

(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\lineSraw.sgy Add Delete Load list Save	Sample format Sample interval 0.05 Image: Sample format Number of traces 0 Image: Image: Sample interval Image: Sample interval 0.05 Image: Image: Sample interval Image: Sample interval 0.05 Image: Image: Sample interval Image: Sample interval 0 Image: Image: Sample interval Image: Sample interval 0 Image: Image: Image: Sample interval Image: Sample interval 0 Image: Image: Image: Sample interval Image: Sample interval 0 Image: Image: Image: Sample interval Image: Sample interval 0 Image: Image: Image: Sample interval Image: Sample interval 0 Image:
Trace Out	put 🔀
File raw ; White Sea\line 5\raw ✓ From batch list Batch output set OK Cancel	tings

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:

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<u>H</u> elp	<u>Options</u>	<u>D</u> atabase	Tools	Run	Flow mode	Exit						
SEG-Y	Innut <-	[from bat	ch list]								-Data I/C) ^
Band	hass Filter	ring	cit tiot]		Trace Input	t			Trace Output			
Ampl	itude Cor	rection			SEG-Y Inpu	t			SEG-Y Output			
Trace	Output ->	> [from ba	tch listi		SEG-D Inpu	t			RAMAC/GPR			
	output	[SEG-B Inpu	t			ЛОГИС			
					SEG-2 Inpu	SEG-2 Input			GSSI Input			
			SCS-3 Input	SCS-3 Input			Super Gather					
					Load Text Trace		Text Output					
					Data Input				Data Output			
										-Geometry	/Headers	5
			Trace Header Math				Header<->Dataset Transfer	•				
			Header Averager				Header Output					
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		Near-Surfa	Near-Surface Geometry Input			Compute Line Length						
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Bat	nicu MOO ch mode	ie –								Interac	tive Tools	5
					Screen Disr	lav			3D Gazer			_
MB1 - Drag module; Ctrl+MB1 - Copy module; MB1 DblClick - Module Parameters; MB2 - Toggle module; Ctrl+MB2 DblClick - Delete // 🗸												

• 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.
E/W?	-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.