# Crater report 40 of RG2

## General information

**ID :** 40

**Study area :** RG2

**Swirl :** off-swirl

**Morphology :** Bowl-shaped

**Estimate state of degradation :** C

**Mean Diameter :** 104m ± 5.0m

**Mean depht :** 3.4m ± 0.2m

**d/D ratio :** 0.032 ± 0.002

**Circularity index :** 0.93

**Mean slope :** 3.98°

**Mean value of TRI on the rim crest :** 0.07

**Geometric center coordinates :** (3656171.648279642, 235396.76830523435)

**Coordinates of the crater's lowest point :** (3656167.0000011004, 235397.0000000695)

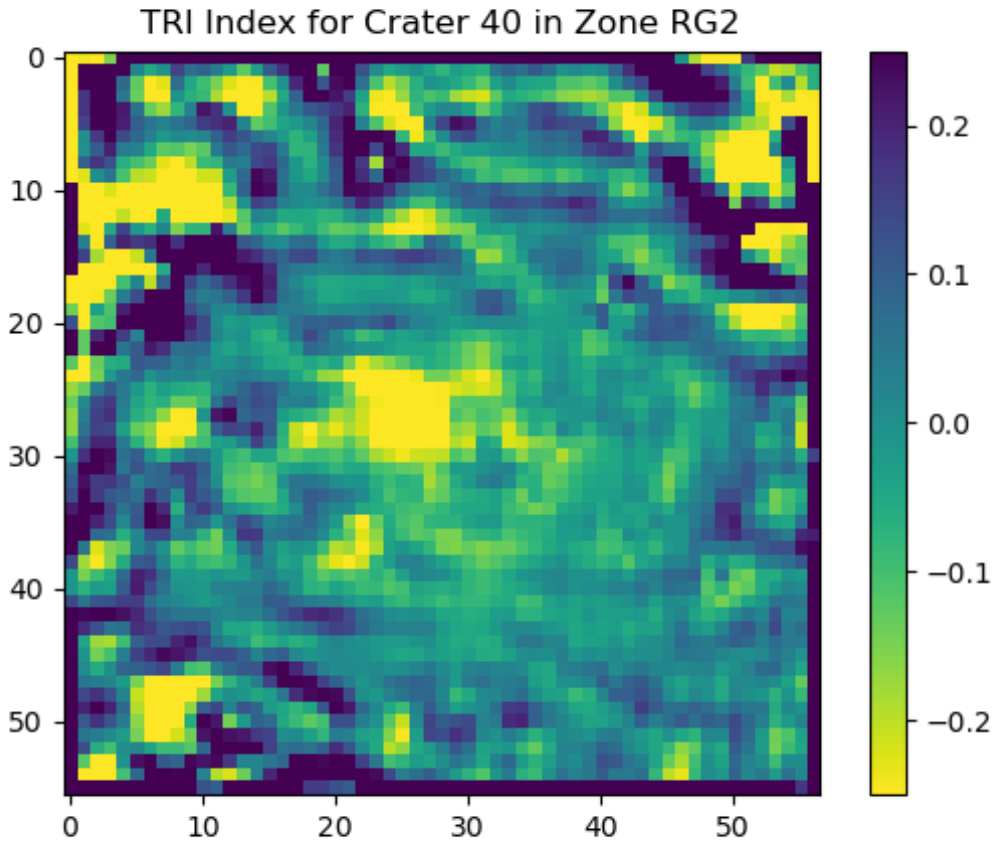
## Slopes data

| North orientation | Slope (°) | Uncertainty (°) |
|---|---|---|
| 0/360° | 4.18 | 0.57 |
| 10° | 3.92 | 0.55 |
| 20° | 3.71 | 0.51 |
| 30° | 3.73 | 0.48 |
| 40° | 3.79 | 0.43 |
| 50° | 3.64 | 0.43 |
| 60° | 3.4 | 0.48 |
| 70° | 3.4 | 0.51 |
| 80° | 3.31 | 0.54 |
| 90° | 3.53 | 0.57 |
| 100° | 3.5 | 0.54 |
| 110° | 3.59 | 0.51 |

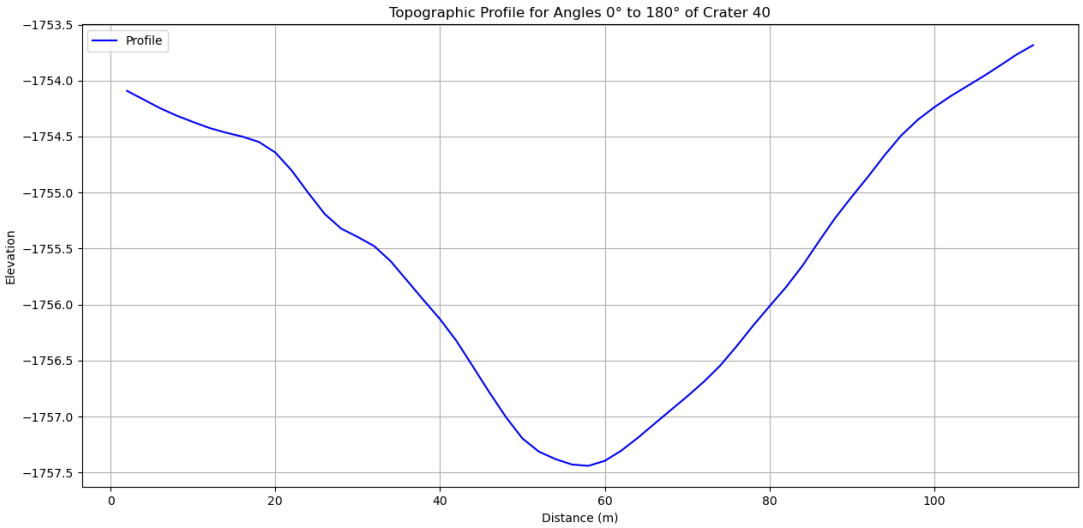
| | | |
|---|---|---|
| 120° | 3.64 | 0.48 |
| 130° | 3.83 | 0.43 |
| 140° | 3.87 | 0.43 |
| 150° | 3.78 | 0.48 |
| 160° | 3.91 | 0.51 |
| 170° | 4.11 | 0.55 |
| 180° | 4.41 | 0.57 |
| 190° | 4.34 | 0.55 |
| 200° | 4.46 | 0.52 |
| 210° | 4.46 | 0.48 |
| 220° | 4.59 | 0.43 |
| 230° | 4.47 | 0.43 |
| 240° | 4.04 | 0.48 |
| 250° | 4.22 | 0.51 |
| 260° | 4.22 | 0.54 |
| 270° | 4.05 | 0.57 |
| 280° | 4.2 | 0.54 |
| 290° | 4.13 | 0.51 |
| 300° | 4.06 | 0.48 |
| 310° | 4.25 | 0.44 |
| 320° | 4.25 | 0.44 |
| 330° | 4.1 | 0.47 |
| 340° | 4.02 | 0.51 |
| 350° | 4.25 | 0.54 |

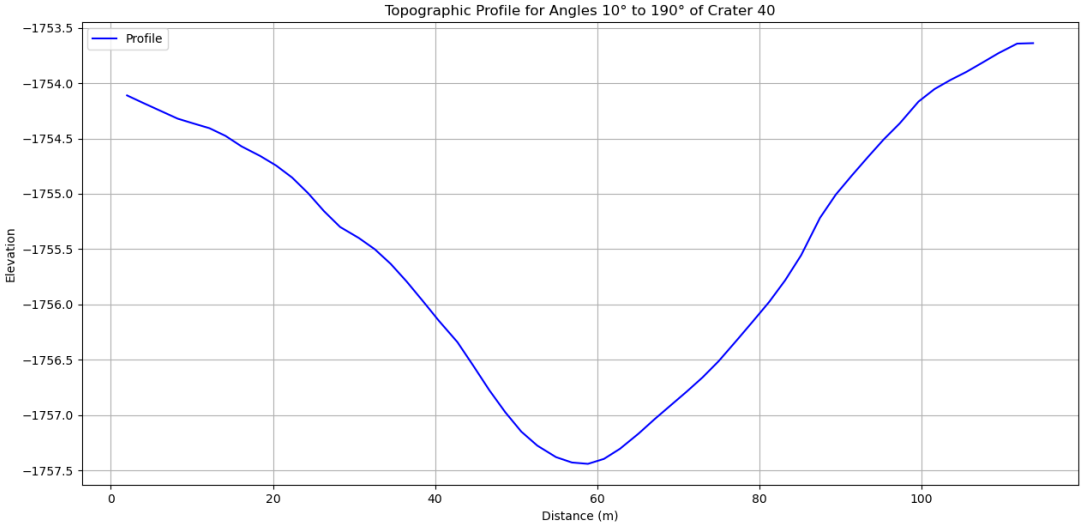
## Topographic roughness index (TRI)

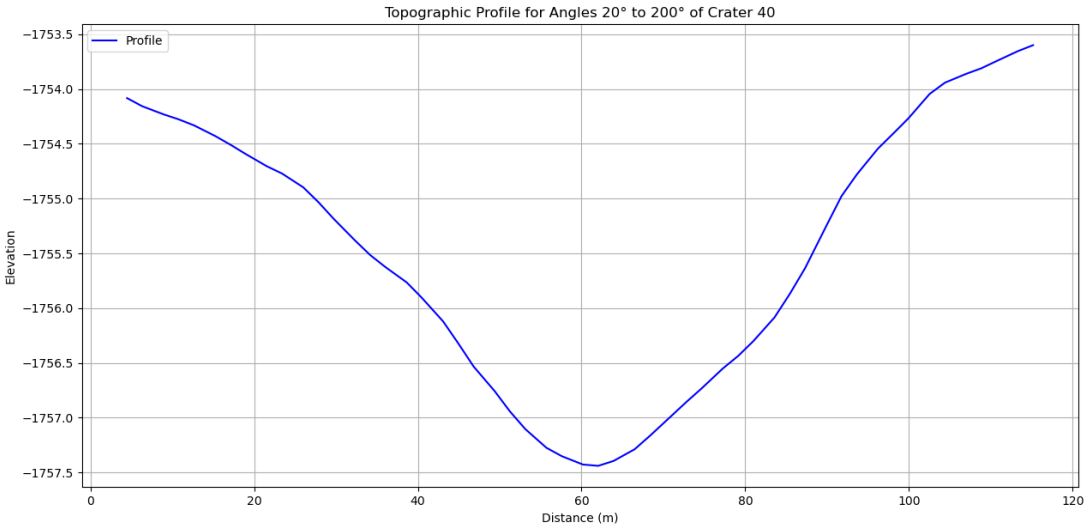
The Topographic Roughness Index (TRI) is a measure used to quantify the ruggedeness or the unevenness of terrain. It reflects how much elevation change over a given area.

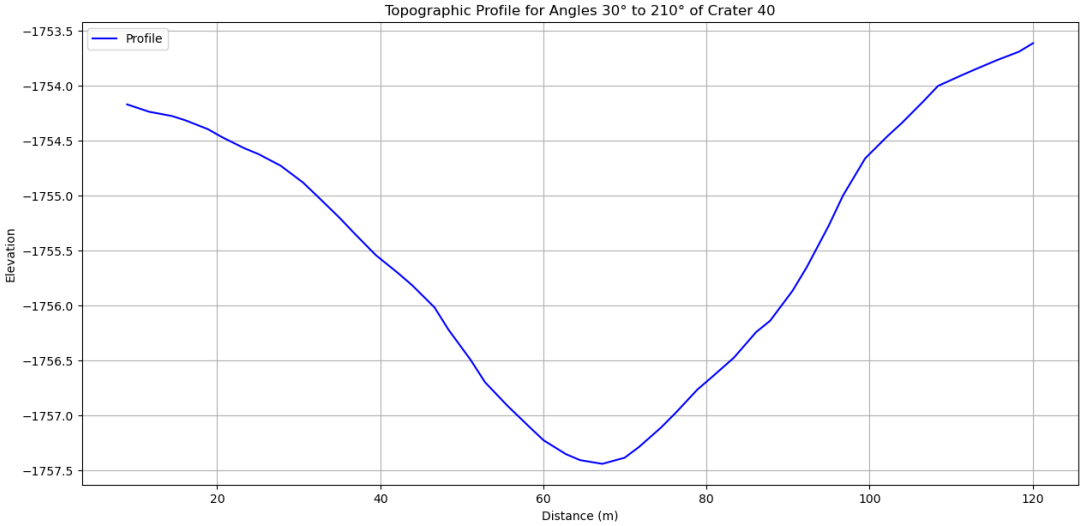


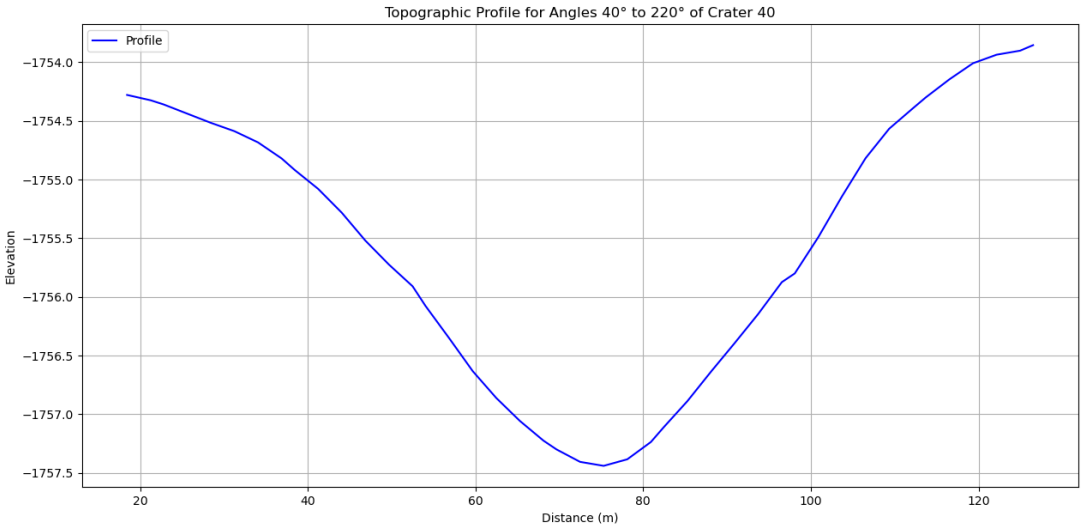

## Topographic profiles

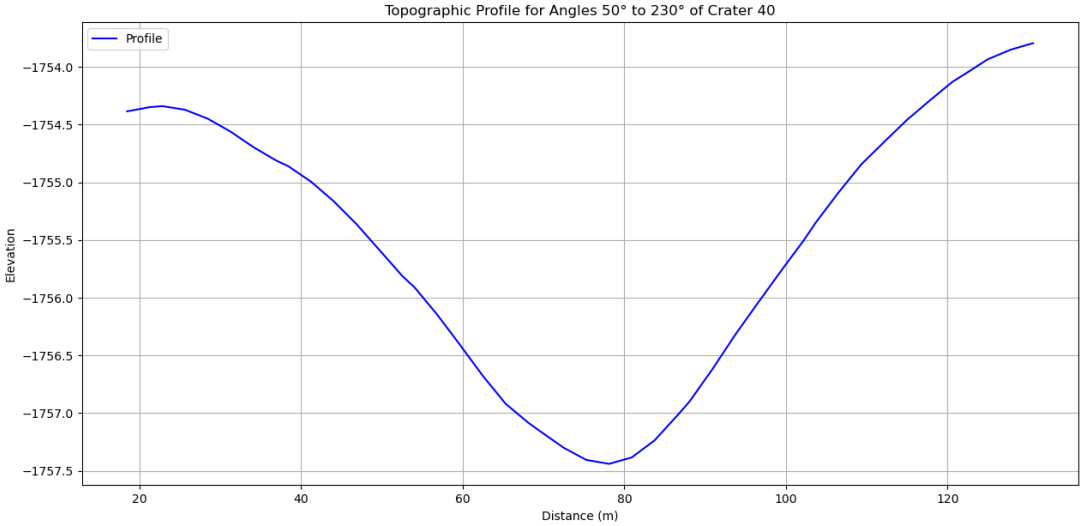



Topographic Profile for Angles 10° to 190° of Crater 40
Profile
Elevation
Distance (m)
−1753.5
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
0
20
40
60
80
100


Topographic Profile for Angles 20° to 200° of Crater 40
Profile
Elevation
Distance (m)
−1753.5
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
0
20
40
60
80
100
120


Topographic Profile for Angles 30° to 210° of Crater 40
Profile
Elevation
Distance (m)
−1753.5
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
20
40
60
80
100
120


Topographic Profile for Angles 40° to 220° of Crater 40
Profile
Elevation
Distance (m)
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
20
40
60
80
100
120


Topographic Profile for Angles 50° to 230° of Crater 40
Profile
Elevation
Distance (m)
−1754.0
−1754.5
−1755.0
−1755.5
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−1756.5
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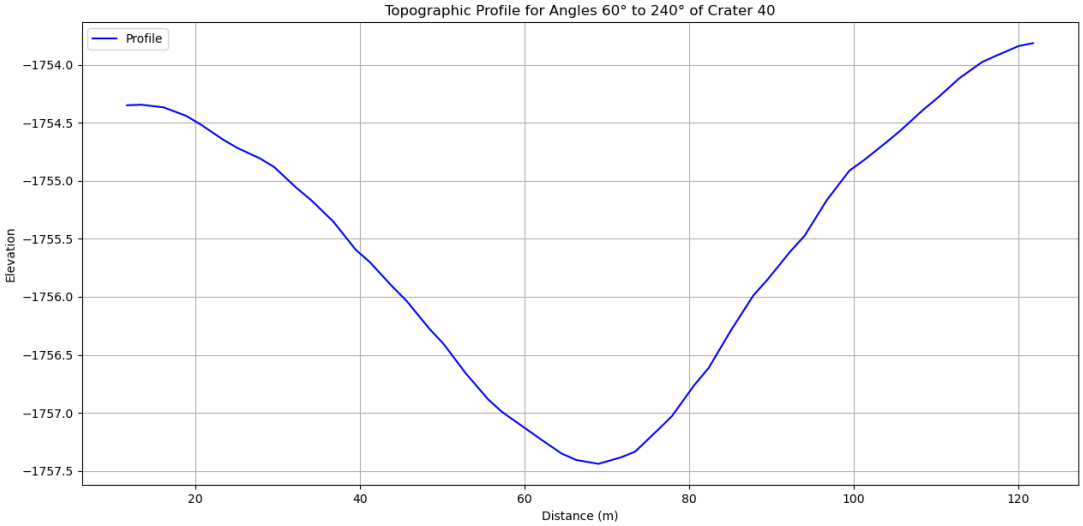
−1757.5
20
40
60
80
100
120


Topographic Profile for Angles 60° to 240° of Crater 40
Profile
Elevation
Distance (m)
−1754.0
−1754.5
−1755.0
−1755.5
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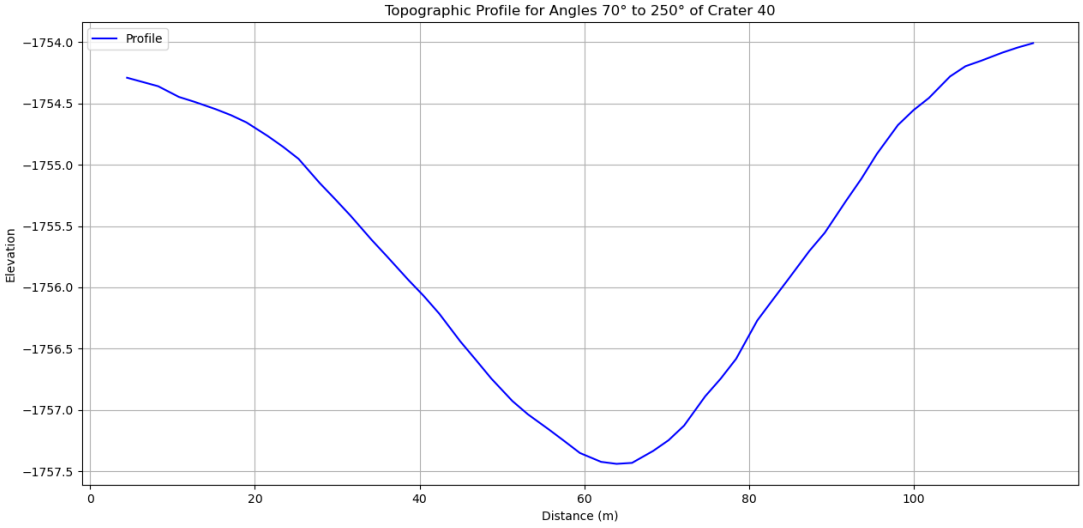
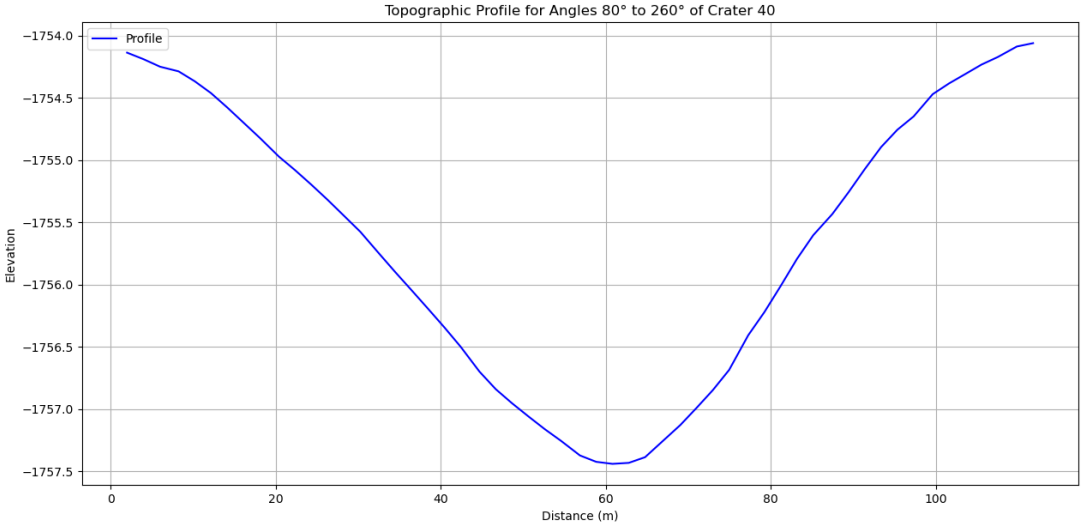
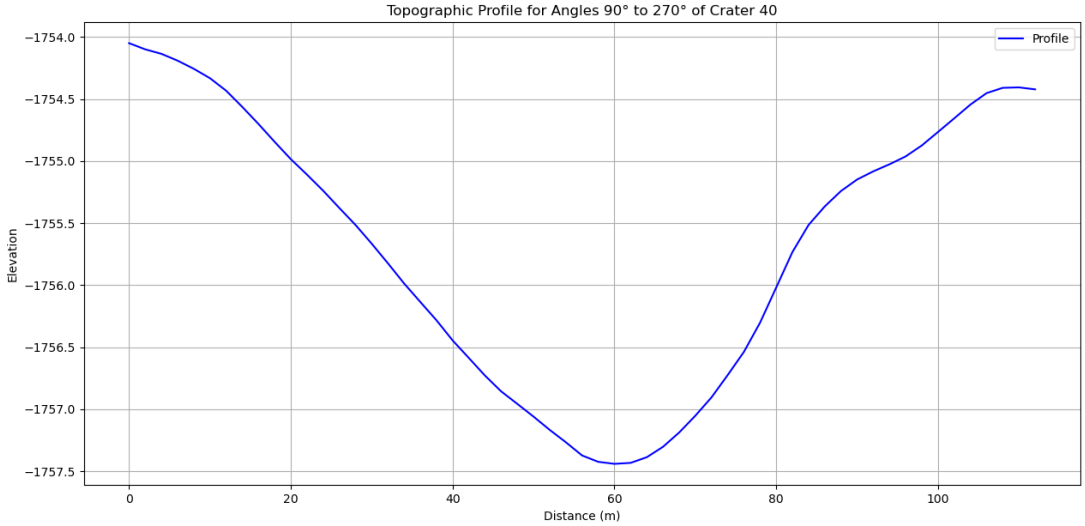
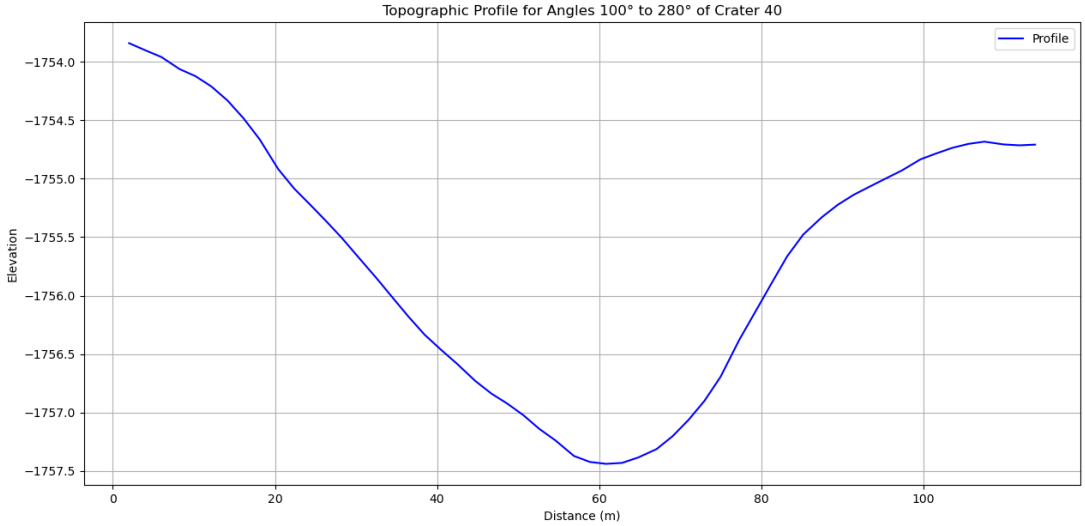
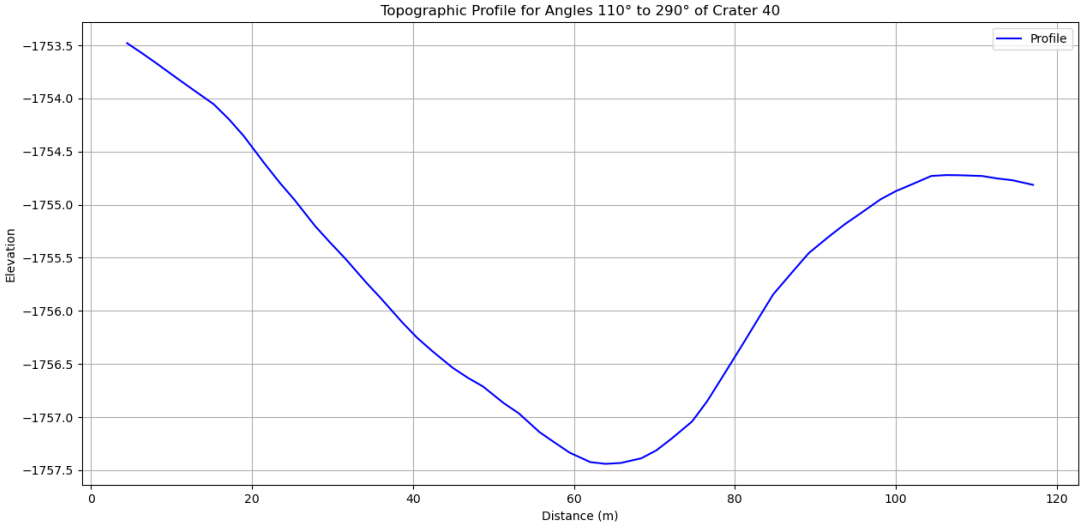
−1756.5
−1757.0
−1757.5
20
40
60
80
100
120


Topographic Profile for Angles 70° to 250° of Crater 40
Profile
Elevation
Distance (m)
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
0
20
40
60
80
100


Topographic Profile for Angles 80° to 260° of Crater 40
Profile
Elevation
Distance (m)
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
0
20
40
60
80
100


Topographic Profile for Angles 90° to 270° of Crater 40
Profile
Elevation
Distance (m)
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
0
20
40
60
80
100


Topographic Profile for Angles 100° to 280° of Crater 40
Profile
Elevation
Distance (m)
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
0
20
40
60
80
100


Topographic Profile for Angles 110° to 290° of Crater 40
Profile
Elevation
−1753.5
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
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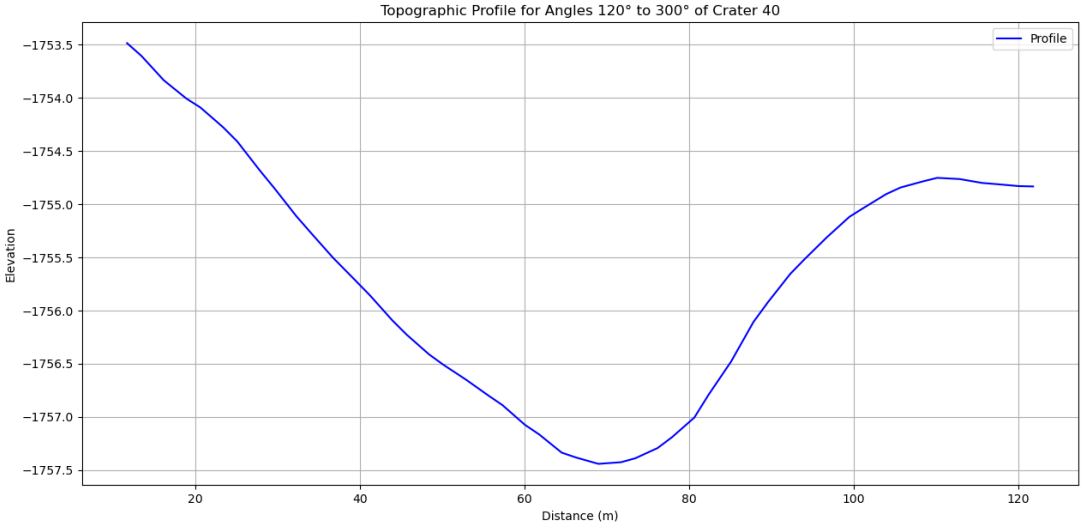
80
100
120
Distance (m)


Topographic Profile for Angles 120° to 300° of Crater 40
Profile
Elevation
−1753.5
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
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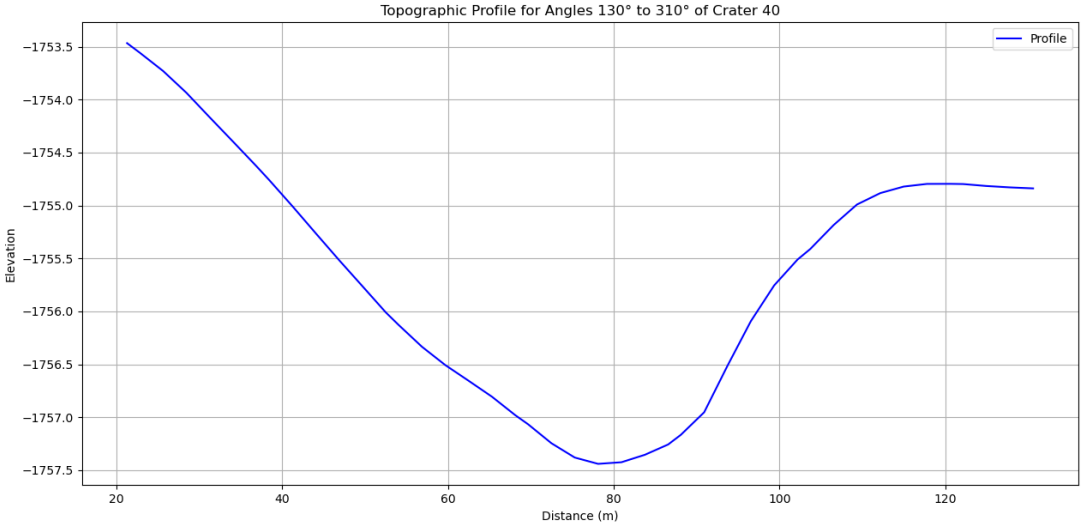
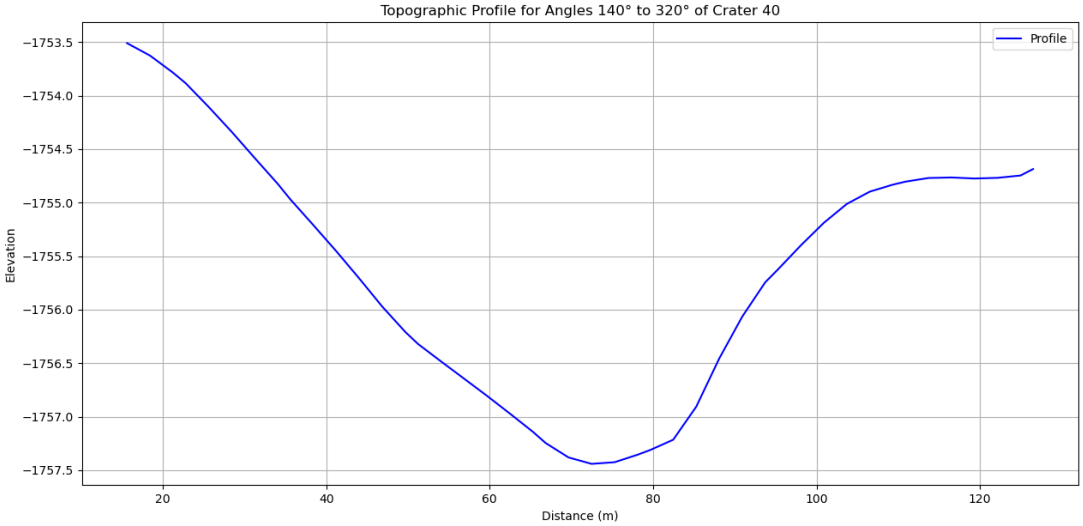
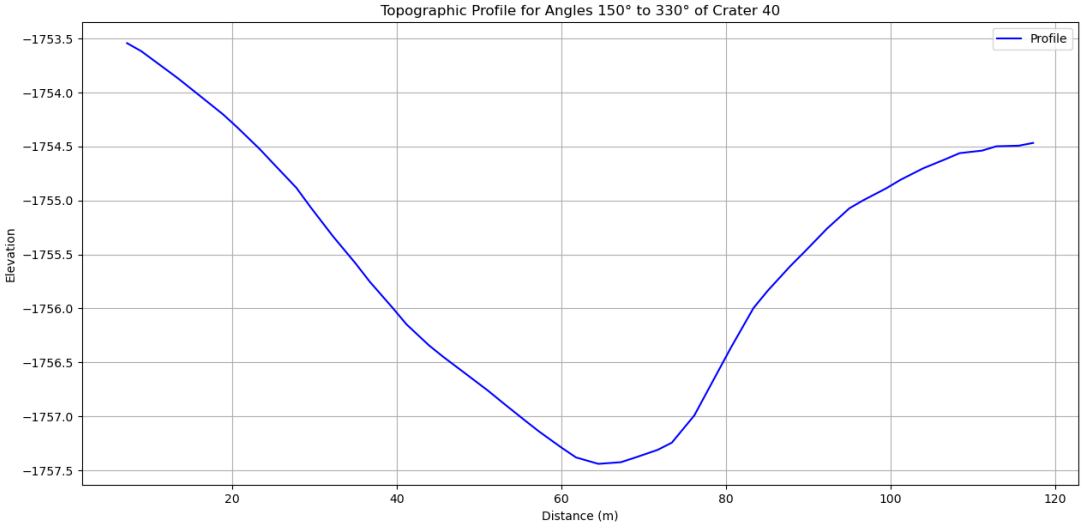
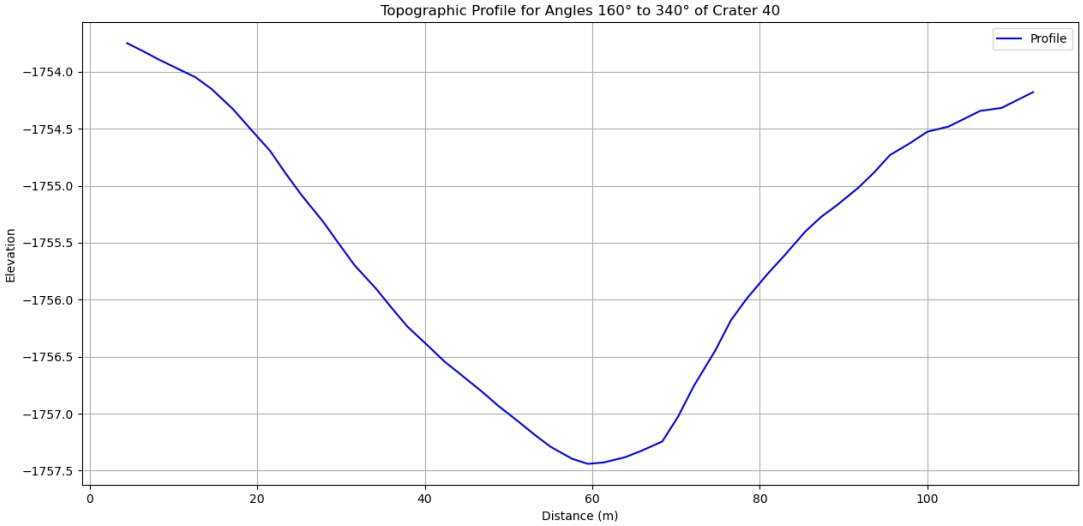
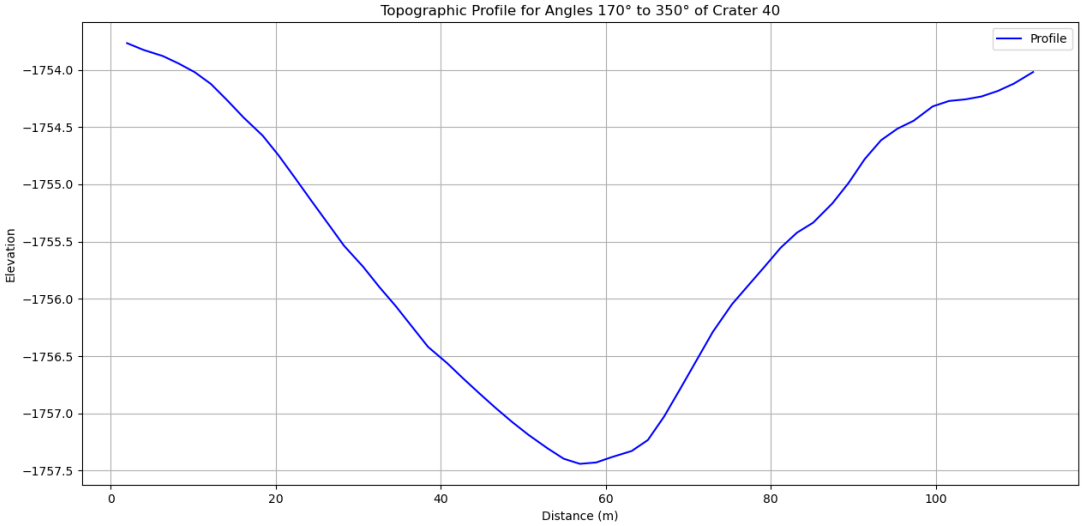
100
120
Distance (m)


Topographic Profile for Angles 130° to 310° of Crater 40
Profile
Elevation
−1753.5
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
20
40
60
80
100
120
Distance (m)


Topographic Profile for Angles 140° to 320° of Crater 40
Profile
Elevation
−1753.5
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
20
40
60
80
100
120
Distance (m)


Topographic Profile for Angles 150° to 330° of Crater 40
Profile
Elevation
−1753.5
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
20
40
60
80
100
120
Distance (m)


Topographic Profile for Angles 160° to 340° of Crater 40
Profile
Elevation
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
0
20
40
60
80
100
Distance (m)


Topographic Profile for Angles 170° to 350° of Crater 40
Profile
Elevation
−1754.0
−1754.5
−1755.0
−1755.5
−1756.0
−1756.5
−1757.0
−1757.5
0
20
40
60
80
100
Distance (m)