

# Spatial Analysis of Prehistoric Sites from the Mitata Plateau (Kythera, Greece)

1)  
Locator map and a coloured map displaying slope angles and archaeological prehistoric sites Kythera, Greece (WGS 1984,UTM Zone 34N,Transverse Mercator) .

2)  
Scatterplot showing site density against slope values. The overall trend is that the higher the slope angle, the smaller the estimated site density.

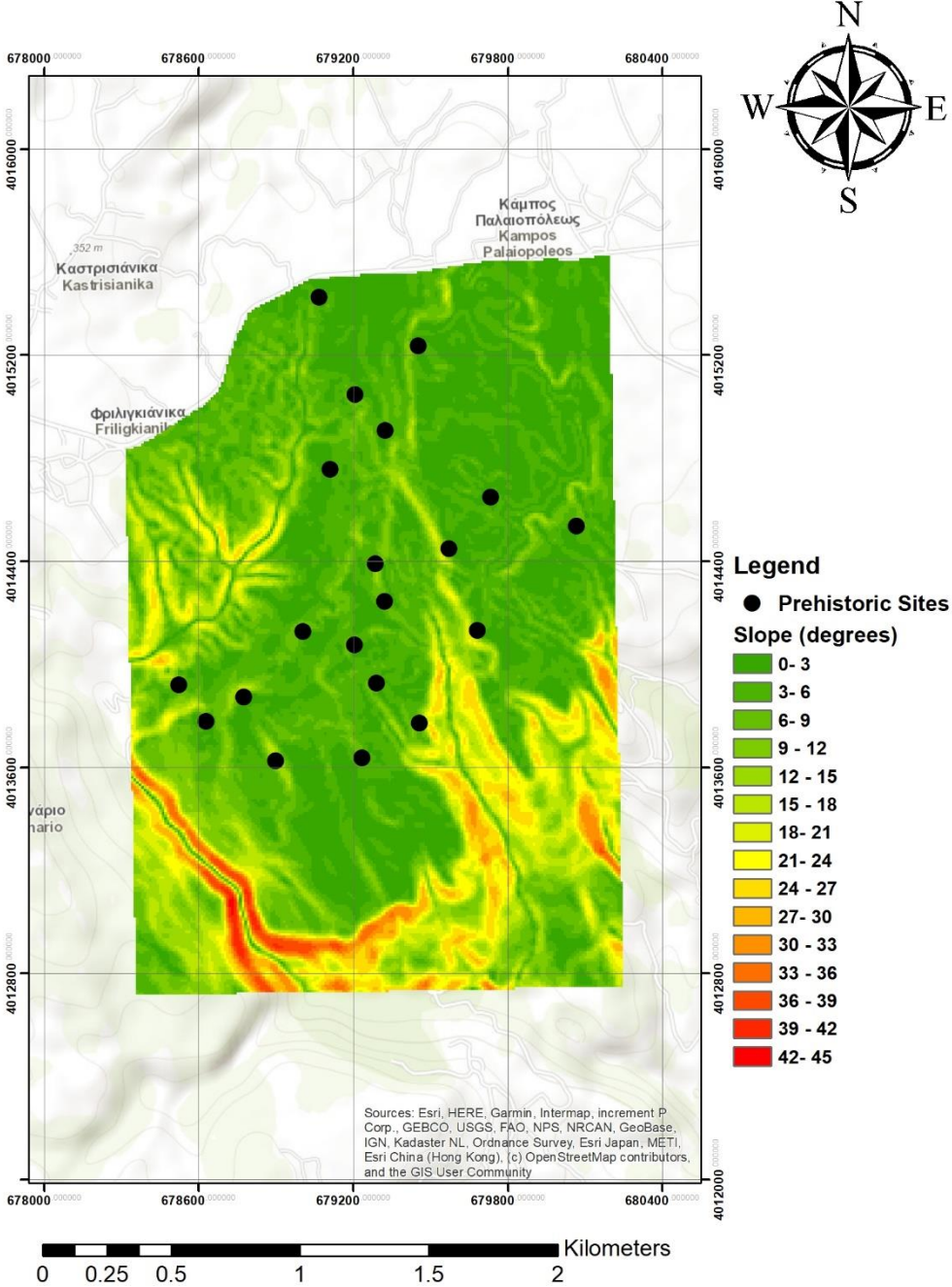
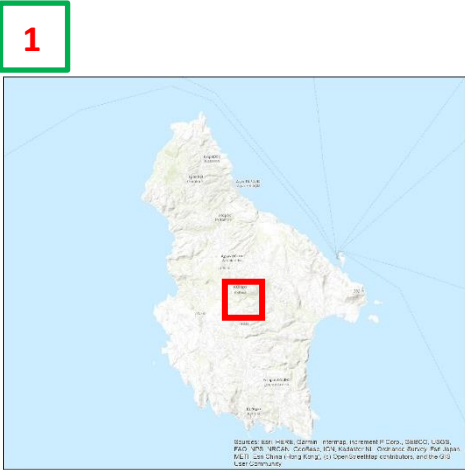
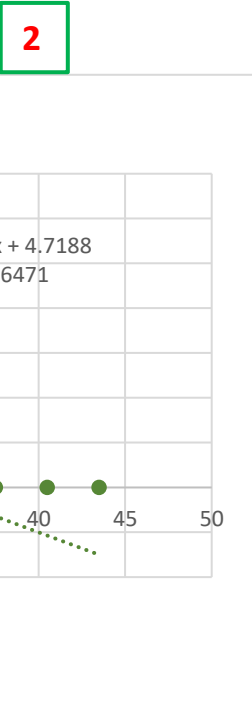


Figure 1 Scatterplot of Mitata slope angle and site density



# Spatial Analysis of Prehistoric Sites from the Mitata Plateau (Kythera, Greece)

1) **Locator map and greyscale map displaying slope angles and prehistoric archaeological sites Kythera, Greece** (WGS 1984,UTM Zone 34N,Transverse Mercator) .

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2) **Average nearest neighbour of prehistoric sites.**  
The ratio is close to 1, indicating a random pattern.

3) **Chi-squared test results.** There is a large and statistically significant chi value. Indicating considerable difference between the number of sites of expected and observed geology types.

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Observed Mean Distance	233.9458 Meters
Expected Mean Distance	253.0064 Meters
Nearest Neighbor Ratio	0.924663
z-score	-0.644543
p-value	0.519223
Study Area	5120981 Meters

Table 1 Average nearest neighbour summary of prehistoric sites at the Mitata Plateau (Kythera, Greece)

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Table 2 Contingency table of Geology type and sites found at Mitata Plateau (Kythera, Greece)

Geology Type	Observed count of Sites	Sum of SqKm <sup>2</sup>	Percentage land area	Expected count of sites	X <sup>2</sup>
Alluvium	57	0.826188	16%	10.49	206.2627
Conglomerate	2	1.157545	23%	14.69	10.96699
Hard Limestone	3	0.30606	6%	3.89	0.20175
Soft Limestone	3	2.83042	55%	35.93	30.18205
Grand Total	65	5.120213	100%	65	247.6134
P-value	2.1478E-53				

