# Seismic Loader 4.4



# **Operational scenario: processing and loading the ukoaa file**



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## Introduction

Seismic Loader application is designed to work with seismic, navigation and topographic data.

This document is auxiliary and clearly shows the main stages of working with a *ukoaa* file:

- 1. Adding a file
- 2. Marking input material
- 3. View processed material
- 4. Geometry quality check
- 5. Loading data into the database



# Adding a file

Add the document you are going to work with to the "Document" tab using the 🕇 button.

Set an appropriate geometry type. To process profiles, the example uses the "polyline" geometry type.

Document Loading data Coordinates			
+ - 0			
Path 🔻	Format	Size	Geometry type
/mp/PV_DEMO_DATA/STORAGE/SEISMIC/3D/PROC/3D_MARJASOVSKOE_2008/DATA/3D_MARJASOVSKOE_2008	SEGY	648.47 Mb	polygon
/home/esolovyova/Documents/seg-y_rev/Murinskoe.uko	UKOOA	72.01 Kb	polyline
/home/esolovyova/Documents/seg-y_rev/3D_SEVERNOE_2009_SEGY_rev1_tapelabel.sgy	SEGY	10.94 Mb	
/home/esolovyova/Documents/seg-y_rev/2d_ZUGUT-1segy	SEGY	981.57 Kb	

# Conversion

Go to the "Coordinates" tab. In the data window you will see the material read.

Murinskoe.uko		
[		
H0100 SURVEY AREA	AOLU_A00083AS	
H0101 GENERAL SURVEY DETAIL		
H0200 DATE OF SURVEY	19860101 -	
H0202 TAPE VERSION	UKOOA P1/9	
H0203 LINE PREFIX		
H0300 CLIENT	TEXACO INC. 376450	
H0400 GEOPHYSICAL CONTRACTOR		
H0700 XY CONTROL		
H0800 COORDINATE LOCATION	S SOURCE_CENTER	
H1400 GEOD DATUM SURVEYED CAT	Camacupa TexRGSML 6378249.145 .0034076	
H1401 PARAM FOR H1400 TO WGS84	-40 -354 -224 0 0 0 1	
H1500 GEOD DATUM PROCESSED CAT	Camacupa TexRGSML 6378249.145 .0034076	<b></b>
Current page: 1 [1 - 100]	*	< > »

The data needs to be marked up. To do this, go to the Coordinate positions tab and set the required coordinate positions.



Murinskoe.uko		
51286-114	211062228.7050122211.50E 209023.29294704.4	▲
ST286-114	212062229.10S0122210.70E 208998.79294692.0	
ST286-114	213062229.50S0122210.00E 208977.29294679.6	
ST286-114	214062229.90S0122209.30E 208955.89294667.2	
ST286-114	215062230.3050122208.60E 208934.39294654.8	
ST286-114	216062230.70S0122207.90E 208912.89294642.3	
ST286-114	217062231.10S0122207.20E 208891.49294629.9	
ST286-114	218062231.50S0122206.50E 208869.99294617.5	
ST286-114	219062231.90S0122205.80E 208848.49294605.1	
ST286-114	220062232.30S0122205.10E 208827.09294592.7	
ST286-114	221062232.70S0122204.40E 208805.59294580.3	
ST286-114	222062233.10S0122203.70E 208784.19294567.9	
, Current page: 1 [1 - 100]		« < > »

In the example they are (Name: position - length):

- Name: 2 8
- Point ID: 22 3
- X: 47 8
- Y: 55 9

Coordinates positions ×		E
		Coordinate 1
Convert coordinates	Coordinate columns number 1	
Positioned	Delimiter TAB	pos length pos length
O Positioned 3d		Name 2 × 8 × 47 × 8 ×
<ul> <li>Delimited</li> </ul>		Point Id 22 + 3 + Y 55 + 9 +
precision Y 0		Part 0 + 0 +

Then in the "Projection" tab select the appropriate coordinate system and datum shift from the drop-down lists.

Projection		-
CS name	Camacupa / UTM zone 33S	▼
22033→4326	Camacupa to WGS 84 (2) (EPSG OP 1319)	-



Then click on the button - the data will appear in the "Objects" tab.

Objects									
🜪 🐛 polyline									
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l	— 📄 Data								
9- L	T286-116								
	— 📄 Data								
<b>♀</b> .	T286-118								
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Then you can interact with the processed material.

### View

In order to open the map module you only need to click on button. You will see a window for changing the parameters of database objects. Leave the default settings and click apply.

$\circ$ change parameters of database objects/zones $ imes$								
	N2	Range size: 6,000 📩 km						
Layers settings								
	Layer Map title							
	countries	Страны						
Create support Point layer								
Apply								

After loading, you will see the map module:

<sup>©</sup> Geoleader

#### Seismic Loader 4.4 Operational scenario: processing and loading the ukoaa file



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👁 ✔ 路 💾 🌂 🙀 New lines '			Д
	T286-J	15	
<ul> <li>×</li> <li>×</li> <li>×</li> </ul>			2.9 km
O No cursor CS projection : Cam	acupa / UTM zone 33S Datum Shift : Can	acupa to WGS 84 (2) (EPSG OP 1319)	

# Geometry quality check

In the "Map" module click on the witton. You will see a geometry check window. For the first check the default parameters are used.

If you change any of the parameters, you must update the table again using the  $\bigcirc$  button .



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0	Geometry check v	vindow		$\odot$ $\otimes$ $\otimes$
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CRS eps (CRS units):	10 CRS: check every	1	th point	
	<b>i</b> No error	rs found		

No errors were found in the data from the example, so it can be uploaded to the Databank.



# Loading data

Return to the main window of the program and go to the "Loading data" tab.



In the lower right corner, the path to the scheme file and the default dataset are indicated. Let's use them. To do this, click on the button. Objects, their geometry and the number of points will appear in the data table.



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🚰 🤈 T286-1	116	341	22033,-10	5					
8 7 1286-1	118	339	22033,-10	b					
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Then click on the  $\checkmark$  button to check the quality of the data. In the example, the data is correct.



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	Data set: Polygon geometry	
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You can load the data to the database. To do this, click on the solution and wait for the loading to finish.



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SystemLog Wind	low ×											-
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Data loaded successfully.