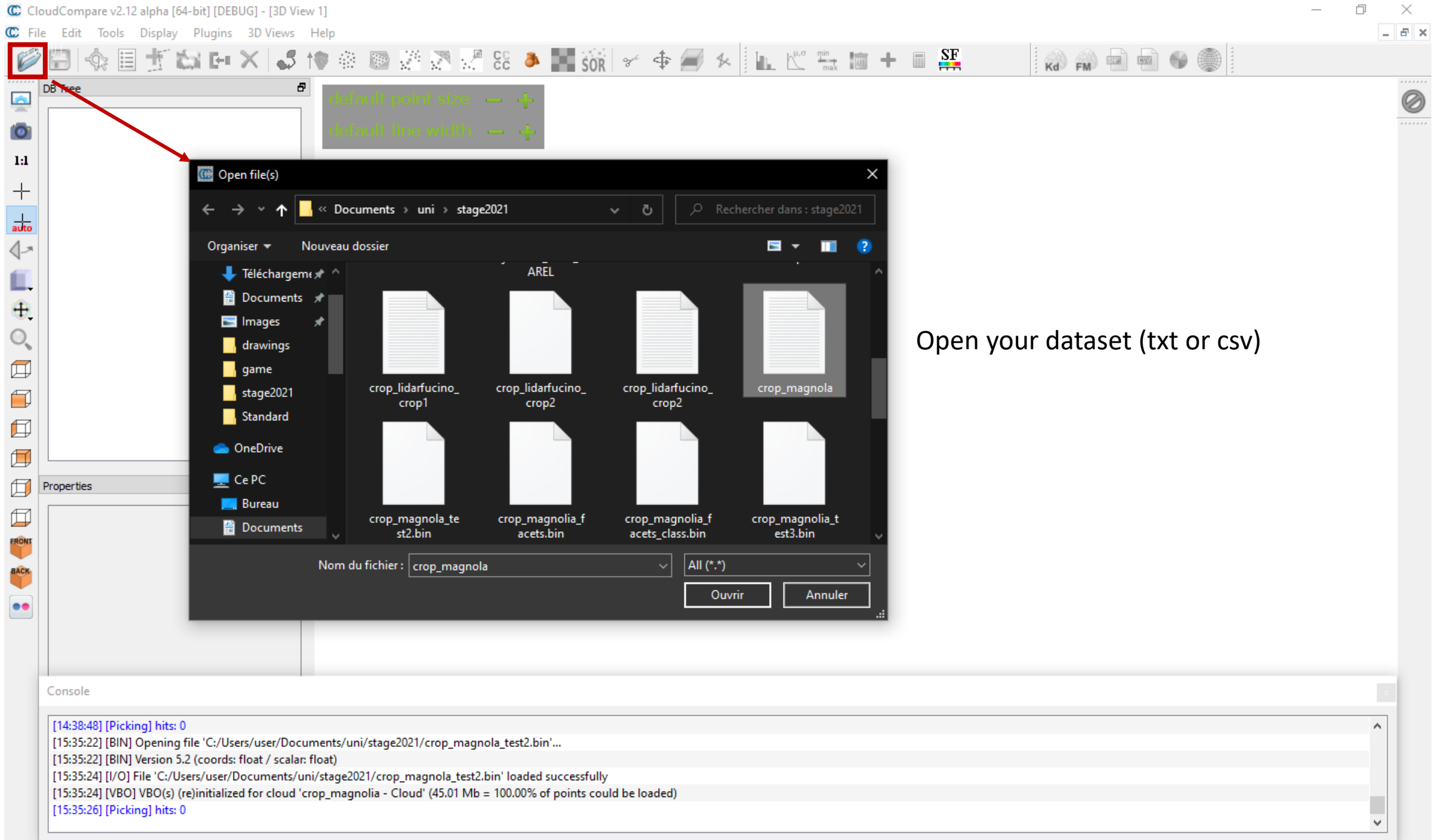


ATM2D Plug-in User Guide

G. Parel - CEREGE



Open your dataset (txt or csv)

CloudCompare v2.12 alpha [64-bit] [DEBUG] - [3D View 1]

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DB Tree

Open Ascii File

Source: C:/Users/user/Documents/uni/stage2021/crop_magnola.txt

Choose an attribute for each column:

1	2	3
X coord. X	Y coord. Y	Z coord. Z
371090.0	4665394.0	1813.1
371091.0	4665394.0	1813.59
371092.0	4665394.0	1814.08
371090.0	4665393.0	1812.99
371091.0	4665393.0	1813.48
371092.0	4665393.0	1813.98
371093.0	4665393.0	1814.5
371094.0	4665393.0	1815.09
371095.0	4665393.0	1815.75
371089.0	4665392.0	1812.35
371090.0	4665392.0	1812.88
371091.0	4665392.0	1813.38
371092.0	4665392.0	1813.88
371093.0	4665392.0	1814.41
371094.0	4665392.0	1815.0

Separator: (ASCII code: 32) whitespace , ; ☐ use comma as decimal character ☐ Show labels in 2D

Skip lines: 0 ☐ extract scalar field names from first line

Max number of points per cloud: 2000.00 Million

Apply Apply all Cancel

Console

[14:38:48] [Picking] hits: 0

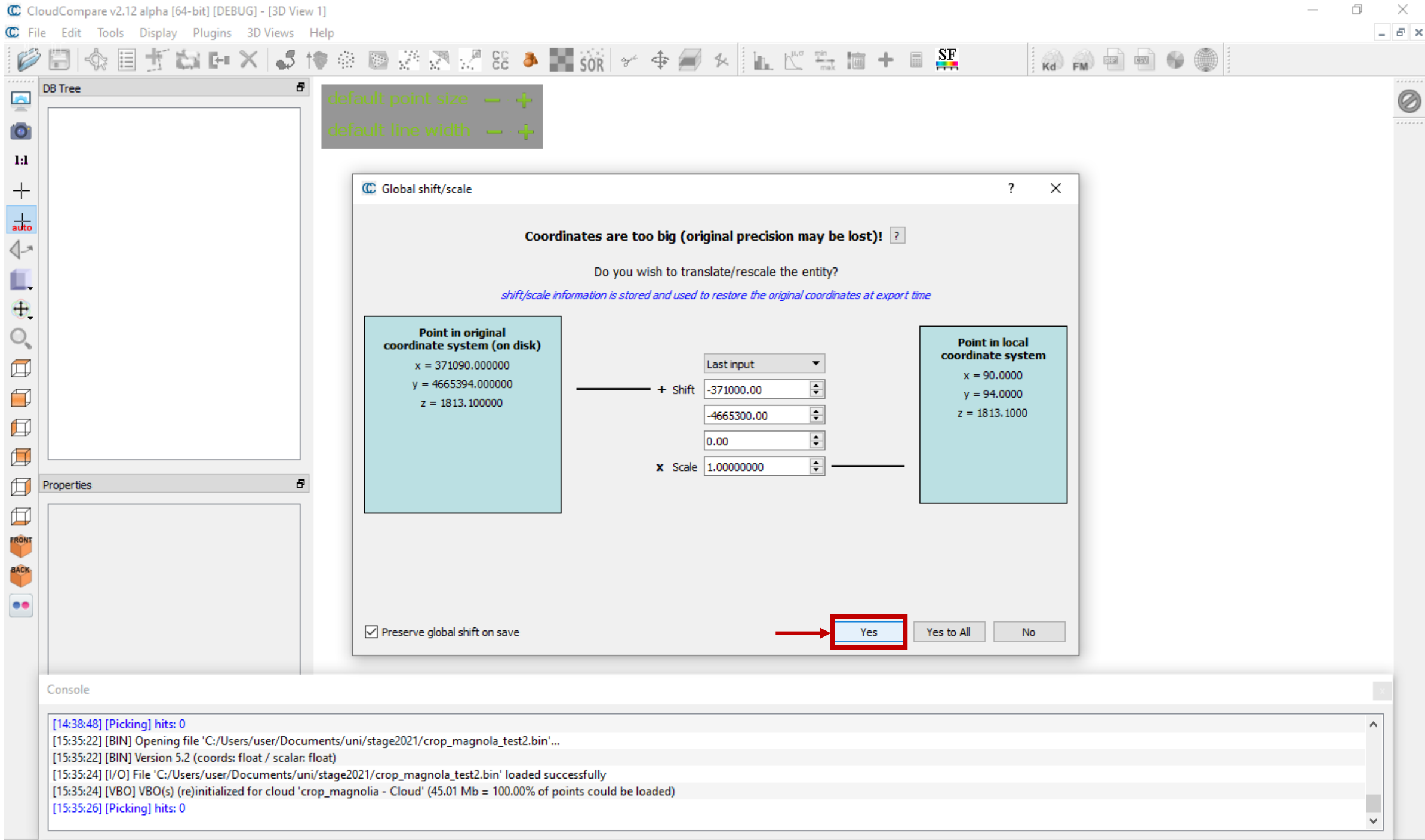
[15:35:22] [BIN] Opening file 'C:/Users/user/Documents/uni/stage2021/crop_magnola.txt' successfully

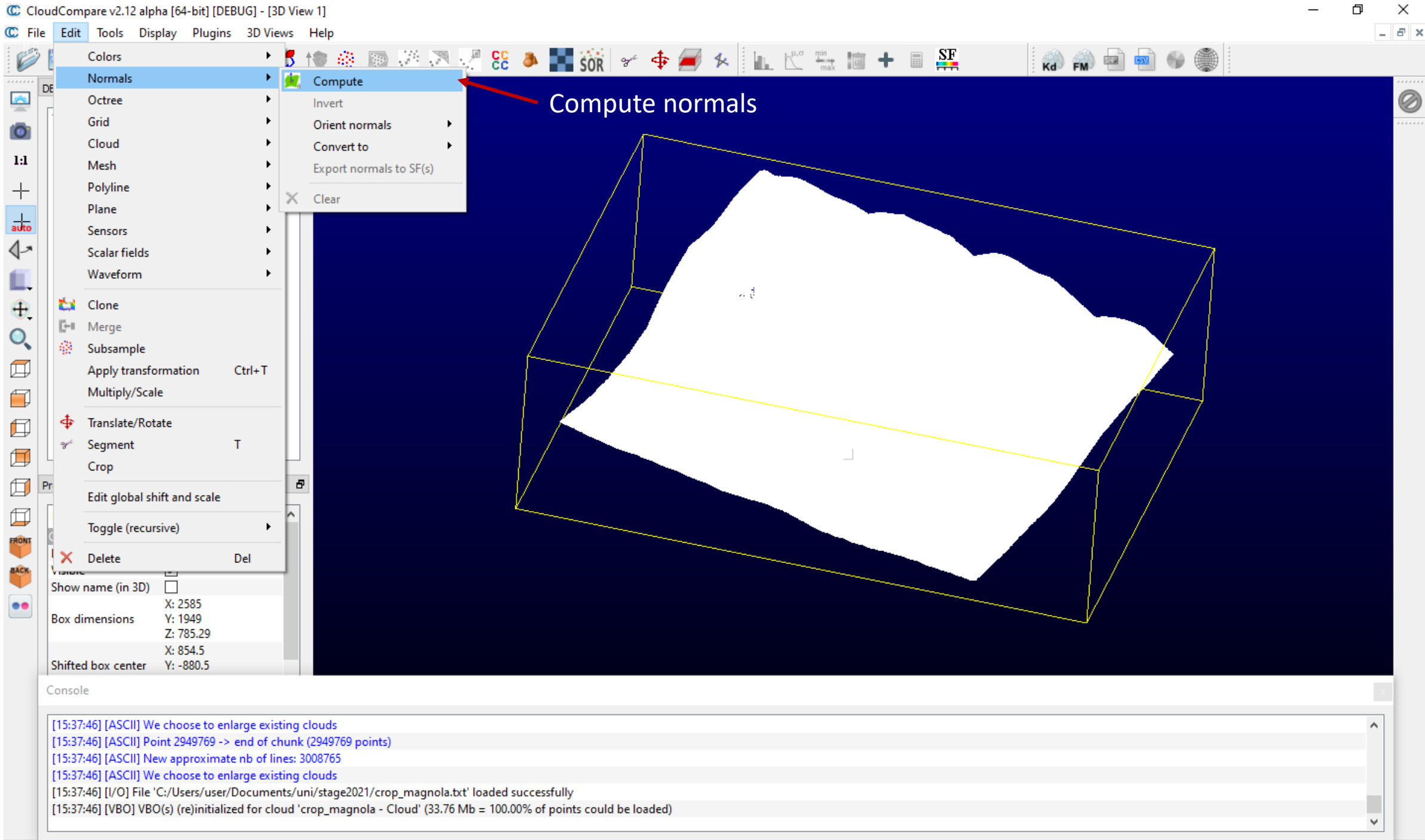
[15:35:22] [BIN] Version 5.2 (cloud format)

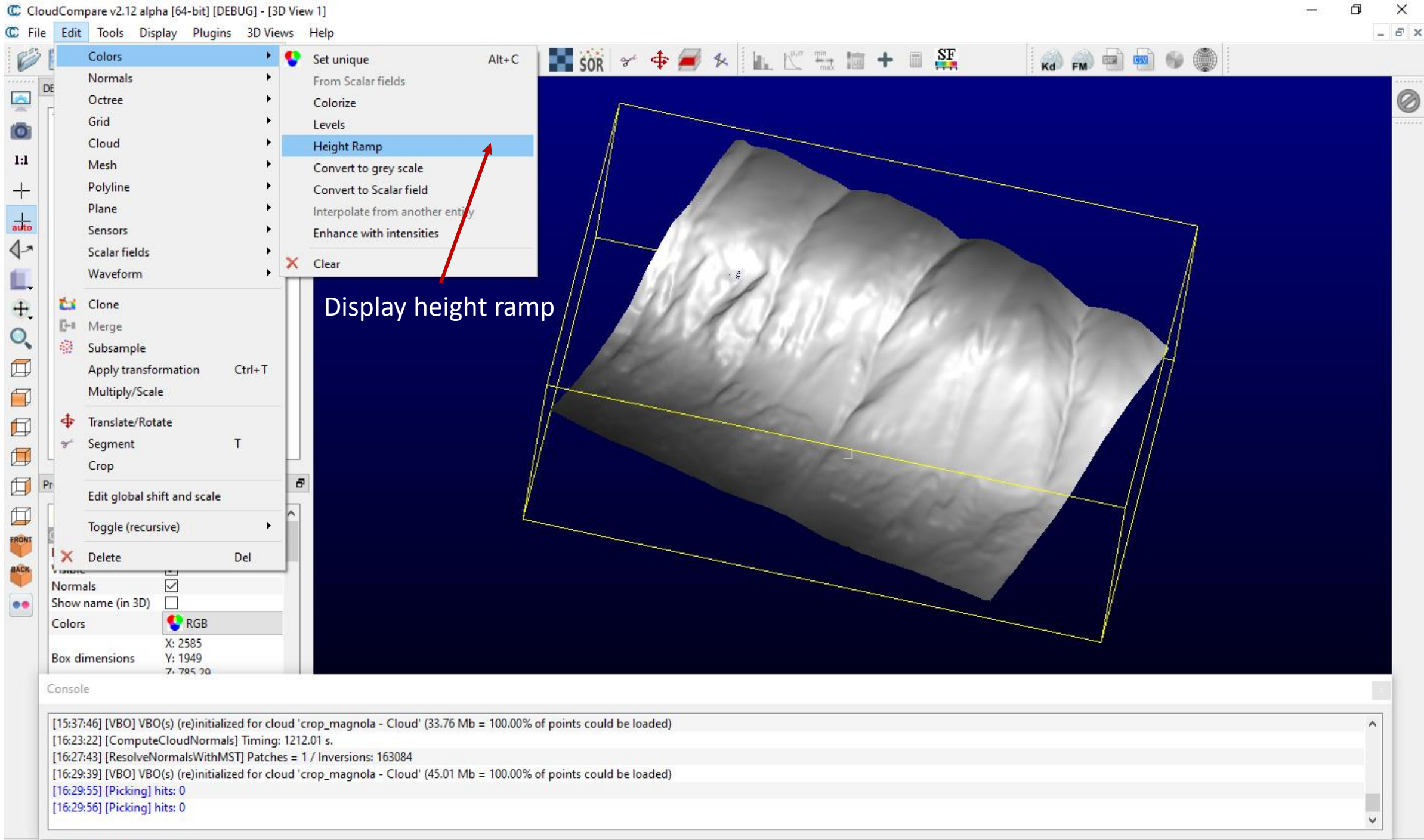
[15:35:24] [I/O] File 'C:/Users/user/Documents/uni/stage2021/crop_magnola_test2.bin' loaded successfully

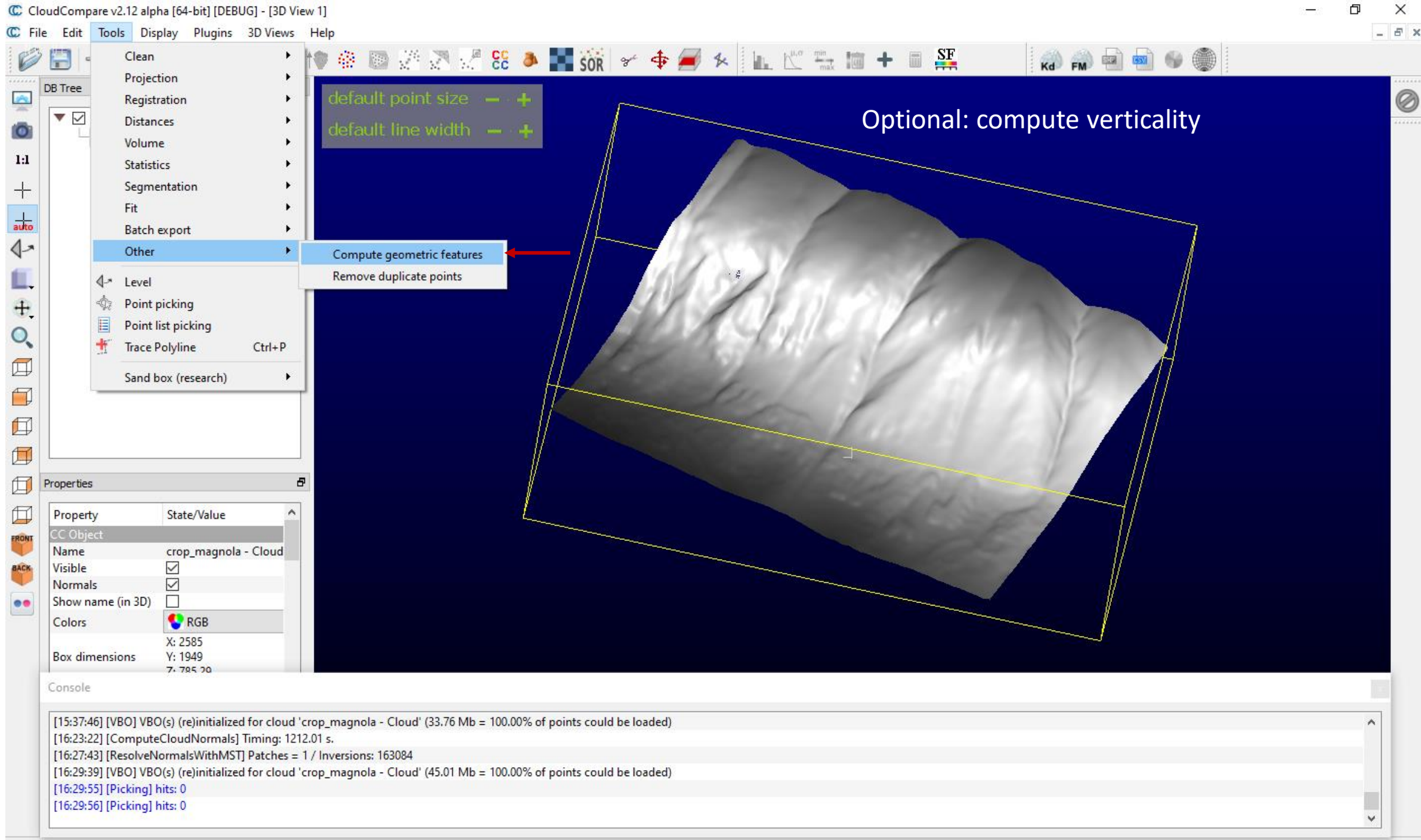
[15:35:24] [VBO] VBO(s) (re)initialized for cloud 'crop_magnolia - Cloud' (45.01 Mb = 100.00% of points could be loaded)

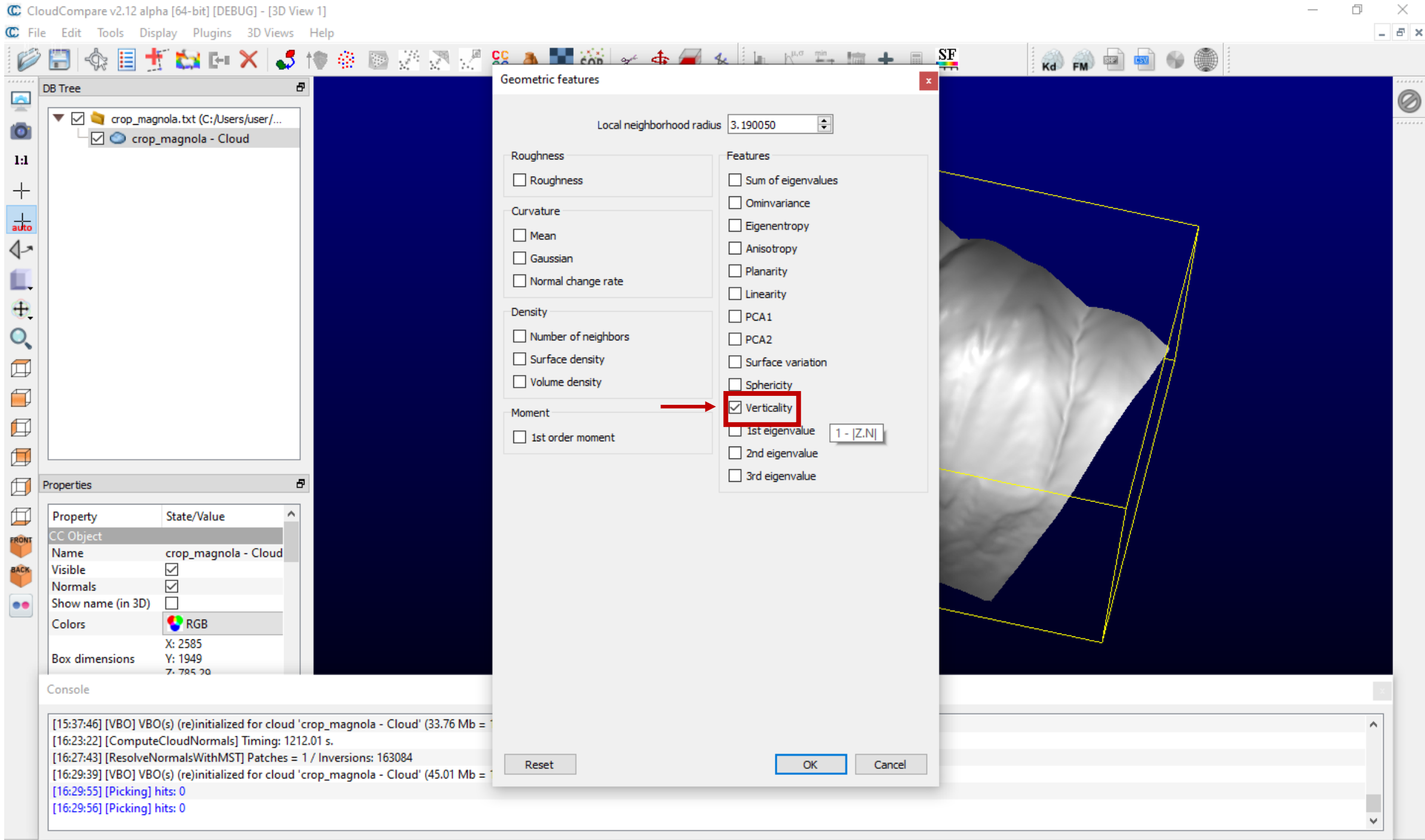
[15:35:26] [Picking] hits: 0

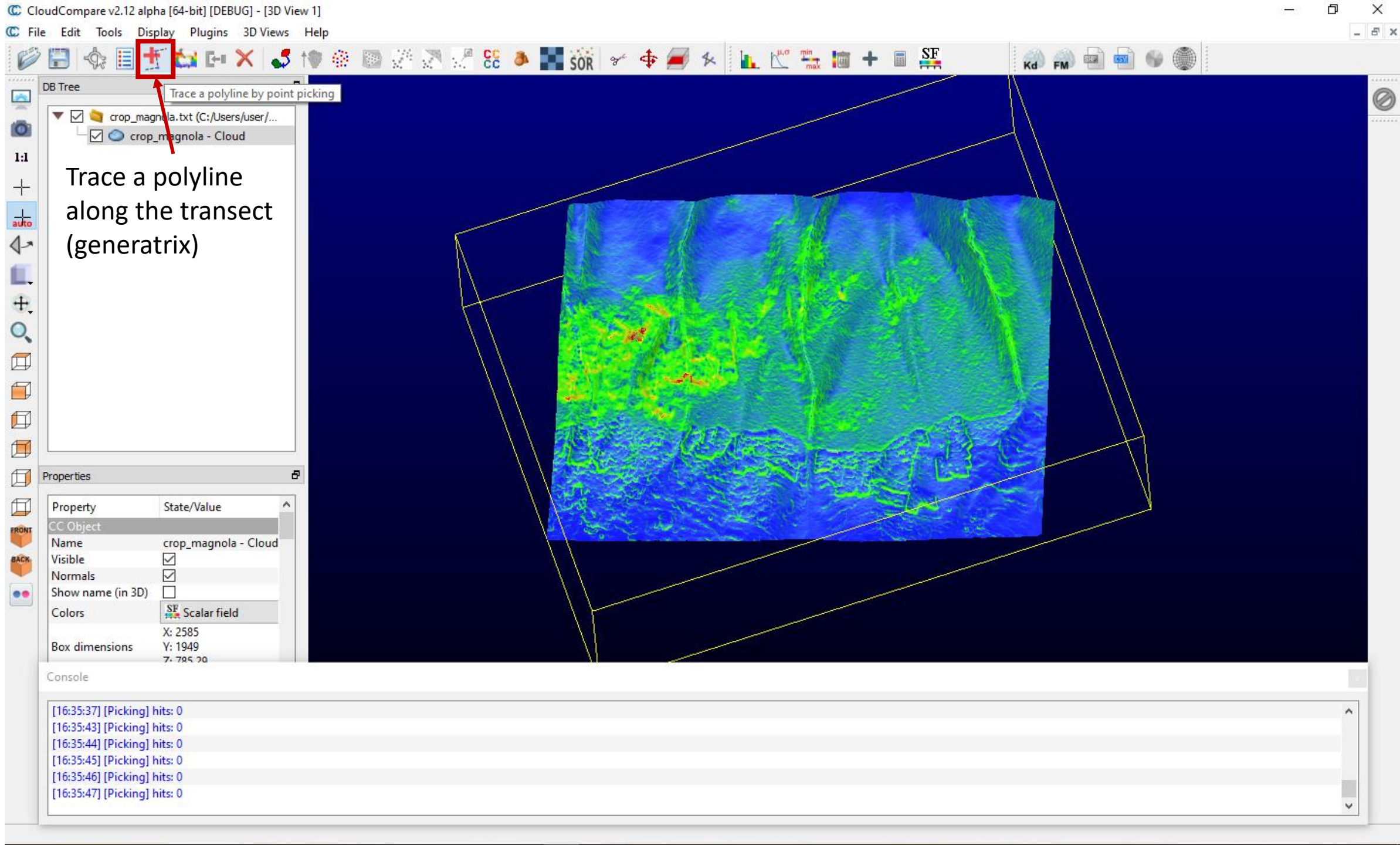


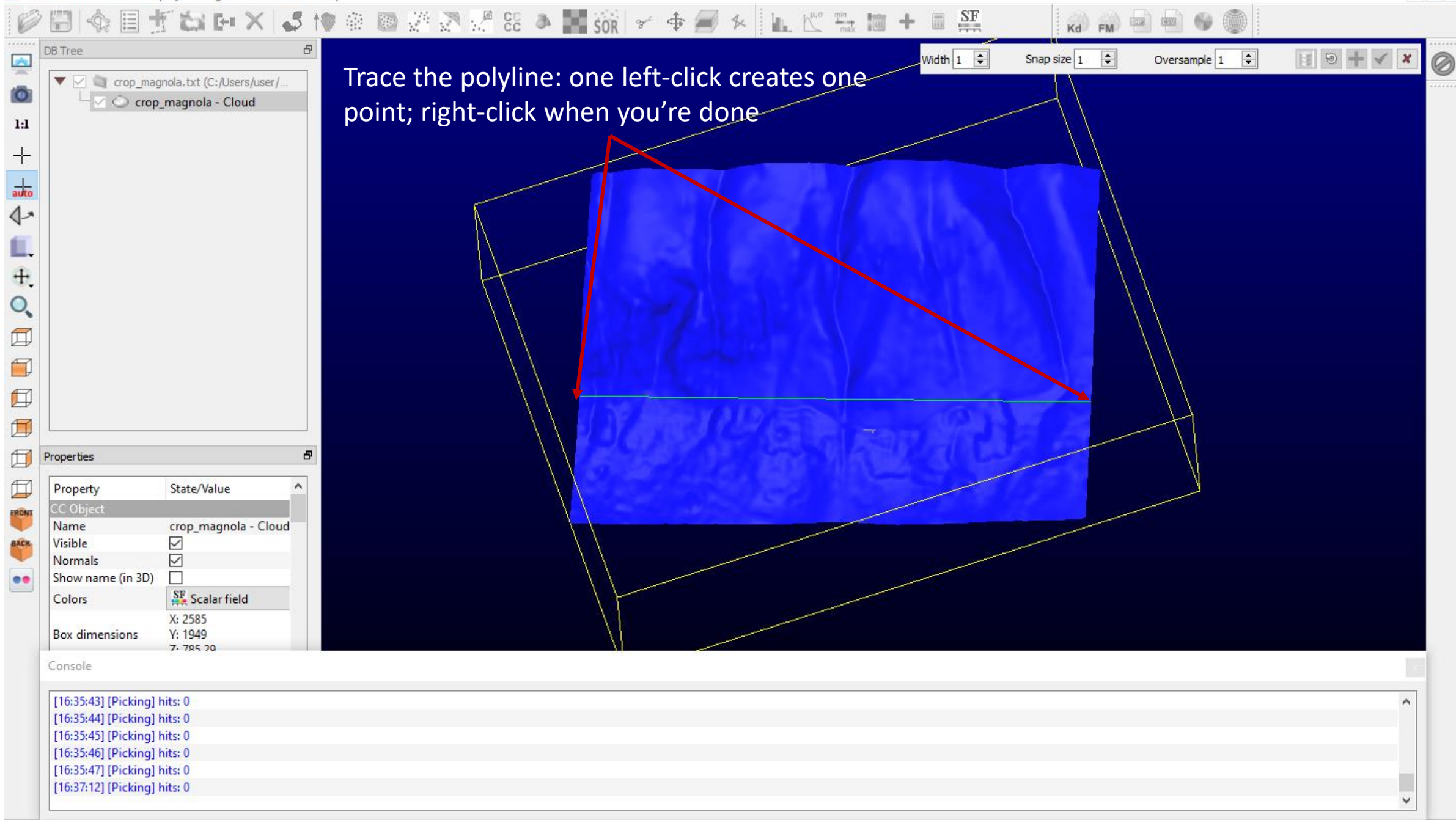


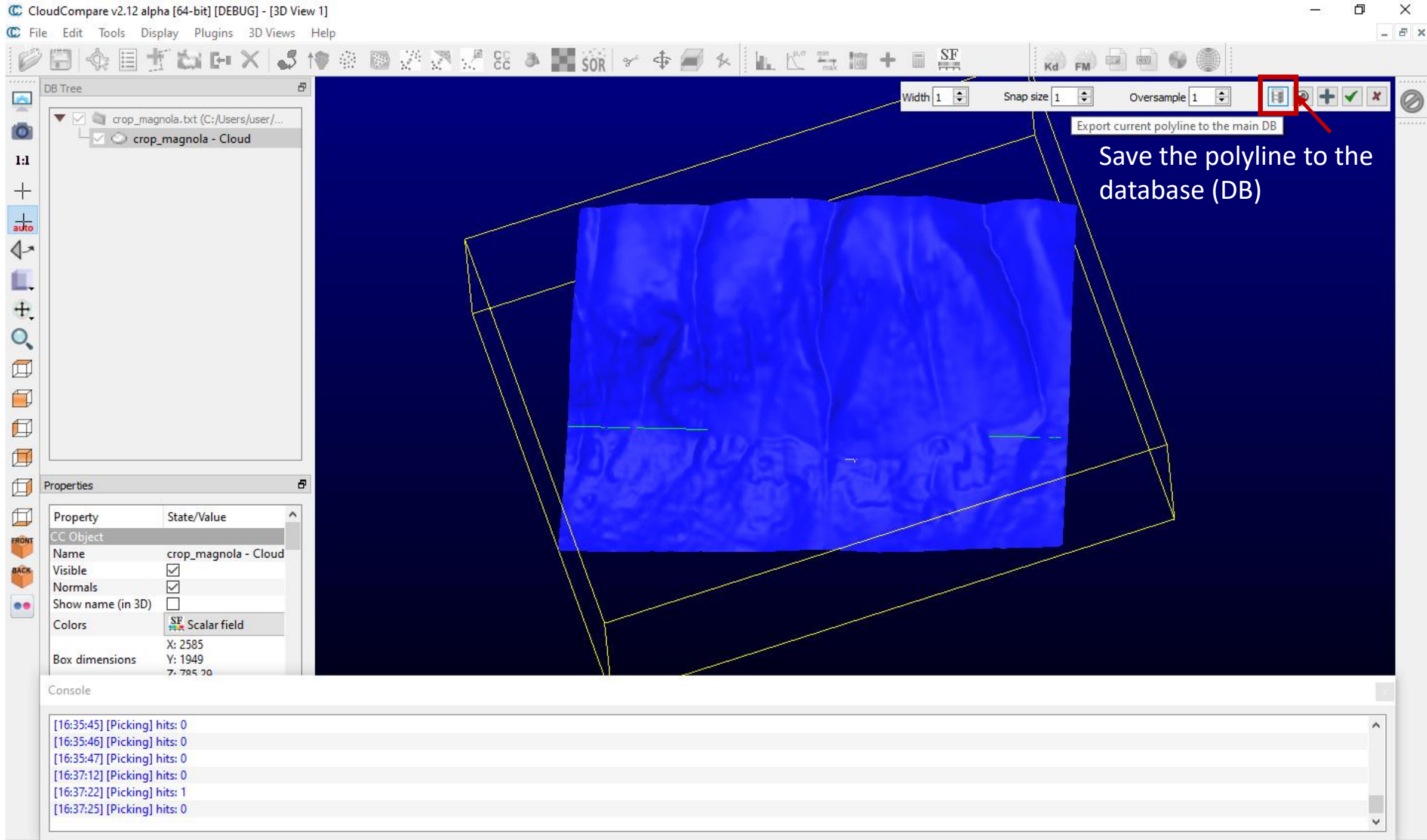


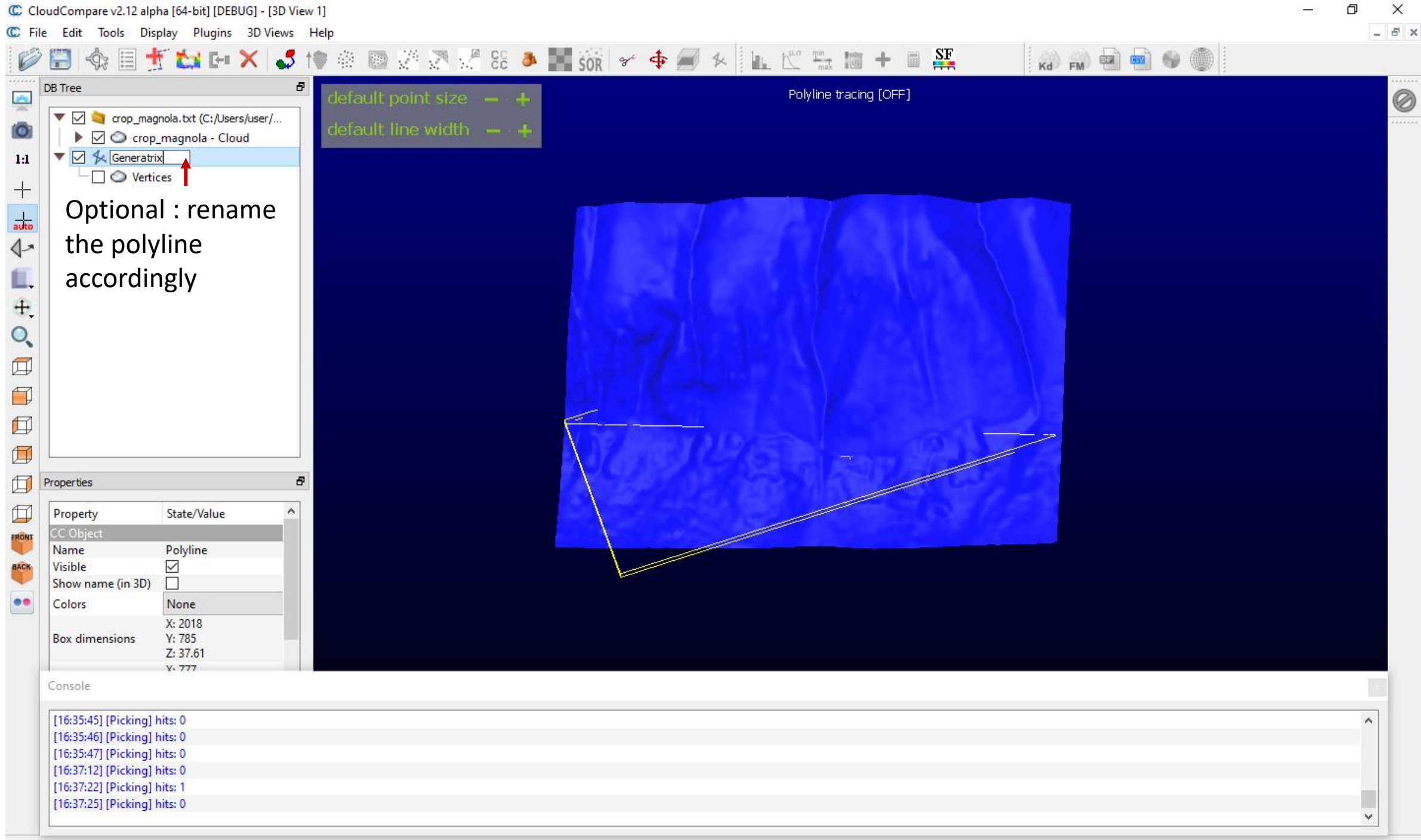


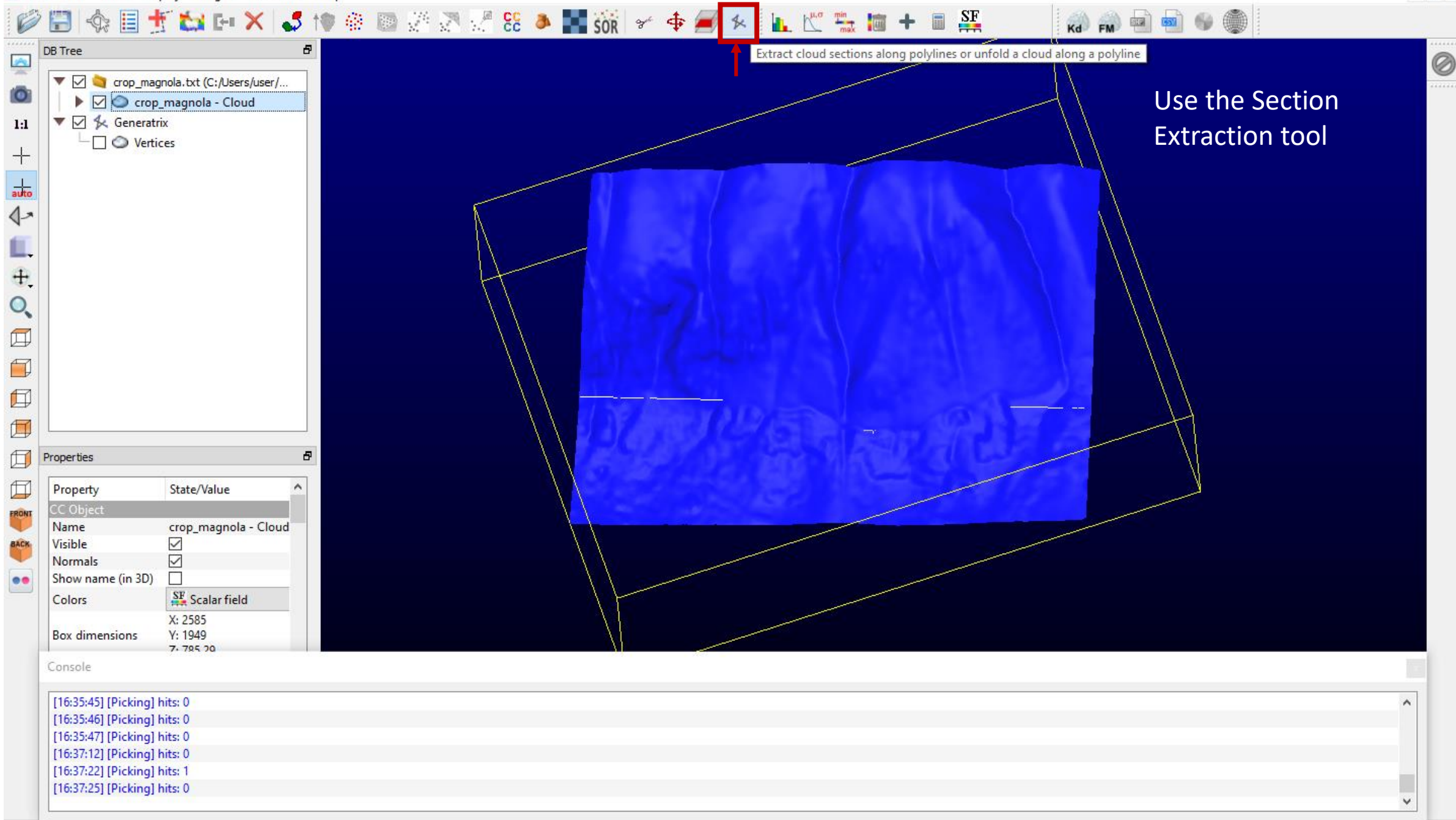


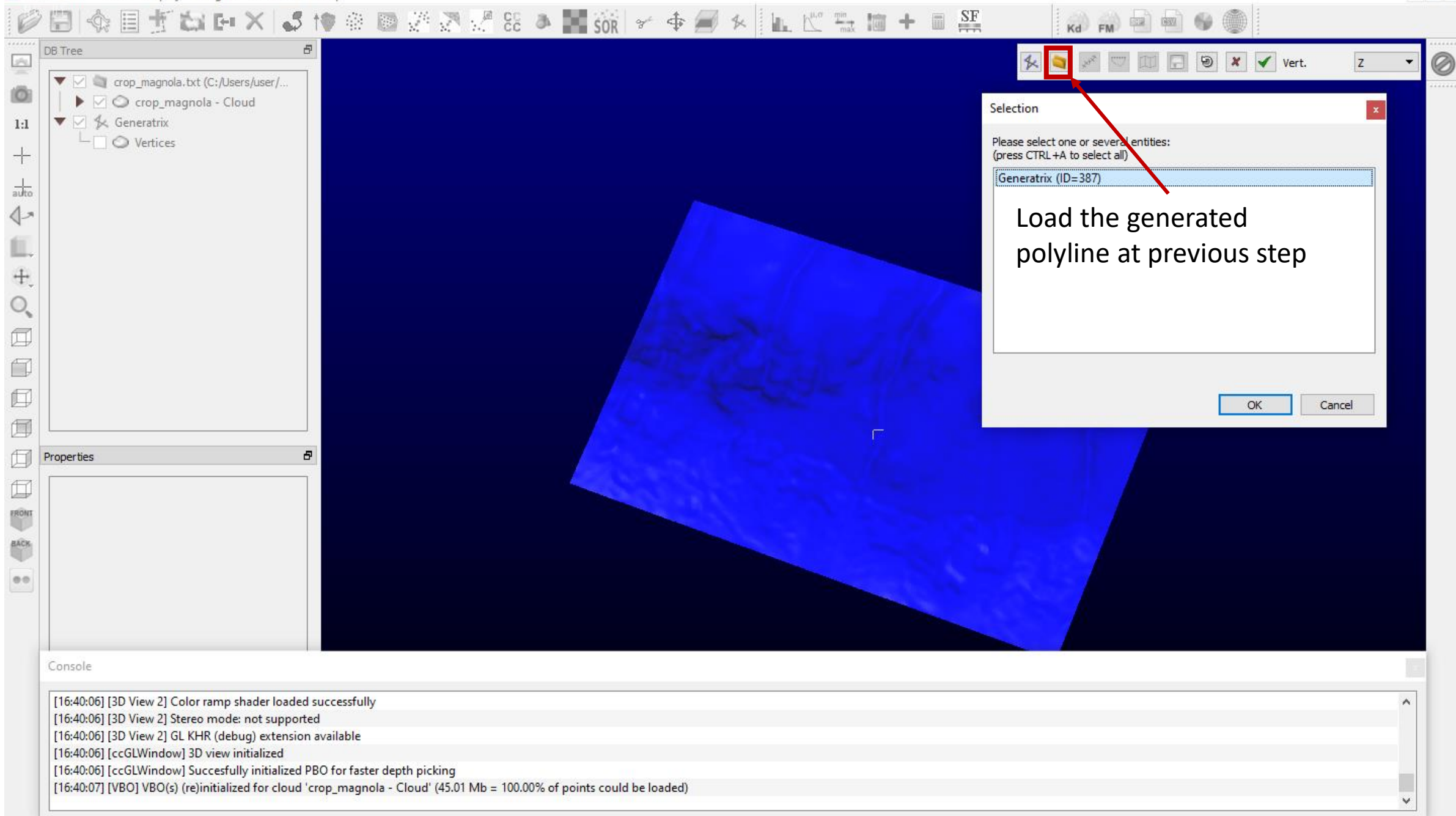


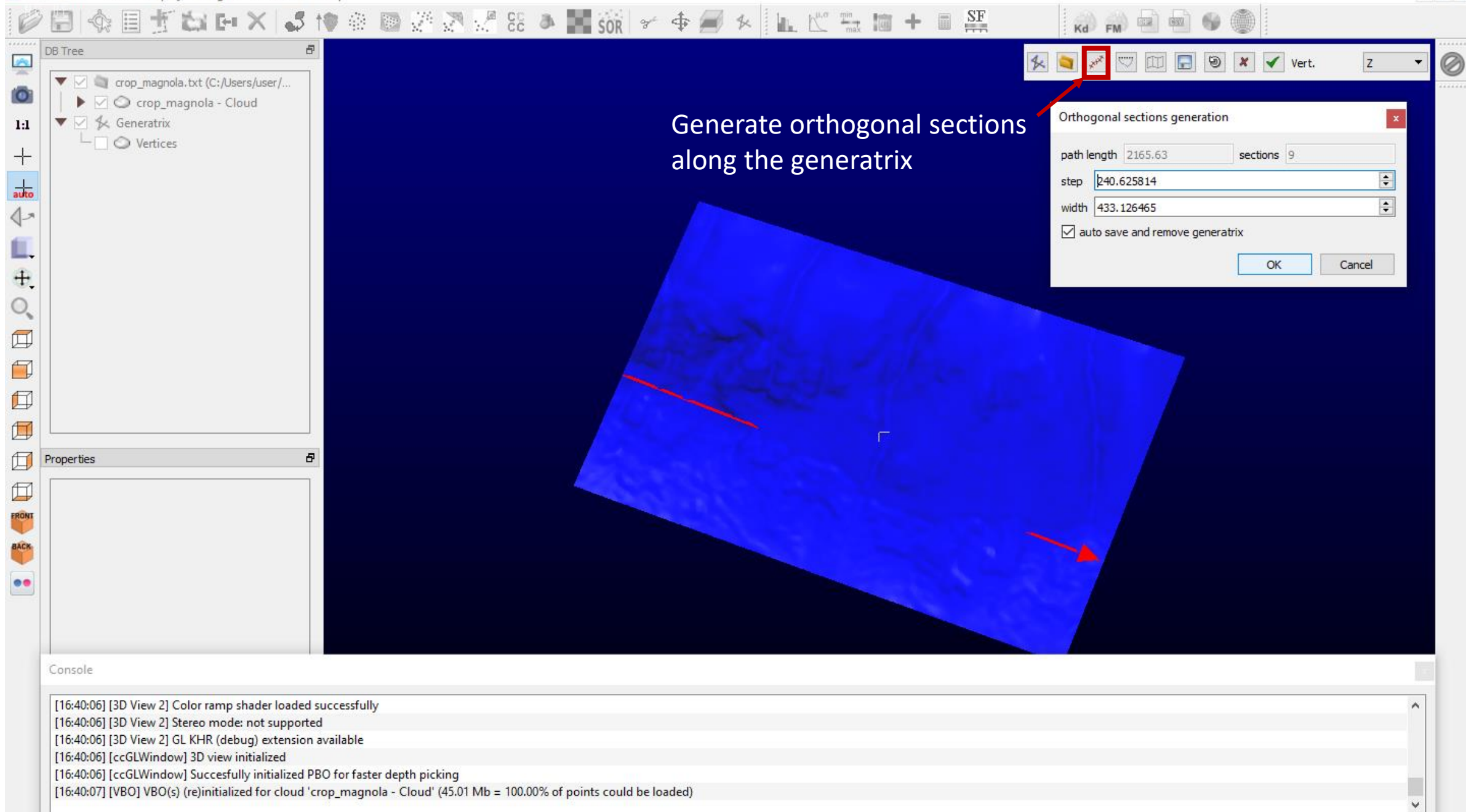


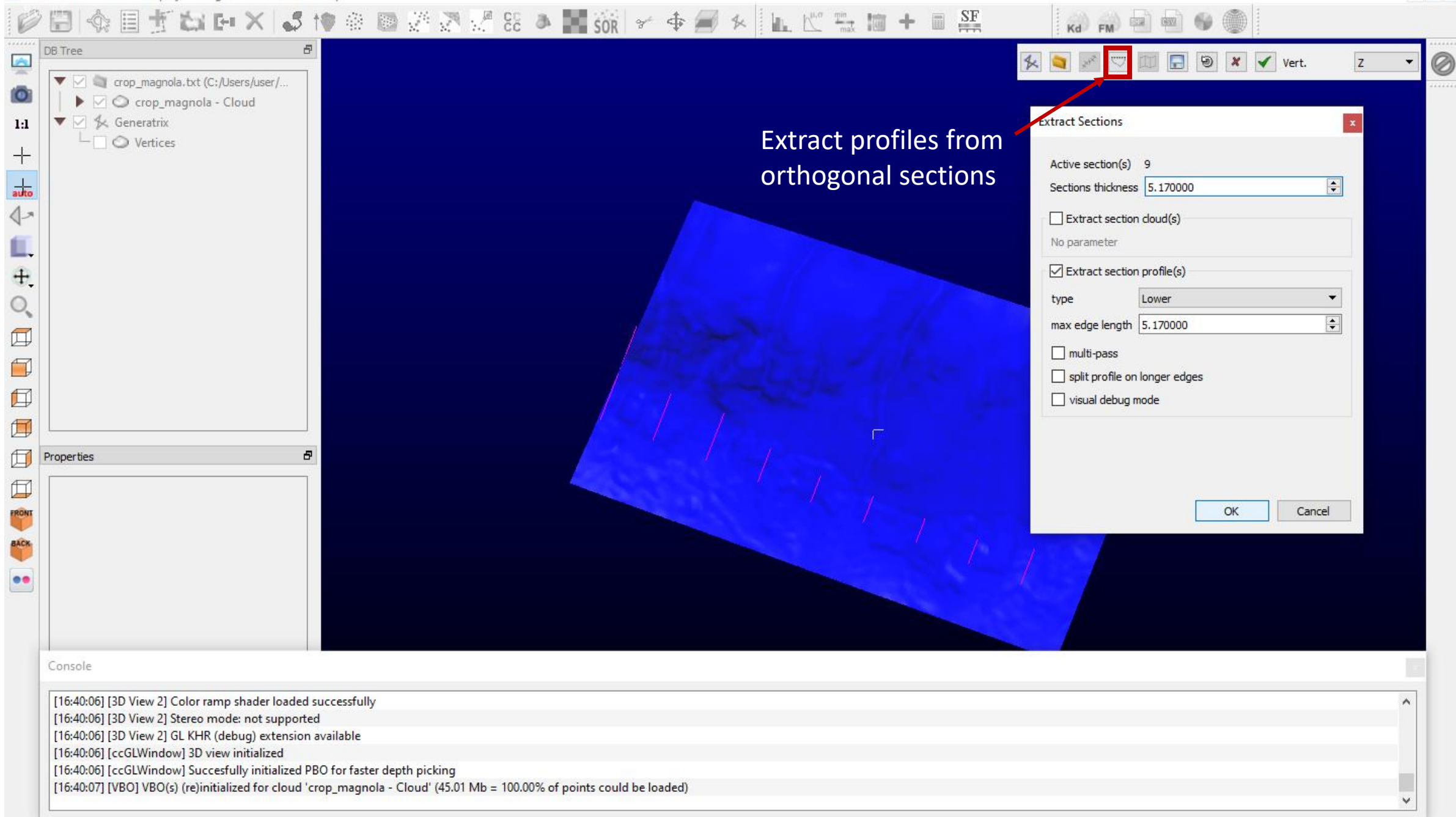




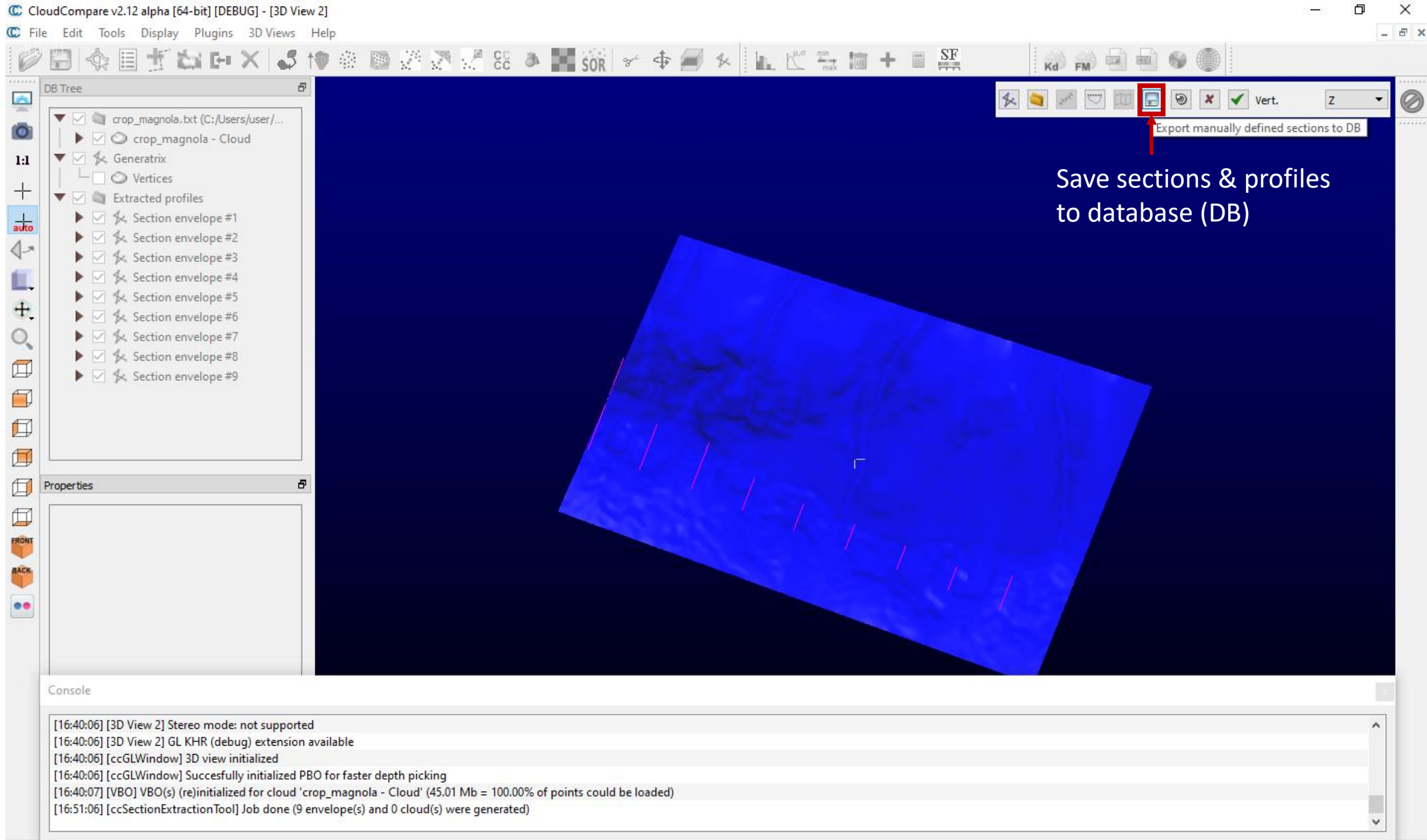


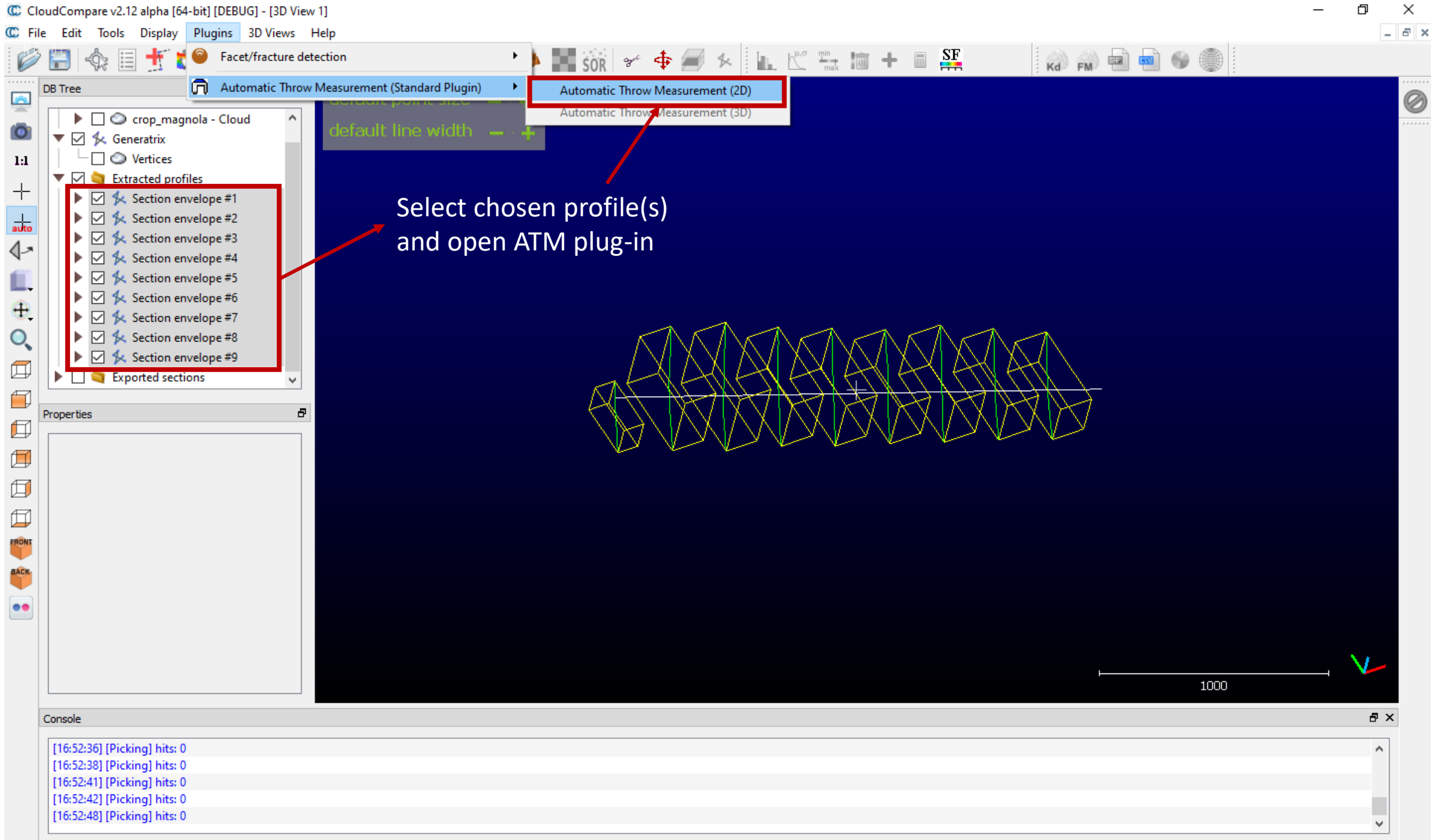


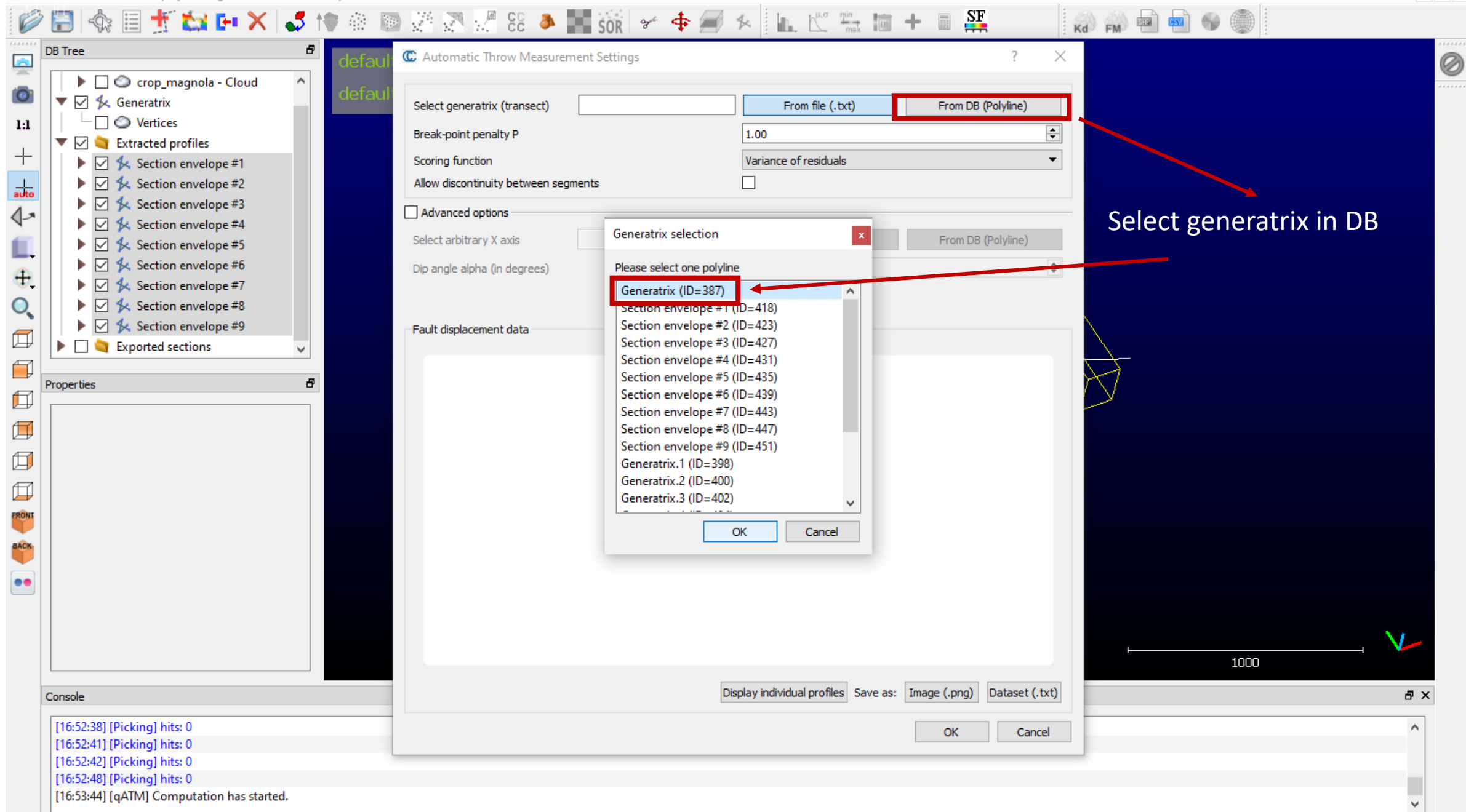


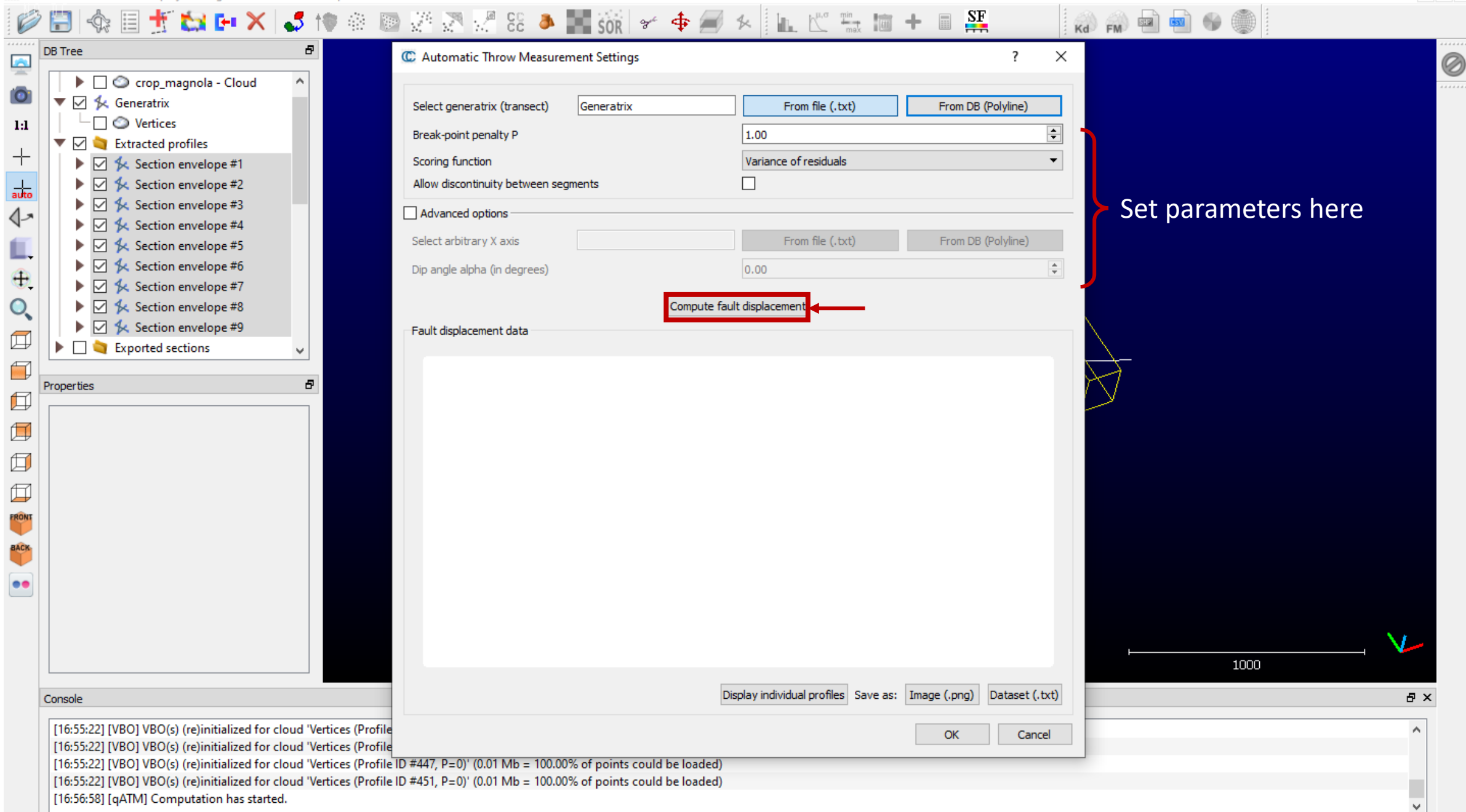


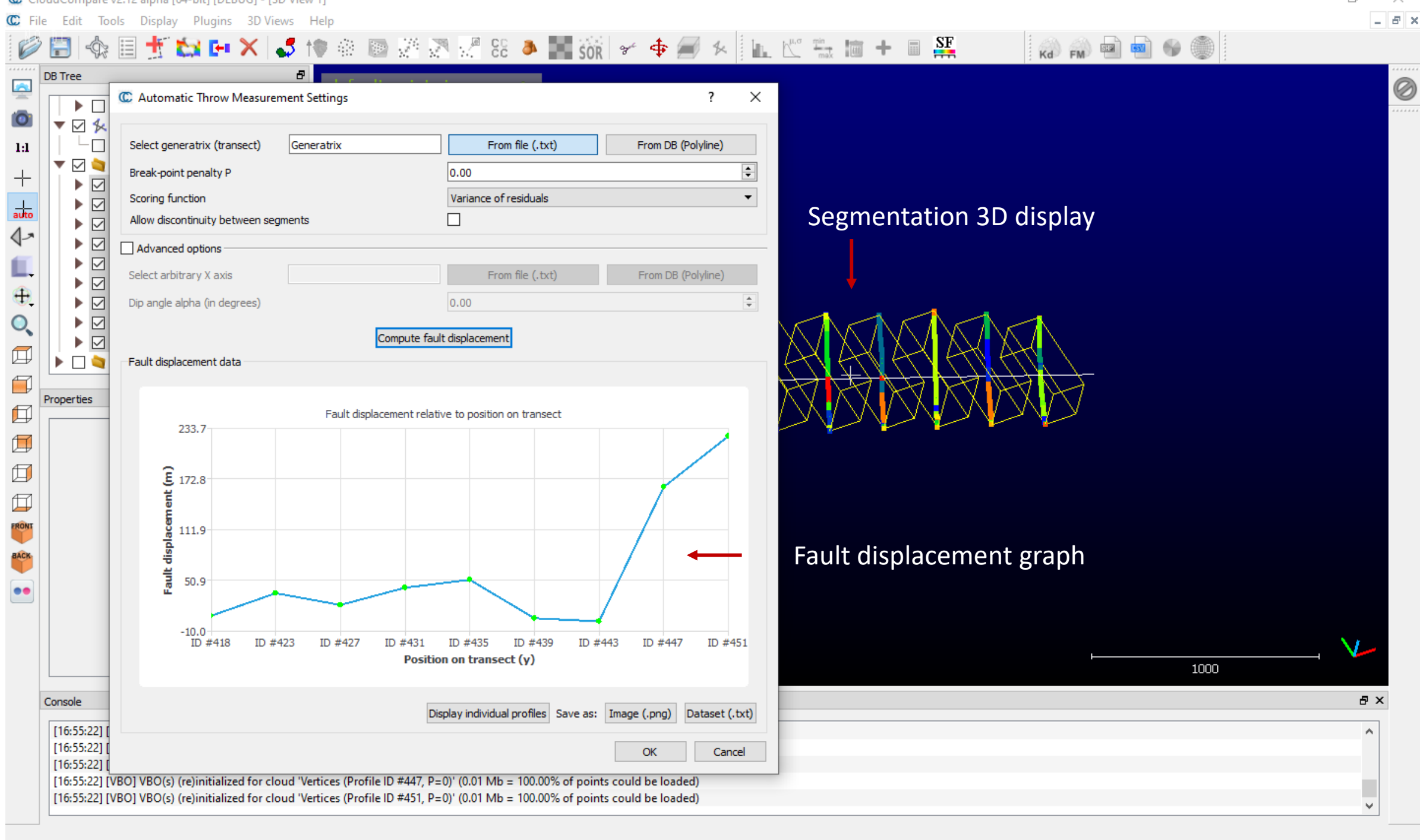
Extract profiles from
orthogonal sections

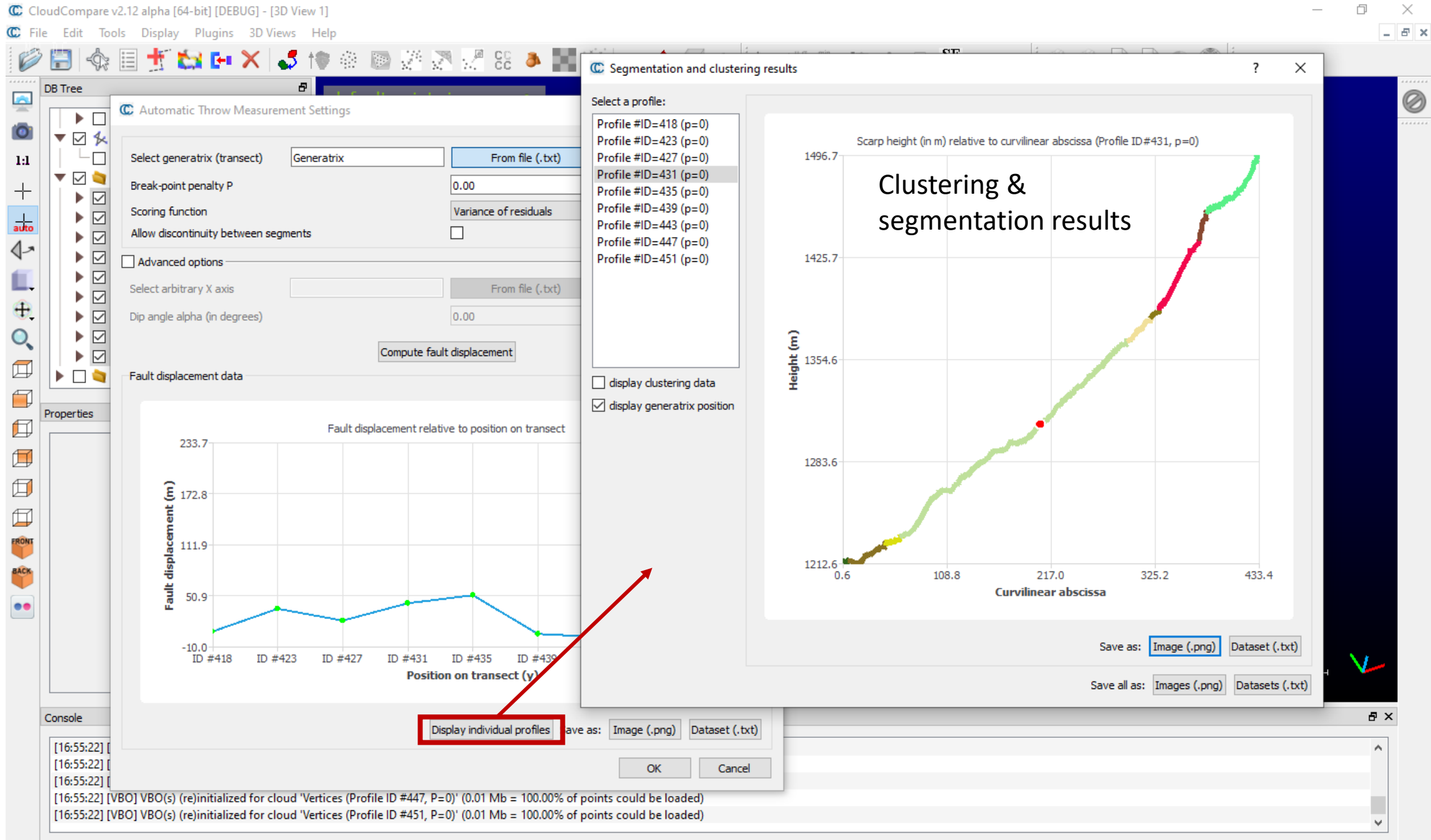












CloudCompare v2.12 alpha [64-bit] [DEBUG] - [3D View 1]

File Edit Tools Display Plugins 3D Views Help

DB Tree

- Extracted profiles
 - Section envelope #1
 - Section envelope #2
 - Section envelope #3
 - Section envelope #4
 - Section envelope #5
 - Section envelope #6
 - Section envelope #7
 - Section envelope #8
 - Section envelope #9
- Exported sections
- Polyline
 - Vertices (Profile ID #418, P...
- Polyline

Properties

Property	State/Value
Shifted box center	X: -260.382 Y: -711.962 Z: 1249.71
Global box center	X: 370739.617737 Y: 4664588.037720 Z: 1249.709961
Info	Object ID: 418
Current Display	3D View 1
Polyline	
Vertices	311
Length	328.945
Line width	Default Width
Global shift	[-371000.00;-4665300.0]

Console

```
[16:55:22] [VBO] VBO(s) (re)initialized for cloud 'Vertices (Profile ID #439, P=0)' (0.01 Mb = 100.00% of points could be loaded)
[16:55:22] [VBO] VBO(s) (re)initialized for cloud 'Vertices (Profile ID #443, P=0)' (0.01 Mb = 100.00% of points could be loaded)
[16:55:22] [VBO] VBO(s) (re)initialized for cloud 'Vertices (Profile ID #447, P=0)' (0.01 Mb = 100.00% of points could be loaded)
[16:55:22] [VBO] VBO(s) (re)initialized for cloud 'Vertices (Profile ID #451, P=0)' (0.01 Mb = 100.00% of points could be loaded)
[16:56:58] [qATM] Computation has started.
```

Each profile has a unique ID; those IDs are used in plug-in outputs to identify profiles

