



***Al-Kitab University
College Of Engineering
Department Surveying Engineering***

***Extract Contour Lines And DEM From Google
Earth***

PREPARED BY:

Shwan Ali Smail

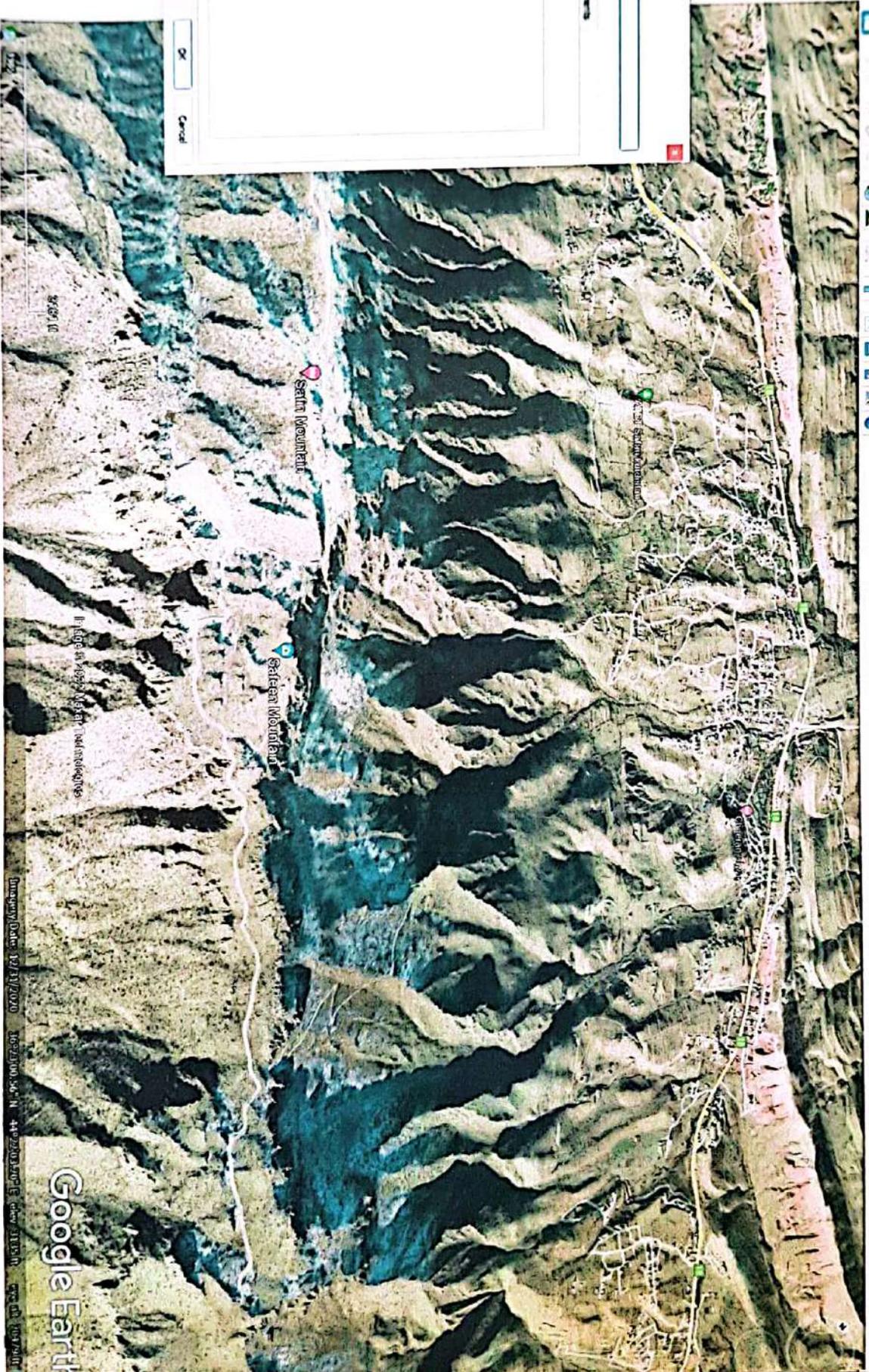
SUBMITTED TO

Dr. ADIL MUHAMEED

2021 – 2022

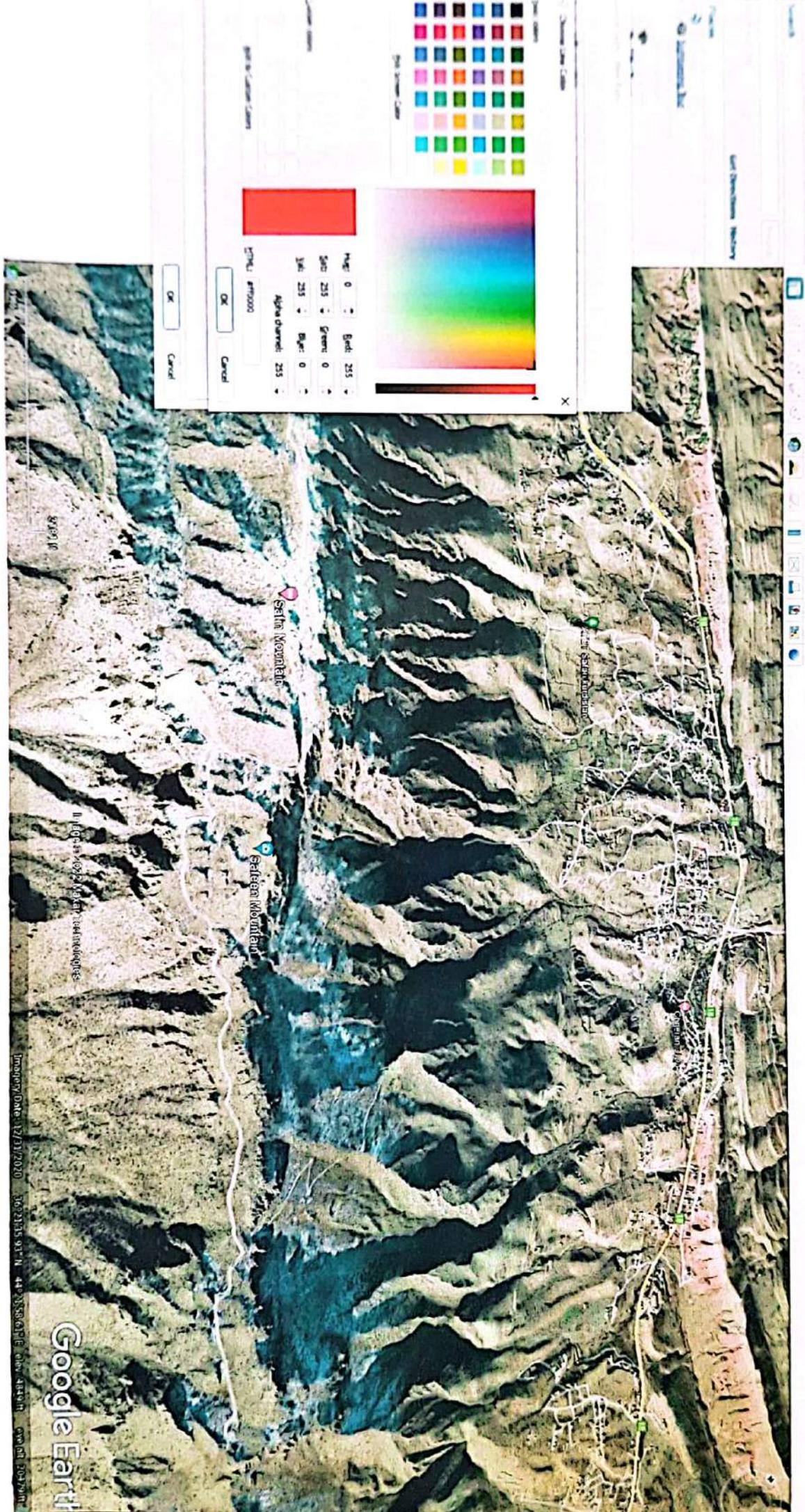


- 3D
- Street View
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- Search
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- Share
- Link
- Fullscreen
- Help
- Feedback



OK Cancel

Google Earth
Imagery Date: 12/17/2020 106°21'00.546" N 44°22'03.807" E elev: 1135 ft 07/03/2011



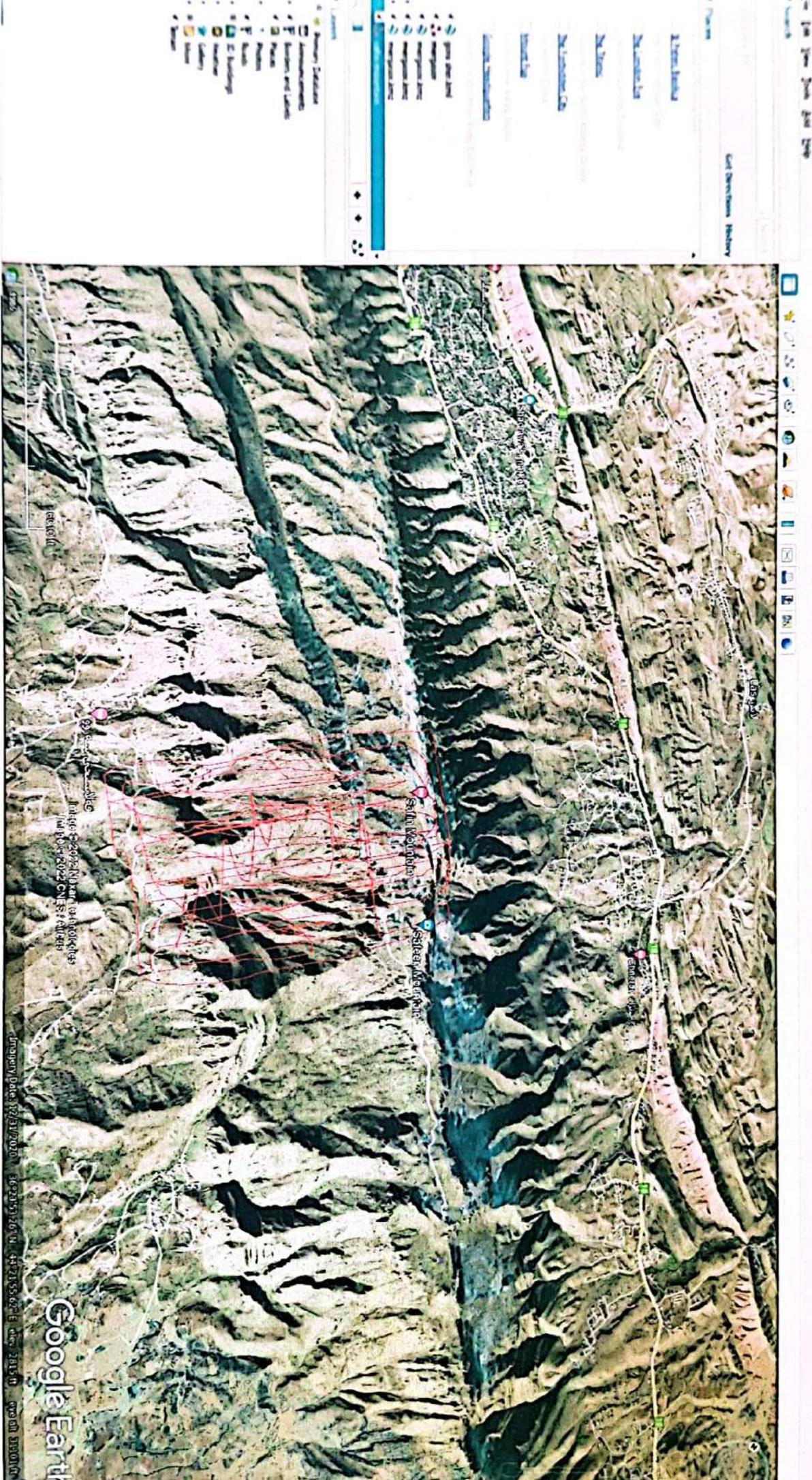


OK Cancel

Map Scale 1:1 200% 200%

Map Scale 1:1 200% 200%





File Explorer window showing the contents of a folder named "Kuvvetler".

Name	Tipi	Değiştirildi
20 Yıllık	File folder	5/1/2022 8:00 PM
Ango2 Programı	File folder	1/23/2022 3:35 PM
data set verileri	File folder	1/24/2022 1:06 AM
gizli	File folder	3/25/2022 3:00 PM
harita	File folder	5/28/2022 1:50 PM
harita	File folder	1/1/2022 9:13 PM
harita	File folder	5/25/2022 8:45 AM
harita	File folder	5/28/2022 10:00 PM
harita	File folder	5/21/2022 10:36 PM
harita	File folder	5/14/2022 7:18 PM
harita	File folder	1/13/2022 8:30 AM

Buttons: Open, Cancel





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Find "Missing" Elevations with GPS Visualizer

The problem: Sometimes you have geographic data that consists only of latitudes and longitudes, but you want to know the altitudes as well — because, for example, you want to colorize points by height above sea level, or draw a profile of a track. Here are some common reasons why you might have "flat" or incomplete data:

- Your GPS device does not log altitude, or you had poor satellite reception when you recorded the track.
- Your GPS device does log altitude, but it's not very accurate.
- You drew a track using the drawing tools in Google Earth or a similar application, like GPS Visualizer's **Sandbox**.
- You have a KML file that came from Google Maps or Google Earth's "driving directions" feature.
- You created a route in Google Maps and have the URL of that route.
- You have an NMEA log file that contains only "GPRMC" sentences, not "GPGGA."

Solution #1: DEM database

GPS Visualizer's **map, profile, and conversion** programs have the ability to instantly add elevation data — from a DEM (digital elevation model) database — to any type of GPS file. If you just want to draw a profile, or convert a single data file to plain text or GPX while adding elevation, you can use the simple form right here:

Upload a file: No file chosen
Or provide a URL:

Output: GPX file
 Units: Metric

Or look in GPS Visualizer's various input forms for the menu called "Add DEM elevation data," and choose one of the elevation databases (described in the table below). Complete copies of the SRTM3 and USGS NED databases, as well as a large number of SRTM1 and ASTER files, are stored on GPS Visualizer's server — that's more than 250GB of raw data.

Here the elevation-adding feature will erase any existing altitude data (for example, from a GPS) that might already be in your file. Often, this is desirable; profiles made with DEM data are usually "smoother" looking than GPS, and typically contain fewer gaps or suspicious readings. (Speaking of gaps, there are a few in NASA's SRTM data, and that's unavoidable. If GPS Visualizer turns into one of these, it will not overwrite those elevations in your input data.)



(Click for more DEM coverage maps)

DEM data sources

NED (USGS) The U.S. Geological Survey's excellent National Elevation Dataset covers the United States, Canada, and Mexico. 1 arc-second (~30-meter) horizontal resolution is available in most areas (NED1). For Alaska, 60-meter data is also available (NED2). USGS also produces 1/3-arc-second data (NED13), but because those files are nine times larger than NED1 files, only a few mountainous areas (Cascade Range, Sierra Nevada, southern Utah) are available on GPS Visualizer.

SRTM1 (NASA) NASA's SRTM1 database (from the Space Shuttle Radar Topography Mission) has a resolution of about 30 meters. Previously, SRTM1 data was only available for the United States (and was not very useful because NED1 is generally better) but recently NASA has released SRTM1 files for the entire world. GPS Visualizer's server does not contain the full global dataset, but it does contain all of Europe, Central America, Japan, South Korea, Taiwan, and New Zealand, as well as most of Australia and parts of South Africa. Additional locations may be installed upon request.

Support GPS Visualizer

If you find the utilities on GPSVisualizer.com interesting, time-saving, or just plain fun, you can say "thanks" — and encourage further development — by clicking the button above and making a contribution via PayPal.



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Upload a file: No file chosen

Or provide a URL:

Output:

-or- Units:

Or, look in GPS Visualizer's various input forms for the menu called "Add DEM elevation data," and choose one of the elevation databases (described in the table below). Complete copies of the SRTM3 and USGS NED databases, as well as a large number of SRTM1 and ASTER tiles, are stored on GPS Visualizer's server — that's more than 250GB of raw data.

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Other data sources

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GPS Visualizer

- MAKE A MAP
- Leaflet/Google
- Google Earth
- Draw on a map
- ATLAS/PMC/SVC
- Calculators
- MAKE A PROFILE
- CONVERT A FILE
- Look up elevations
- Altas! Share a map
- GPShub!
- Geocode addresses
- Examples
- Help/FAQ
- About GPSV



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GPS Visualizer output

Your data has been converted to GPX. If something doesn't look like you expected it to, please send an email to bugs-10-20220528120621-22141@gpsvisualizer.com. Right-click on the following link to download the file to your hard drive; you may want to give it a more sensible name.

Download [20220528120621-22141-data.gpx](#)

Donate Help keep GPS Visualizer free

If you're enjoying GPS Visualizer, please support further development by making a contribution via PayPal or checking out my Amazon.com wish list.

The contents of your file are also displayed in this box, if you'd rather cut and paste:

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<gpx version="1.1" creator="GPS Visualizer" https://www.gpsvisualizer.com/
xmlns="http://www.topografix.com/GPX/1/1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.topografix.com/GPX/1/1 http://www.topografix.com/GPX/1/1/gpx.xsd">
<trk>
<name>satfin mountainc/nasee>
<trkseg>
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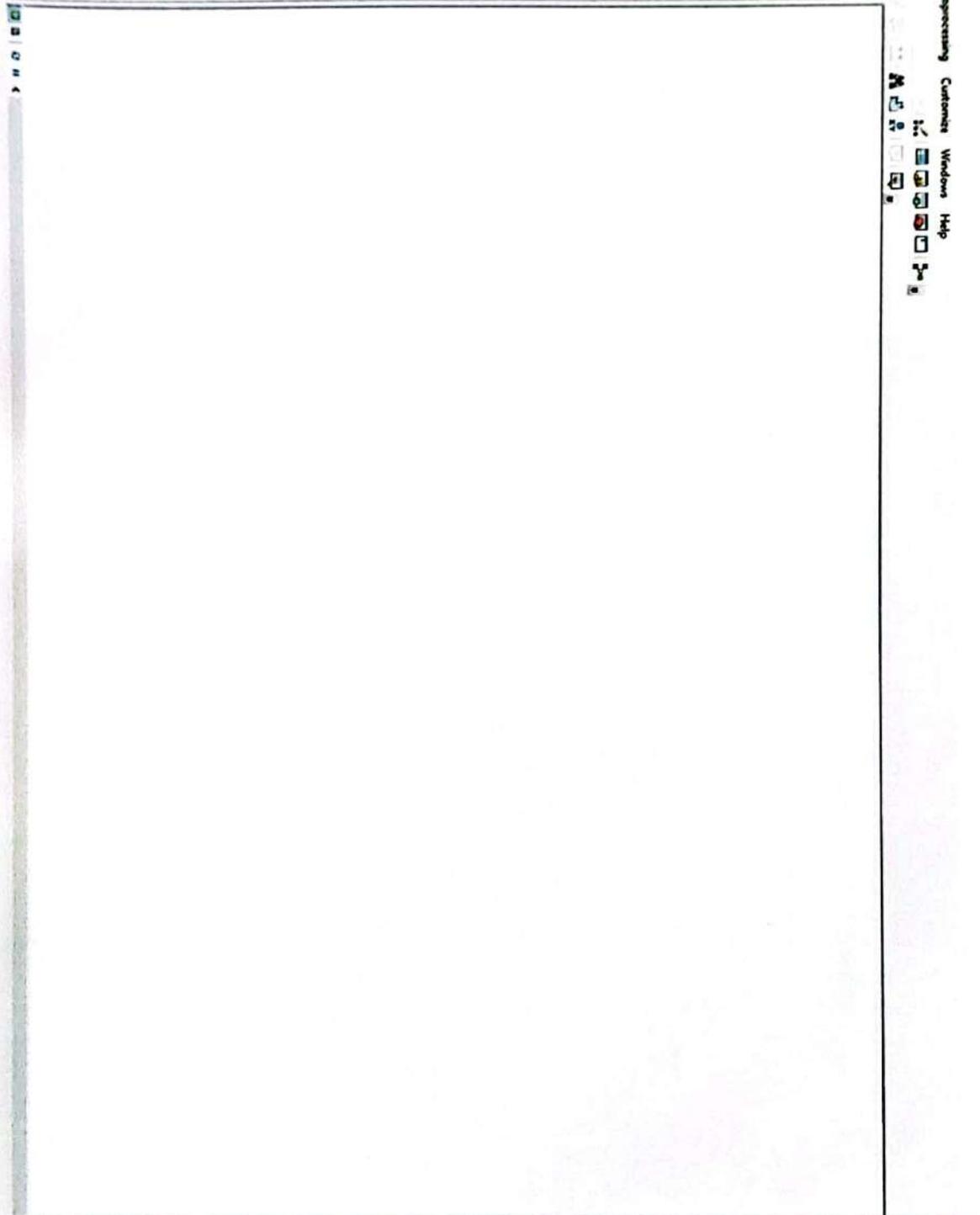
```

Map this data: Leaflet, Google Maps, Google Earth, JPEG map, SVG map, or elevation profile — or go to the map form to set options

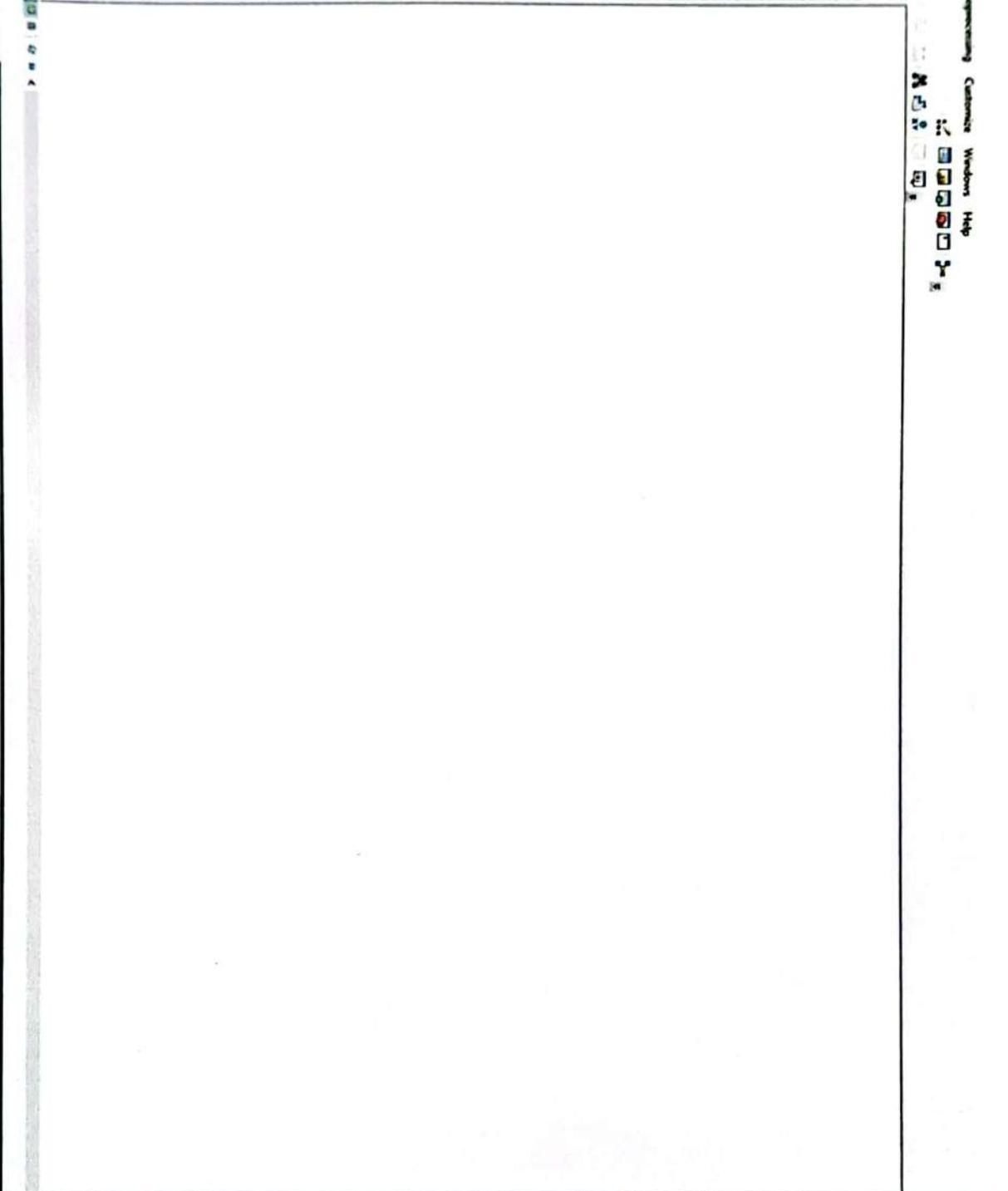
SAVE this trip, ADD photos, & SHARE with others @ **wikiloc**

Return to the "convert" form
Go to the main GPSV main form

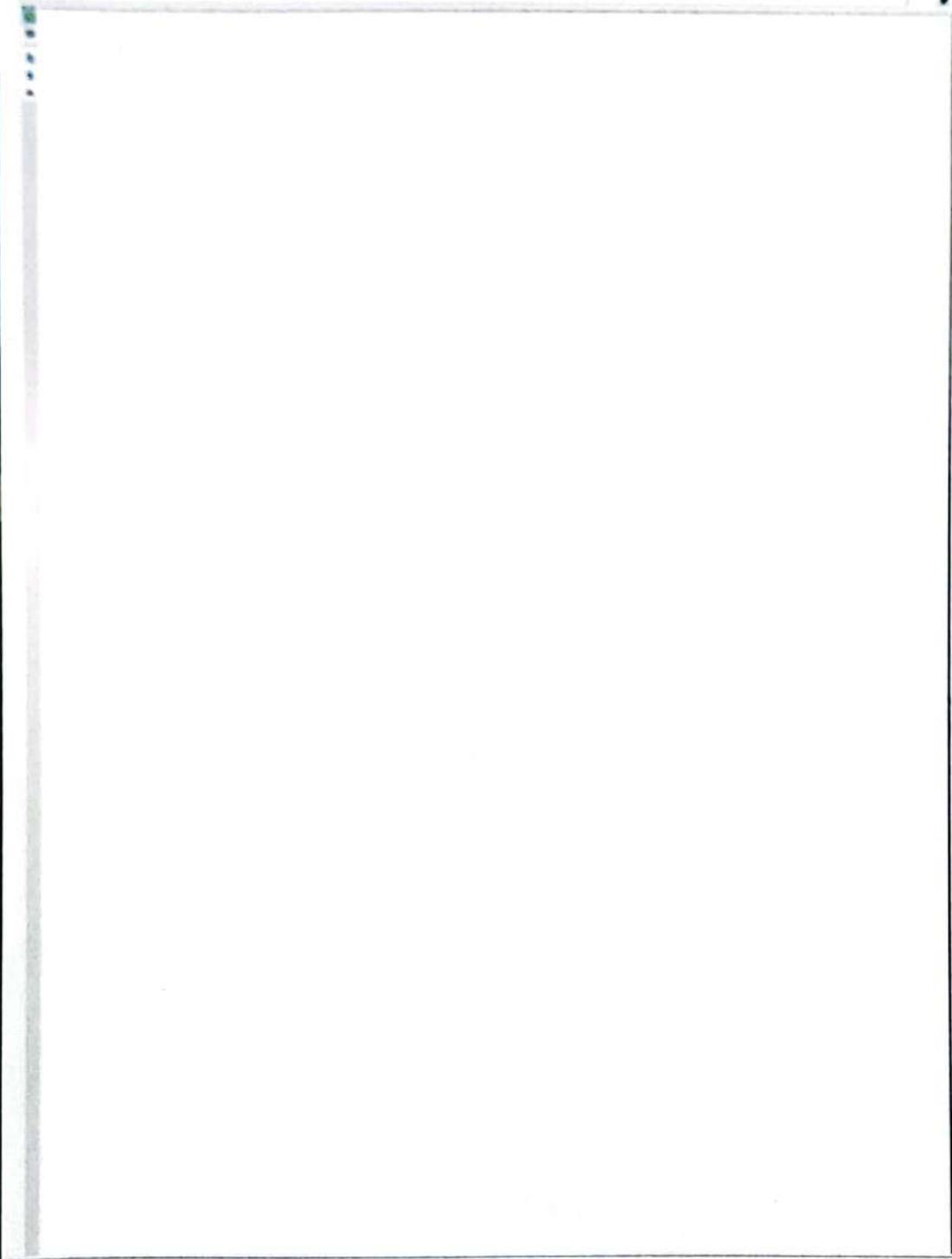
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GPX To Features

Input GPX File:

Output Feature class:

OK Cancel Environment... Show Help >>

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Open

Look in: Downloads

Quick access

- Today (1)
 - chryse safn.gpx
- Last week (42)
 - hiva mergator.gpx
 - shwan (16) (2)
 - shwan (16) (1)
 - shwan (16)
 - shwan (15)
 - shwan (14)
 - shwan (12)

Name	Date modified	Type
chryse safn.gpx	5/28/2022 10:07 PM	GI
hiva mergator.gpx	5/21/2022 11:25 PM	GI
shwan (16) (2)	5/21/2022 11:15 PM	M
shwan (16) (1)	5/21/2022 11:15 PM	M
shwan (16)	5/21/2022 11:07 PM	M
shwan (15)	5/21/2022 10:52 PM	M
shwan (14)	5/21/2022 10:52 PM	M
shwan (12)	5/21/2022 10:52 PM	M

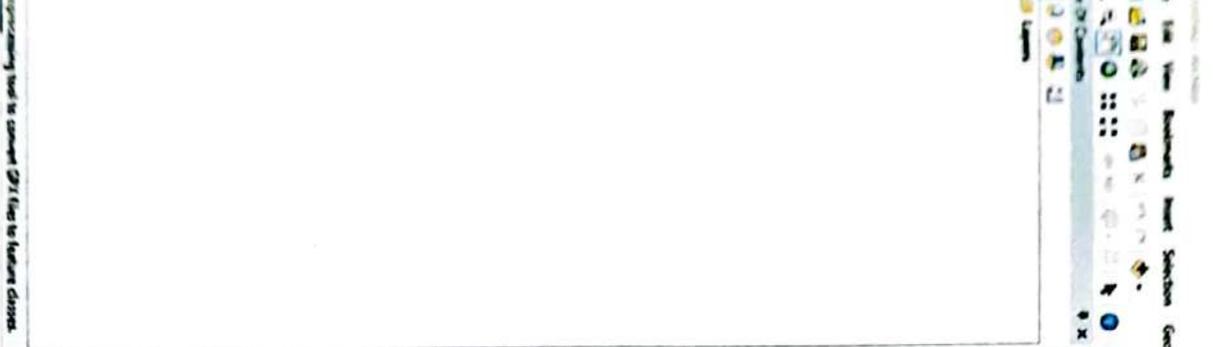
File name: chryse safn

Files of type: All Files

Open as read-only

Open Cancel

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GPX to Features

Output Feature class: report.gpx

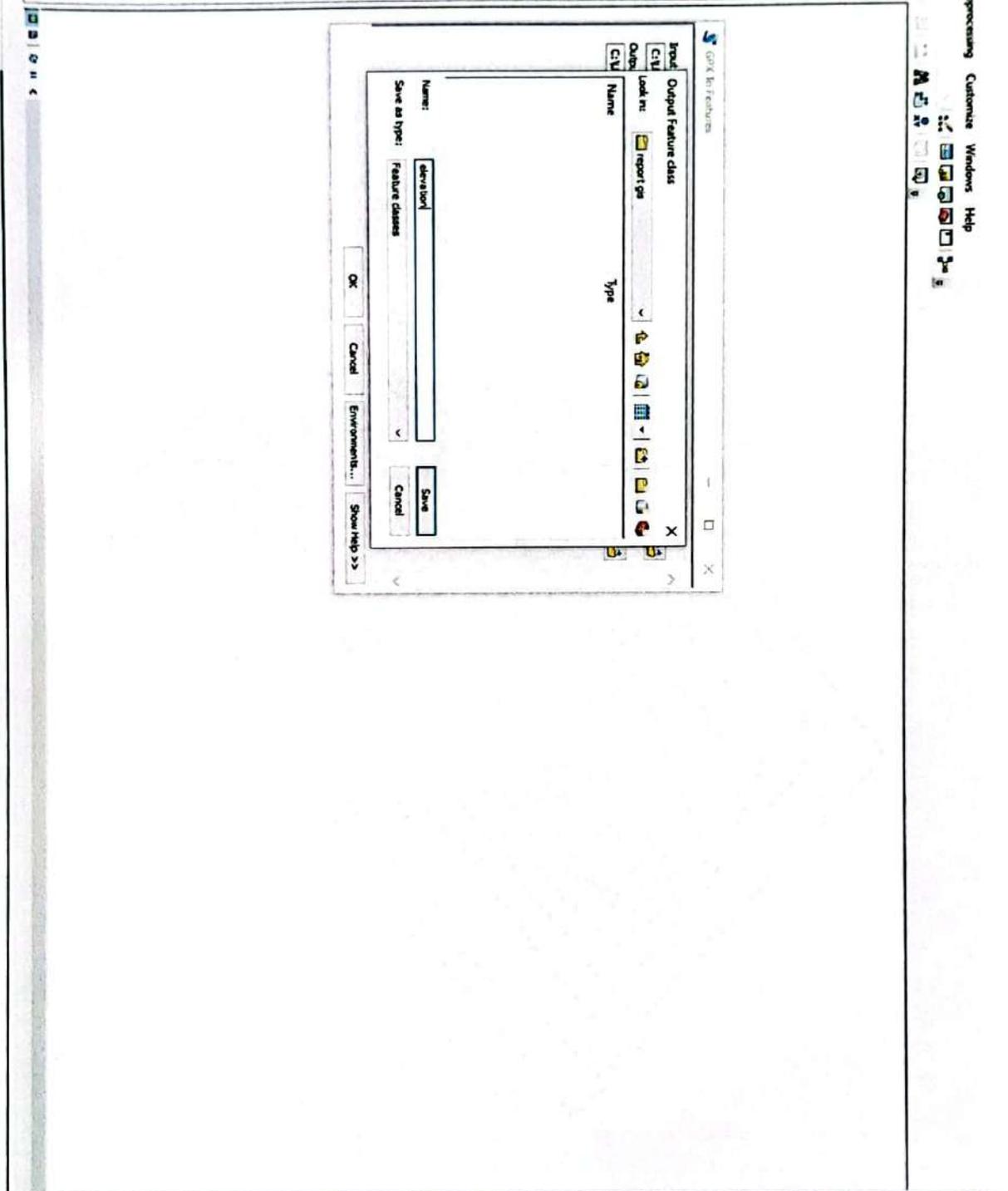
Name	Type

Name: elevation

Save as type: Feature classes

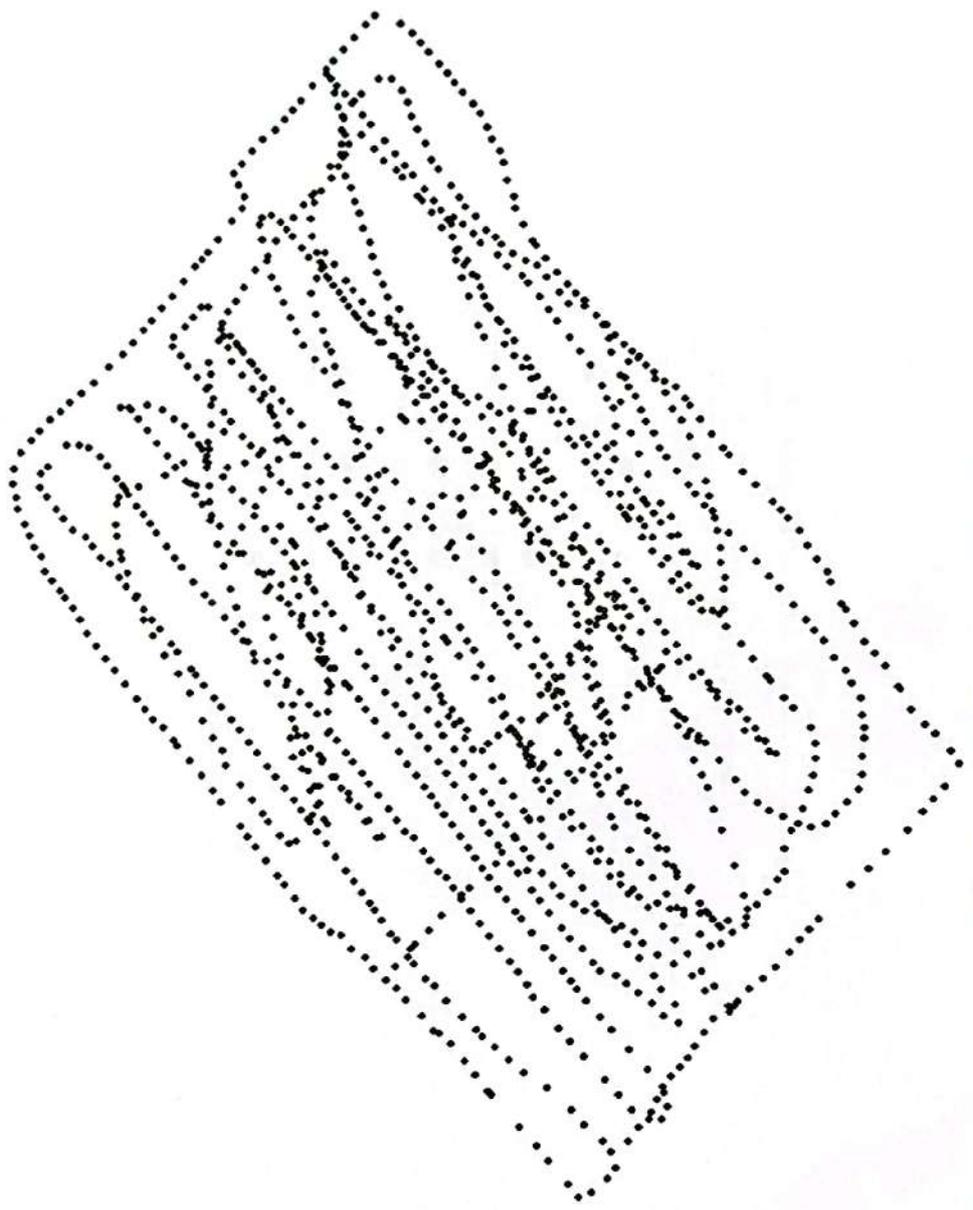
OK Cancel Environment... Show help >>

Save Cancel

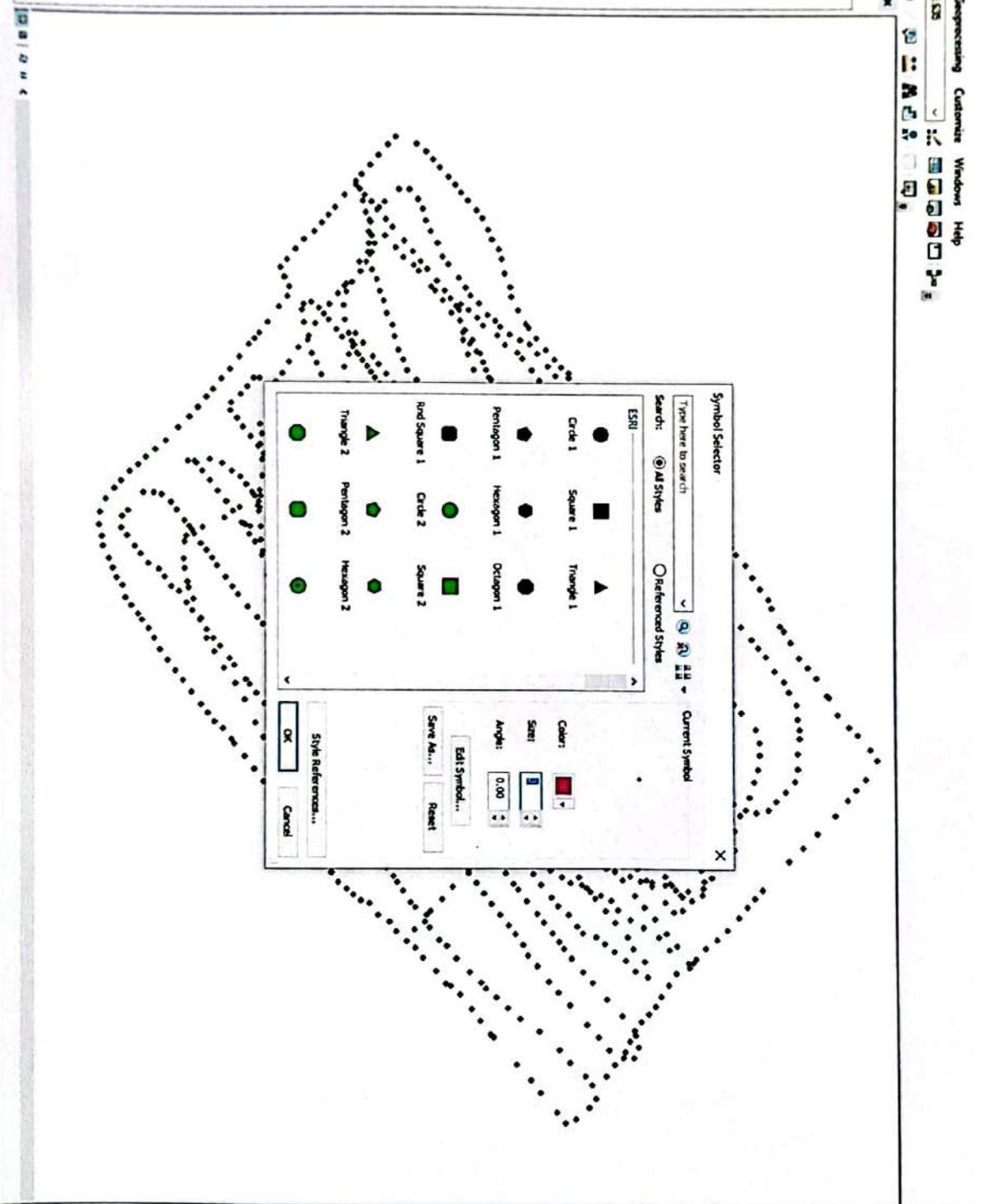


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Symbol Selector

Type here to search:

Search: All Styles Referenced Styles

Current Symbol:

Circle 1	Square 1	Triangle 1
Pentagon 1	Hexagon 1	Octagon 1
Road Square 1	Circle 2	Square 2
Triangle 2	Pentagon 2	Hexagon 2

Color:

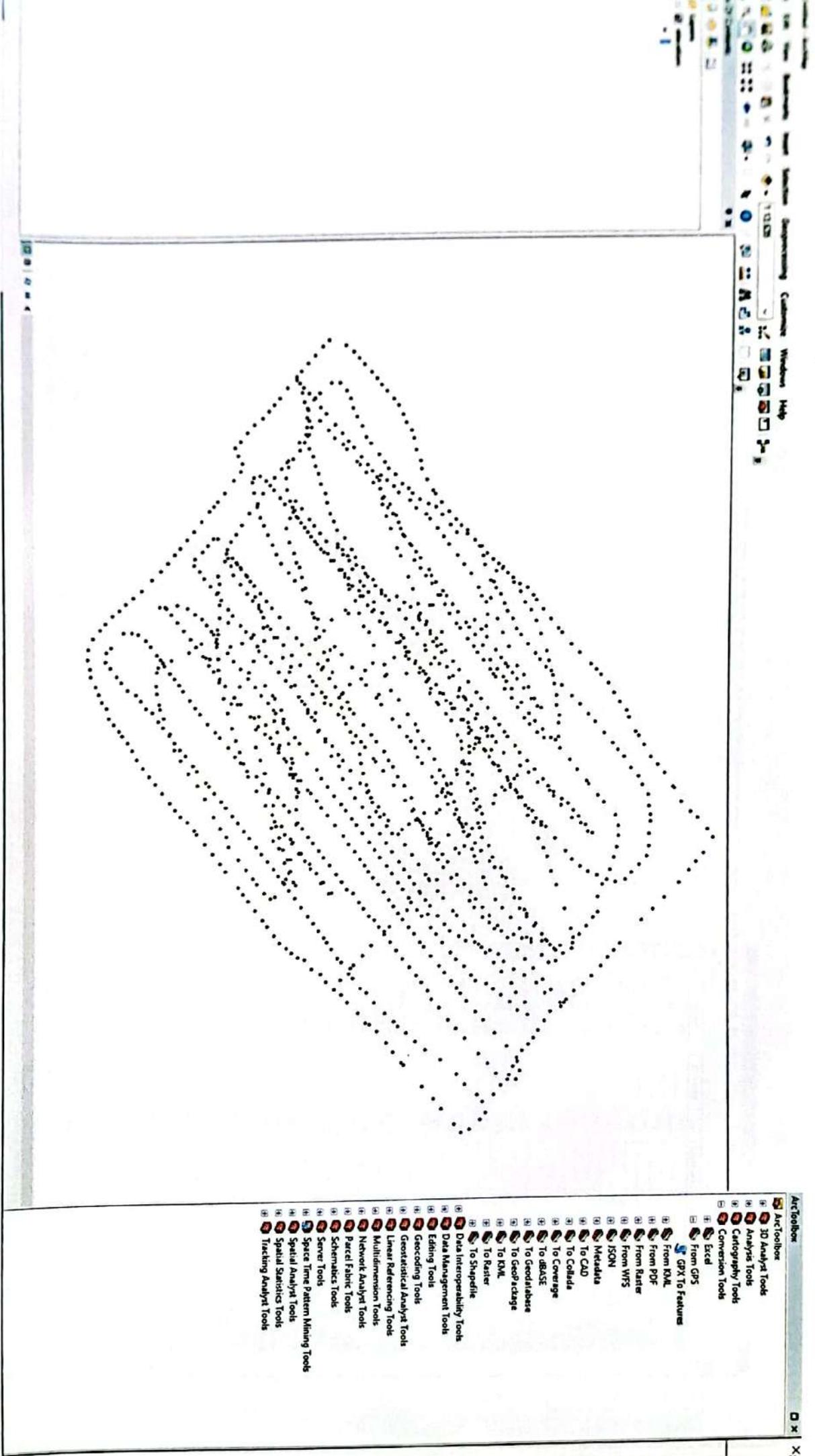
Size:

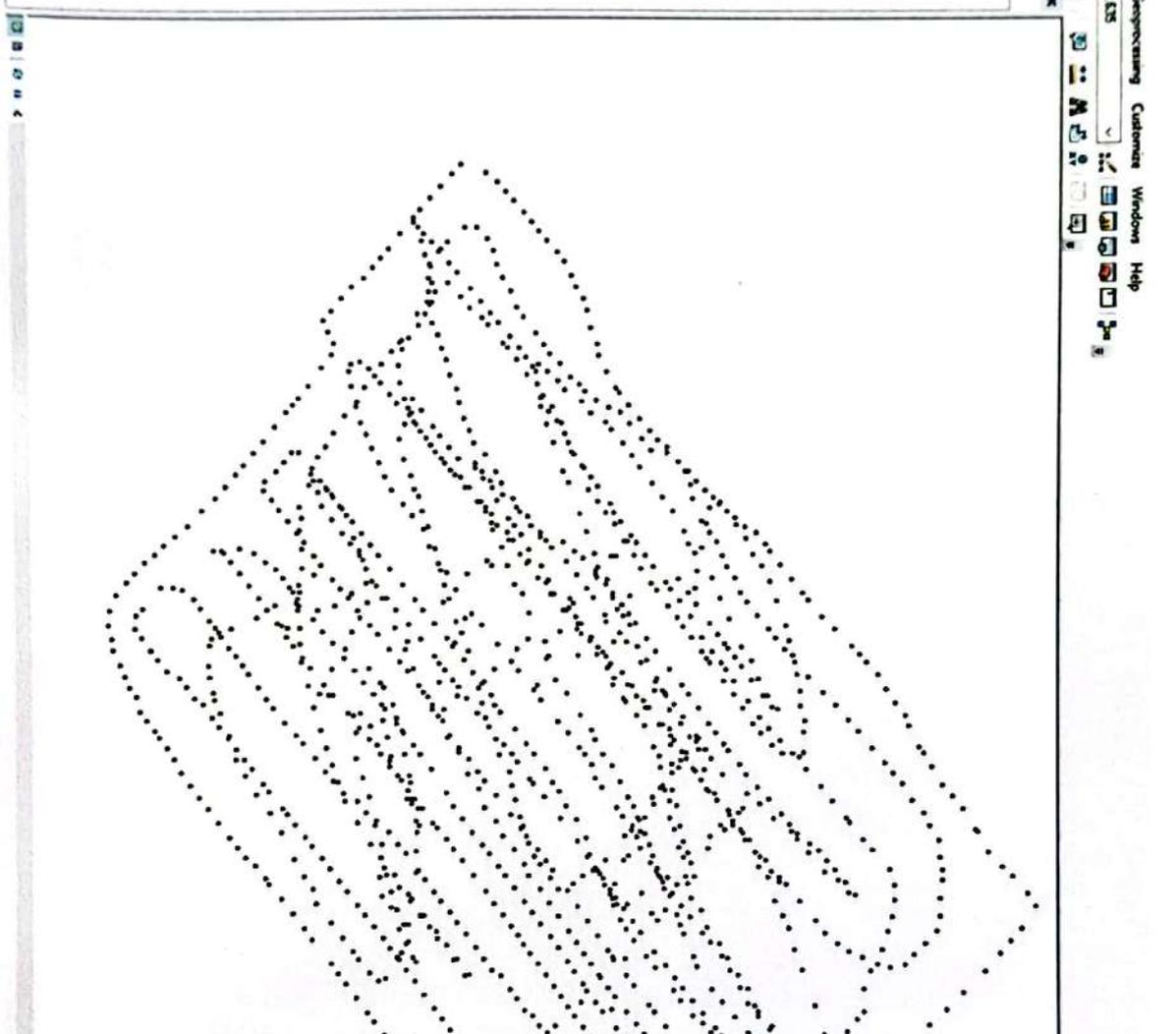
Angle:

Buttons: Edit Symbol..., Save As..., Reset

Buttons: Style References..., OK, Cancel

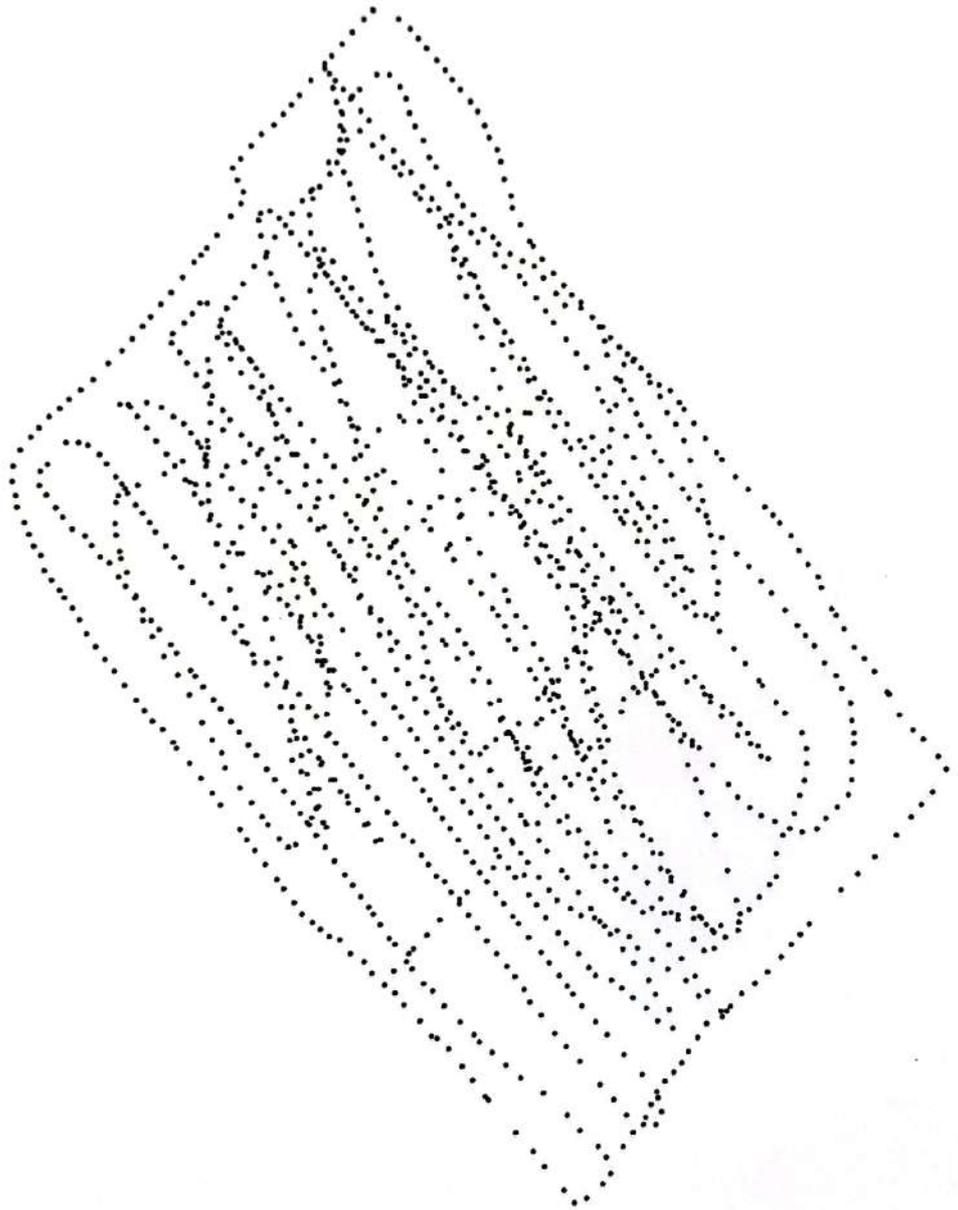
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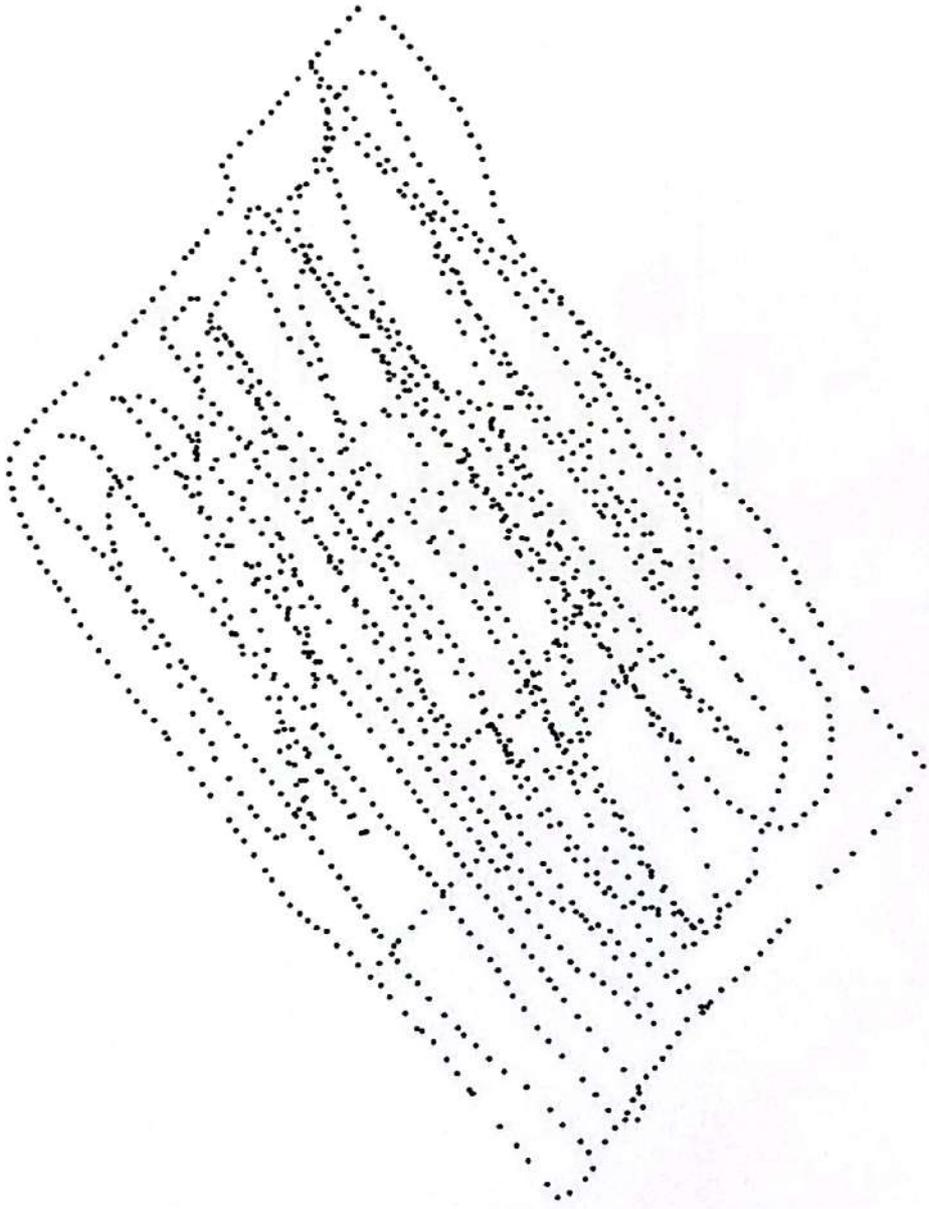


ID	Name	Description	Type	Comment	Symbol	DataTime	Elevation
0	sa/in mountain		TRCPT				1678.882
0	sa/in mountain		TRCPT				1592.248
0	sa/in mountain		TRCPT				1613.297
0	sa/in mountain		TRCPT				1639.443
0	sa/in mountain		TRCPT				1617.67
0	sa/in mountain		TRCPT				1726.535
0	sa/in mountain		TRCPT				1746.427
0	sa/in mountain		TRCPT				1772.681
0	sa/in mountain		TRCPT				1792.888
0	sa/in mountain		TRCPT				1797.563
0	sa/in mountain		TRCPT				1814.328
0	sa/in mountain		TRCPT				1827.542
0	sa/in mountain		TRCPT				1839.739
0	sa/in mountain		TRCPT				1810.841
0	sa/in mountain		TRCPT				1782.386
0	sa/in mountain		TRCPT				1786.119
0	sa/in mountain		TRCPT				1768.028
0	sa/in mountain		TRCPT				1768.206
0	sa/in mountain		TRCPT				1771.197
0	sa/in mountain		TRCPT				1785.827
0	sa/in mountain		TRCPT				1760.687
0	sa/in mountain		TRCPT				1748.536
0	sa/in mountain		TRCPT				1710.748
0	sa/in mountain		TRCPT				1704.118
0	sa/in mountain		TRCPT				1710.603
0	sa/in mountain		TRCPT				1714.317
0	sa/in mountain		TRCPT				1714.279
0	sa/in mountain		TRCPT				1725.615
0	sa/in mountain		TRCPT				1753.516
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0	sa/in mountain		TRCPT				1770.930
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0	sa/in mountain		TRCPT				1768.542
0	sa/in mountain		TRCPT				1812.674
0	sa/in mountain		TRCPT				1830.313
0	sa/in mountain		TRCPT				1813.143
0	sa/in mountain		TRCPT				1804.319

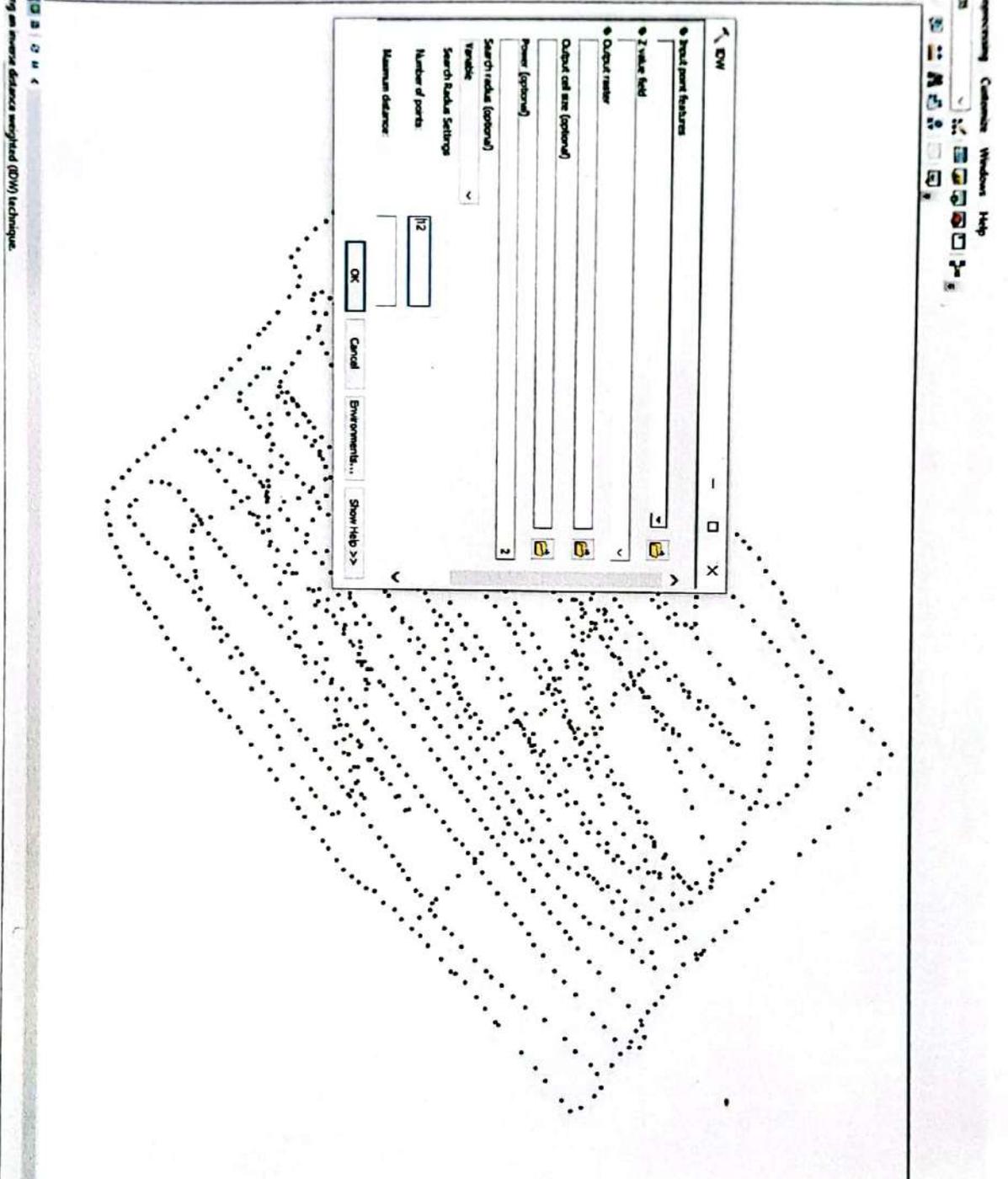
16 1 0 11 0 out of 1330 Selected



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 - Kriging
 - Natural Neighbor
 - Spline
 - Spline with Barriers
 - Topo to Raster
 - Topo to Raster by File
 - Trend
 - Local
 - Map Algebra
 - Mah
 - Multivariate
 - Neighborhood
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DW

Input point features

Output raster

Output cell size (optional)

Power (optional)

Search radius (optional)

Variable

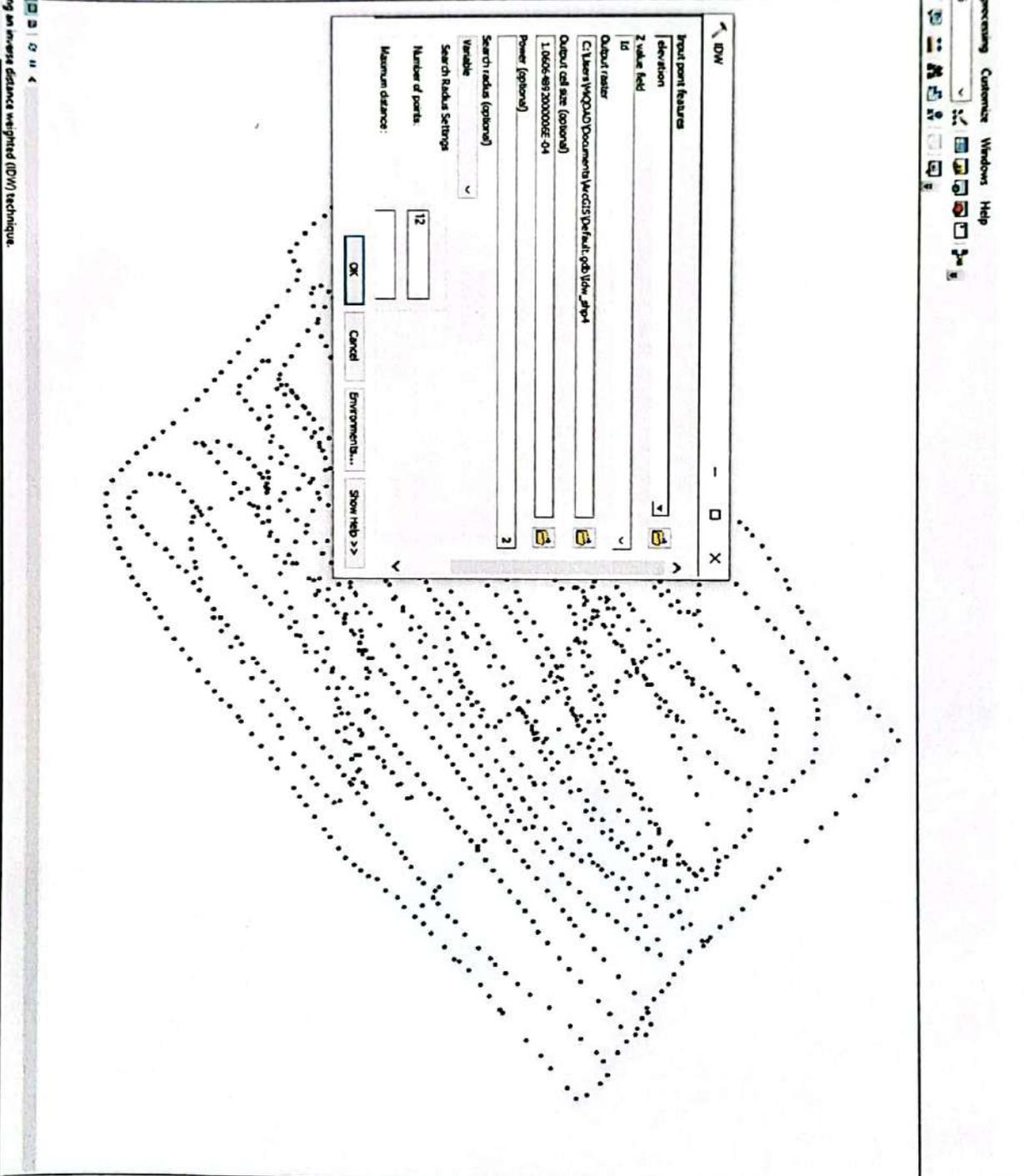
Search Radius Settings

Number of points

Maximum distance

12

OK Cancel Environments... Show Help >>



DW

Input point features
 elevation

Z value field
 Id

Output raster
 C:\Users\WQAD\Documents\ArcGIS\Default.gdb\Wdr_91p1

Output cell size (optional)
 1.0000000000000000E-04

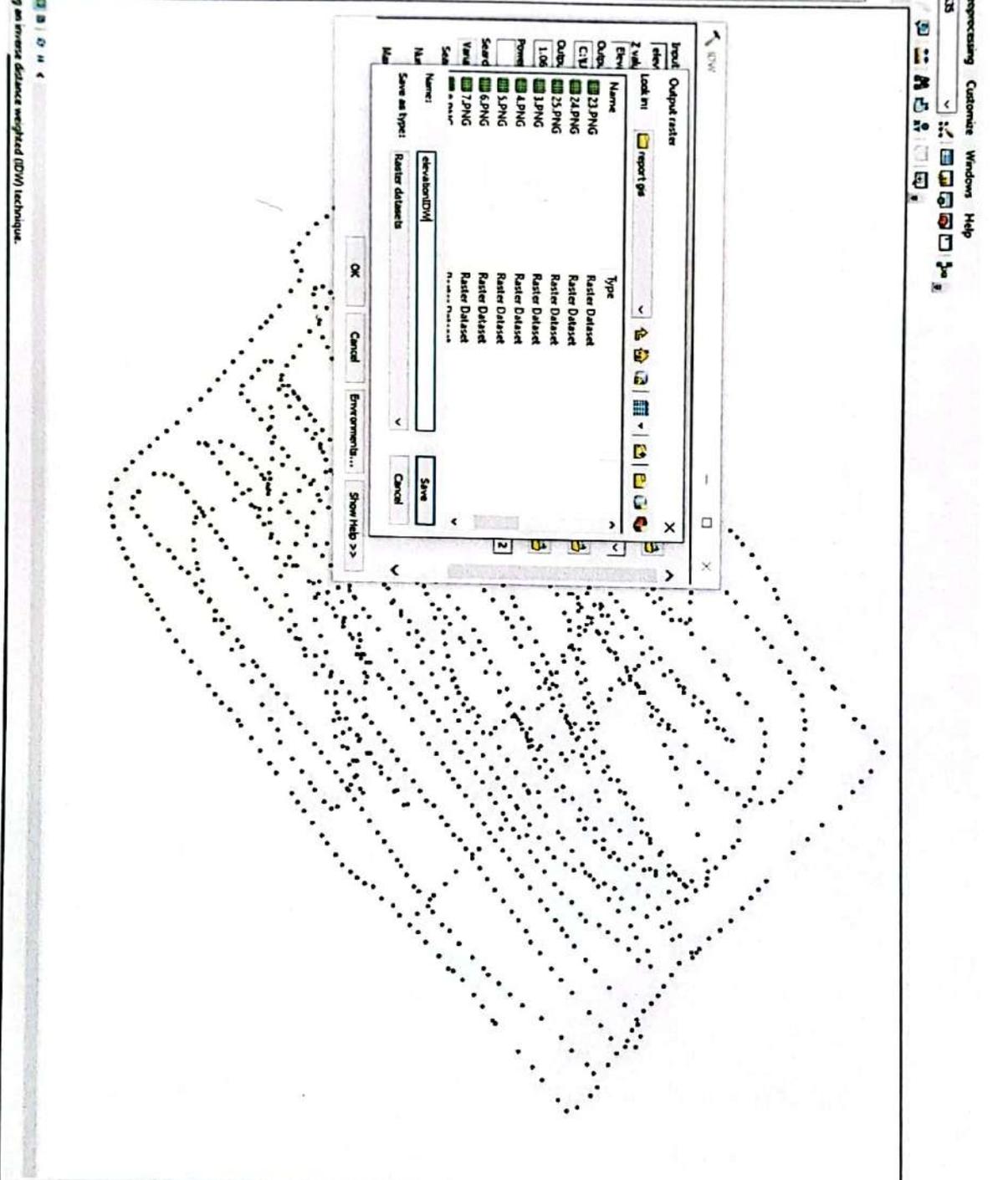
Power (optional)
 2

Search radius (optional)
 Variable

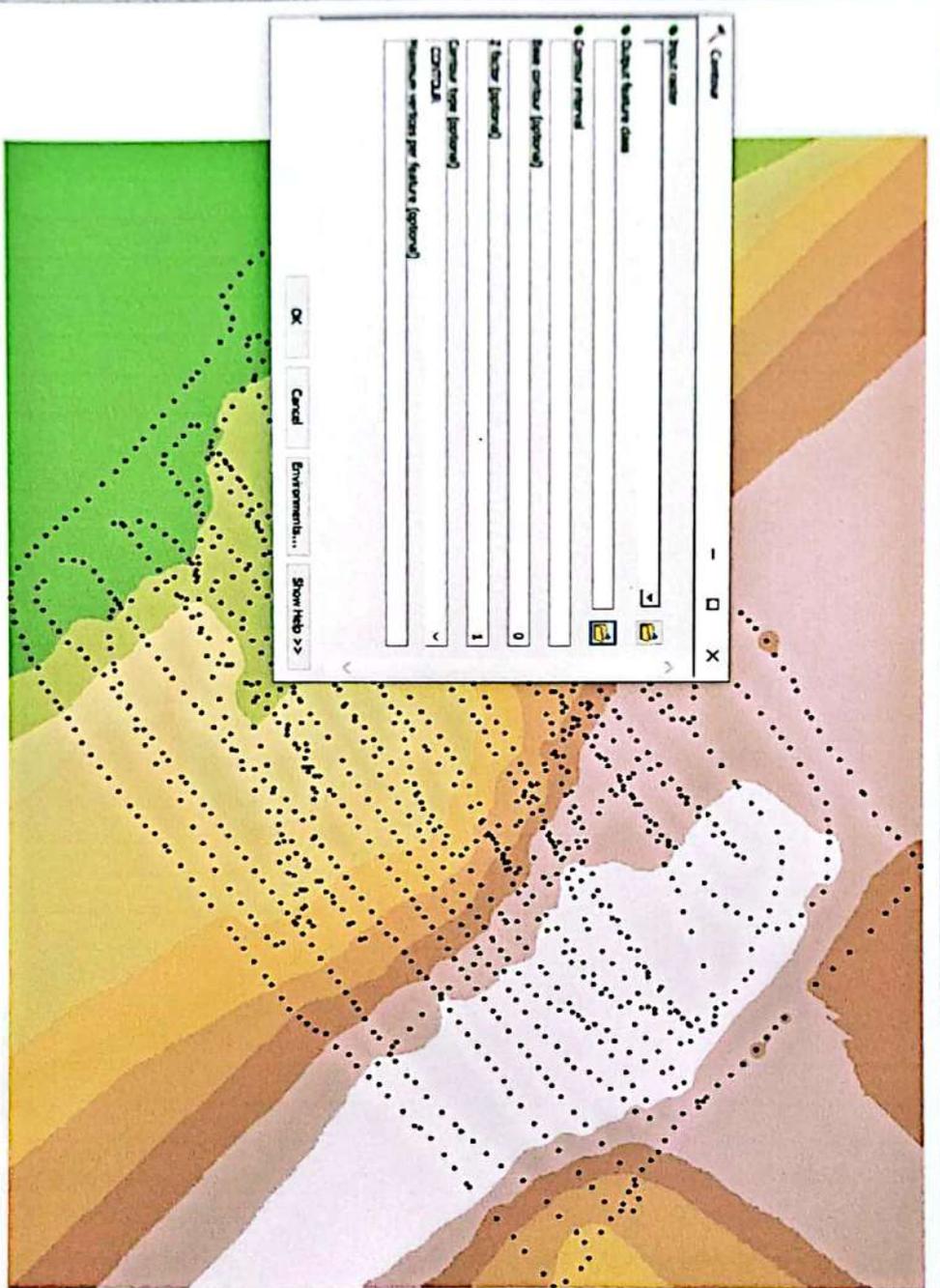
Search Radius Settings
 Number of points: 12

Maximum distance:

OK Cancel Environment... Show help >>



Interpolating point data using inverse distance weighted (IDW) technique.



Contours

Output feature class: _____

Contour interval: _____

Base contour (optional): 0

Z factor (optional): 1

Contour type (optional): CONTIGUA

Minimum vertices per feature (optional): _____

OK Cancel Environments... Show help >>

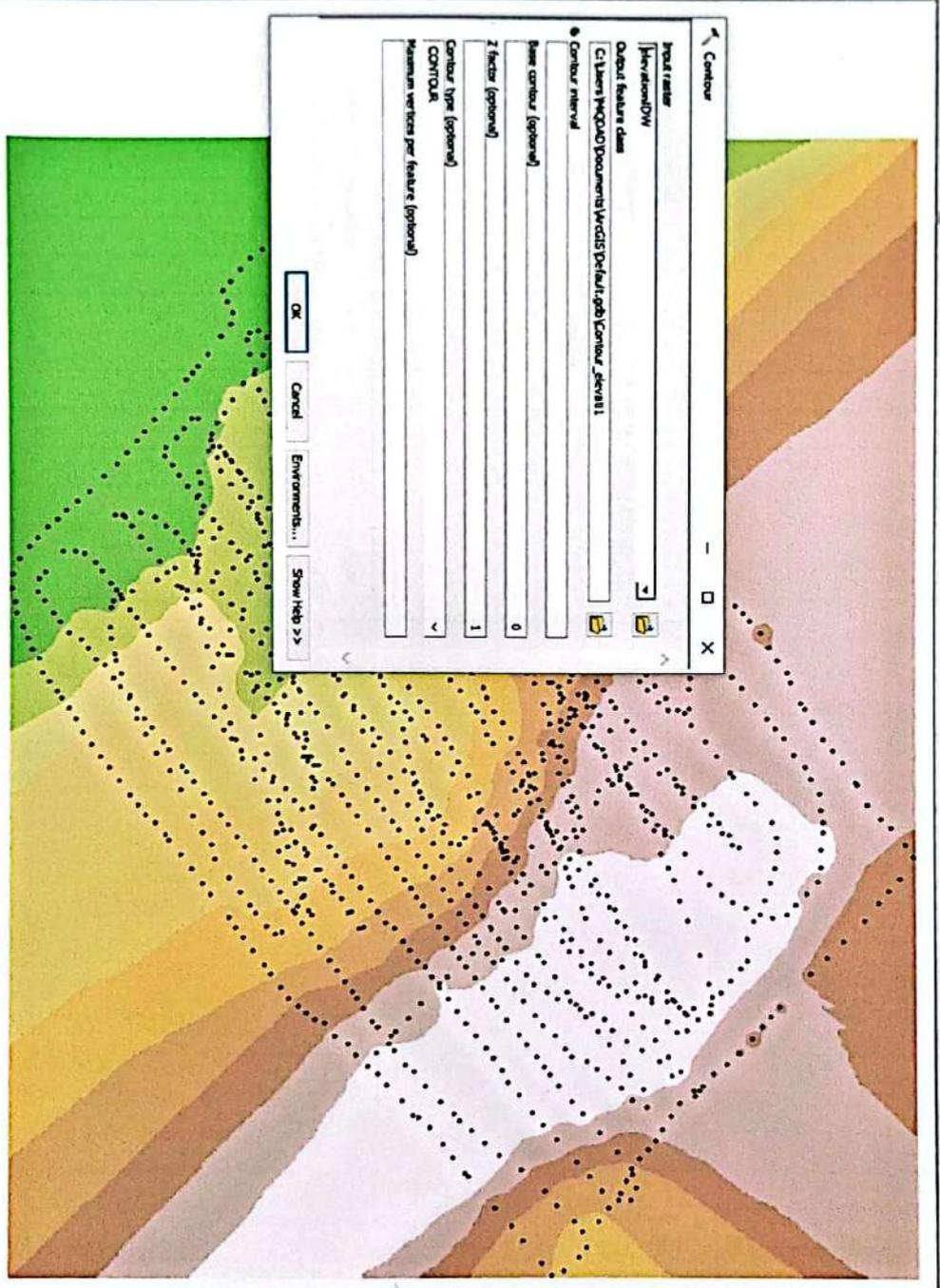
- ArcToolbox**
- 3D Analyst Tools
 - Analysis Tools
 - Cartography Tools
 - Conversion Tools
 - Data Interoperability Tools
 - Data Management Tools
 - Editing Tools
 - Geocoding Tools
 - Geostatistical Analyst Tools
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 - Cell Fill
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 - Slope
 - Voronoi
 - Voronoi 2
 - Variability
 - Zonal
 - Spatial Statistics Tools
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File Edit View Database Tools Selection Geoprocessing Customization Windows Help

11:53

Layers

- 1. DEM - 125,000
- 2. DEM - 125,000
- 3. DEM - 125,000
- 4. DEM - 125,000
- 5. DEM - 125,000
- 6. DEM - 125,000
- 7. DEM - 125,000
- 8. DEM - 125,000
- 9. DEM - 125,000
- 10. DEM - 125,000



Contour

Input raster
[HydroIDM]

Output feature class
C:\Users\BQAGAD\Documents\ArcGIS\Default.gdb\Contour_Default1

Contour interval
[]

Base contour (optional)
0

Z factor (optional)
1

Contour type (optional)
CONTOUR

Minimum vertices per feature (optional)
[]

OK Cancel Environments... Show help >>

Contour processing tool that creates a feature class of contours from a raster surface.

ArcToolbox

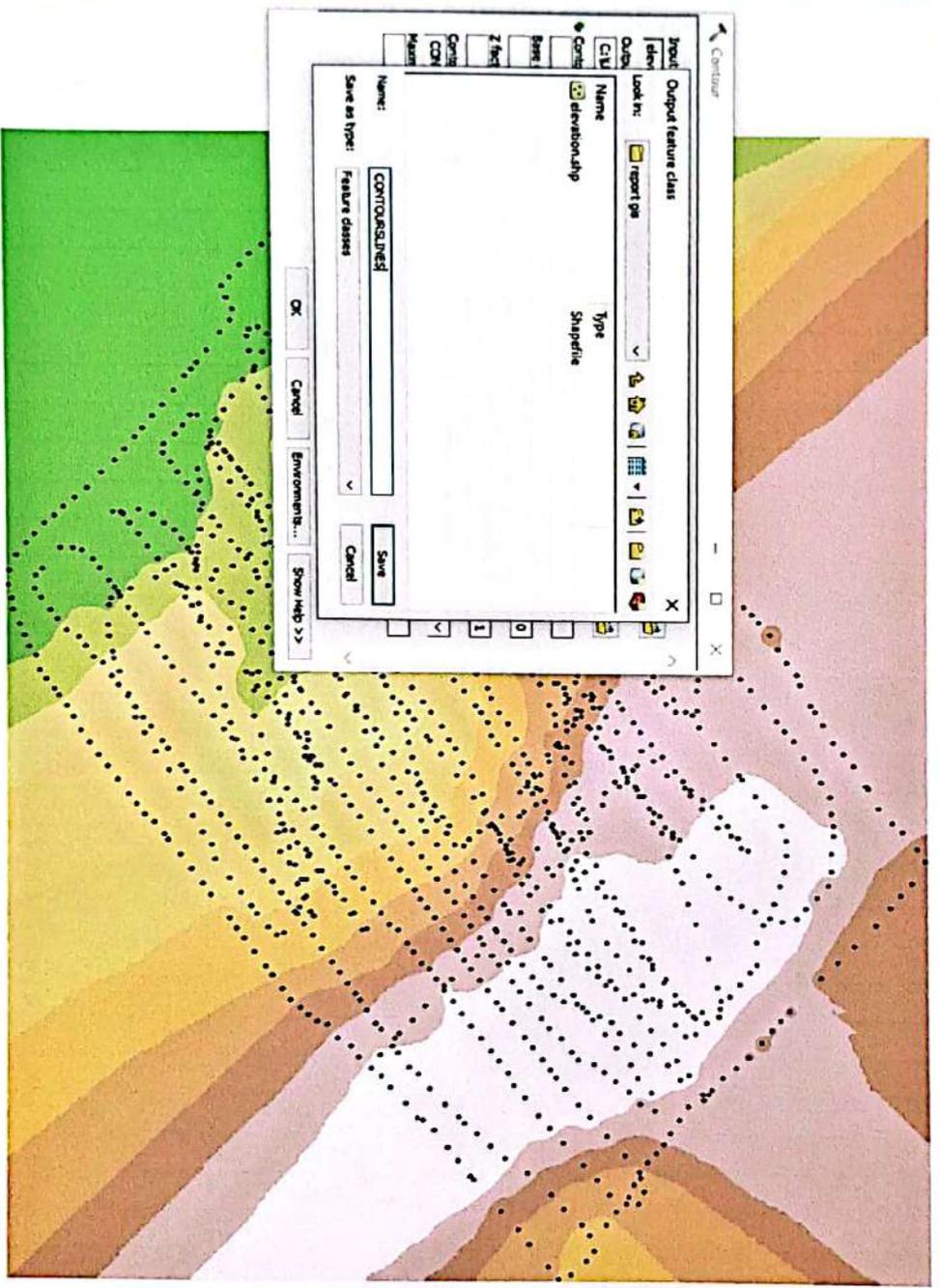
- 3D Analyst Tools
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- Editing Tools
- Geocoding Tools
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 - Interpolation
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 - Map Algebra
 - Math
 - Multivariate
 - Neighborhood
 - Overlay
 - Raster Creation
 - Reclass
 - Segmentation and Classification
 - Solar Radiation
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 - Contour List
 - Contour with Barriers
 - Curvature
 - Cut Fill
 - Hillshade
 - Observer Points
 - Slope
 - Voronoi
 - Voronoi 2
 - Visibility
 - Zonal
- Spatial Statistics Tools
- Tracking Analyst Tools

File View Bookmarks Insert Selection Geoprocessing Customize Windows Help

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Layers

- 1. DEM - 1.25M_2011
- 2. DEM - 1.25M_2011
- 3. DEM - 1.25M_2011
- 4. DEM - 1.25M_2011
- 5. DEM - 1.25M_2011
- 6. DEM - 1.25M_2011
- 7. DEM - 1.25M_2011
- 8. DEM - 1.25M_2011
- 9. DEM - 1.25M_2011
- 10. DEM - 1.25M_2011
- 11. DEM - 1.25M_2011
- 12. DEM - 1.25M_2011
- 13. DEM - 1.25M_2011
- 14. DEM - 1.25M_2011
- 15. DEM - 1.25M_2011
- 16. DEM - 1.25M_2011
- 17. DEM - 1.25M_2011
- 18. DEM - 1.25M_2011
- 19. DEM - 1.25M_2011
- 20. DEM - 1.25M_2011



Contour

Output feature class: report.gdb

Look in: report.gdb

Name	Type
elevation.rpt	Shapefile

Input: elevation.rpt

Output: report.gdb

Name: CONTOURLINE1

Save as type: Feature classes

OK Cancel Environments... Show help >>

Contour processing tool that creates a feature class of contours from a raster surface.

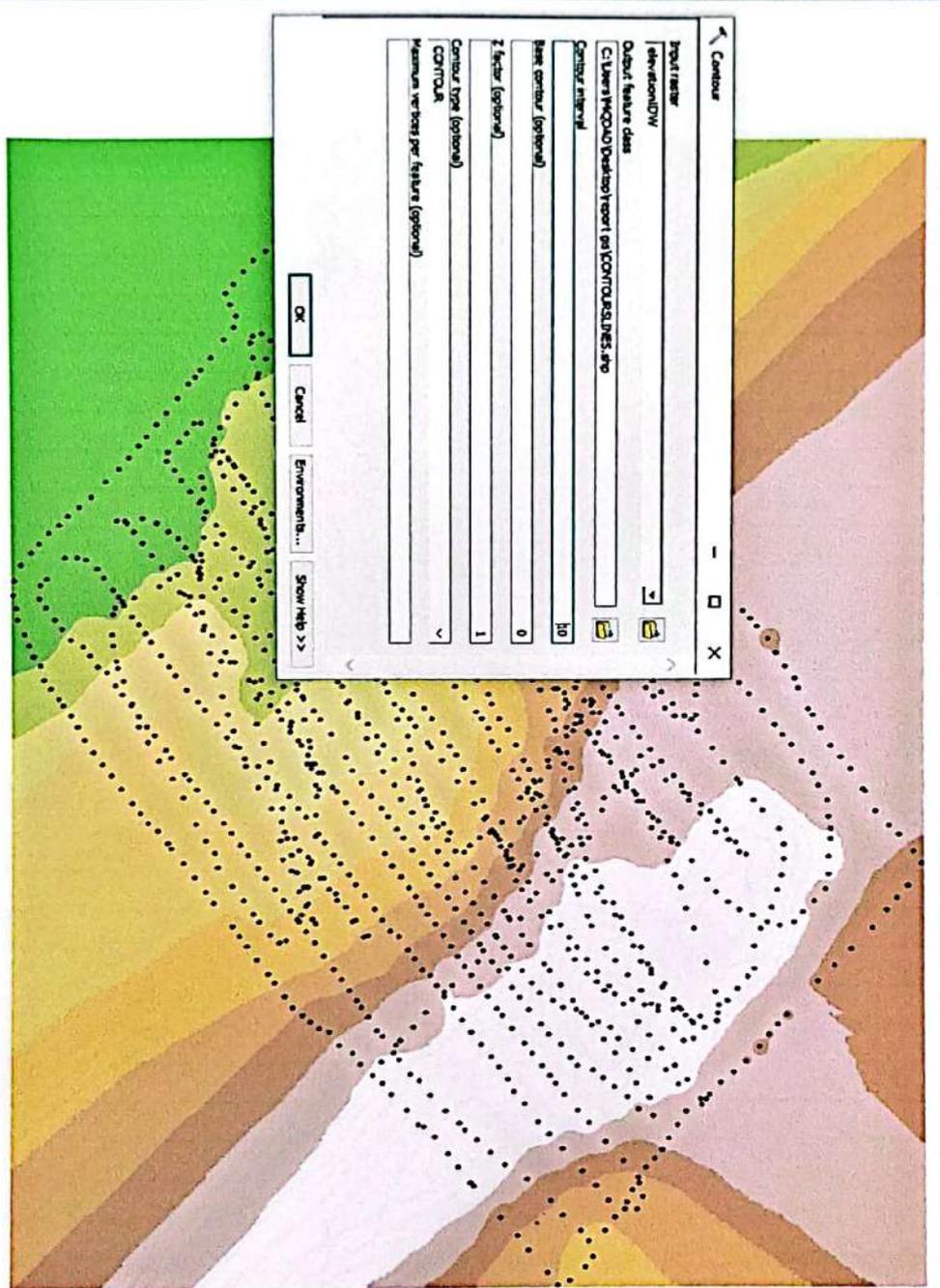
- ArcToolbox
- 3D Analyst Tools
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 - Conversion Tools
 - Data Interoperability Tools
 - Data Management Tools
 - Editing Tools
 - Geocoding Tools
 - Geostatistical Analyst Tools
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 - Corrupt
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File Edit View Database Tools Selection Engineering Customize Windows Help

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Layers

- 2 - elevation
- 1. Contour - 1.25, 2.5, 5, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000



Contour

Input raster
elevation01W

Output feature class
C:\Users\TMOQU\Desktop\report on CONTOUR.LINES.apr

Contour interval
10

Base contour (optional)
0

Z factor (optional)
1

Contour type (optional)
CONTOUR

Minimum vertices per feature (optional)

OK Cancel Environment... Show help >>

ArcToolbox

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 - Contour with Barriers
 - Curvature
 - Cost Fill
 - Hillshade
 - Observer Points
 - Slope
 - Viewshed
 - Viewshed 2
 - Visibility
- Zonal
- Spatial Statistics Tools
- Tracking Analyst Tools

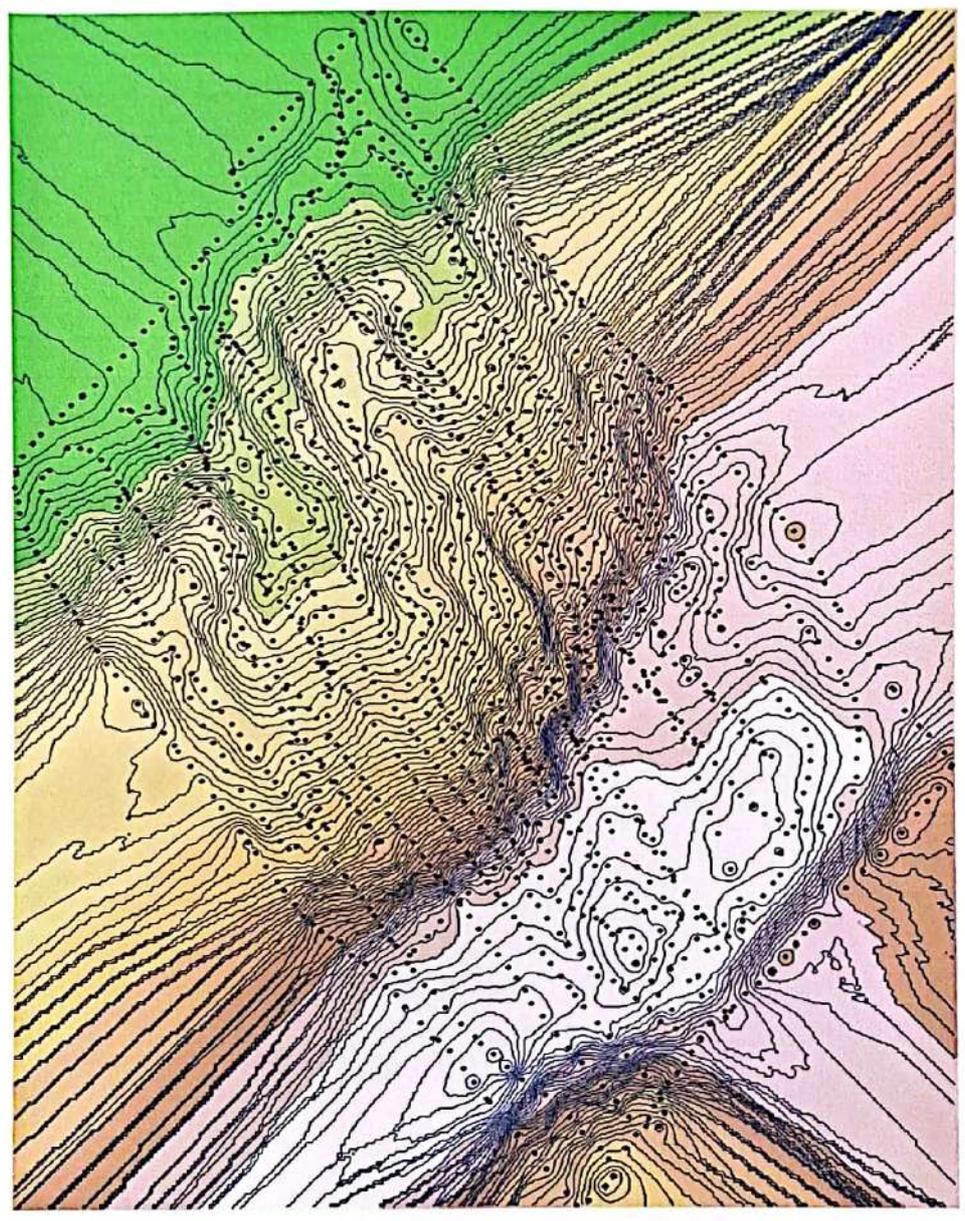
Answer: processing tool that creates a feature class of contours from a raster surface.

File Edit View Database Insert Selection Geoprocessing Customize Windows Help

11:25

2

1. Contour - 100 Meters
2. Contour - 100 Meters
3. Contour - 100 Meters
4. Contour - 100 Meters
5. Contour - 100 Meters
6. Contour - 100 Meters
7. Contour - 100 Meters
8. Contour - 100 Meters
9. Contour - 100 Meters
10. Contour - 100 Meters



Arctoolbox

- Arctoolbox
- 3D Analyst Tools
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- Multidimension Tools
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 - Segmentation and Classification
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 - Contour with Barriers
 - Curvature
 - Cut Fill
 - Hillshade
 - Observer Points
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 - Voronoi
 - Voronoi 2
 - Visibility
 - Zonal
 - Spatial Statistics Tools
 - Tracking Analyst Tools

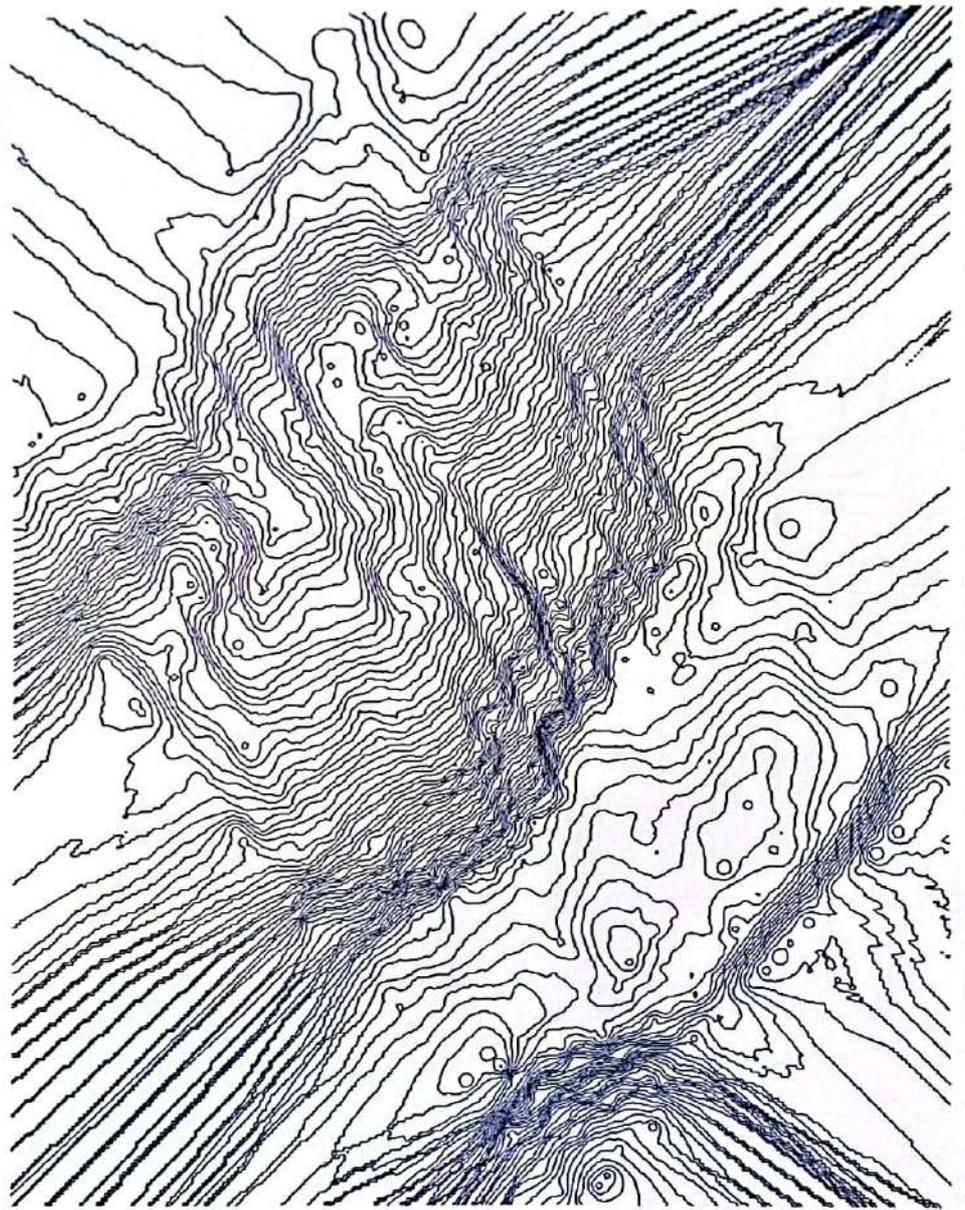
File Edit View Database Layer Selection Geoprocessing Customization Windows Help

1:10,000

Map

Layers

- Topographic
- DEM
- DEM - Contour
- DEM - Slope
- DEM - Aspect
- DEM - Curvature
- DEM - Hillshade
- DEM - Observer Points
- DEM - Viewshed
- DEM - Visibility
- DEM - Zonal
- DEM - Spatial Statistics
- DEM - Tracking Analysis



ArcToolbox

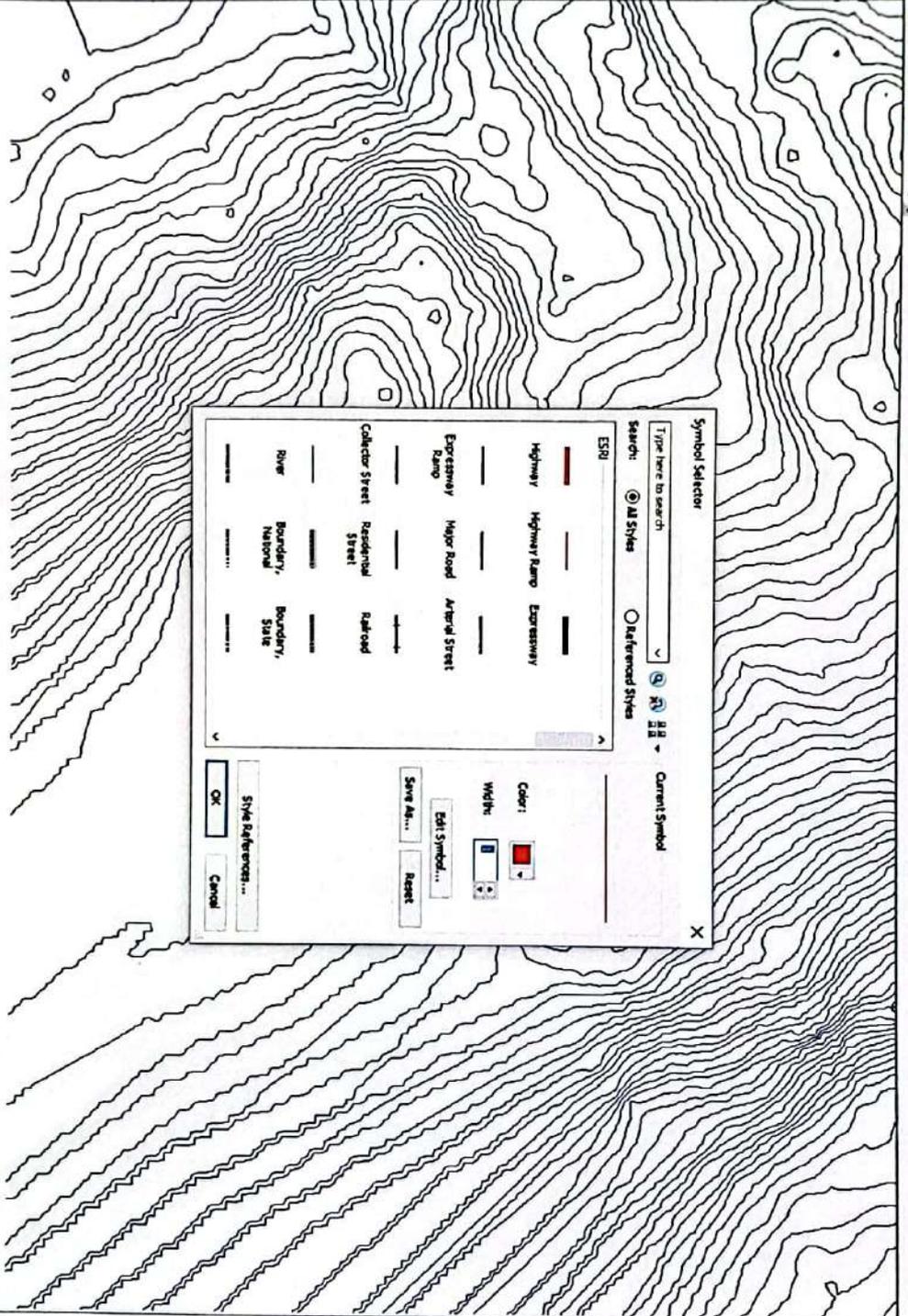
- 3D Analyst Tools
- Analysis Tools
- Catalogue Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Editing Tools
- Geocoding Tools
- Geostatistical Analysis Tools
- Linear Referencing Tools
- Multidimension Tools
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 - Observer Points
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 - Viewshed
 - Viewshed 2
 - Visibility
 - Zonal
 - Spatial Statistics Tools
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File View Bookmarks Insert Selection Geoprocessing Customized Windows Help

15.000

2. Contours

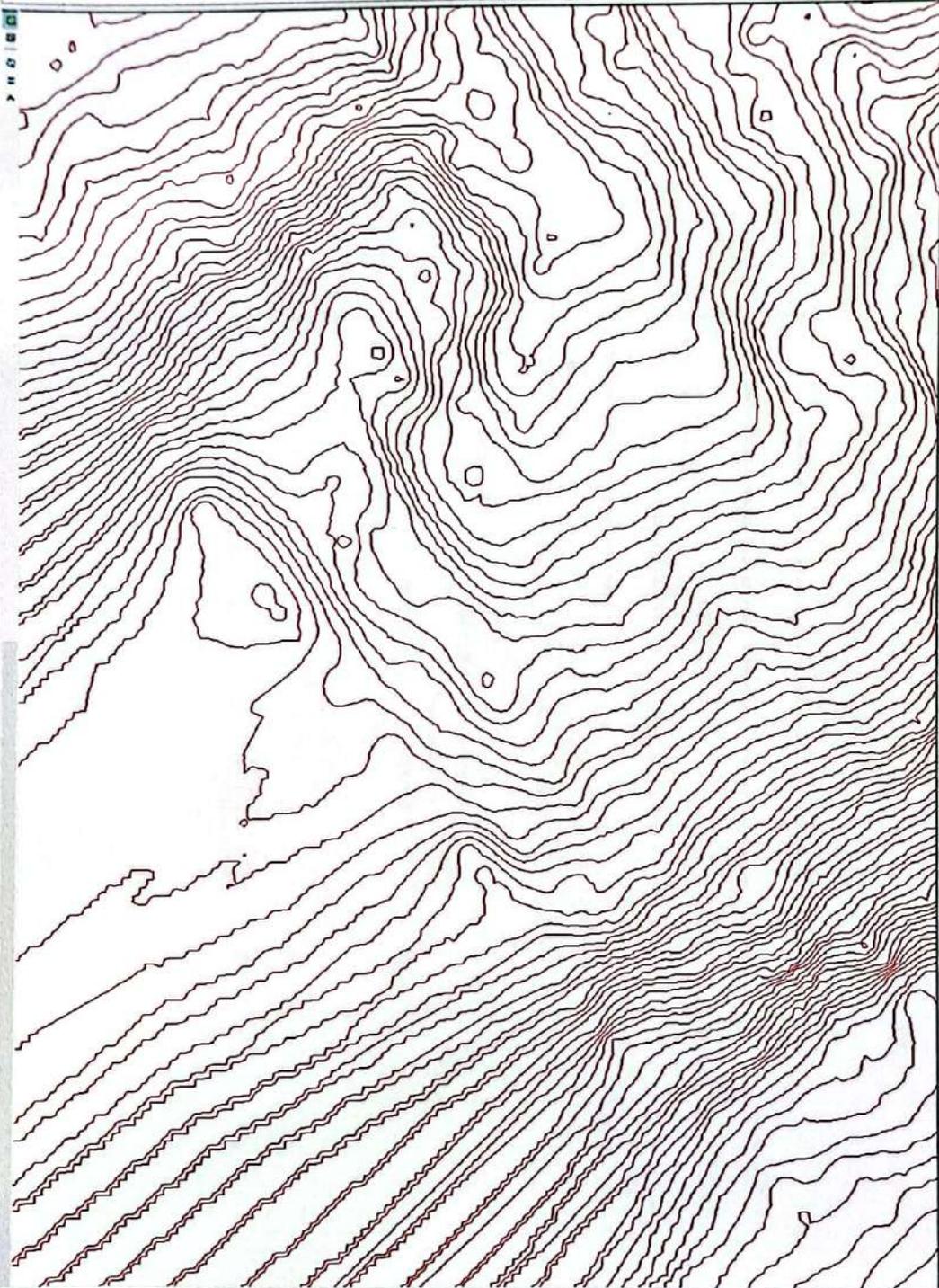
- 1. 150,000 - 150,000
- 2. 150,000 - 150,000
- 3. 150,000 - 150,000
- 4. 150,000 - 150,000
- 5. 150,000 - 150,000
- 6. 150,000 - 150,000
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- 14. 150,000 - 150,000
- 15. 150,000 - 150,000



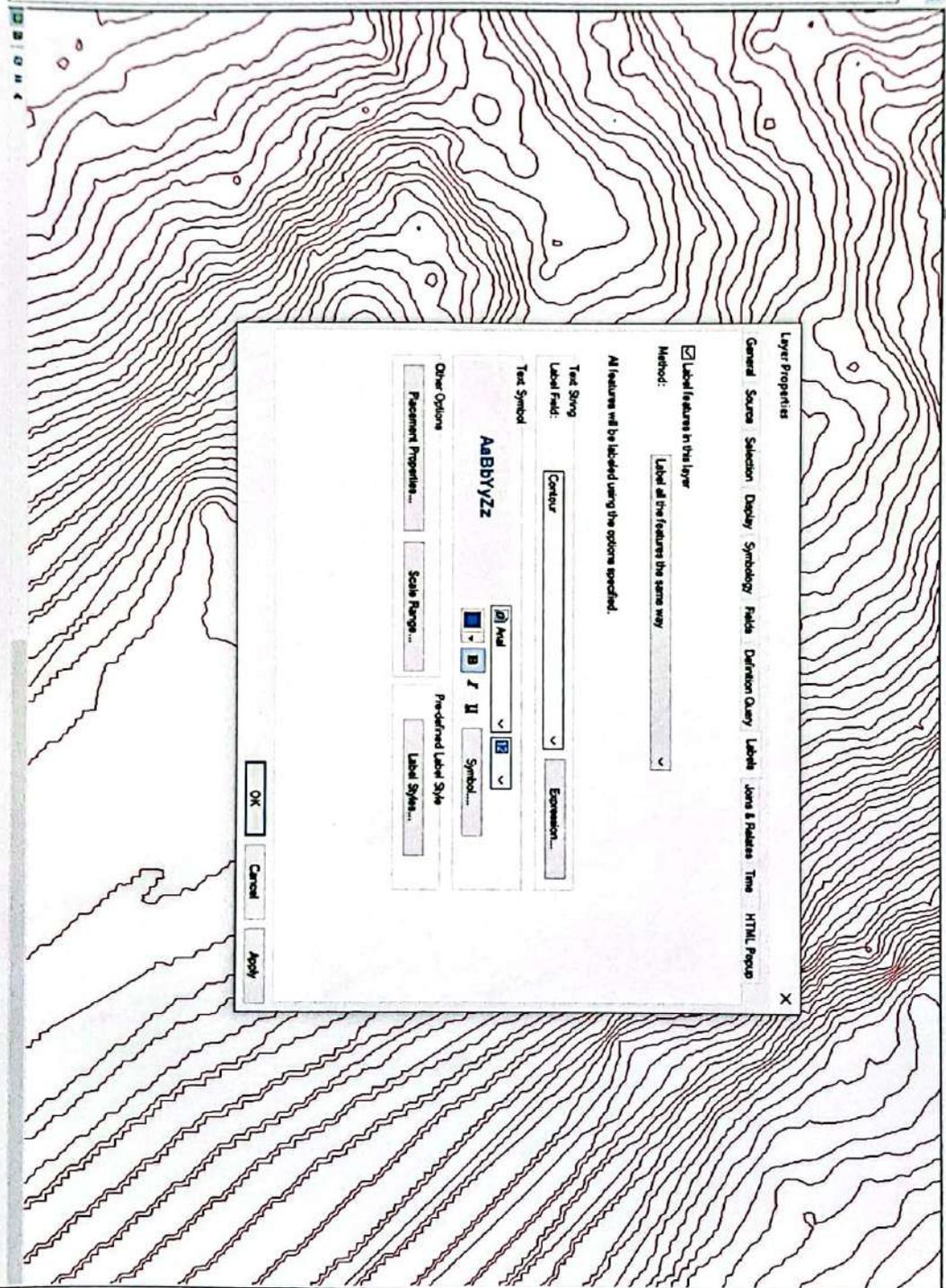
Arc Toolbox

- 3D Analyst Tools
- Analysis Tools
- Cartography Tools
- Conversion Tools
- Data Interoperability Tools
- Data Management Tools
- Editing Tools
- Geocoding Tools
- Geostatistical Analyst Tools
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File View Keyboard Layout Selection Geoprocessing Customize Windows Help
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 2 CONTOURS
 1:000000 - 1:250000
 1:250000 - 1:500000
 1:500000 - 1:750000
 1:750000 - 2:000000
 2:000000 - 2:250000
 2:250000 - 2:500000
 2:500000 - 2:750000
 2:750000 - 3:000000



ArcToolbox
 3D Analyst Tools
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Layer Properties

General Source Selection Display Symbology Fields Definition Query Labels Joins & Relations Time HTML Popup

Label features in the layer

Method:

All features will be labeled using the options specified.

Text String: Expression...

Label Field: Expression...

Text Symbol: Symbol...

Other Options: Placement Properties... Scale Range... Preferred Label Style Label Styles...

OK Cancel Apply

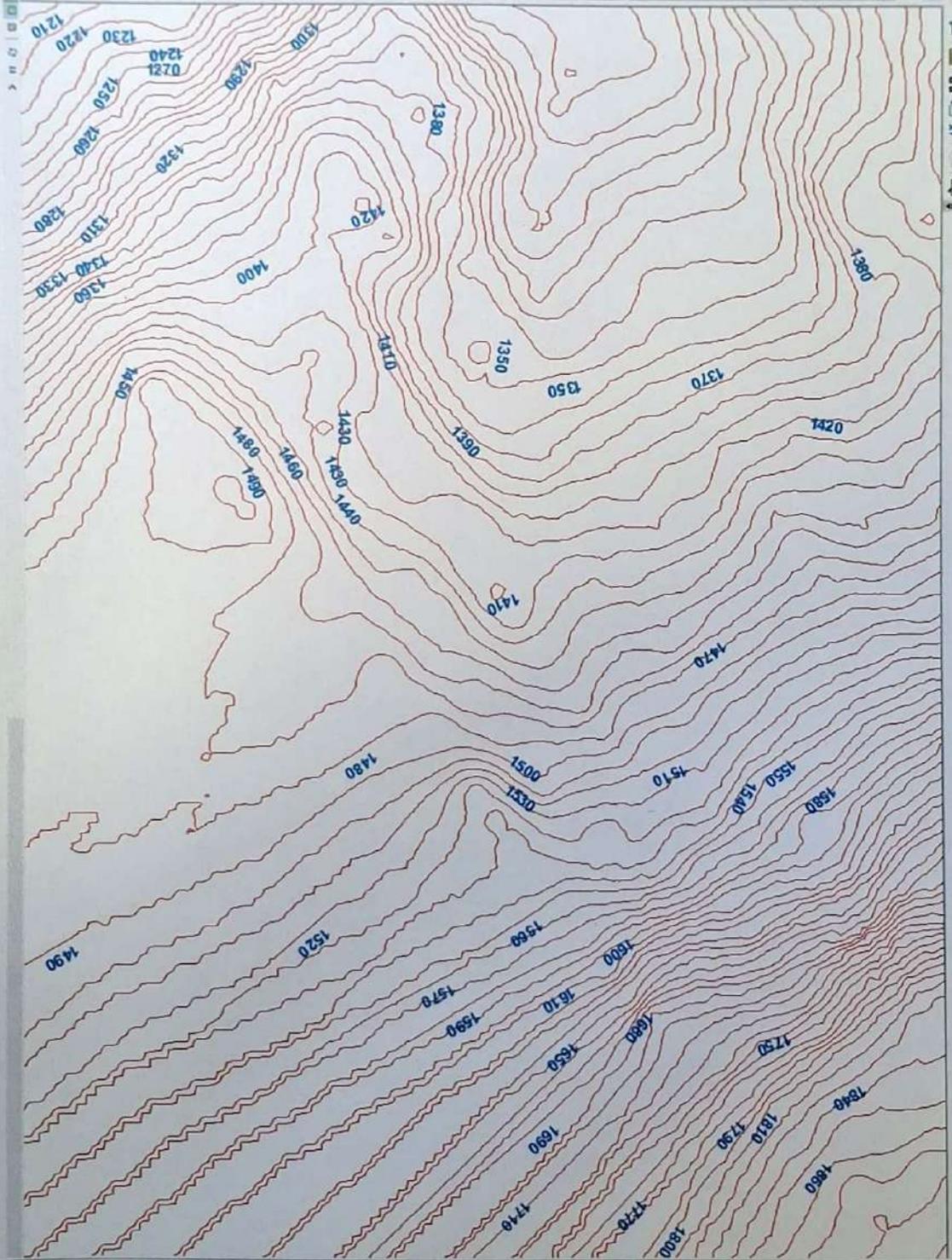
- ArcToolbox**
- ActToolbox
 - 3D Analyst Tools
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 - Data Management Tools
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File View Bookmarks Insert Selection Geoprocessing Customize Windows Help

Scale: 1:15,000

Layers

- DEM (DEM)
- DEM (DEM) - 1,279,342,239
- DEM (DEM) - 1,318,432,247
- DEM (DEM) - 1,400,912,254
- DEM (DEM) - 1,500,202,261
- DEM (DEM) - 1,590,492,268
- DEM (DEM) - 1,680,772,275
- DEM (DEM) - 1,771,052,282
- DEM (DEM) - 1,861,342,289
- DEM (DEM) - 1,951,632,296



ARCtoolbox

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