

Seismic Volume SEGY Loader

User Manual

IPLAB

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Start:

Import->

SEGY Loader

Or:

File->

Import->

SEGY

The loader working use 3 steps:

1st Step. After selection SEG Y file the loader reading 100 first , middle and last traces using standard bytes position for main parameters in binary header and in trace header (Inline, Xline, X, Y). The results will show in Loading parameters (Binary header and Trace Header), Text Header, TraceHeaderI4 table, TraceHeaderI2 table, Statistic,. According this statistics user can change parameters for byte position in Binary Header and Traces Header tabs and Refresh reading the first , middle and last traces. Parameters for Start, End and Step parameters for Inline, Xline and Slice will also refreshed. If any parameter problem other steps will not be available.

2nd Step. Scan all traces. During this step all traces will be readed and traces array created with X,Y, Inline, XLine and trace position index in SEG Y file. Only after this step the 3rd step will be available.

3rd Step. Load the cube. During this step seismic cube node in project tree will be created according cropping information.

SEG Y Loading ver 20/10/16

Open SEG Y

Parameters **Text Head** Traces Inline_Xline_X_Y TraceHeaders_I4 TraceHeaders_I2 St

Binary Header parameters

Samples in trace	21	301
Sample Interval	17	4000
Sample Type	25	5

Trace Header parameters

Inline	5	X	73
Xline	21	Y	77

Number Traces

Step1: Refresh statistics for first, mids and last

Step2: Scan all Trace Heades

	Start	End	Step	Time/Z shift
Inline	3335	3580	1	0
Xline	2132	2634	1	XY coef 1
Sample	0	301	1	X shift 0
				Y shift 0

Step3: Load with cropping

Figure 1: SEG Y Loader dialog 1st tab with loading parameters

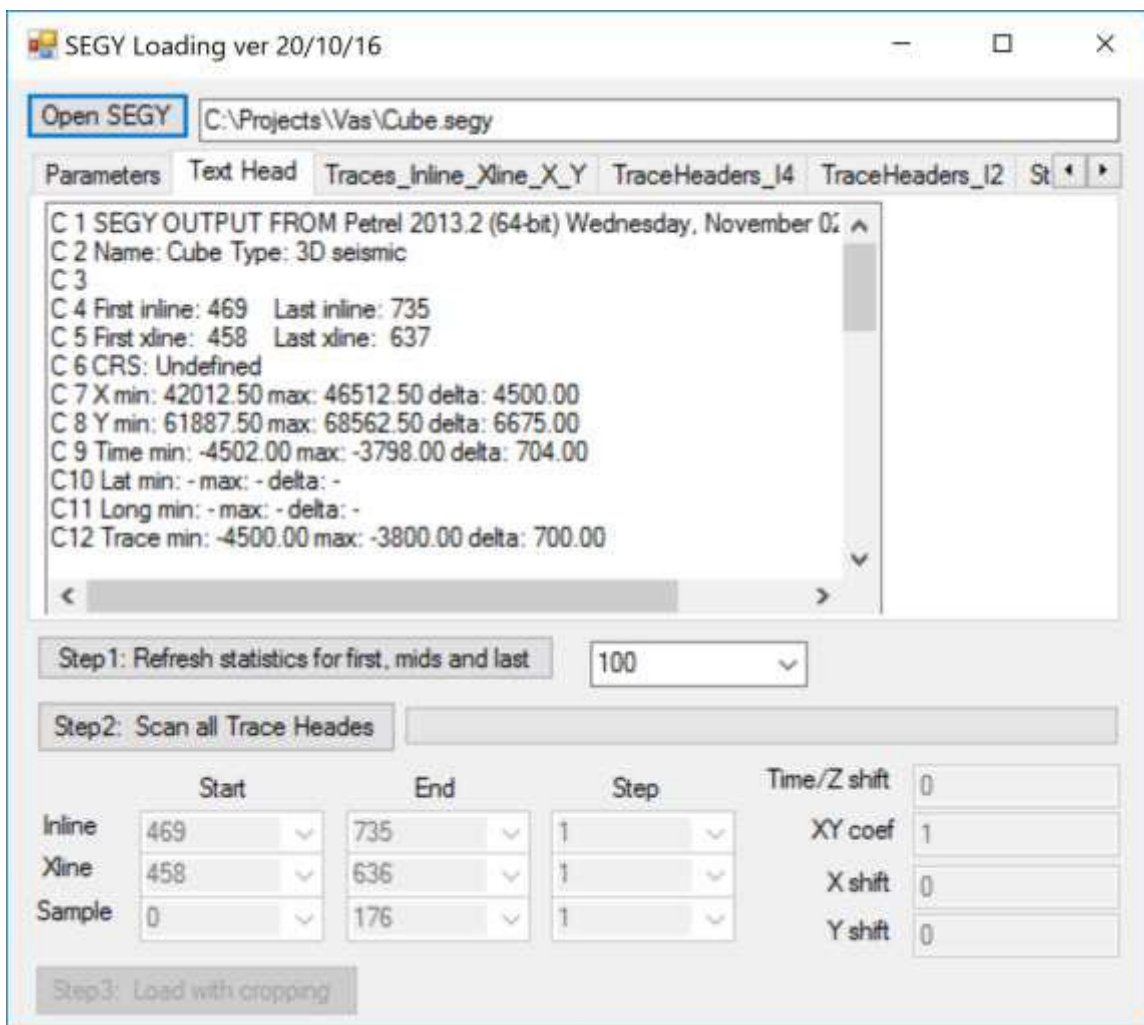


Figure 2: SEGY Loader dialog 2nd tab with EBCDIC header

SEG Y Loading ver 20/10/16

Open SEG Y

Parameters Text Head **Traces Inline Xline X Y** TraceHeaders_I4 TraceHeaders_I2 St

	Trace	Inline	Xline	X	Y
▶	0	469	458	42025	61900
	1	469	459	42050	61900
	2	469	460	42075	61900
	3	469	461	42100	61900
	4	469	462	42125	61900
	5	469	463	42150	61900
	6	469	464	42175	61900
	7	469	465	42200	61900

Step1: Refresh statistics for first, mids and last

Step2: Scan all Trace Heades

	Start	End	Step	Time/Z shift
Inline	469	735	1	0
Xline	458	636	1	XY coef 1
Sample	0	176	1	X shift 0
				Y shift 0

Step3: Load with cropping

Figure 3: SEG Y Loader dialog 3rd tab with Trace header information (3Trace, Inline, Xline, X, Y) for first, mid and last 100 traces.

SEG Y Loading ver 20/10/16

Open SEG Y

Parameters Text Head Traces Inline_Xline_X_Y TraceHeaders_I4 TraceHeaders_I2 St

	Row#	1-4	5-8	9-12	13-16	17-20	21-24	25-28
▶	0	1	469	469	1	0	458	1
	1	2	469	469	2	0	459	1
	2	3	469	469	3	0	460	1
	3	4	469	469	4	0	461	1
	4	5	469	469	5	0	462	1
	5	6	469	469	6	0	463	1
	6	7	469	469	7	0	464	1

Step1: Refresh statistics for first, mids and last

Step2: Scan all Trace Headers

	Start	End	Step	Time/Z shift
Inline	469	735	1	0
Xline	458	636	1	XY coef 1
Sample	0	176	1	X shift 0
				Y shift 0

Step3: Load with cropping

Figure 4: SEG Y Loader dialog 4th tab with Trace header information in I4 format (4 bytes integer) for first, mid and last 100 traces.

SEG Y Loading ver 20/10/16

Open SEG Y

Parameters Text Head Traces Inline_Xline_X_Y TraceHeaders_I4 TraceHeaders_I2 St

Row#	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15
0	0	1	0	469	0	469	0	1
1	0	2	0	469	0	469	0	2
2	0	3	0	469	0	469	0	3
3	0	4	0	469	0	469	0	4
4	0	5	0	469	0	469	0	5
5	0	6	0	469	0	469	0	6
6	0	7	0	469	0	469	0	7

Step1: Refresh statistics for first, mids and last

Step2: Scan all Trace Heades

	Start	End	Step	Time/Z shift	XY coef	X shift	Y shift
Inline	469	735	1	0	1	0	0
Xline	458	636	1				
Sample	0	176	1				

Step3: Load with cropping

Figure 5: SEG Y Loader dialog 5th tab with Trace header information in I2 format (2 bytes integer) for first, mid and last 100 traces.

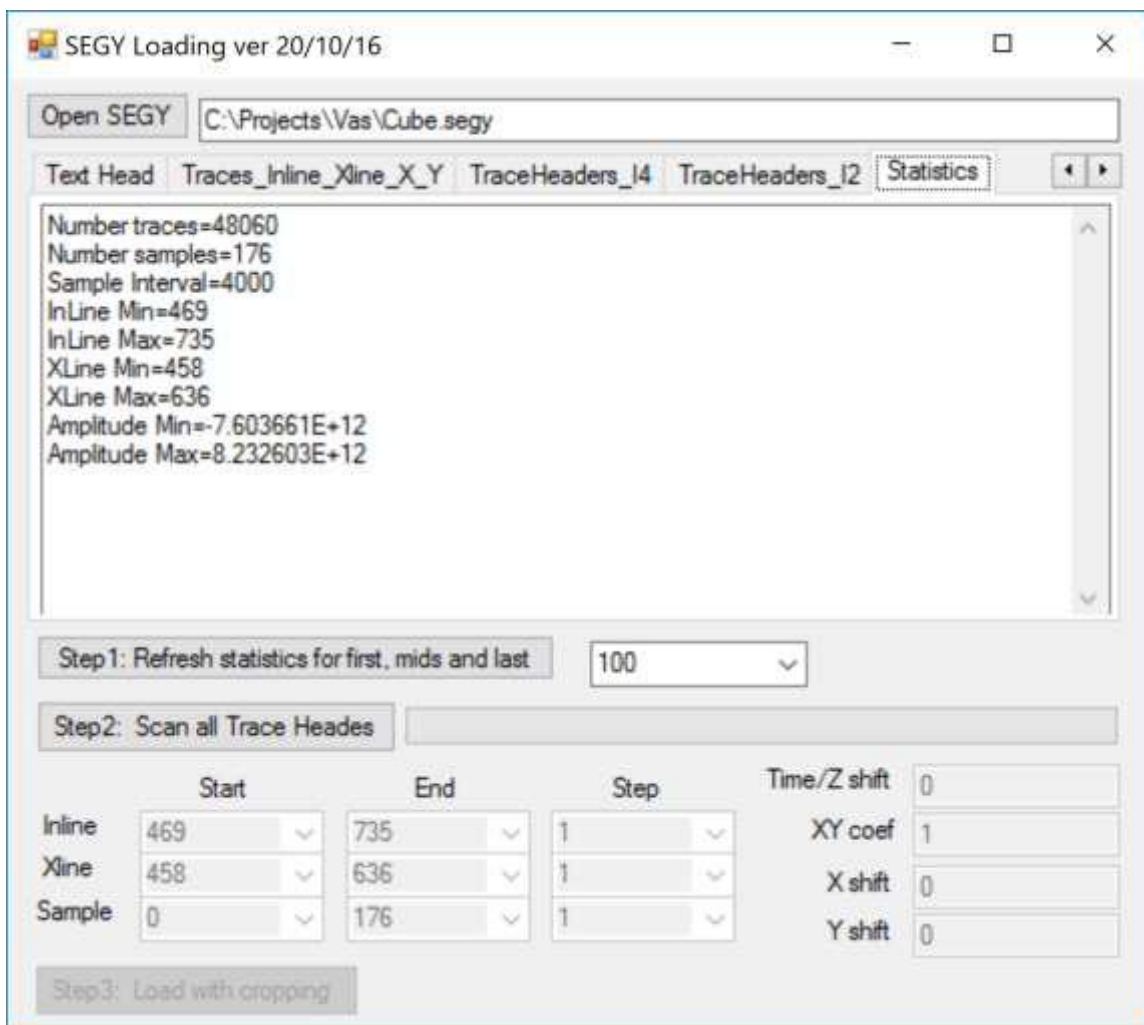


Figure 6: SEGY Loader dialog 6th tab with statistics.

SEG Y Loading ver 20/10/16

Open SEG Y

Parameters **Text Head** Traces Inline_Xline_X_Y TraceHeaders_I4 TraceHeaders_I2 St

Binary Header parameters

Samples in trace	21	301
Sample Interval	17	4000
Sample Type	25	5

Trace Header parameters

Inline	5	X	73
Xline	21	Y	77

Number Traces

Step1: Refresh statistics for first, mids and last

Step2: Scan all Trace Heades

	Start	End	Step	Time/Z shift	XY coef	X shift	Y shift
Inline	3335	3580	1	0	1	0	0
Xline	2132	2634	1				
Sample	0	301	1				

Step3: Load with cropping

Figure 7: SEG Y Loader dialog 1st tab after Scan all traces. After this step Load with cropping is available.