			Geometry/Headers
	Trace Header Math	Header<->Dataset Transfer	
	Header Averager	Header Output	
	Shift Header	Trace Header NMO/NMI	
	Near-Surface Geometry Input	Compute Line Length	
	Surface-Consistent Calibration*	Crooked Line 2D Binning*	
Framed mode			-Interactive Tools
Batch mode	Screen Disnlay	3D Gazer	

• We have added amplitude labeling to the palette bar of the **Screen Display** module. The amplitudes are now labeled for any variable density display except when the Normalizing factor is set to Individual (i.e. each trace is scaled and color-coded separately).



• In the improved **Marine Geometry Input** module, we have changed the way in which 'dummy geometry' (when positioning is calculated along the line based on the system geometry only) parameters are set. The previous way was considered by many users as pretty confusing, so we are happy to say that we have addressed the issue and added a dedicated interactive scheme

Marine geometry input parameters				
Ship navigation Source/streamer g	eometry			
GPS	Source Source	STREAMER	16 Positive Y	
Streamer shape	Receiver geometry		- Source geometry-	
C Straight line	First receiver dx (m)	0	Source dx (m)	
Follow ship track	First receiver dy (m)	6	Source dy (m)	
Heading calculation	Number of receivers	16	CDP Binning	
Choose base 1	Distance between receivers (m)	2	Bin size (m) 1	
			OK Cano	xel

for the 'dummy geometry' mode to make it fully intuitive:

In the 'Real ship coordinates' mode, the module can now identify the appropriate hemisphere not only from the coordinate sign, as before, but also from literal specification (N/S and E/W):

1				Edit navigation layout
Definition of Field Mathching_field Ship GPS [LAT - Degree] Ship GPS [LAT - Min] Ship GPS [LAT - Sec] N/S?	Column 1 4 5 6 -1	Columns © Delimited © Fixed width	Lines From 2 To 0	Coordinate system Coordinate system Con / Lat UTM Zone number CUTM_X / UTM_Y
Ship GPS [LON - Degree] Ship GPS [LON - Min]	7 8		Notes The value of switched off fi	eld wil be padded by zero.
Ship GPS [LON - Sec] E/W?	9 -1	Field switch off		
		Set column		
(1, 1) Selection: -				

• When using AGC option of the **Amplitude Correction** module, now you can save applied AGC coeficients to a separate dataset. Then these coefficients can be analised, or removed from the data by a dedicated new **AGC Removal** module. This makes it possible to perform some processing that requires uniform amplitudes after the AGC is applied, and then, when finished, remove the AGC from the processing result to restore the original amplitude levels.

- Tapering between processing windows was added to the **Zero-Offset Demultiple** module, to make multi-window processing results smoother and eliminate artifacts at the window edges.
- A bug in the **2D Spatial Filtering** module that made it crashing when the Alpha-Trimmed Mean Filter was run in the subtration mode has been fixed.
- An issue preventing **TFD Noise Attenuation** from operation on stack data unless the whole stack was artificially marked as one ensemble was fixed.
- And, in the end, some snowflakes were added to the project main screen:



As usual, we encourage our customers with active maintenance to contact us at support@radexpro.ru and receive the update for free.

Please, note that on 31 December – 8 January our office will be closed for the Russian New Year and Orthodox Christmas holiday.