

**A MORPHOMETRIC ANALYSIS USING GIS TO DEDUCE
GEOMORPHOLOGICAL PROCESSES - NATURAL HAZARDS, AT
ZAKYNTHOS ISLAND**

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ABSTRACT

In order to understand the geomorphic processes on the island of Zakynthos, we made an altimetric and slope analysis in GIS environment. The spatial distribution of these variables reflects tectonic, erosional processes and vegetational distribution. The existence of environmental alteration is mainly due to natural processes and human impact. In the first factor we included mass movements, soil and coastal erosion and flood events caused by the increased erosion due to the local fires, while in the second tourism growth, wastes, mining etc. Such analysis can be used in local and regional level to develop long term environmental policies and prevent landscape deterioration.