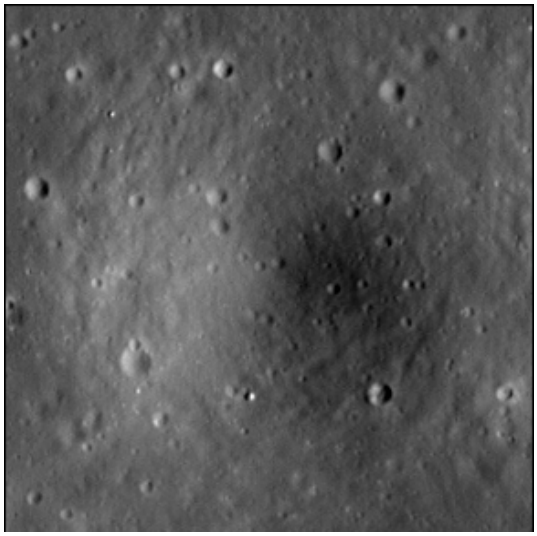
Crater report 3051 of RG2

General information



ID : 3051

Study area : RG2

Swirl : off-swirl

Morphology : Bowl-shaped

Estimate state of degradation : BC - C

Mean Diameter : 143m ± 6.0m

Mean depht : 9.3m ± 0.8m

d/D ratio : 0.065 ± 0.006

Circularity index : 0.9

Mean slope : 8.72°

Mean value of TRI on the rim crest : 0.28

Geometric center coordinates : (3655559.506456975, 211406.49981520182)

Coordinates of the crater's lowest point : (3655569.0000011, 211405.0000000623)

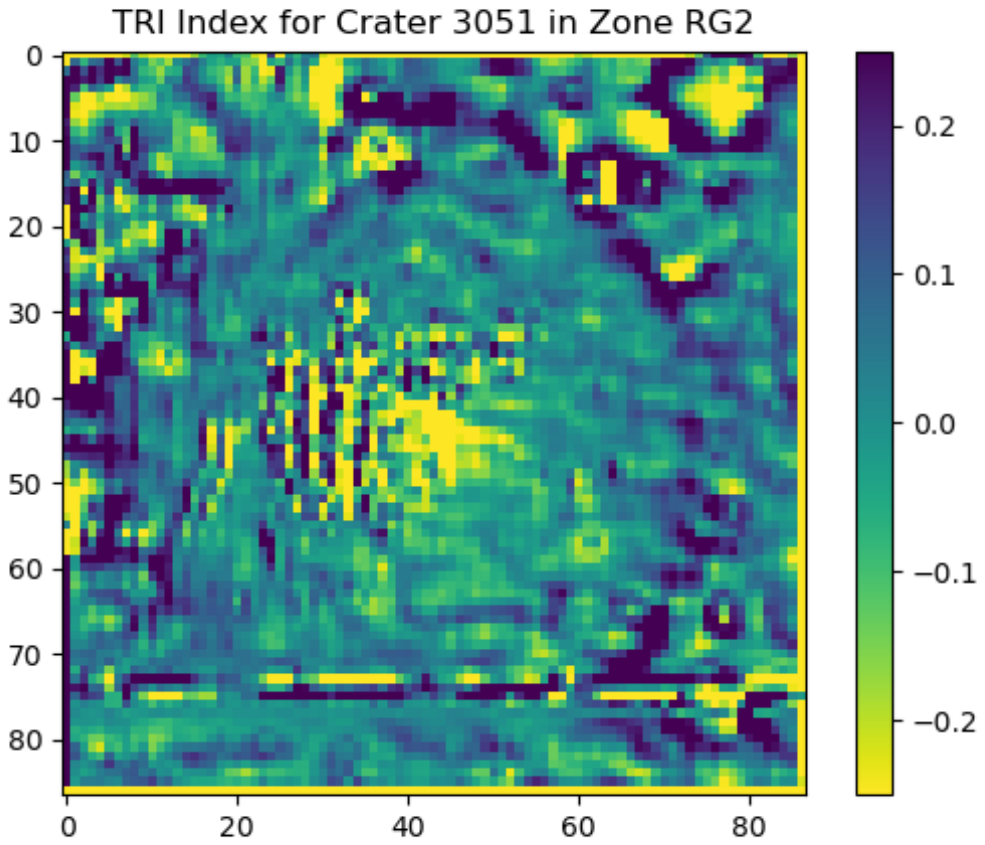
Slopes data

North orientation	Slope (°)	Uncertainty (°)
0/360°	11.43	0.57
10°	11.03	0.54
20°	10.5	0.51
30°	10.21	0.48
40°	10.2	0.44
50°	9.36	0.44
60°	8.61	0.48
70°	8.36	0.51
80°	8.2	0.55
90°	8.23	0.57
100°	7.55	0.55
110°	6.62	0.51

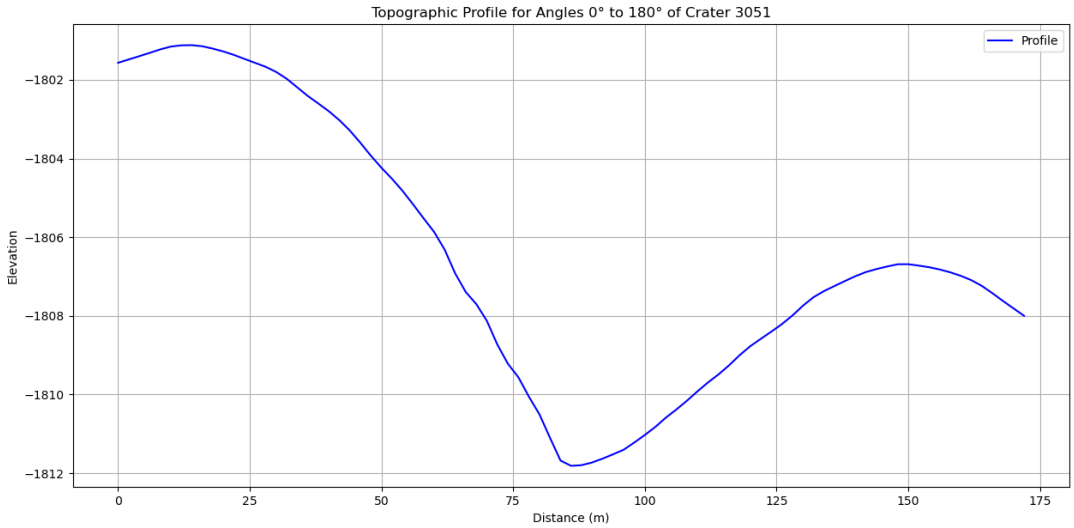
120°	5.63	0.48
130°	4.95	0.43
140°	4.74	0.43
150°	4.55	0.48
160°	4.44	0.52
170°	4.69	0.54
180°	5.28	0.57
190°	5.48	0.54
200°	5.75	0.51
210°	6.54	0.48
220°	8.26	0.43
230°	9.56	0.43
240°	9.8	0.48
250°	9.91	0.52
260°	10.67	0.54
270°	11.59	0.57
280°	11.7	0.54
290°	11.38	0.51
300°	11.71	0.48
310°	11.46	0.43
320°	11.73	0.43
330°	11.51	0.48
340°	11.31	0.51
350°	11.12	0.54

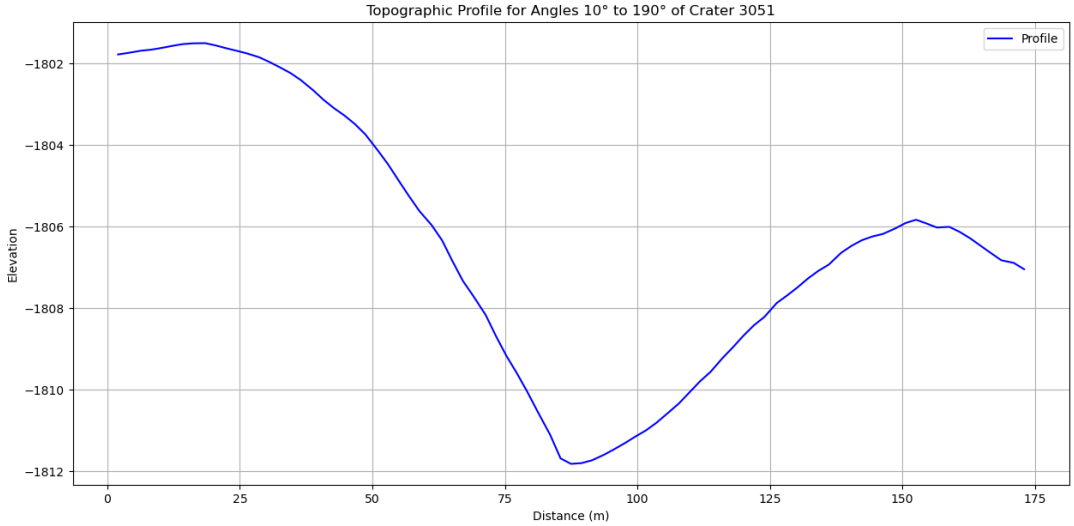
Topographic roughness index (TRI)

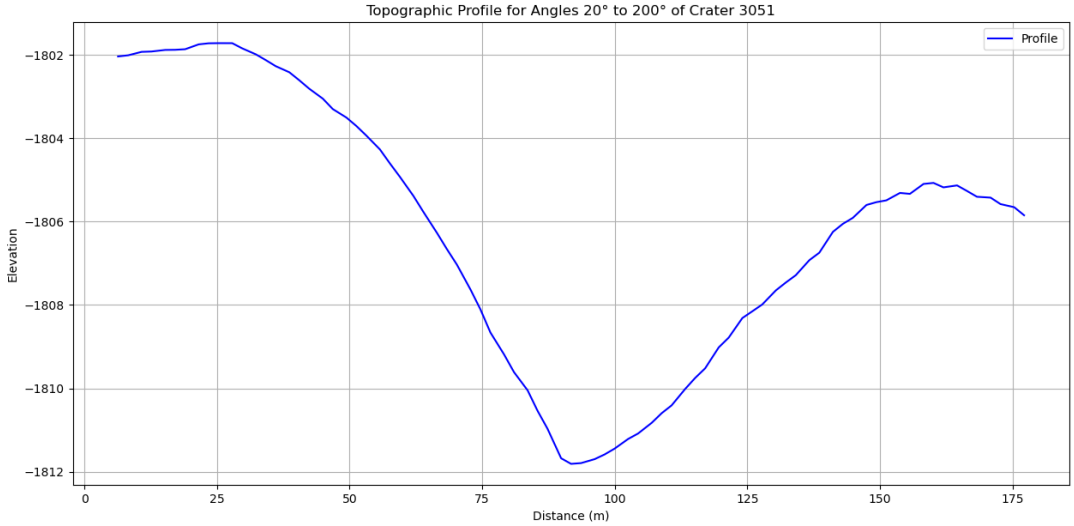
The Topographic Roughness Index (TRI) is a measure used to quantify the ruggedeness or the unevenness of terrain. It reflects how much elevation change over a given area.

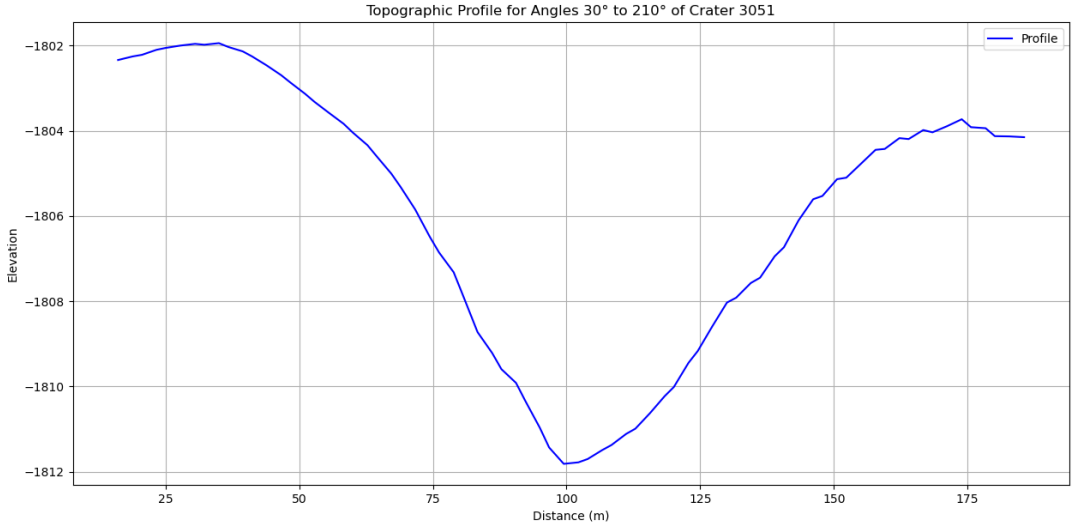


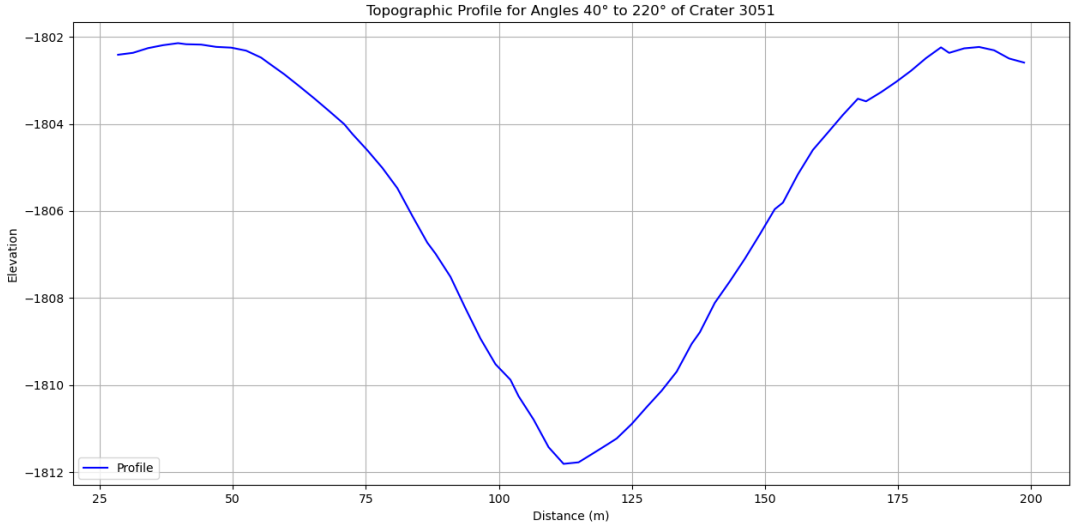
Topographic profiles

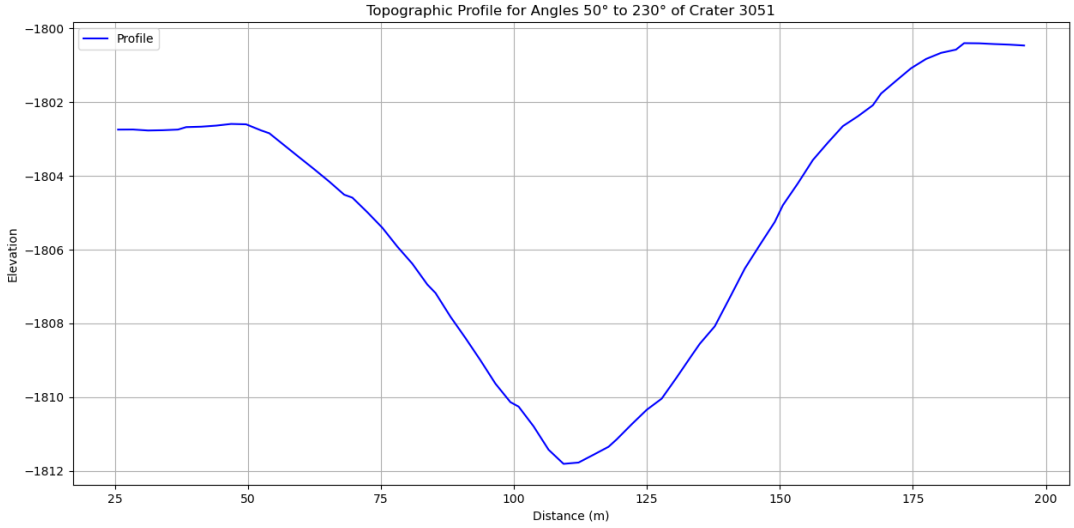


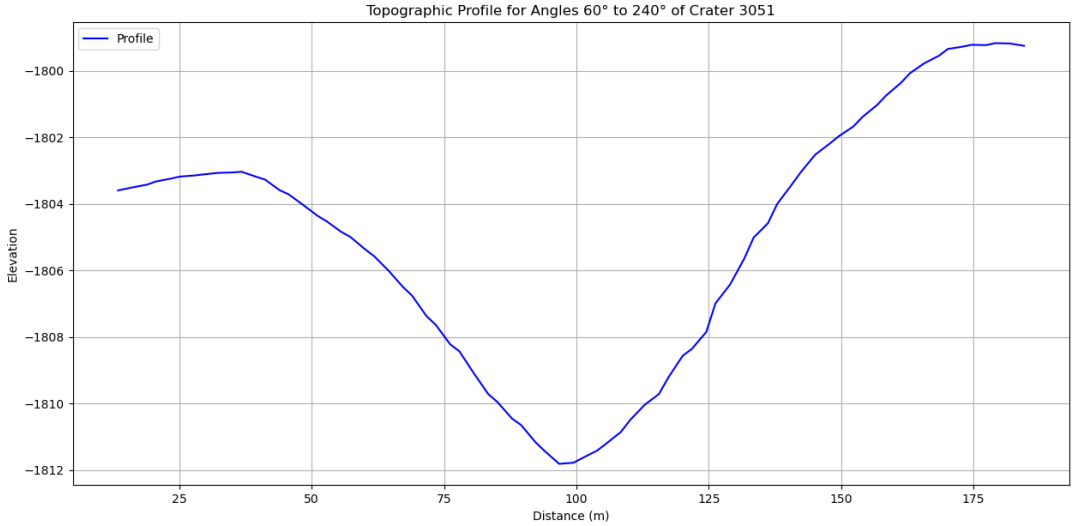

Topographic Profile for Angles 10° to 190° of Crater 3051
Profile
Elevation
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
150
175
Distance (m)

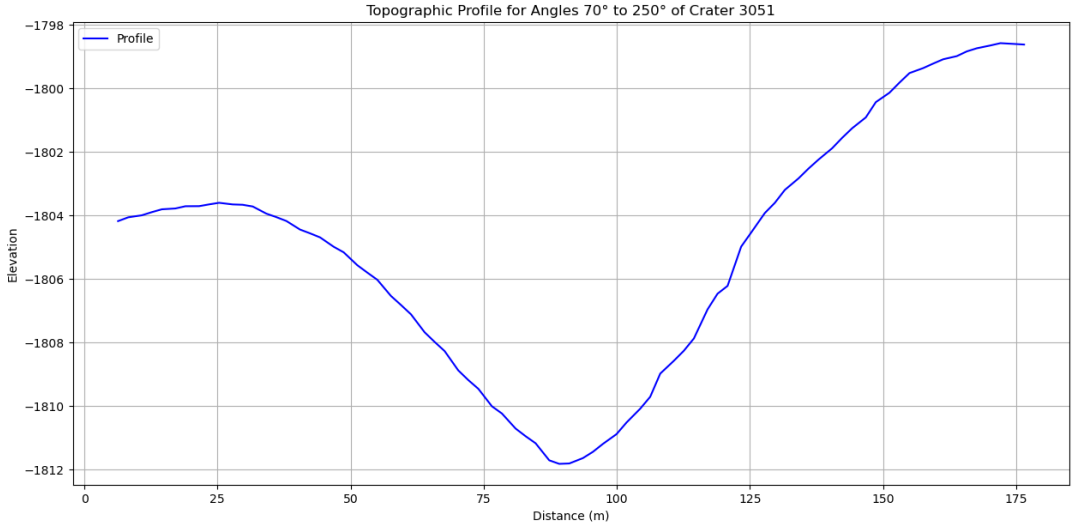

Topographic Profile for Angles 20° to 200° of Crater 3051
Profile
Elevation
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
150
175
Distance (m)

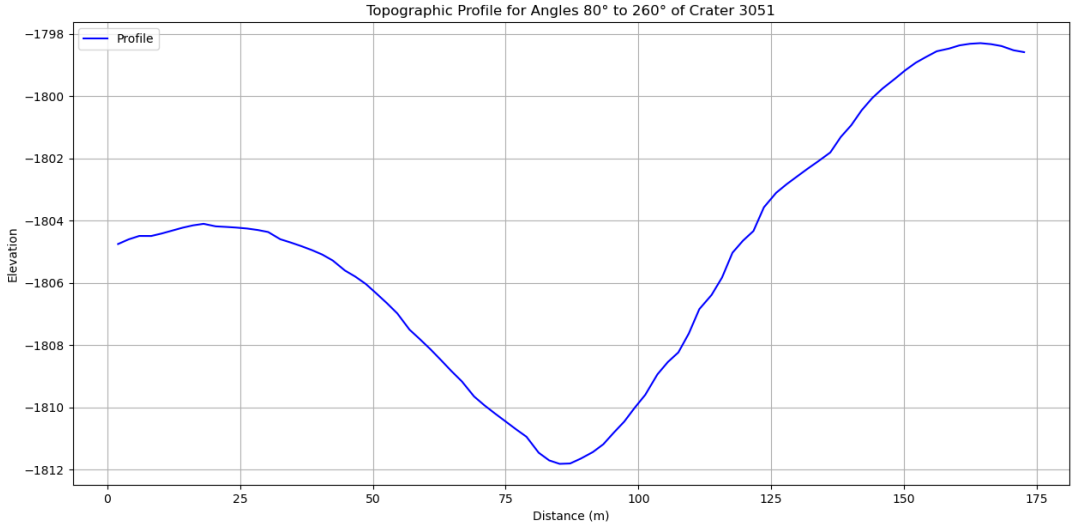

Topographic Profile for Angles 30° to 210° of Crater 3051
Profile
Elevation
Distance (m)
−1802
−1804
−1806
−1808
−1810
−1812
25
50
75
100
125
150
175

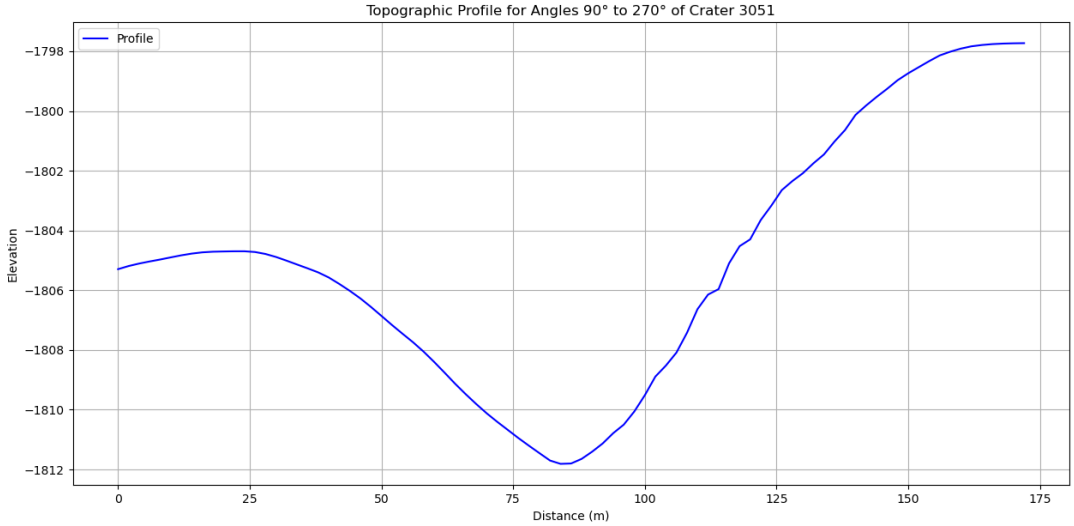

Topographic Profile for Angles 40° to 220° of Crater 3051
Profile
Elevation
Distance (m)
−1802
−1804
−1806
−1808
−1810
−1812
25
50
75
100
125
150
175
200

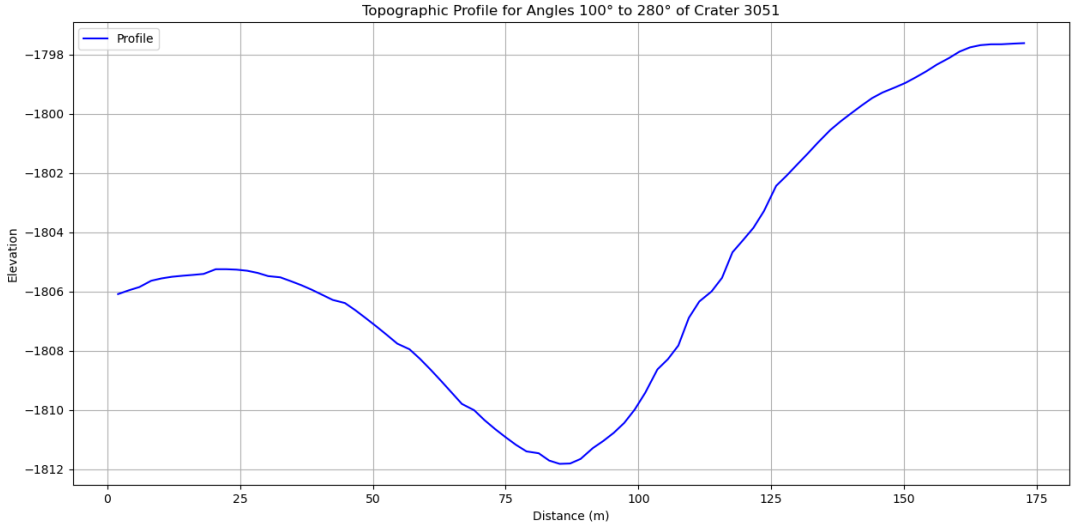

Topographic Profile for Angles 50° to 230° of Crater 3051
Profile
Elevation
Distance (m)
−1800
−1802
−1804
−1806
−1808
−1810
−1812
25
50
75
100
125
150
175
200

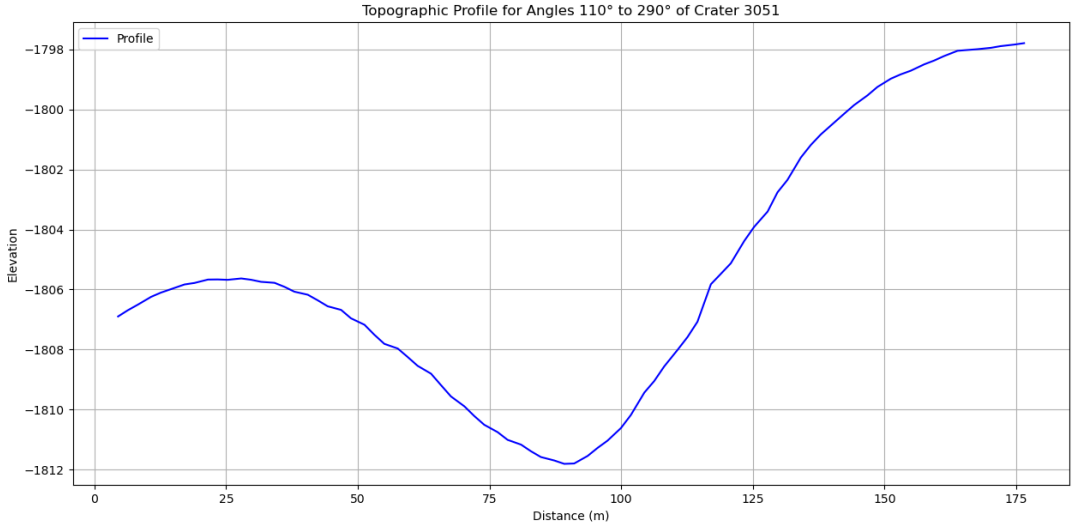

Topographic Profile for Angles 60° to 240° of Crater 3051
Profile
Elevation
Distance (m)
−1800
−1802
−1804
−1806
−1808
−1810
−1812
25
50
75
100
125
150
175


Topographic Profile for Angles 70° to 250° of Crater 3051
Profile
Elevation
Distance (m)
−1798
−1800
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
150
175


Topographic Profile for Angles 80° to 260° of Crater 3051
Profile
Elevation
Distance (m)
−1798
−1800
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
150
175


Topographic Profile for Angles 90° to 270° of Crater 3051
Profile
Elevation
Distance (m)
−1798
−1800
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
150
175


Topographic Profile for Angles 100° to 280° of Crater 3051
Profile
Elevation
Distance (m)
−1798
−1800
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
150
175


Topographic Profile for Angles 110° to 290° of Crater 3051
Profile
Elevation
Distance (m)
−1798
−1800
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
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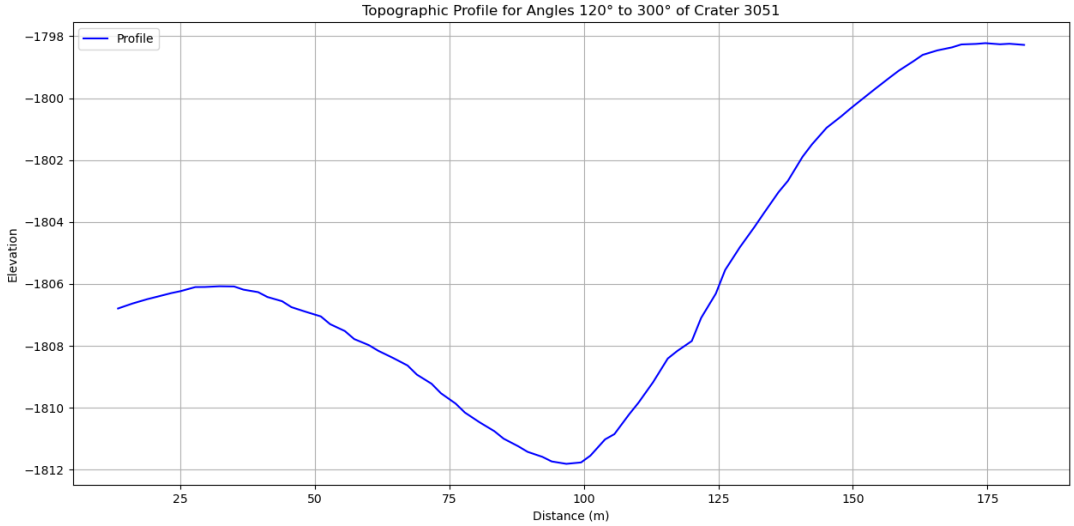
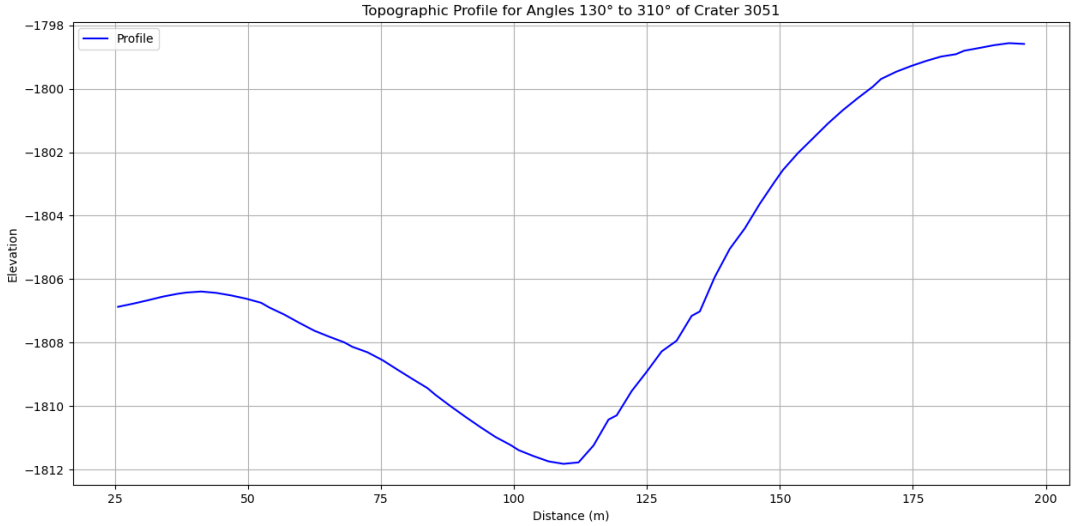
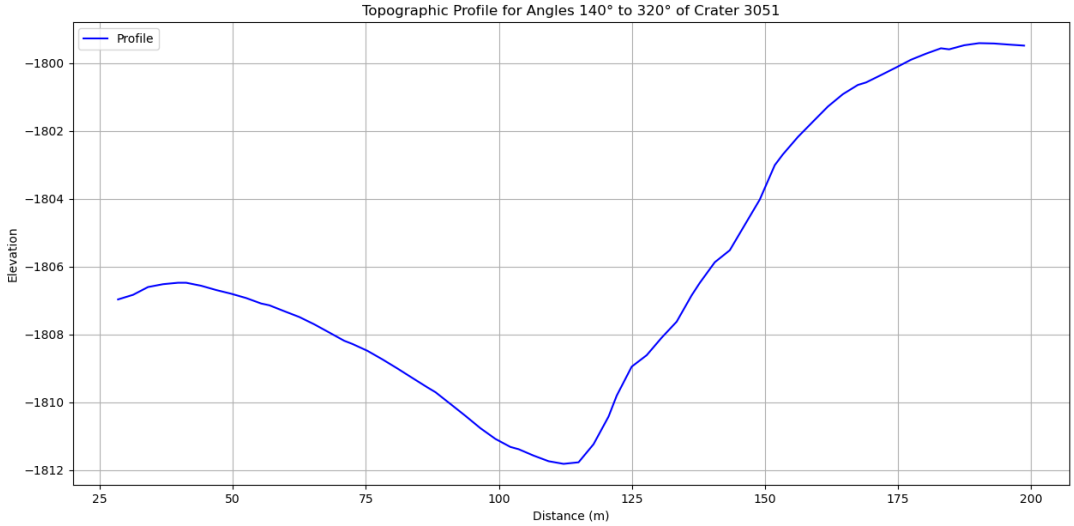
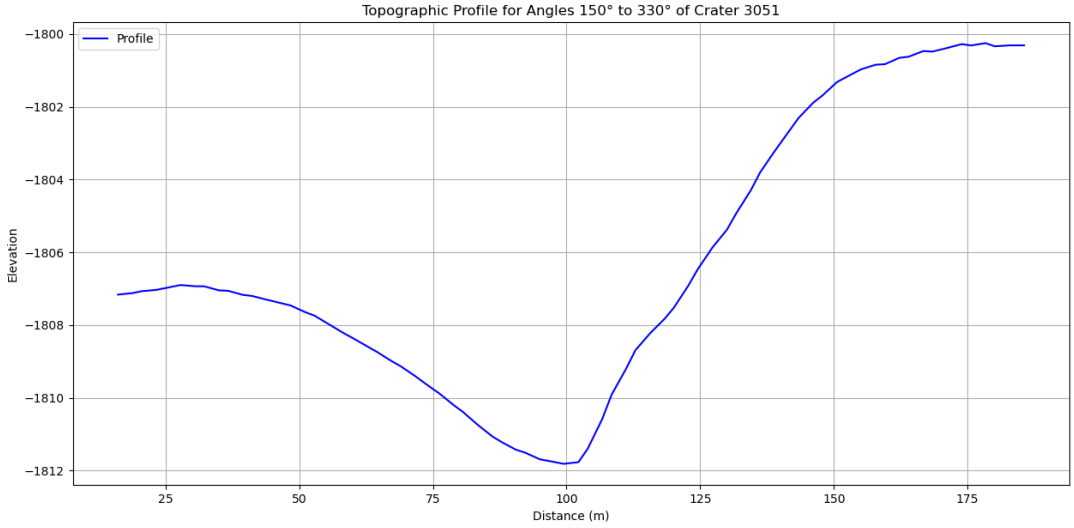
175


Topographic Profile for Angles 120° to 300° of Crater 3051
Profile
Elevation
Distance (m)
−1798
−1800
−1802
−1804
−1806
−1808
−1810
−1812
25
50
75
100
125
150
175


Topographic Profile for Angles 130° to 310° of Crater 3051
Profile
Elevation
Distance (m)
−1798
−1800
−1802
−1804
−1806
−1808
−1810
−1812
25
50
75
100
125
150
175
200


Topographic Profile for Angles 140° to 320° of Crater 3051
Profile
Elevation
Distance (m)
−1800
−1802
−1804
−1806
−1808
−1810
−1812
25
50
75
100
125
150
175
200


Topographic Profile for Angles 150° to 330° of Crater 3051
Profile
Elevation
Distance (m)
−1800
−1802
−1804
−1806
−1808
−1810
−1812
25
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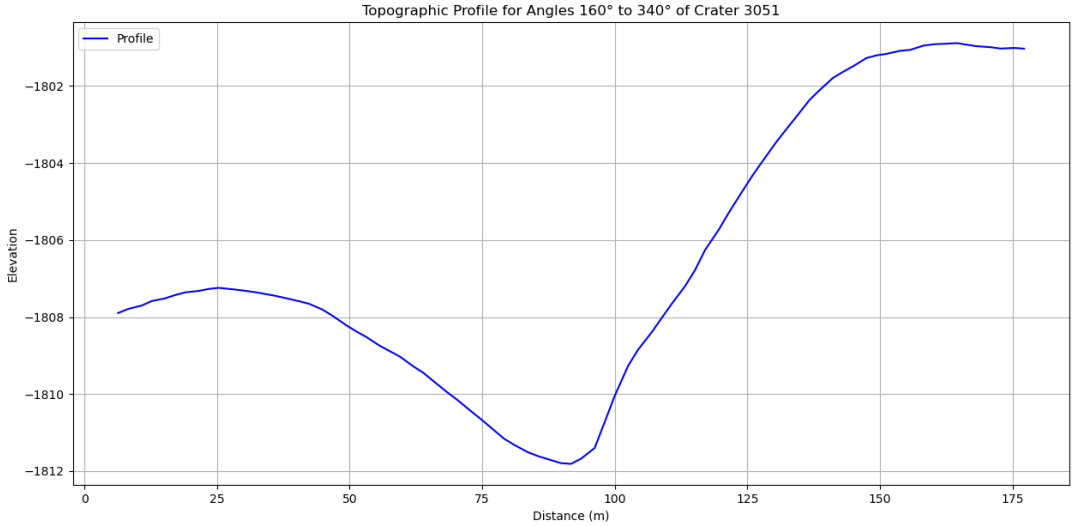
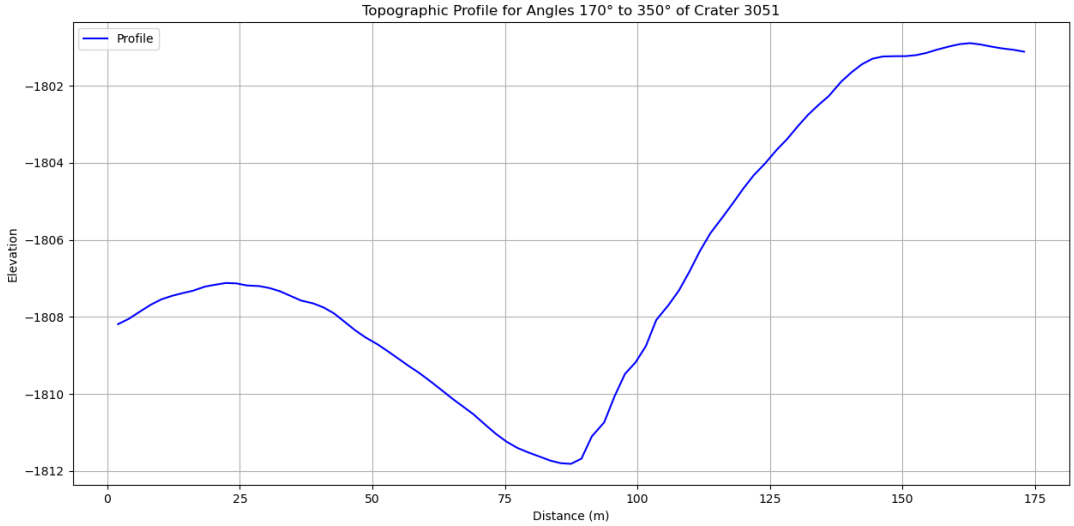
75
100
125
150
175


Topographic Profile for Angles 160° to 340° of Crater 3051
Profile
Elevation
Distance (m)
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
150
175


Topographic Profile for Angles 170° to 350° of Crater 3051
Profile
Elevation
−1802
−1804
−1806
−1808
−1810
−1812
0
25
50
75
100
125
150
175
Distance (m)