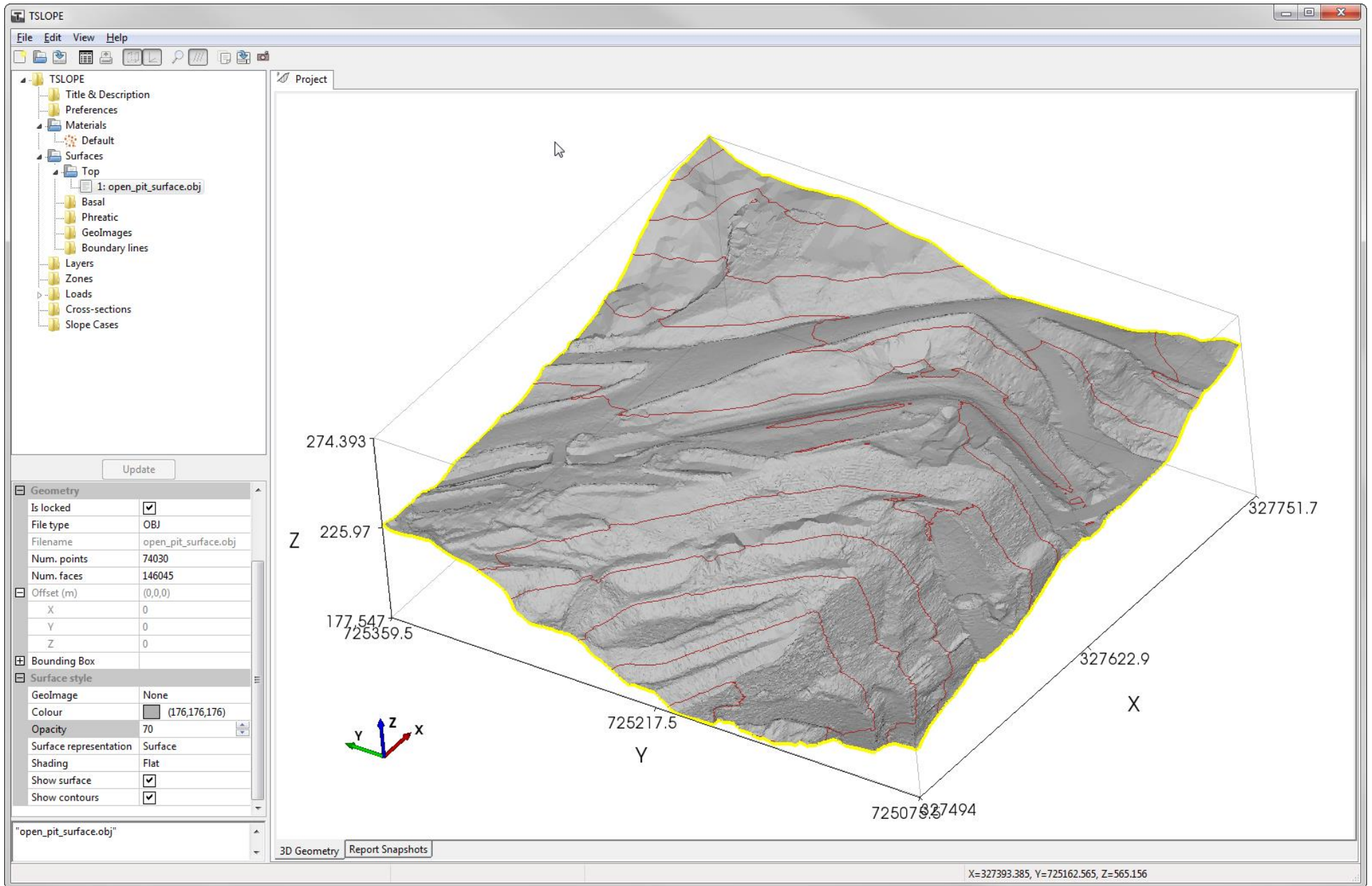
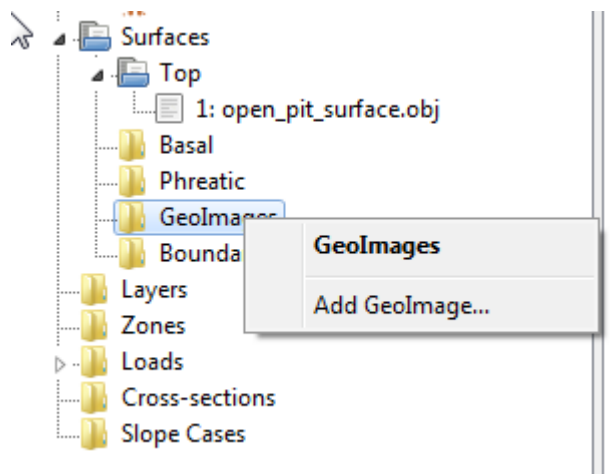


How to load a georeferenced image, and display in TSLOPE

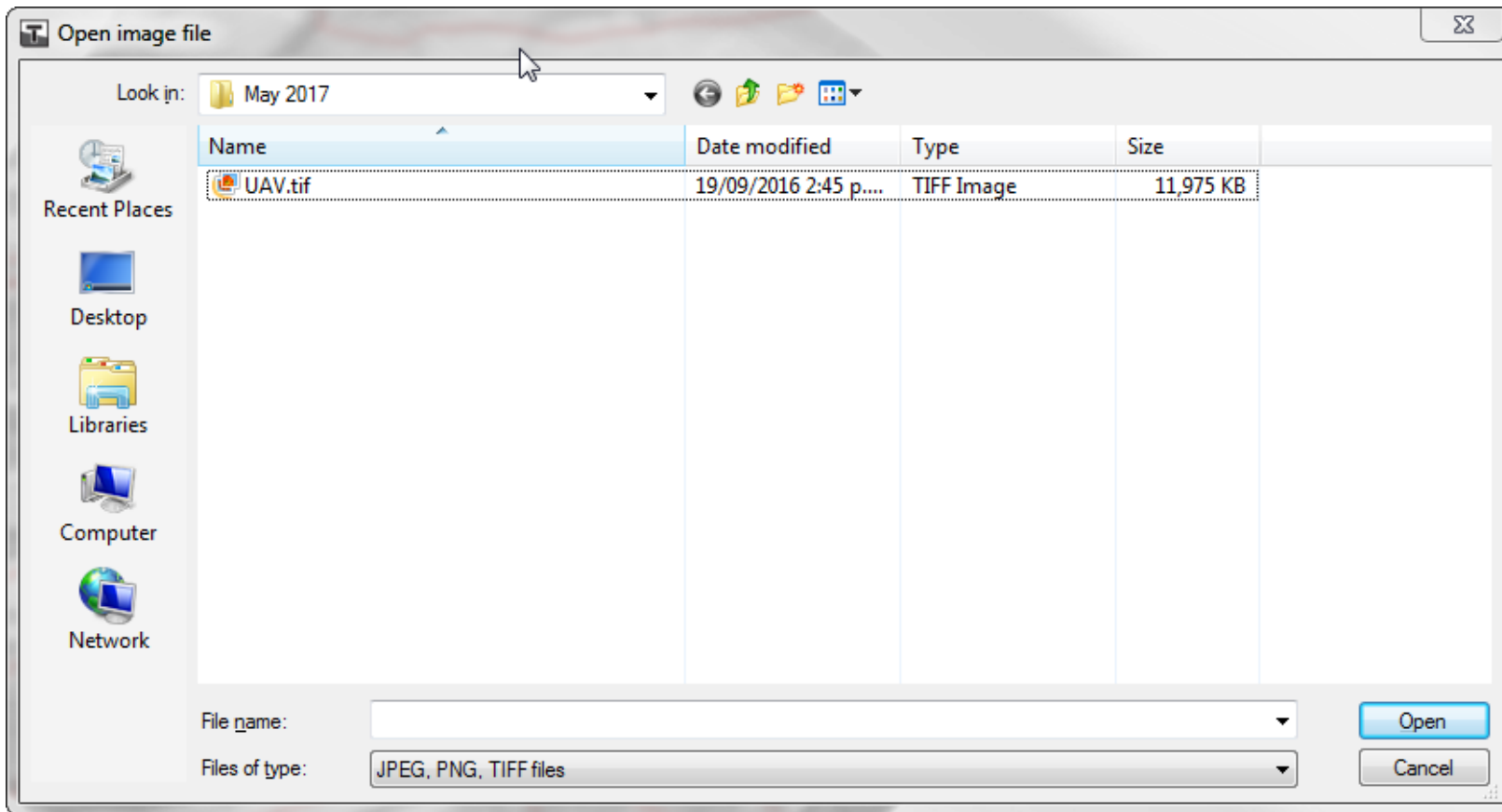
In this example, we have an open pit slope surface that has been modelled in Vulcan, and exported as an .obj file.



We then go to the GeolImages tab under Surfaces and right mouse click to select the Add GeolImage tab



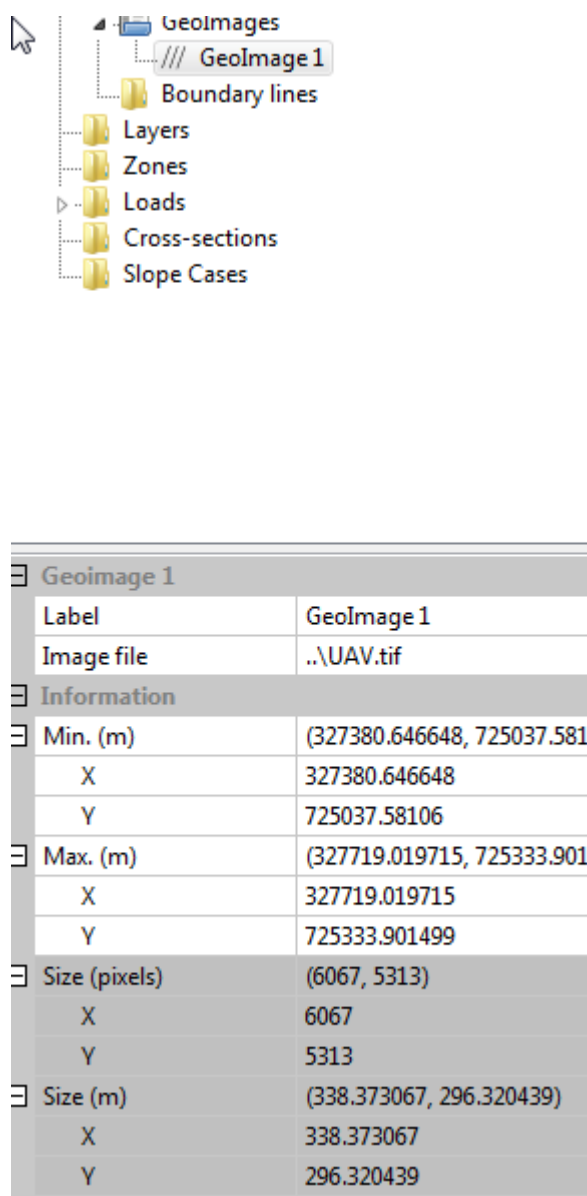
A window then opens to show the directory you are currently working in, and lists the available images. The formats that are supported are JPEG, PNG, and TIFF. They must be georeferenced, and using the same datum as the project coordinates.



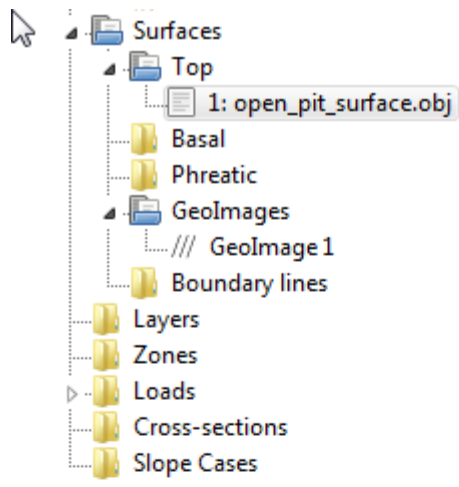
The file is then selected and opened.

The menu now shows that a GeoImage has been loaded. TSLOPE has given it a Label GeoImage1. This can be changed to suit.

Other useful information regarding the GeoImage is provided.

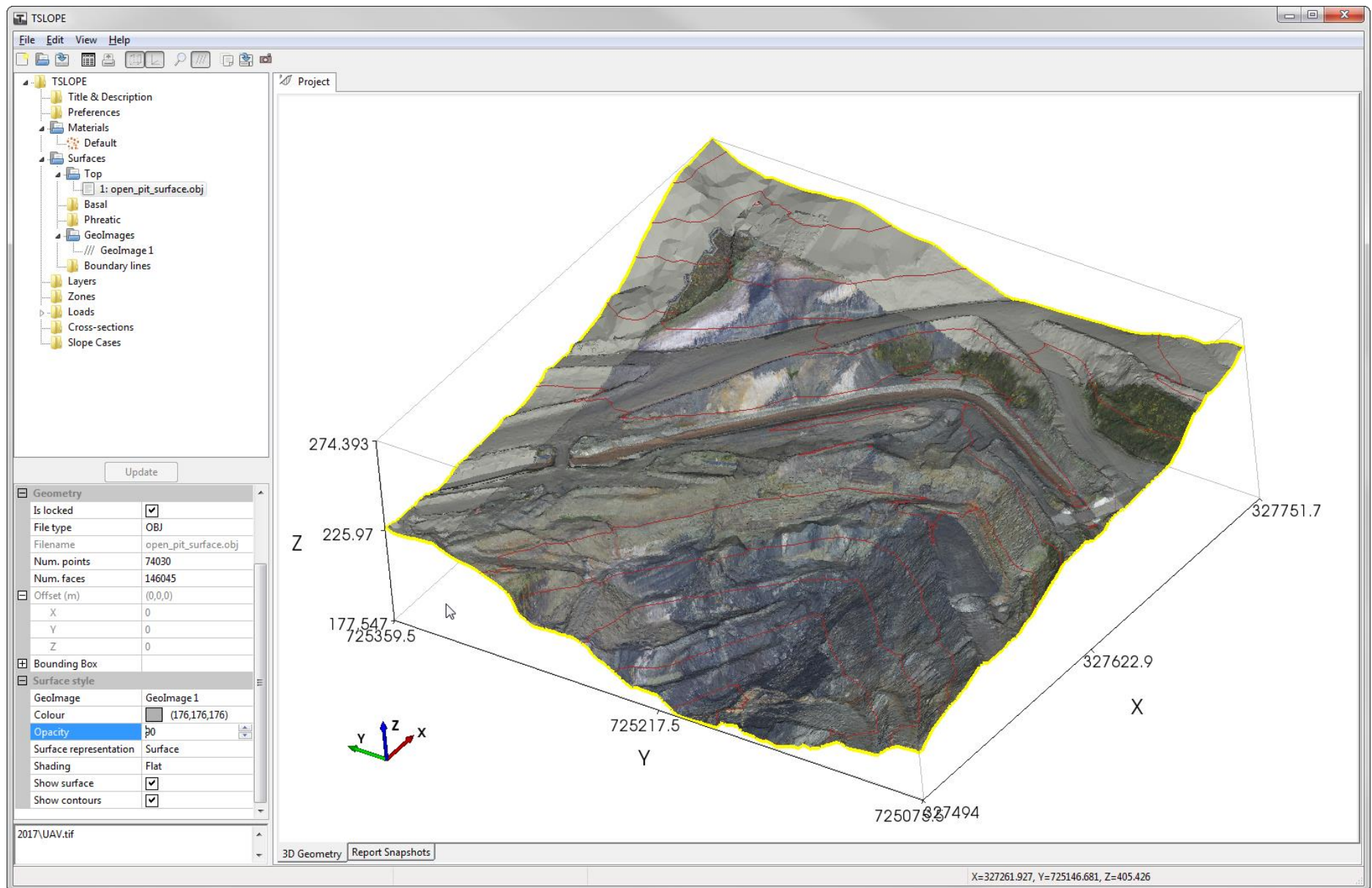


To display the image draped over the open pit surface, we go back to the Surfaces – Top – open_pit_surface.obj tab



Update	
Geometry	
Is locked	<input checked="" type="checkbox"/>
File type	OBJ
Filename	open_pit_surface.obj
Num. points	74030
Num. faces	146045
Offset (m)	
X	0
Y	0
Z	0
Bounding Box	
Surface style	
GeoImage	None
Colour	<input type="color" value="#B0C4DE"/> (176,176,176)
Opacity	70
Surface representation	Surface
Shading	Flat
Show surface	<input checked="" type="checkbox"/>
Show contours	<input checked="" type="checkbox"/>

The Surface style – GeoImage selection is None. We then left click on that tab, and the pull down box shows the available images. In this case we select GeoImage1, and the image is now draped on the open pit surface.



Note that we have increased the Opacity to improve the visual effect of draping the image on the open pit surface.

The image extents are not coincident with the underlying surface. We can adjust the project boundaries so that this is tidied up.

We do that by accessing the Preferences menu.

- TSLOPE
 - Title & Description
 - Preferences
 - Materials
 - Default
 - Surfaces
 - Top
 - 1: open_pit_surface.obj
 - Basal
 - Phreatic
 - GeoImages
 - GeoImage 1
 - Boundary lines
 - Layers
 - Zones
 - Loads
 - Cross-sections
 - Slope Cases

Project	
Units	Metric
Weight of water (kN/m ³)	9.8
Atmospheric Pressure (kPa)	101.3
Project Clipping	
Enable clipping	False
Graphics	
Background colour	<input type="checkbox"/> White
Contours	
Definition	auto
Interval (m)	10
Export HTML Report	
Embed Images	False

We then change the Enable clipping option from False, to True

- TSLOPE
 - Title & Description
 - Preferences
 - Materials
 - Default
 - Surfaces
 - Top
 - 1: open_pit_surface.obj
 - Basal
 - Phreatic
 - GeoImages
 - GeoImage 1
 - Boundary lines
 - Layers
 - Zones
 - Loads
 - Cross-sections
 - Slope Cases

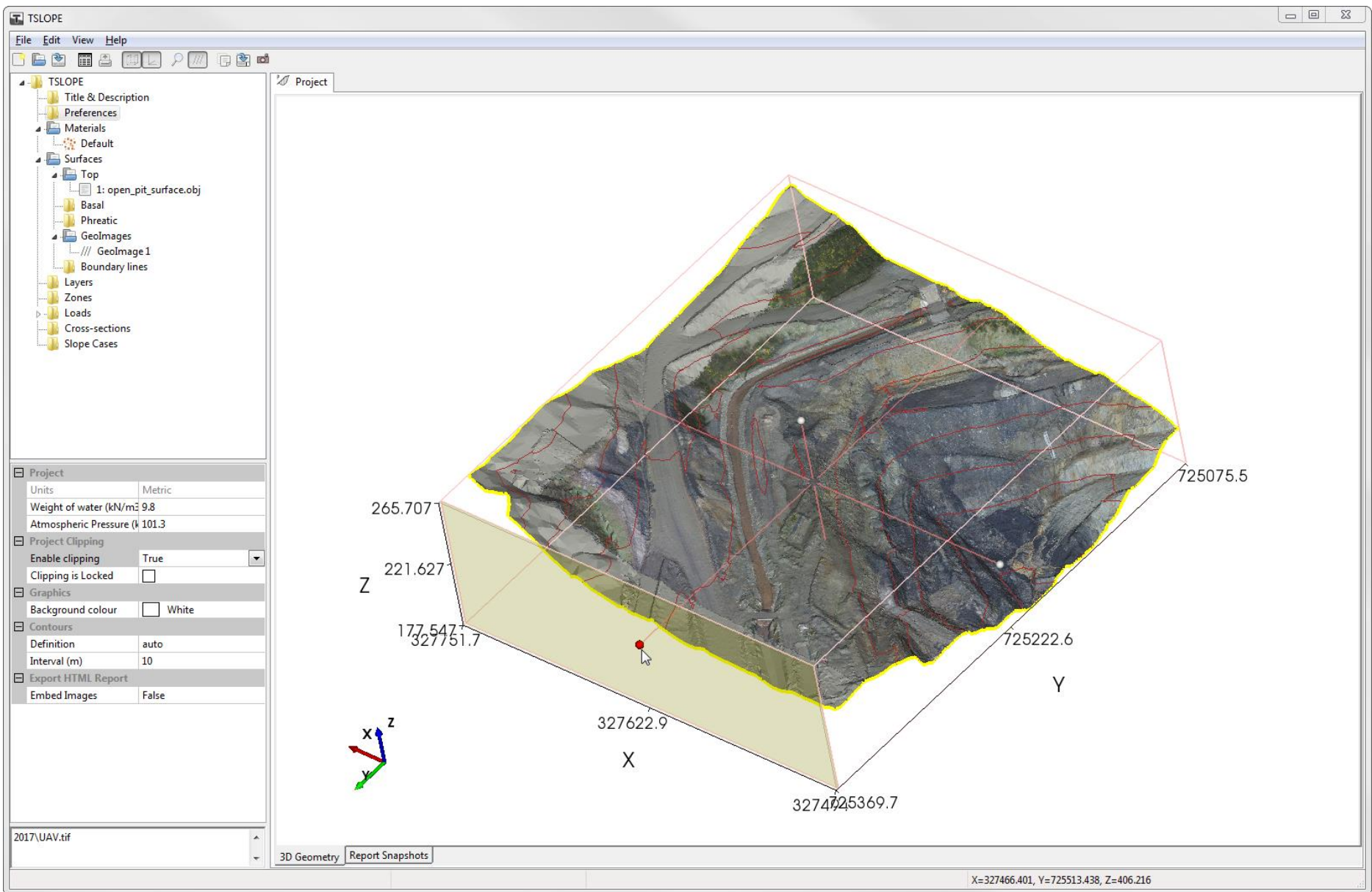
Project	
Units	Metric
Weight of water (kN/m ³)	9.8
Atmospheric Pressure (kPa)	101.3
Project Clipping	
Enable clipping	True
Clipping is Locked	<input type="checkbox"/>
Graphics	
Background colour	<input type="checkbox"/> White
Contours	
Definition	auto
Interval (m)	10
Export HTML Report	
Embed Images	False

2017\UAV.tif

3D Geometry Report Snapshots

X=327384.051, Y=725197.070, Z=585.068

With the left mouse, click on one of the balls on an axis, it will highlight in red. Then slide the ball and the panel to adjust the edge of the model. Repeat on the other sides of the model as required.



When the model is clipped as required, check the Clipping is Locked option, and the settings will be preserved.

