4   DEM Generation

4.1 Exercise: DEM Generation

Use contour of **W111_1_4.**
Execute the following batch sample.
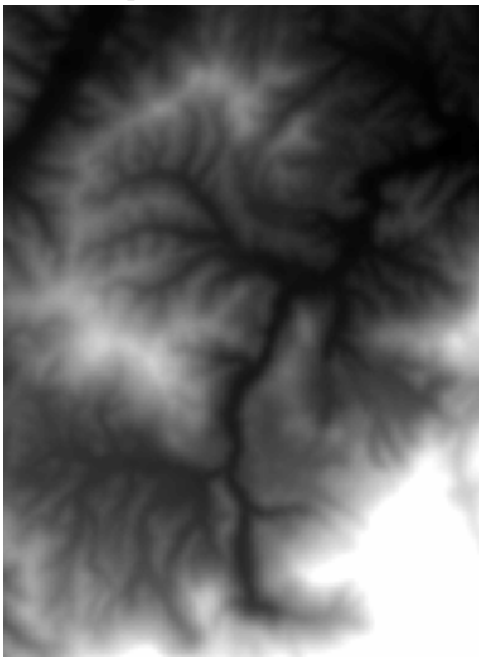Check the dem ArcCatalog or ArcMap.

[Batch sample]

```
topogrid dem_50 50
contour contour elevation
outputs # # log_dem_50
end
```
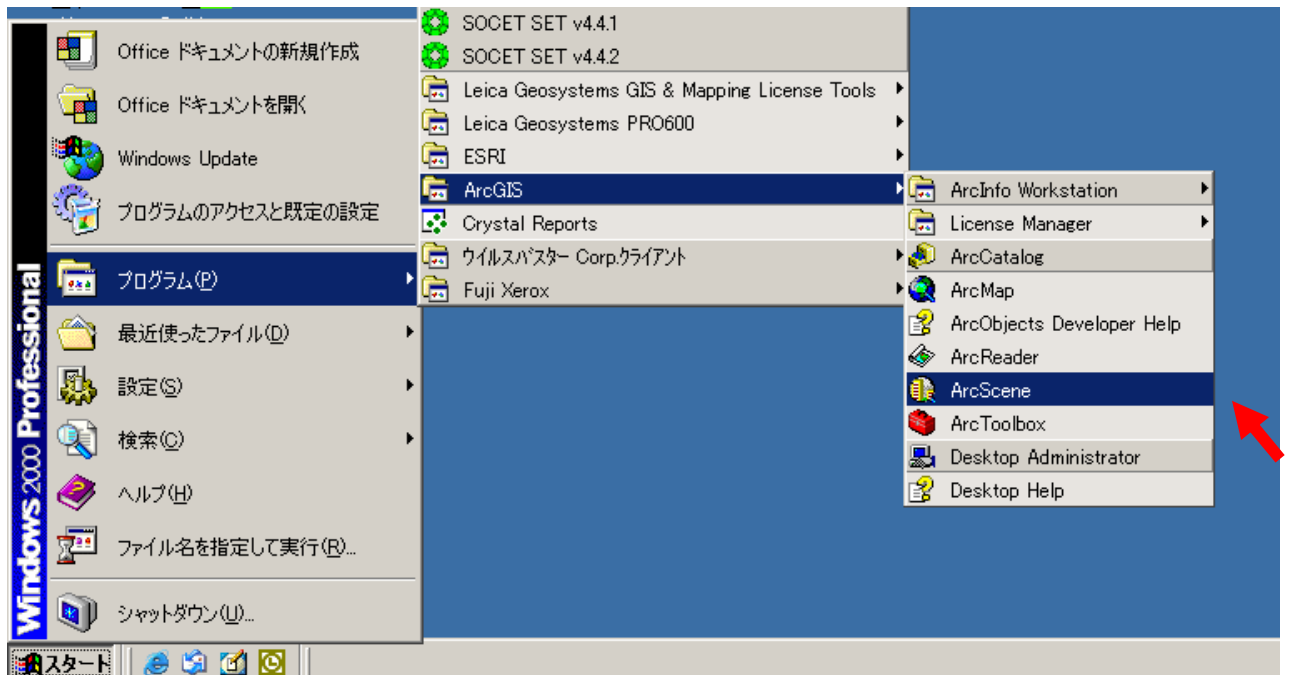
[Arc session sample]

```
Arc: &run job_topogrid.aml
Output diagnostic file log_dem_50 exists
Arc: lg
  Workspace:
D:¥KAKIUCHI¥SAMPLE_DATA¥DEM_GENERATION¥W111_1_4

  Available GRIDs
  -------------------
    DEM_50
Arc:
```
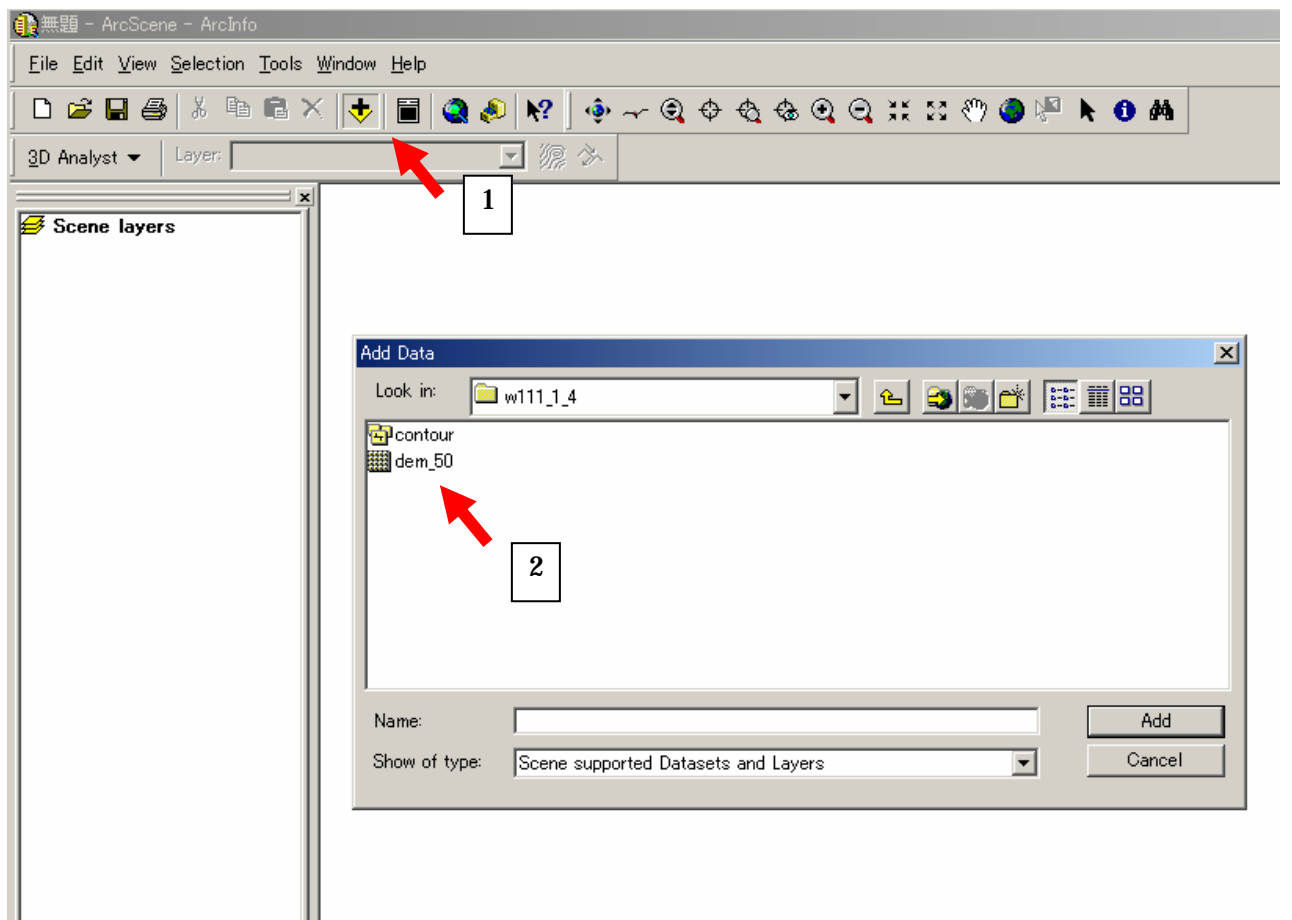
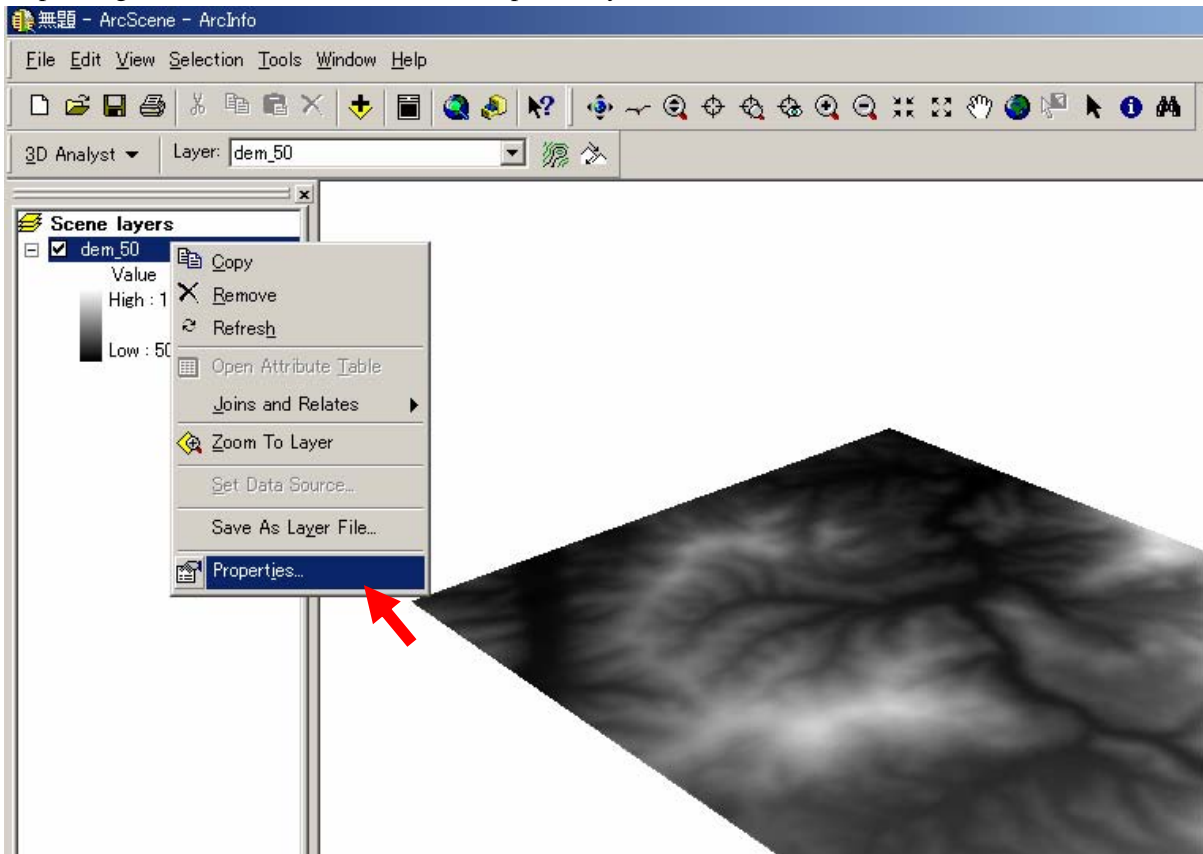[DEM sample]

4.2 ArcScene

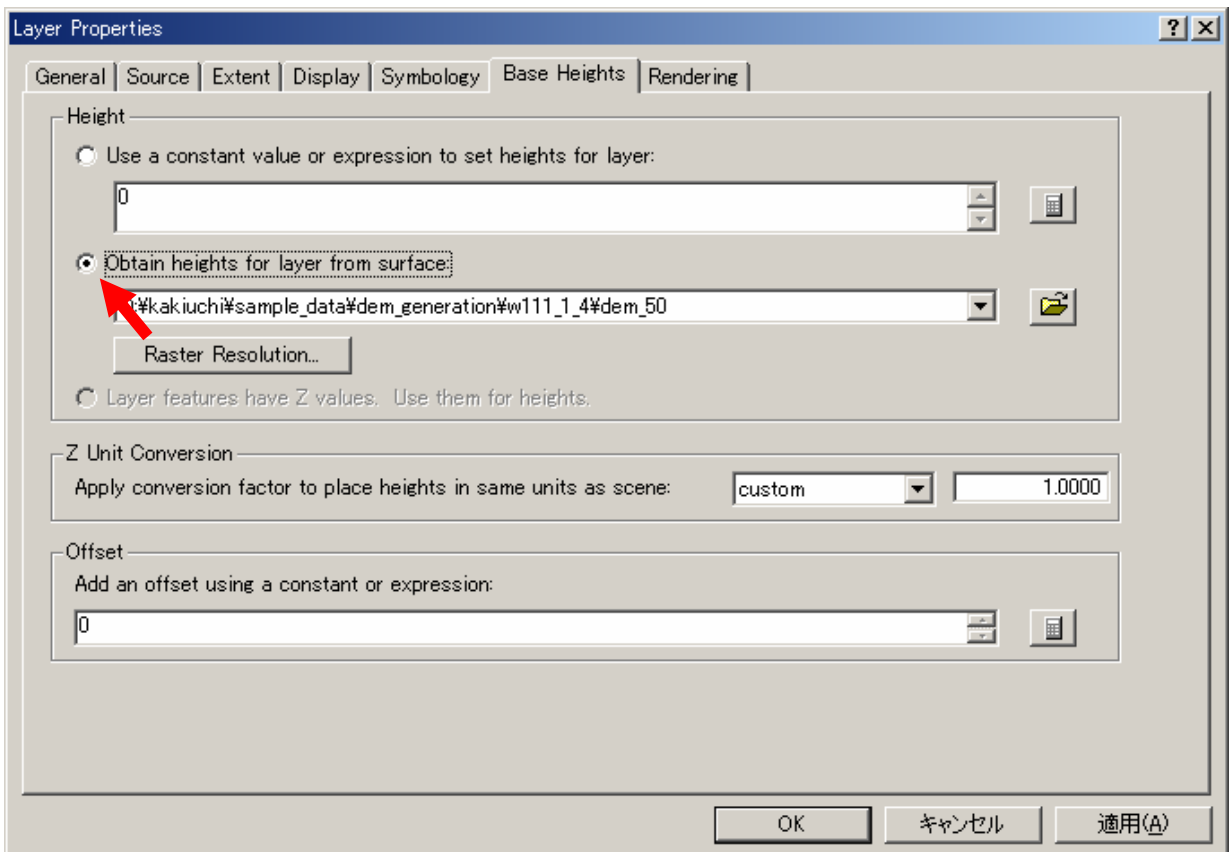Step 1: Select ArcScene to open the program.

Step 2: Add your dem data (dem_50) clicking 1 and 2 sequentially.
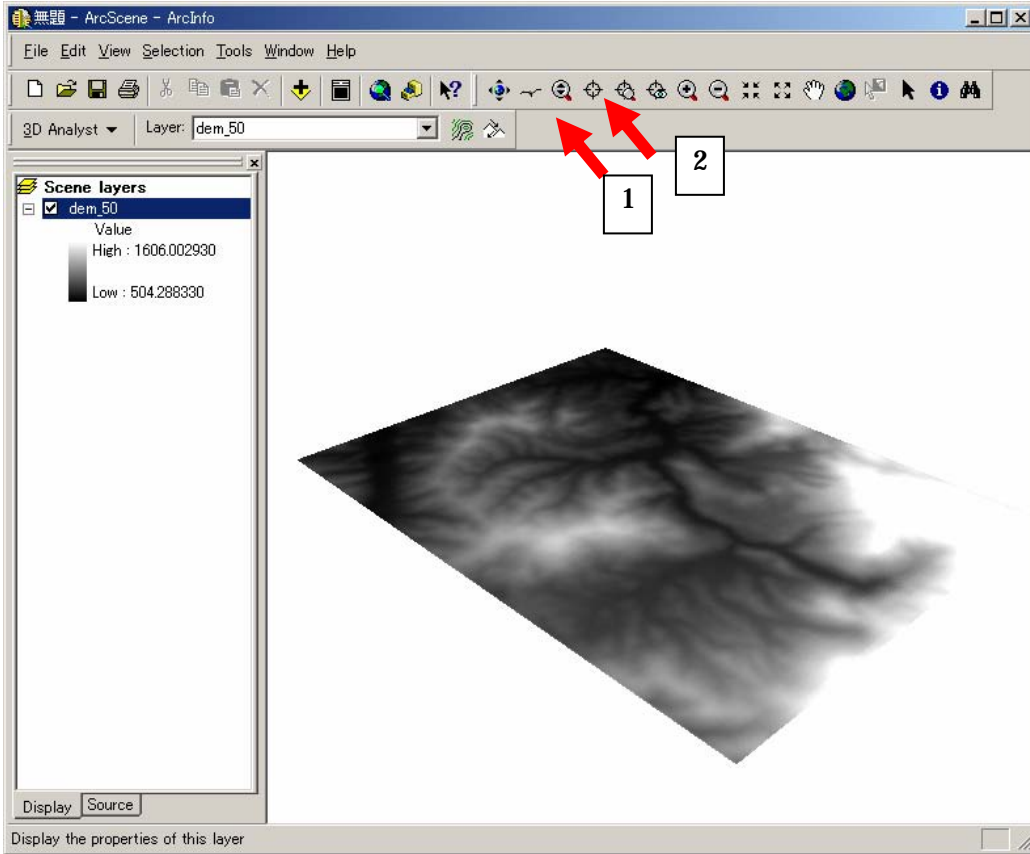
Step 3: Right-click on dem_50 and select Properties by left-click.
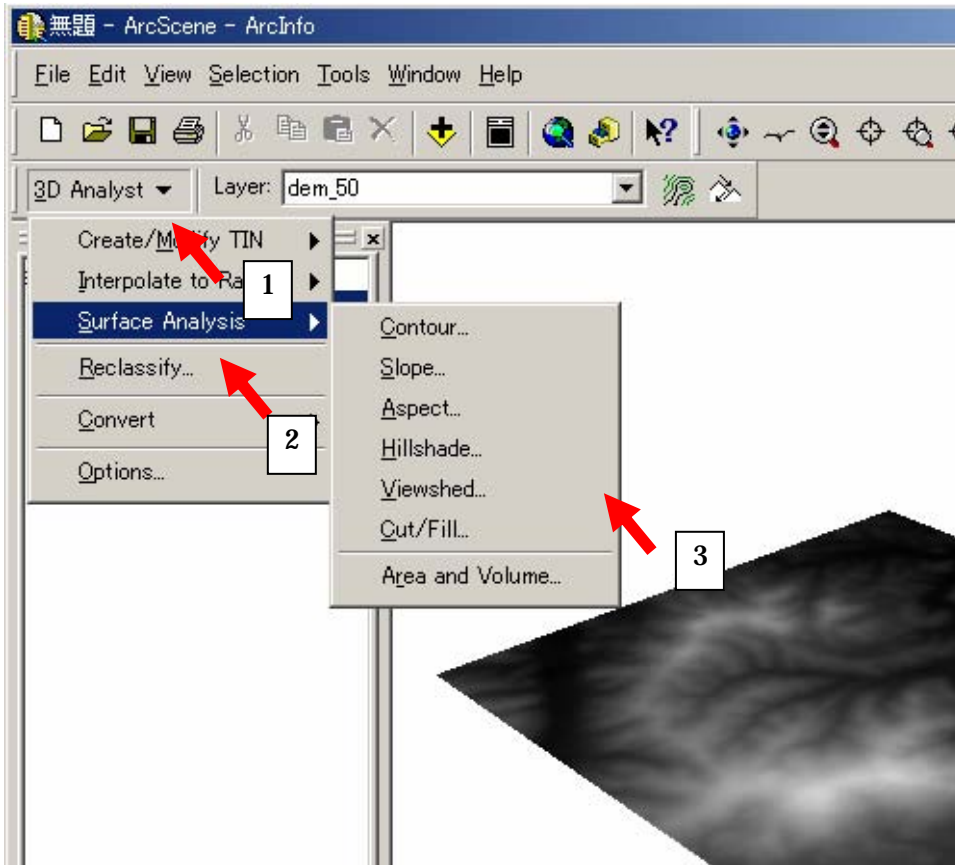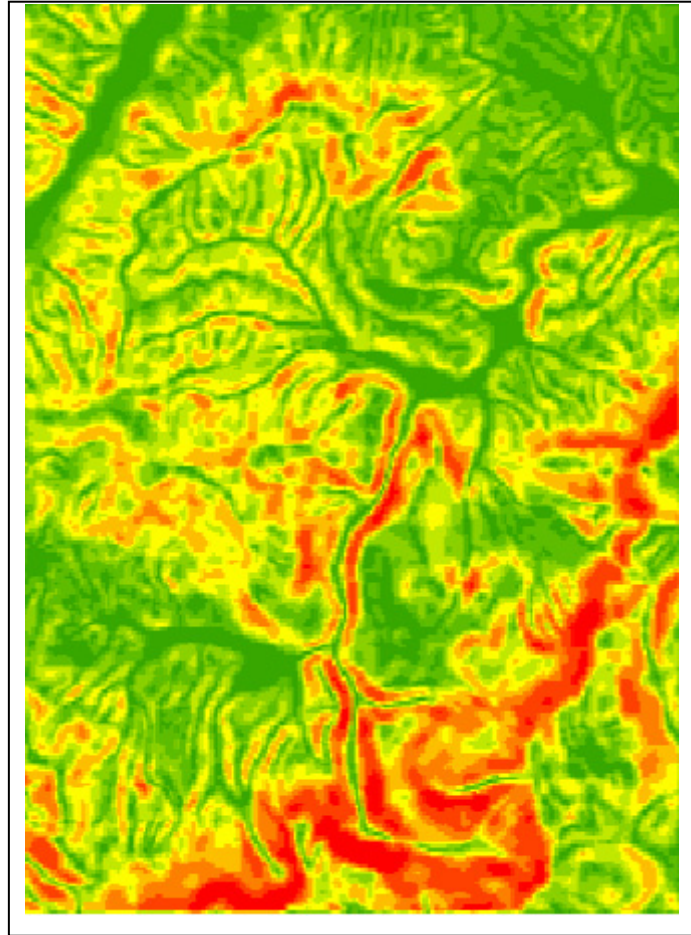

Step 4: Check 'Obtain height for layer from surface:'
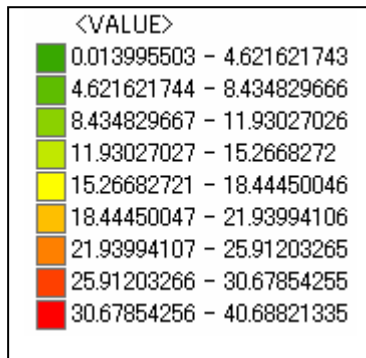

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Step 5: Try 1) Navigate and 2) Fly and the others.
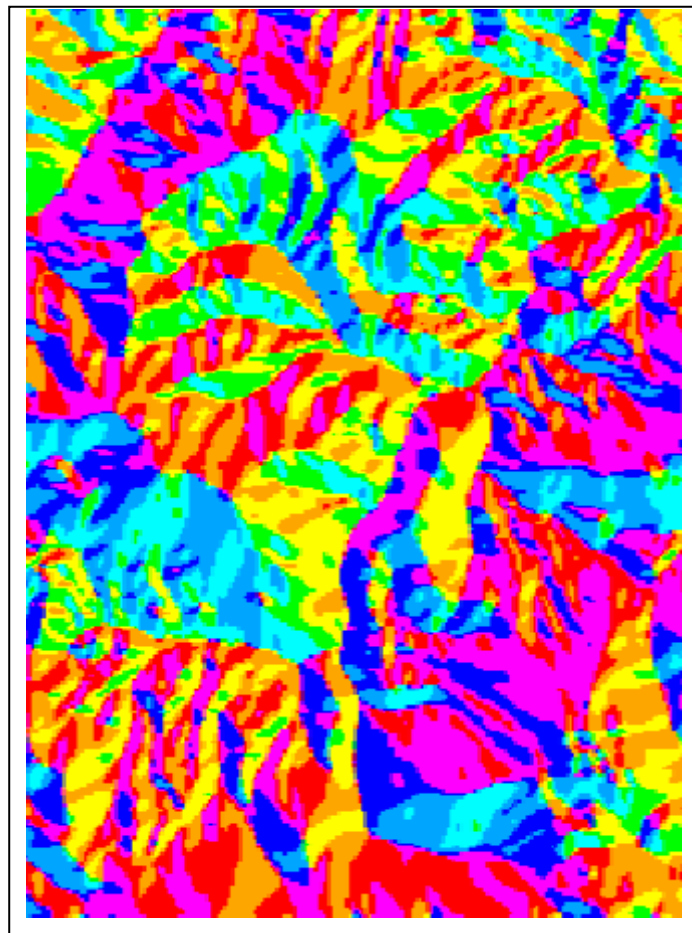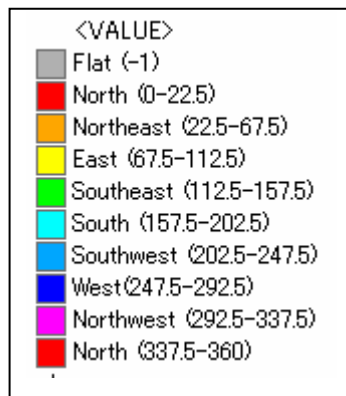

Step 6: Click 3D Analyst, Surface Analysis sequentially and then try Slope, Aspect, Hillshade, etc.

Slope

<VALUE>	
■	0.013995503 – 4.621621743
■	4.621621744 – 8.434829666
■	8.434829667 – 11.93027026
■	11.93027027 – 15.2668272
■	15.26682721 – 18.44450046
■	18.44450047 – 21.93994106
■	21.93994107 – 25.91203265
■	25.91203266 – 30.67854255
■	30.67854256 – 40.68821335

Aspect

<VALUE>	
■	Flat (-1)
■	North (0–22.5)
■	Northeast (22.5–67.5)
■	East (67.5–112.5)
■	Southeast (112.5–157.5)
■	South (157.5–202.5)
■	Southwest (202.5–247.5)
■	West (247.5–292.5)
■	Northwest (292.5–337.5)
■	North (337.5–360)

Hillshade

Hillshade