



4 Survey

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4.3 Import

本节操作就是：导入之前保存的各种数据，包括：**seg-y**地震数据、断层、层位、点集、多边形等。



4.3 Import

PetrelDirect插件需要购买许可证。
与Landmarks' Seiswork和Geoframe IESX交互
需要购买ARK CLS插件。

Survey >

- Attribute Set ▶
- Color Table ... ▶
- Cross-plot Data ▶
- Faults ▶
- FaultStickSets ▶
- FaultSet ▶
- Horizons ▶
- Mute Functions ▶
- Navigation Data / 2D Geometry ▶
- PointSets/Polygons ▶
- Probability Density Functions ▶
- Seismic Data ▶
- Velocity Functions ▶
- Wavelets ▶
- Wells ▶



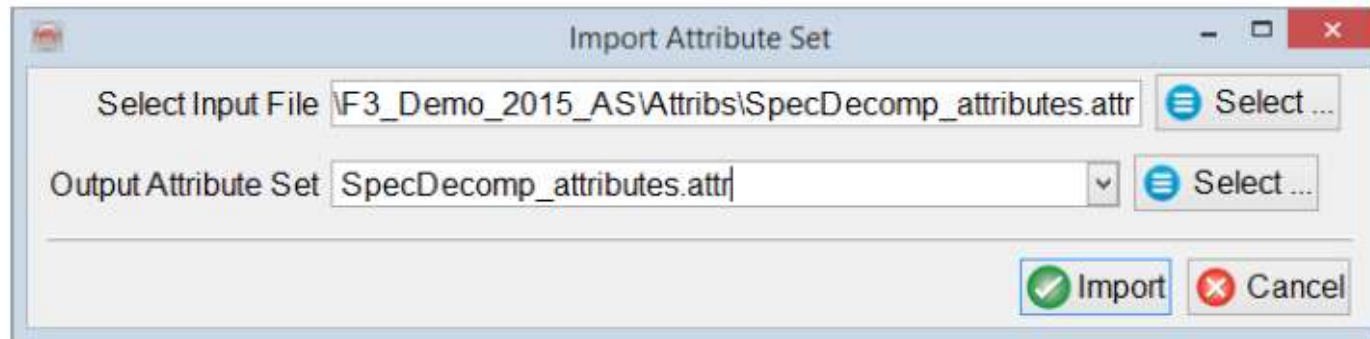
4.3.1 Import Attributes

An OpendText attribute set can be imported via *Survey > Import > Attribute > ASCII...*

An OpendText attribute set file contains a set of attribute definitions created in the Attribute Set window. OpendText attribute sets are stored in *../Survey Data Root folder'/Attribs/* and have *' .attr'* extensions.

In the *Import Attribute Set* window: locate an OpendText attribute set, and provide an *Output Attribute Set* name to be used in the current project.

.attr后缀



The imported attribute set can then be opened within the Attribute Set window. 在Attribute Set窗口中打开

More options for importing attribute sets are available in the Attribute Set window itself.



Attribute Set窗口

Attribute Set 3D

File

Attribute set Evaluate attributes

Q factor
Energy
Laplace (edge)
Velocity fan
Math difference stack
Amplitude variance
Amplitude average
Edge Preserving filter (TLE)
Frequency
Similarity
Cube similarity
Prewitt (gradient)
Laplace on similarity
Hilbert trace
Phase rotation of angle c0 (
Single pole low-pass digital
Single pole high-pass digital
Frequency average
Sweetness

<All> Frequency ?

Input Data Seismic Select ...

Time gate (ms) -28 28

Normalize ☐ Yes ☒ No

Window/Taper CosTaper View

Taper length% 5

Smooth Spectrum ☐ Yes ☒ No

Output Absorption Quality Factor

Attribute Name Q factor Add as new

☒ Save on Close ☒ Close ?

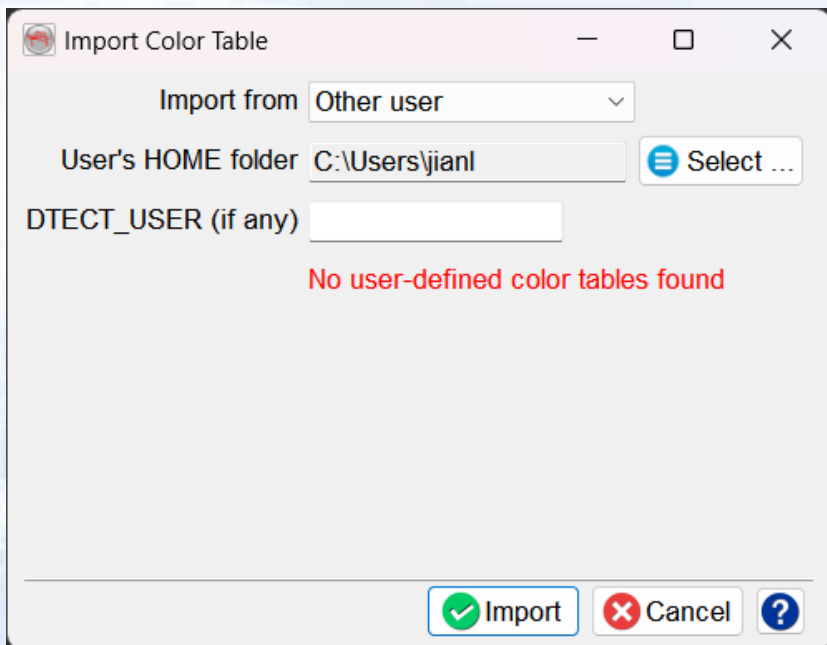


4.3.2 Import Color Table

An OpendText color table can be imported via *Survey > Import > Color Table...* or *Manage Color Tables* window > *Import* button.

There are two ways to import a color table:

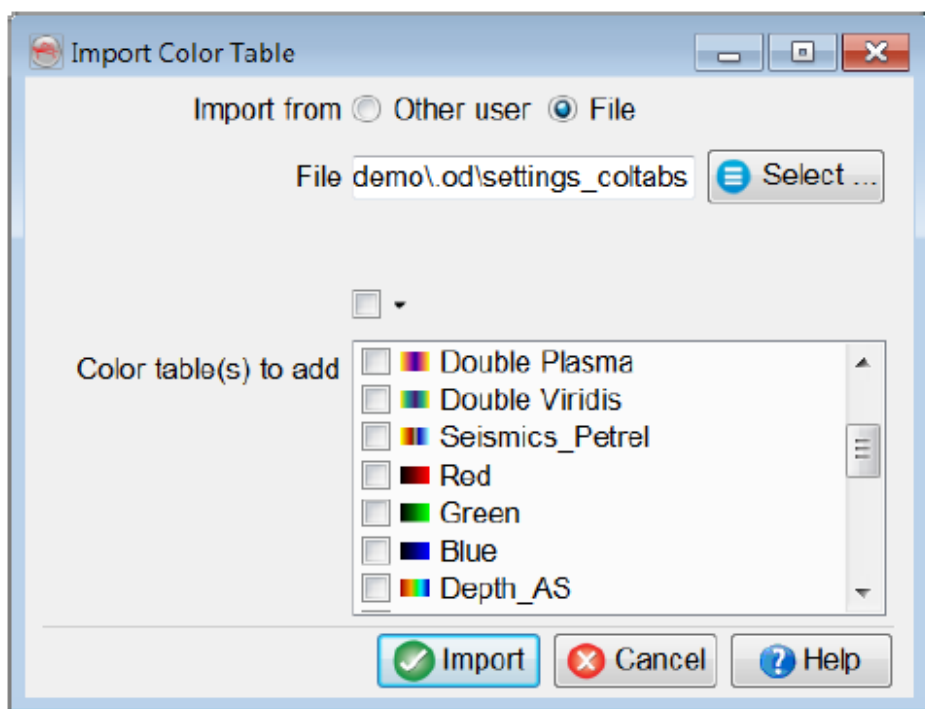
- *Other user* option is used when it's possible to browse to the other user's home directory. Navigate to the folder and type in DTECT_USER name (if any).



找到颜色表格文件



- Choose the *File* option if other users' home directories are not accessible. The color tables created by OpendText users are stored in a settings_coltabs.DTECT_USER file (DTECT_USER = OpendText username) that is located in the user's home directory \$HOME/.od/.



The default OpendText color tables are stored in a ColTabs file that is located in the OpendText installation directory e.g. /home/your-username/OpendText/6.6.0/data/ or C:\Program Files\OpendText\6.6.0\data\.





4.3.3 Import Cross-Plot Data

选择输入的ASCII文件。点击Examine按钮显示输入文件。输入文件将按列排序，每行一个点。

The main work is to specify the presence of a *file header* and the *file format definition*. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword.



Predefined and saved file formats are available by pressing the  icon. Otherwise the format must be manually specified. The *Define* button gives access to the format definition window.

 Format Definition — □ ×

Specify Necessary Information

XY ▼

[Position]

col:0 ▲▼

col:0 ▲▼


[Z]

col:0 ▲▼

Unit


ms (Millisecon ▼)

☐ Stop reading at

 ✓ OK ✗ Cancel ? Help



You must specify in the format definition window the column numbers for the position, in terms of an X-Y-Z or an inline-crossline-Z. The Z units can be seconds, milliseconds or microseconds (meters or feet in depth surveys). All other columns will be treated as amplitude data referenced with respect to the given position. The first row may contain either the first vector with its position and the corresponding amplitudes ("Data"), or the name of the attributes in each column ("Column names"). Reading may be stopped at a specific line by providing the adequate keyword.

It is recommended to save the format definition for a later use and QC, by clicking on the  icon. In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current OpendTect user level) depending on the usage. Press OK when done.

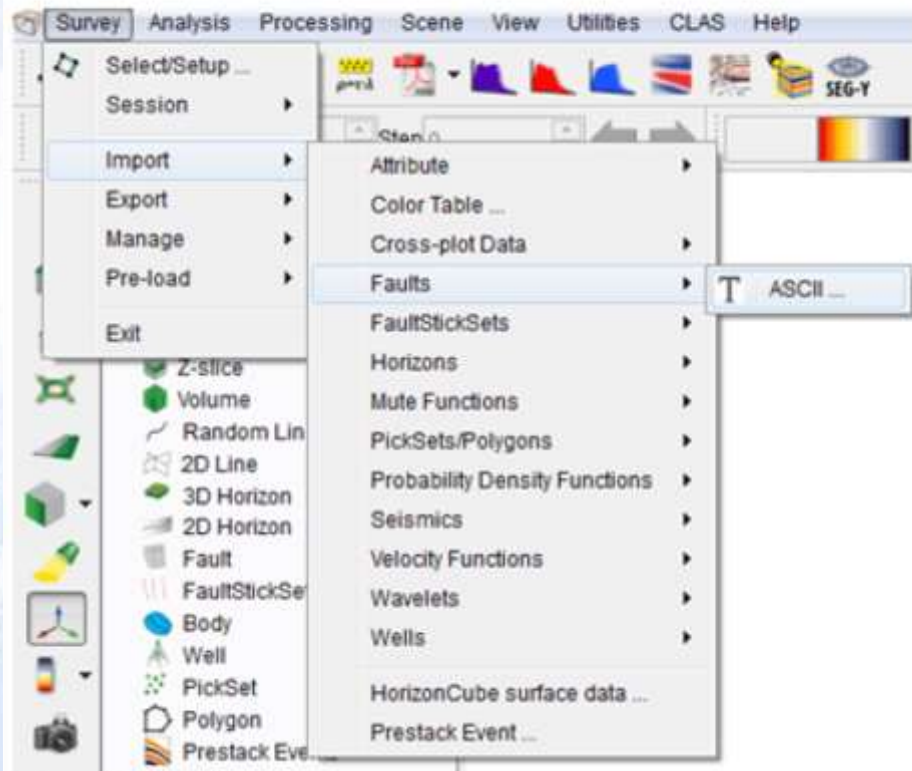




4.3.4 Import Faults

Faults are non-editable objects that may be used as display element in the 3D scene, displayed in full or a section. Attributes can also be applied along faults. If you are looking for an editable object that can be converted at a later stage into a fault plane, please load your data as fault stick sets.

3D Faults (planes) can be imported in OpendTect via *Survey -> Import -> Faults*, from Ascii files or from GeoFrame Workstation (plugin).





4.3.4.1 Import Fault Ascii 3D


Select the input Ascii file. You may display the input file by pressing the *Examine* button. The input file should be column sorted with one point per record (line).

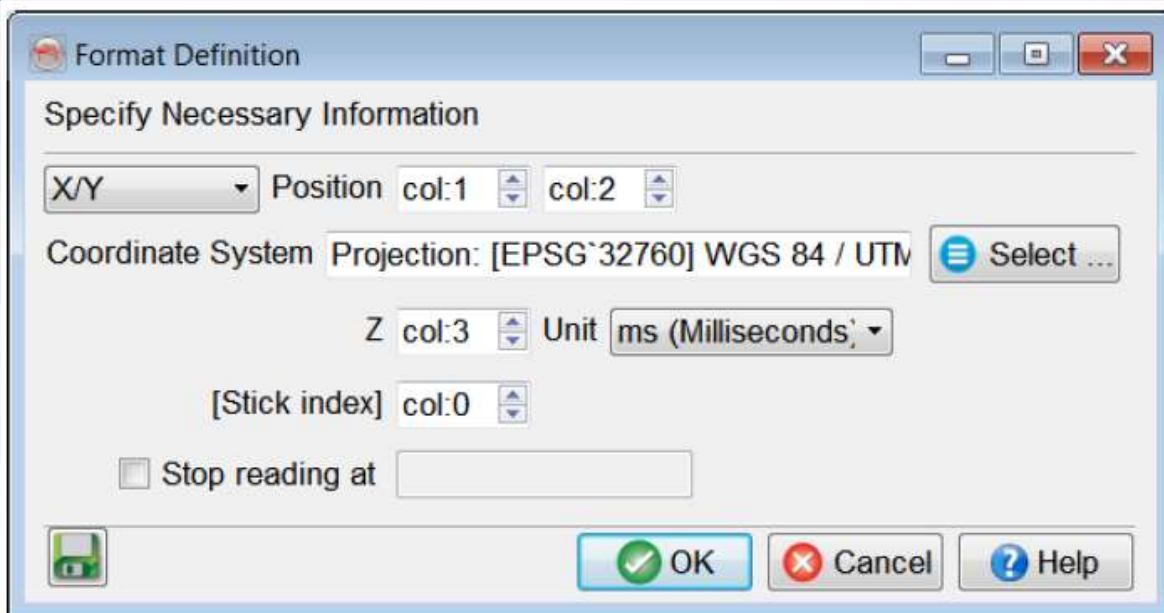


The main work is to specify the *type* of data, the presence of a *file header*, and the *file format definition*.

The sticks composing the planes can be either gathered automatically, either from picked slices (inlines or crosslines), and/or based on their slope. The sorting can be done based on the geometry of the fault sticks, on an index written in the input file, or in the order found in the file. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword.

Note: that Opendtect does not support crossing fault sticks (a fault plane cannot cross itself). If faults were picked on inlines, crosslines and horizontal slices, only the largest subset of the three will be used to import the faults.

Predefined and saved formats are available by pressing the  icon. Otherwise the format must be manually specified. The Define button gives access to the format definition window.




The image shows a 'Format Definition' dialog box with the following fields and controls:

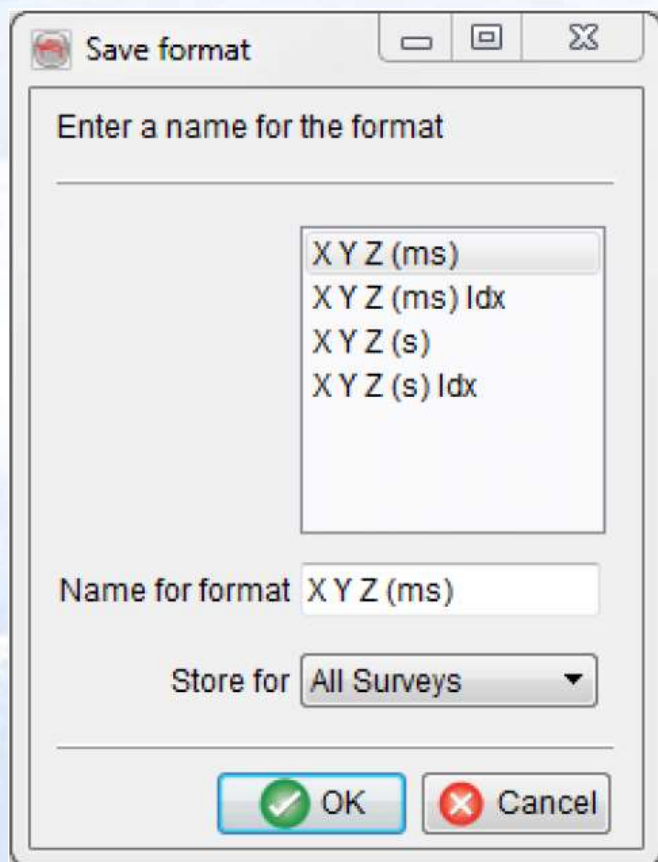
- Specify Necessary Information**
- X/Y** dropdown menu
- Position** section with **col:1** and **col:2** spinners
- Coordinate System** section with **Projection: [EPSG`32760] WGS 84 / UTM** and a **Select ...** button
- Z** spinner set to **col:3** and **Unit** dropdown set to **ms (Milliseconds)**
- [Stick index]** spinner set to **col:0**
- ☐ **Stop reading at** [text box]
- Buttons: **OK**, **Cancel**, **Help**

You must specify in the format definition the column numbers for the position; in terms of an X-Y pair, point column, and optionally stick index (0 = no stick index). The Z units can be seconds, milliseconds or microseconds. Reading may be stopped at a specific line by providing the adequate keyword.

If Coordinate Reference System (CRS) is defined for the survey, CRS conversion will be available in the import window.



It is recommended to save the format definition for a later use and QC, by clicking on the  icon . In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current OpendTect user level) depending on the usage. Press OK after having provided the name of the fault to be imported.



Save format

Enter a name for the format

- X Y Z (ms)
- X Y Z (ms) idx
- X Y Z (s)
- X Y Z (s) idx

Name for format X Y Z (ms)

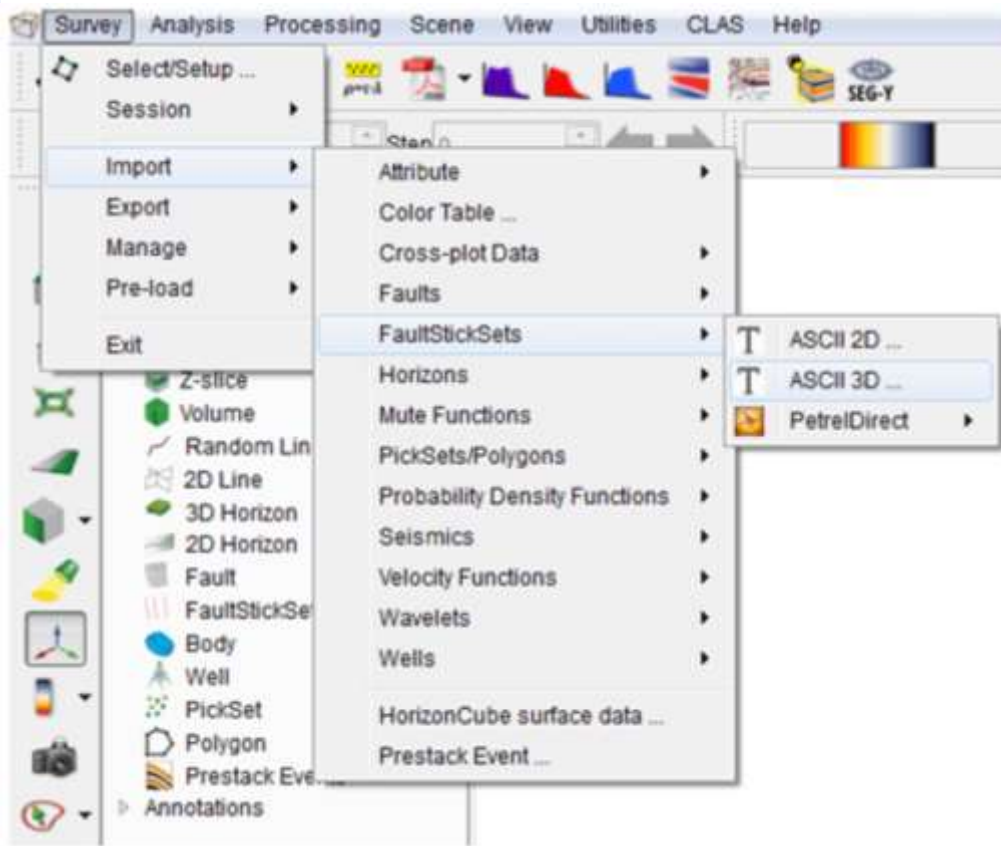
Store for All Surveys

OK Cancel



4.3.5 Import FaultStickSets

Fault stick sets are the editable version of the fault planes. Fault stick sets are fully editable objects either for faults interpretation, or later as fault input to correct for the fault throw. They can be imported in OpendText via *Survey > Import > FaultStickSets*, from Ascii files or from GeoFrame Workstation (plugin).






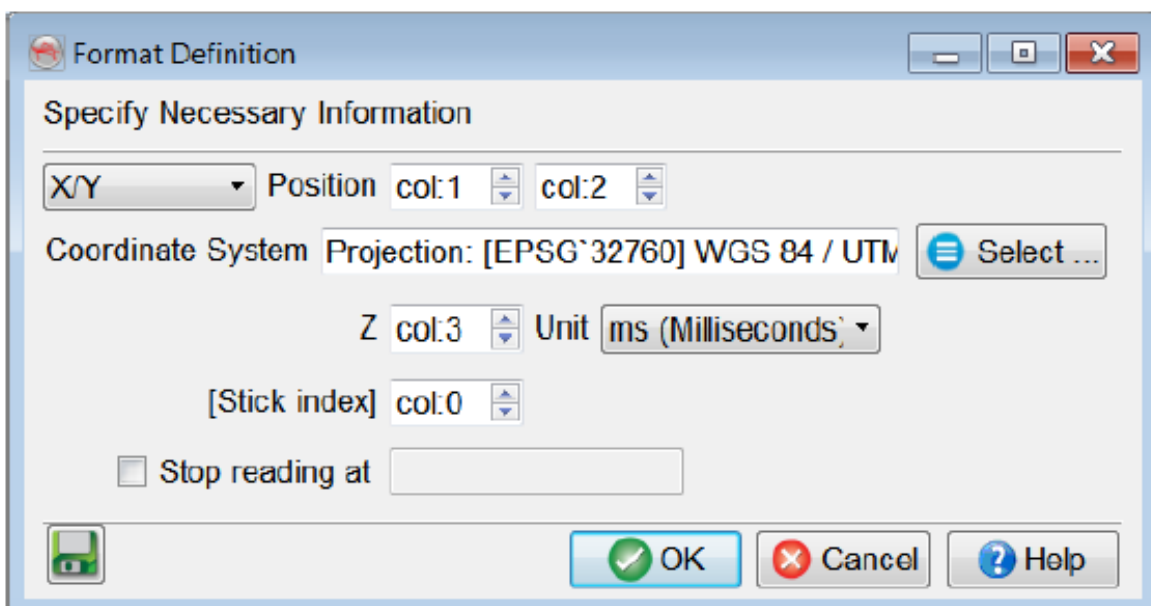
1 Import FaultStickSets Ascii 3D

Select the input ASCII file. You can display the input file by pressing the *Examine* button. The input file should be column sorted with one point per record (line).



The important point is to specify the presence of a *file header* and the *file format definition*. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword.


Predefined and saved formats are available by pressing the  icon. Otherwise the format must be manually specified. The *Define* button gives access to the format definition window.



Format Definition

Specify Necessary Information





X/Y Position col:1 col:2

Coordinate System Projection: [EPSG`32760] WGS 84 / UTM  Select ...

Z col:3 Unit ms (Milliseconds)


[Stick index] col:0

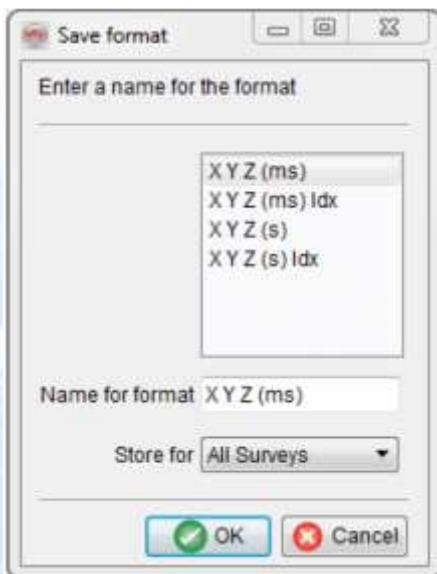
☐ Stop reading at

  OK  Cancel  Help



You must specify in the format definition the column numbers for the position, in terms of an X/Y pair, point column, and optionally stick index (0 = no stick index). The Z units can be seconds, milliseconds or microseconds. Reading may be stopped at a specific line by providing the adequate keyword. If Coordinate Reference System (CRS) is defined for the survey, CRS conversion will be available in the import window.

It is recommended to save the format definition for a later use and QC, by clicking on the  icon . In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current OpendTect user level) depending on the usage. Press OK after having provided the name of the name of the faultstickset to be imported.



Save format

Enter a name for the format

- X Y Z (ms)
- X Y Z (ms) idx
- X Y Z (s)
- X Y Z (s) idx

Name for format: X Y Z (ms)

Store for: All Surveys

OK Cancel




2 Import FaultStickSets Ascii 2D

Select the input Ascii file. You may display the input file by pressing the *Examine* button. The input file should be column sorted with one point per record (line).



The main work is to specify the presence of a *file header*, and the *file format definition*. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword.

Predefined and saved formats are available by pressing the  icon. Otherwise the format must be manually specified. The *Define* button gives access to the format definition window.

Format Definition

Specify Necessary Information

X/Y

Position

col:1

col:2

Coordinate System

Projection: [EPSG`32760] WGS 84 / UTM

Select ...

Z

col:3

Unit

ms (Milliseconds)

[Stick index]

col:0

Line name

col:5

☐ Stop reading at

OK

Cancel

Help




中國地質大學

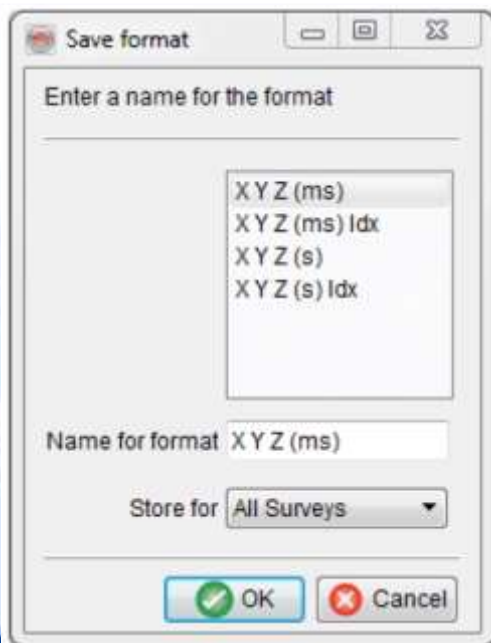
China University of Geosciences

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You must specify in the format definition the column numbers for the position, in terms of an X-Y pair, point column, and optionally stick index (0 = no stick index). The Z units can be seconds, milliseconds or microseconds. The name of the 2D line (s) must also be provided. Reading may be stopped at a specific line by providing the adequate keyword. If Coordinate Reference System (CRS) is defined for the survey, CRS conversion will be available in the import window.

It is recommended to save the format definition for a later use and QC, by clicking on the  icon. In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current OpendTect user level) depending on the usage. Press OK after having provided the name of the faultstickset to be imported.



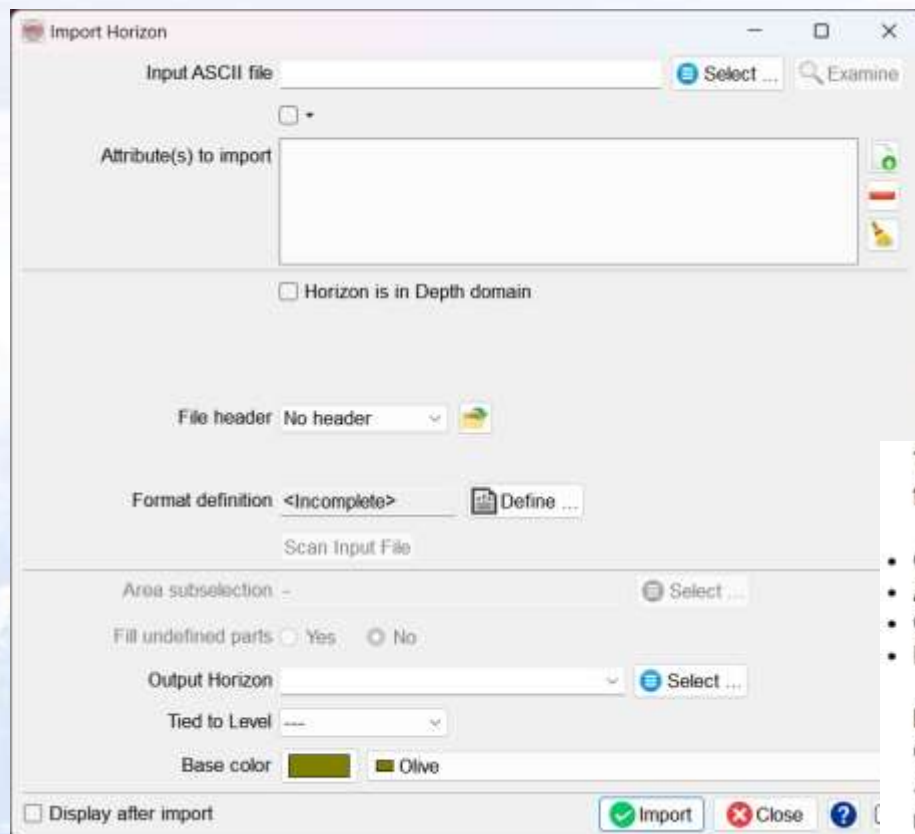
The screenshot shows a 'Save format' dialog box with the following elements:

- Title bar: Save format
- Text input field: Enter a name for the format
- List box containing four options:
 - X Y Z (ms)
 - X Y Z (ms) Idx
 - X Y Z (s)
 - X Y Z (s) Idx
- Text input field: Name for format X Y Z (ms)
- Dropdown menu: Store for All Surveys
- Buttons: OK (green checkmark) and Cancel (red X)



4.3.6 Import Horizons

Horizons interpreted on 3D and 2D seismic data and (attribute) grids can be imported in a Opendtect survey via *Survey > Import > Horizons*. The grids are called "Surface data" in Opendtect and are attached to 3D horizons. Horizon import supports the following:



与手册介绍有差别，需要进一步考察

The standard input data is *Ascii* files. Three options are available (explained in the following subsections):

- **Geometry 3D:** Import horizons interpreted on a 3D grid (e.g. XYZ)
- **Attributes 3D:** Import an attribute grid as a surface data, for a given 3D horizon.
- **Geometry 2D:** Import horizons interpreted along 2D lines.
- **Bulk 3D:** Import multiple 3D horizons from a single file

Import Horizon from GeoFrame/Petrel: Horizons can also be imported into Opendtect from GeoFrame 2D/3D (*Survey > Import > Horizon > GeoFrame > 2D or 3D*). The following dialog will pop up. Select the GeoFrame project and the survey name that contains the horizon to be imported.



1 Geometry 3D

Select the input ASCII file. You may display the input file by pressing the *Examine* button. Available grids (attributes) present in the input file may also be imported simultaneously. The input file should be column sorted with one point per record (line).

Import Horizon

Input ASCII file

☐ Attribute(s) to import

File header: No header

Format definition: <Incomplete>

Area subselection: -

Fill undefined parts: ☐ Yes ☒ No

Output Horizon:


Tied to Level: ---

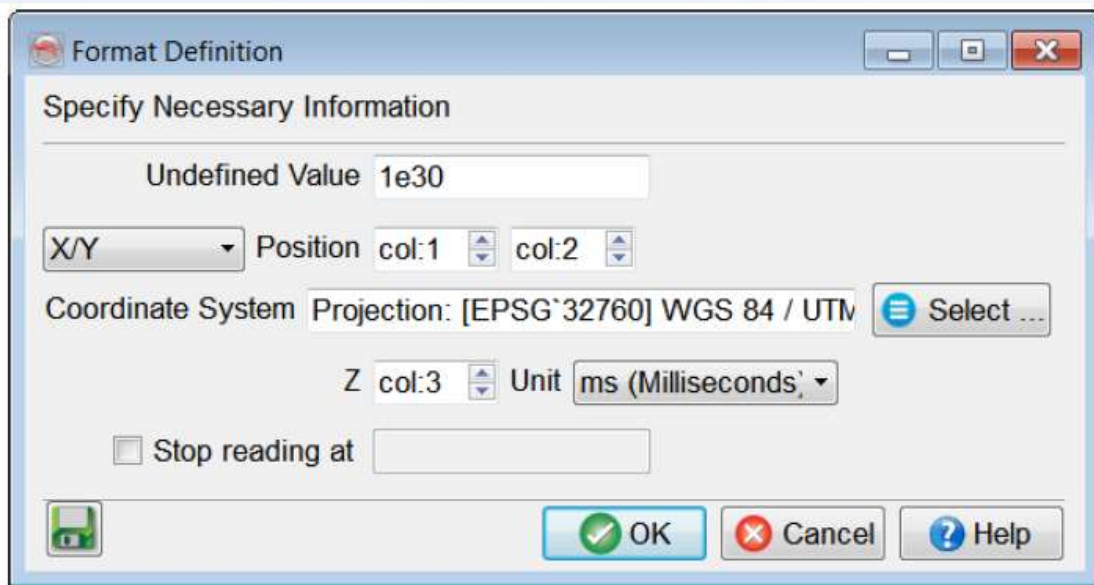
Base color: LimeGreen

☐ Display after import



The main work is to specify the presence of a *file header* and the *file format definition*. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword.

Predefined and saved file formats are available by pressing the  icon. Otherwise the format must be manually specified. The *Define* button gives access to the format definition window.




The image shows a 'Format Definition' dialog box with the following fields and controls:

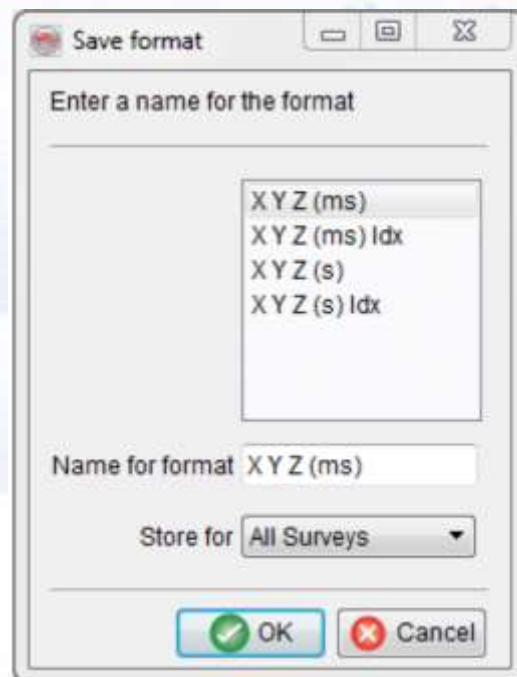
- Undefined Value:** A text box containing '1e30'.
- Position:** Two spin boxes labeled 'col:1' and 'col:2'.
- Coordinate System:** A text box containing 'Projection: [EPSG`32760] WGS 84 / UTM' and a 'Select ...' button.
- Z:** A spin box labeled 'col:3'.
- Unit:** A dropdown menu showing 'ms (Milliseconds)'.
- Stop reading at:** A checkbox and an empty text box.
- Buttons:** 'OK' (green checkmark), 'Cancel' (red X), and 'Help' (blue question mark).



You must specify in the format definition window the column numbers for the position, in terms of an X-Y pair or an inline-crossline pair, and the point column. Points that should not be read must all have the same numerical value, which is to be filled in as the "Undefined value". The Z units can be seconds, milliseconds or microseconds. Optionally, if attributes were added in the Import Horizon window, additional columns with given attribute(s) name(s) will also appear in this format definition window. Reading may be stopped at a specific line by providing the adequate keyword.

If Coordinate Reference System (CRS) is defined for the survey, CRS conversion will be available in the import window.

It is recommended to save the format definition for a later use and QC, by clicking on the  icon. In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current Opendtect user level) depending on the usage. Press Ok when done.





It is highly recommended to scan the input file after providing its format, and prior to the actual import. The scanned information will pop-up and error(s) or warning(s) may suggest a change of the format definition.

The area sub-selection can be used in two ways:

- Reduce the amount of data to be loaded: By reducing the inline/crossline ranges
- Specify a new grid size if a coarse input grid should be gridded during import: By decreasing the inline/crosslines steps to the survey steps (minimum).

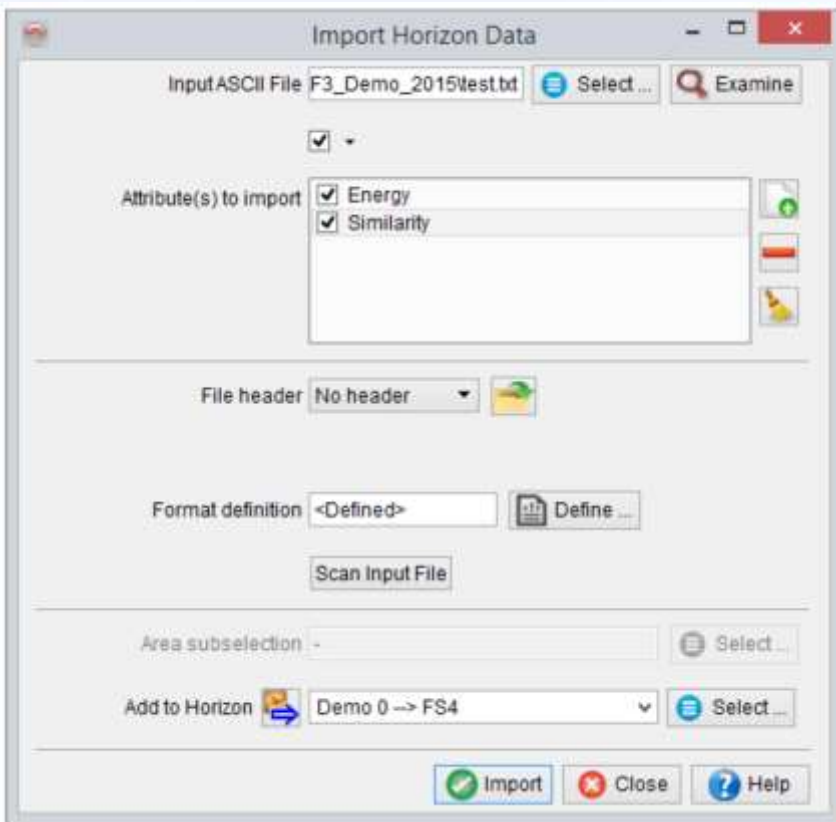
The option *Fill undefined parts* will be toggle on if gaps were found during scan. A triangulation to the convex hull with an interpolation where the maximum size is the input grid step (in XY units, thus meters or feet), and *Keep holes larger than* toggled off, should be the optimal settings in most cases.

Tied to level is additional option specifically designed to tie horizons to well markers, for correlation purposes. In order to define the stratigraphic information of the survey, please read about Manage Stratigraphy.



2 Attributes 3D

This window is used to import grids from ascii files and attached them to Existing 3D horizons. *Select* the input Ascii file. You may display the input file by pressing the Examine button. The input file should be column sorted with one point per record (line).




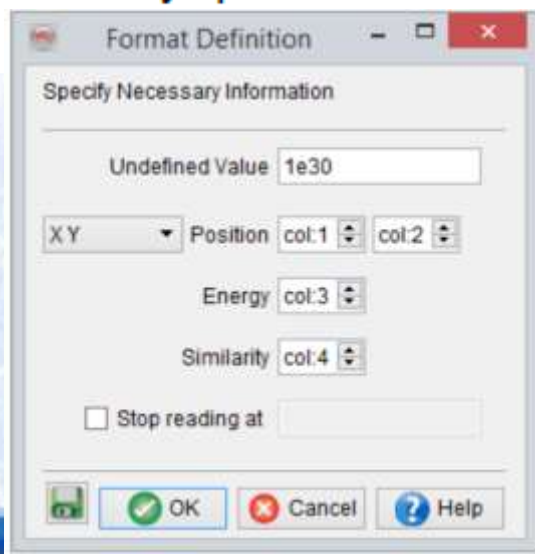


Grid names must first be provided in front of *Select Attribute(s) to import*. This can be done by pressing *Add new* right of it, and providing each time a new grid name.

This will populate the list of importable grids. Only the highlighted grids will be imported, which is why each new grid is highlighted after providing its name.


Next, the presence of a file header must be specified and the file format definition must be provided. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword.

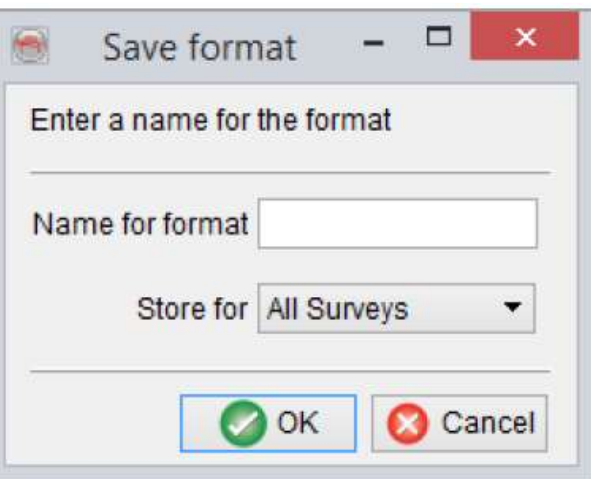
Predefined and saved file formats are available by pressing the  icon. Otherwise the format must be manually specified. The Define button gives access to the format definition window.





You must specify in the format definition window the column numbers for the position, in terms of an X-Y pair or an inline-crossline pair, and the grid(s) column(s). Grid values that should not be read must all have the same numerical value, which is to be filled in as the *Undefined value*. Reading may be stopped at a specific line by providing the adequate keyword.

It is recommended to save the format definition for a later use and QC, by clicking on the  icon. In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current OpendTect user level) depending on the usage. Please note that the full grid names will be saved as provided in the format definition. Press OK when done.



A screenshot of a 'Save format' dialog box. The title bar says 'Save format' with standard window controls. The main area has a label 'Enter a name for the format' above a text input field. Below the input field is a label 'Name for format' followed by the same input field. Underneath is a label 'Store for' followed by a dropdown menu currently showing 'All Surveys'. At the bottom are two buttons: 'OK' with a green checkmark icon and 'Cancel' with a red X icon.

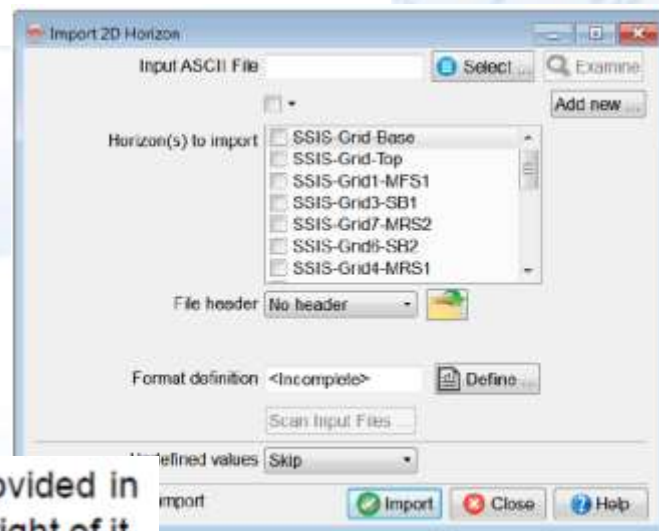
It is highly recommended to scan the input file after providing its format, and prior to the actual import. The scanned information will pop-up and error(s) or warning(s) may suggest a change of the format definition. The area subselection is essentially present to optionally reduce the amount of data to be imported, by reducing the inline/crossline range(s).

Finally an horizon must be provided, to attach the grid(s) to it. Grids will be accessible only after having loaded this horizon in the tree. Press Go to launch the import.



3 Geometry 2D


This window is used to import **2D interpretations** from **ascii files**. Select the input **ascii file**. You may display the input file by pressing the *Examine* button. The input file should be **column sorted** with **one point per record (line)**.

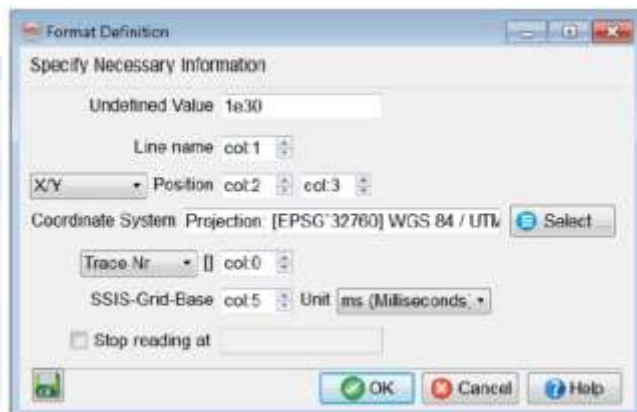


Several 2D horizons can be imported at once. Their name should be provided in front of *Select Horizons to import*. This can be done by pressing *Add new* right of it, and providing each time a new horizon name. This will populate the list of importable horizons. Only the highlighted horizons will be imported, which is why each new horizon is highlighted after providing its name. Ctrl-left click may be used to highlight or deselect an horizon.

Next, the presence of a file header must be specified and the file format definition must be provided. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword.




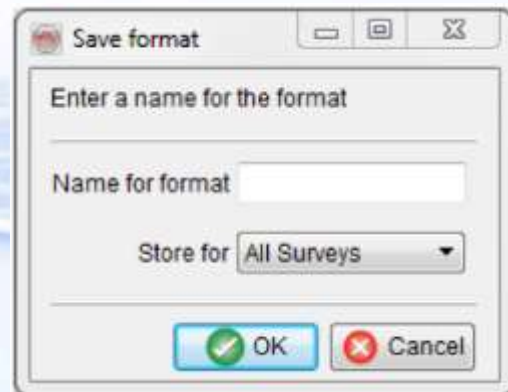
Predefined and saved file formats are available by pressing the  icon. Otherwise the format must be manually specified. The Define button gives access to the format definition window.



You must specify in the format definition window the line name, column numbers for the position, in terms of an X-Y pair or a unique trace number, and the horizon(s) column(s). Horizon Z values that should not be read must all have the same numerical value, which is to be filled in as the *Undefined value*. Reading may be stopped at a specific line by providing the adequate keyword.

If Coordinate Reference System (CRS) is defined for the survey, CRS conversion will be available in the import window.

It is recommended to save the format definition for a later use and QC, by clicking the  icon. In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current OpendText user level) depending on the usage. Press OK when done.



It is highly recommended to scan the input file after providing its format, and prior to the actual import. The scanned information will pop-up and error(s) or warning(s) may suggest a change of the format definition. Press Go to launch the import.



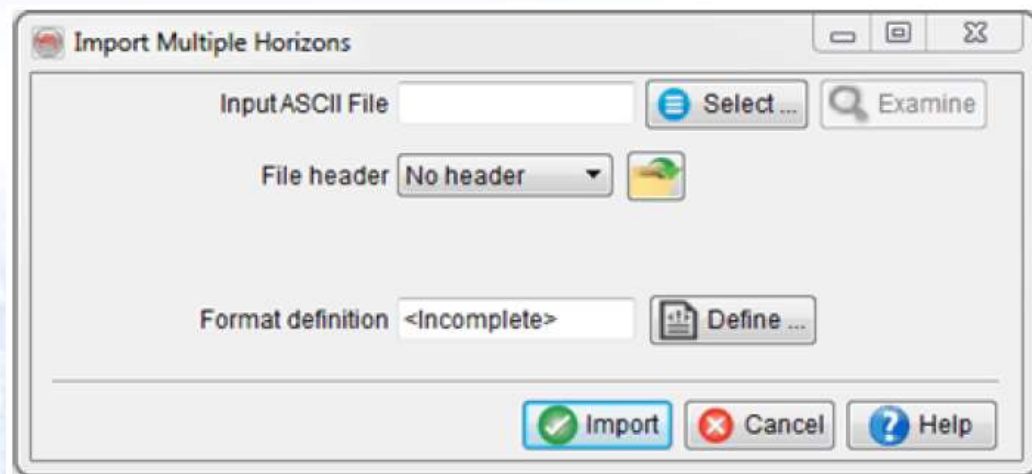
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4 Bulk 3D

The bulk import tool allows for the import of multiple 3D horizons from one single file. The data is matched by name. This has the following implications:

The horizon name must appear on each line of the input file. The horizon name should not contain spaces, otherwise the matching with a given column number will not work as expected.

Apart from being a multiple horizon import tool, it behaves following the rules of the standard horizon import.

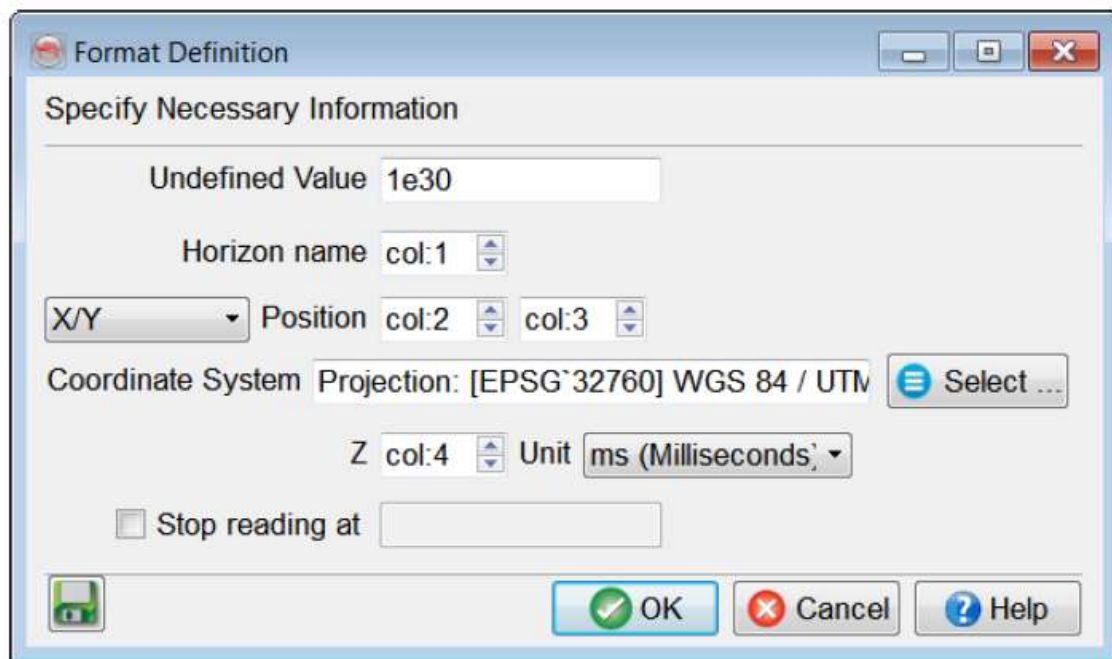




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Format definition

You must specify in the format definition window the column numbers for the position, in terms of an X-Y pair or an inline-crossline pair, the point column and the horizon name. If Coordinate Reference System (CRS) is defined for the survey, CRS conversion will be available in the import window.



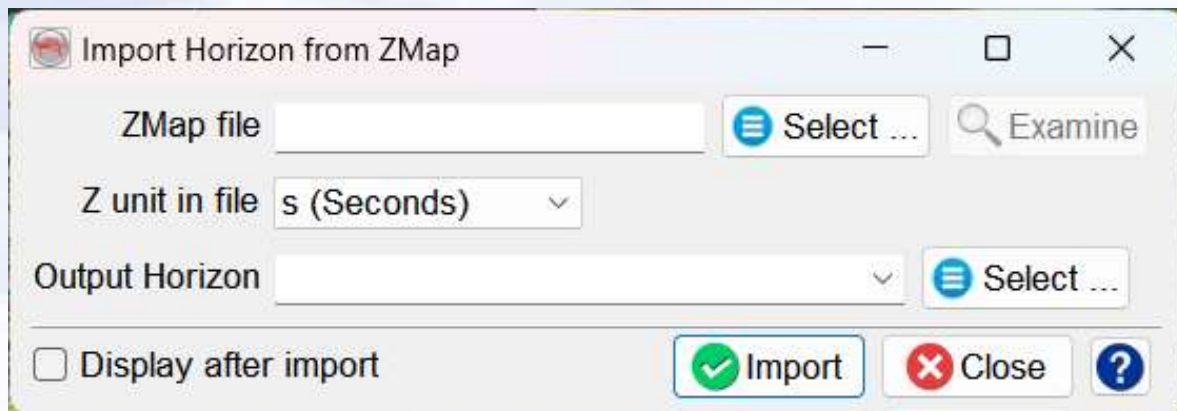
The image shows a 'Format Definition' dialog box with the following fields and controls:

- Undefined Value:** A text field containing '1e30'.
- Horizon name:** A dropdown menu showing 'col:1'.
- Position:** A dropdown menu showing 'X/Y' with two adjacent dropdowns showing 'col:2' and 'col:3'.
- Coordinate System:** A text field showing 'Projection: [EPSG`32760] WGS 84 / UTM' and a 'Select ...' button.
- Z:** A dropdown menu showing 'col:4'.
- Unit:** A dropdown menu showing 'ms (Milliseconds)'.
- Stop reading at:** A checkbox that is currently unchecked, followed by an empty text field.
- Buttons:** At the bottom are three buttons: 'OK' (with a green checkmark), 'Cancel' (with a red X), and 'Help' (with a question mark).



5 From ZMap

这个GNU版本的6.6有这个功能。






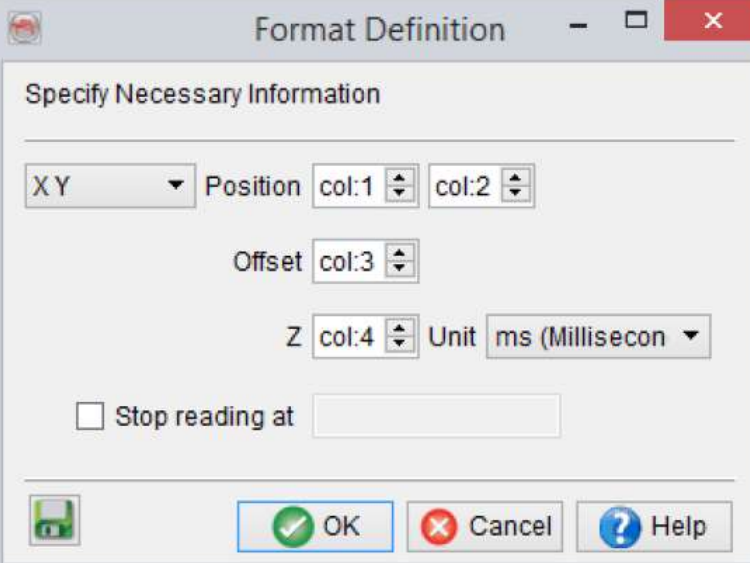
4.3.7 Import **Mute** Functions

Mute definitions can be imported in OpendText using Ascii files. The import window is launched from the OpendText main menu (*Survey > Import > Mute definitions > Ascii*). Select the input Ascii file. You can display the input file by pressing the *Examine* button. The input file should be column sorted with one point per record (line).



The main work is to specify the presence of a *file header* and the *file format definition*. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword. The mute definition can be either variable throughout the survey, in which case a position must be provided in the input file for all data points, or fixed. In this latter case, toggle *File contains position* to *No* and provide any location for the mute definition.

Predefined and saved file formats are available by pressing the  icon. Otherwise the format must be manually specified. The *Define* button gives access to the format definition window.



Format Definition


Specify Necessary Information

XY Position

Offset

Z Unit

☐ Stop reading at






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You must specify in the format definition window the column numbers for the position, in terms of an X-Y pair or an inline-crossline pair, and the point column, in terms of an Offset-Z value pair. points that should not be read must all have the same numerical value, which is to be filled in as the "Undefined value". The Z units can be seconds, milliseconds or microseconds (meters or feet in depth surveys). Reading may be stopped at a specific line by providing the adequate keyword.

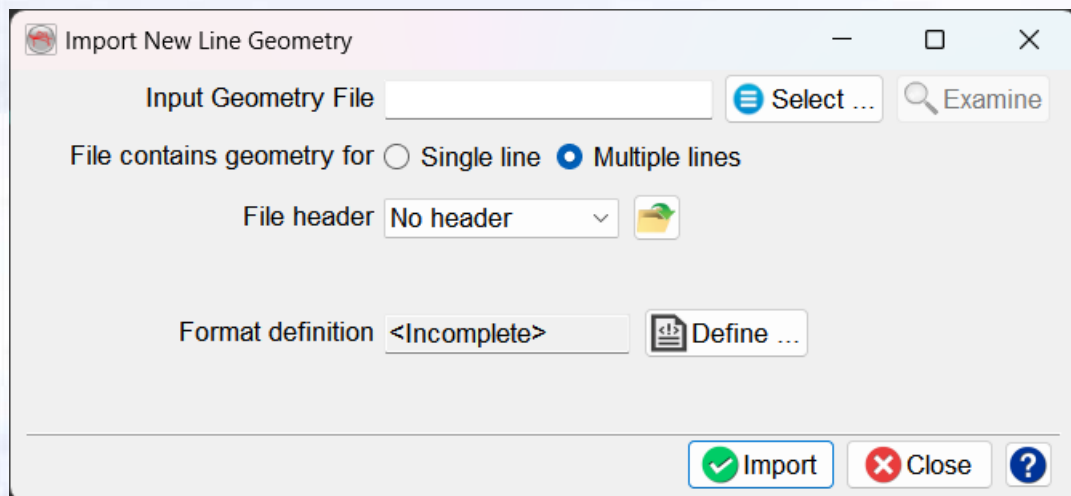
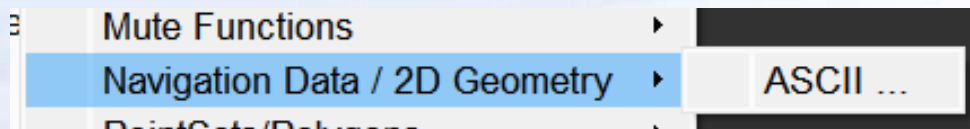
It is recommended to save the format definition for a later use and QC, by clicking on the  icon . In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current OpendText user level) depending on the usage. Press OK when done.



The screenshot shows a 'Save format' dialog box with a title bar containing a red close button. The main area has a label 'Enter a name for the format' above a text input field. The input field contains the text 'dGB Mute definition'. Below the input field, there is a label 'Name for format' followed by the same text 'dGB Mute definition'. At the bottom left, there is a label 'Store for' followed by a dropdown menu showing 'All Surveys'. At the bottom right, there are two buttons: 'OK' with a green checkmark icon and 'Cancel' with a red X icon.



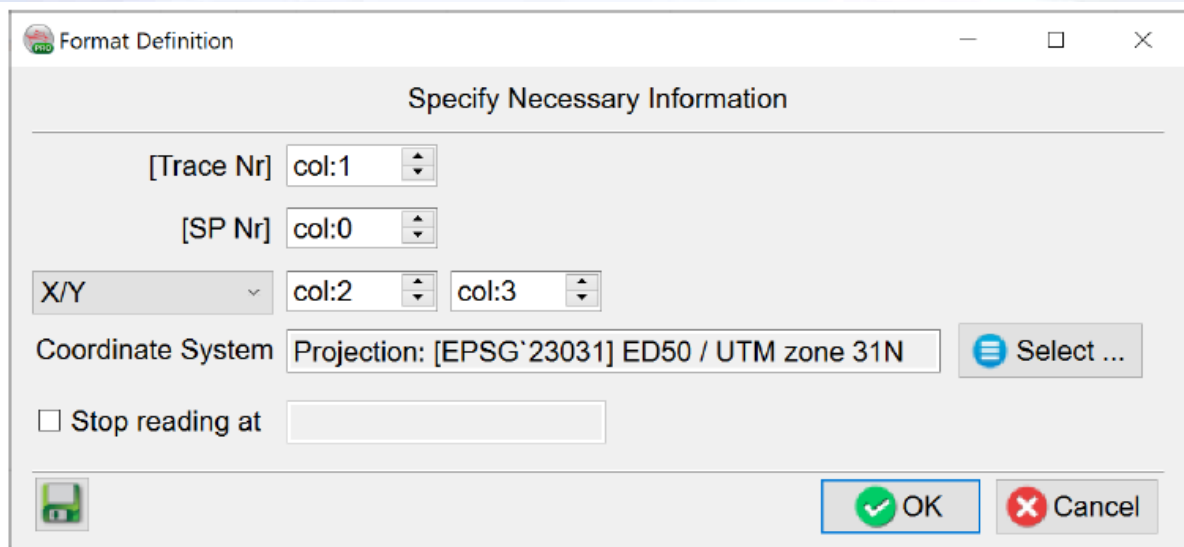
4.3.8 Import Navigation Data / 2D Geometry





The import ASCII file should contain X, Y, trace number and, optionally, shot point number.

During import, *Examine* the file and set the number of header lines, if present, and *Define* the format:



The image shows a 'Format Definition' dialog box with the title 'Specify Necessary Information'. It contains several input fields and buttons. The 'Trace Nr' field is set to 'col:1', the 'SP Nr' field is set to 'col:0', and the 'X/Y' dropdown is set to 'col:2' and 'col:3'. The 'Coordinate System' field is set to 'Projection: [EPSG`23031] ED50 / UTM zone 31N' with a 'Select ...' button next to it. There is a checkbox for 'Stop reading at' followed by an empty text box. At the bottom, there is a floppy disk icon, an 'OK' button with a green checkmark, and a 'Cancel' button with a red X.

Format Definition

Specify Necessary Information

[Trace Nr] col:1

[SP Nr] col:0

X/Y col:2 col:3

Coordinate System Projection: [EPSG`23031] ED50 / UTM zone 31N Select ...

☐ Stop reading at

OK Cancel

Once completed, click *OK* to import.



The user can then switch to [importing the 2D SEG-Y file](#).

During this import, the traces are matched to the geometry by trace number, so ensure selection of the correct byte number, click *Next*.

On this next screen, use the drop-down for the *Line name* field to select the just-imported navigation data and name the 2D Data before clicking *Import*:

Import 2D Line

Importing C:\Users\mark\Downloads\2D_Seis\2D_seismic.segy

Copy data ☒ Yes (import) ☐ No (scan&link)

Line name

Trace subselection

Null traces ☒ Discard ☐ Pass

☐ Scale values: Shift/Factor

Coordinate source

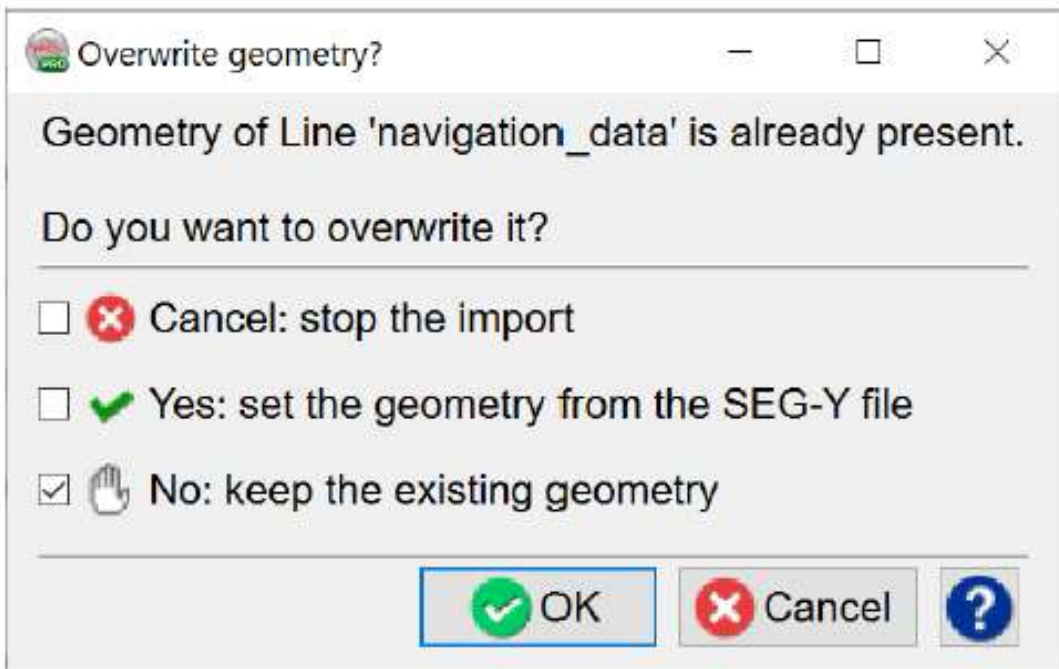
Output 2D Data (attribute) ☐ Depth

☐ Execute in Batch



Finally, a choice will be given as to which navigation data to use.

Select *No*: keep the existing geometry and click OK:





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4.3.9 Import Pointsets & Polygons

Navigation Data / 2D Geometry ▸

PointSets/Polygons ▸

Probability Density Functions ▸

T ASCII ...

Select the input Ascii file. You can display the input file by pressing the *Examine* button. The input file should be column sorted with one position per record (line).

Import Pointset/Polygon

Input ASCII File

Get Z values from

File header

Format definition


Output Pointset/Polygon

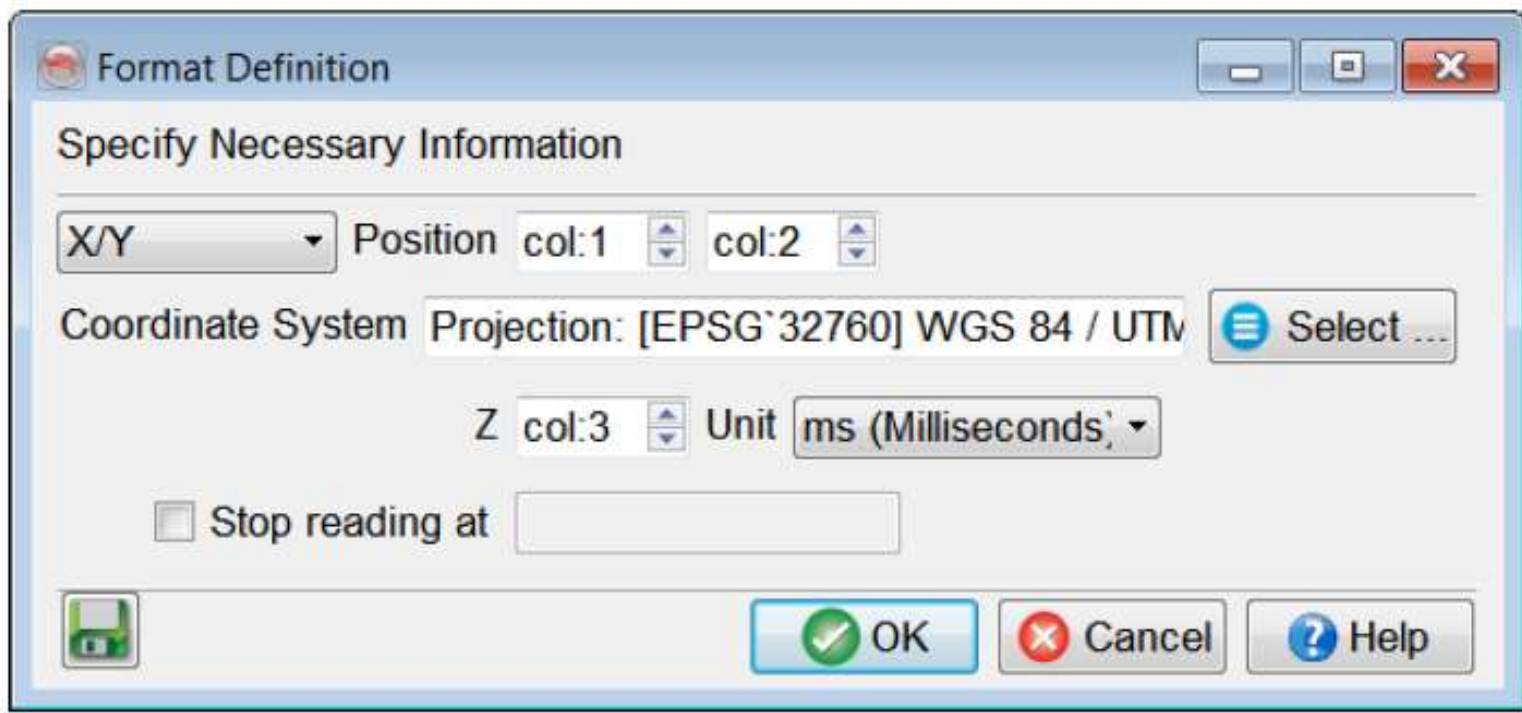
Color ☐ Import as Polygon

☐ Display after import



The main work is to specify the presence of a *file header* and the *file format definition*. The header, if present, can be of fixed length (number of lines), or delimited on its last line by a keyword.

Predefined and saved file formats are available by pressing the  icon. Otherwise the format must be manually specified. The *Define* button gives access to the format definition window.



The image shows a 'Format Definition' dialog box with the following fields and controls:


- Title Bar:** Format Definition
- Buttons:** Minimize, Maximize, Close
- Section:** Specify Necessary Information
- Position:** X/Y (dropdown), col:1 (spin), col:2 (spin)
- Coordinate System:** Projection: [EPSG`32760] WGS 84 / UTM, Select ... (button)
- Unit:** Z col:3 (spin), Unit ms (Milliseconds) (dropdown)
- Stop reading at:** (checkbox), (text field)
- Footer:** Floppy disk icon, OK (button), Cancel (button), Help (button)



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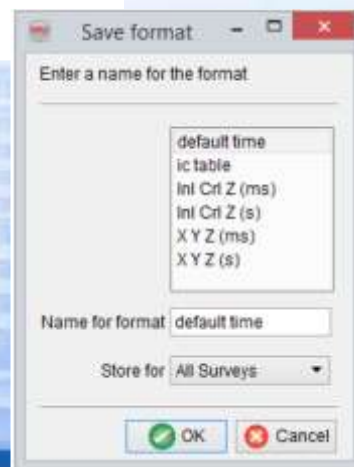
You must specify in the format definition window the column numbers for the position, in terms of an X/Y pair or an inline-crossline pair, and the point column. points that should not be read must all have the same numerical value, which is to be filled in as the "Undefined value". The Z units can be seconds, milliseconds or microseconds. Reading may be stopped at a specific line by providing the adequate keyword.

If Coordinate Reference System (CRS) is defined for the survey, CRS conversion will be available in the import window.

It is recommended to save the format definition for a later use and QC, by clicking on the  icon . In pop-up window, write the name of the format and store it. The format can be stored at different levels (All surveys, Current survey, Current OpendTest user level) depending on the usage.

The option **Import as polygon** will flag this specific datatype to the loaded data. It also adds as constraint during loading that the points are ordered in the expected way. The import tool will not apply any sorting.

Press OK when done.

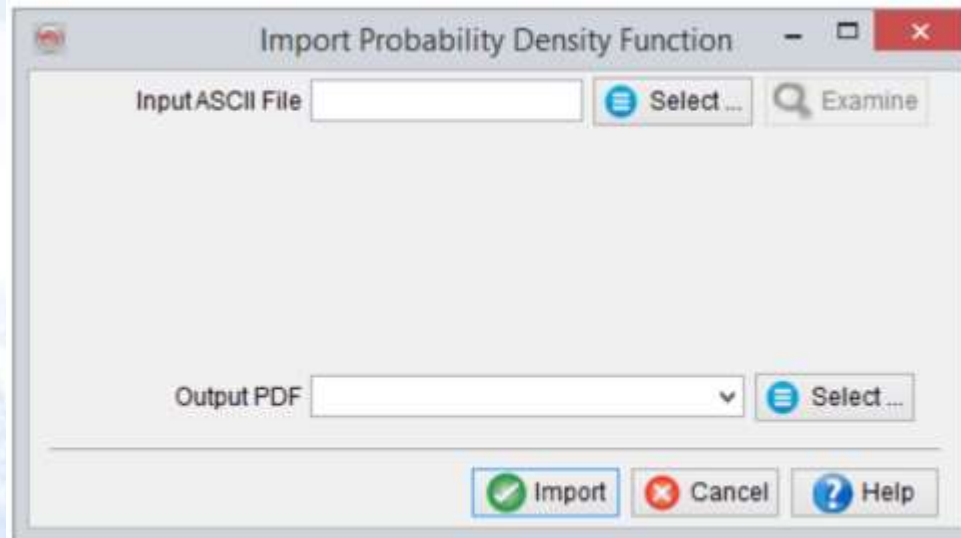





4.3.10 Import Probability Density Functions

Probability density functions can be imported in order to run Bayesian classifications. The manage tool can later be used to edit the PDF before running the Bayesian classification.

RokDoc formatted data is required for importing PDF in OpendTect. After having selected the input file, the two contained variables will be shown in the import window, together with their amplitude ranges and bin size.



The variable names and parameters may be modified before pressing the Go button that will launch the import. The  icon to the right can be used to quickly extend both variable ranges by one bin size outwards.