



Using geoelectrical for predicting susceptibility to landslides. Land instability phenomena in Gornet village, Prahova County

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The village is situated at the crossroads Gornet plain area with hills, in a small valley formed by the surrounding hills.

There subsequent royal charters mention Gornet village in different periods, such as documents certifying salt mine during the reign of Constantin Brancoveanu mine by 1960, due to landslides was rediscovered by all inhabitants . No one looked at the amount of salt in the underground village, but there is salt.

Geoelectrical investigations carried out in the month of September 2014 aimed at obtaining indirect information on the geological structure of the subsoil and identify the causes of instability phenomena produced in recent years, with serious consequences for a significant number of construction and road and villages Gornet and Cuib. Since the area of land affected by movements in an area is occupied by houses, enclosures, courtyards and gardens of the locals, location and length of the profiles was determined by measuring doorways available for stretching cables.

The upper surface of the salt occurs about the horizontal lifting and lowering a few meters favoring accumulation and movement of groundwater on the backs of salt in permeable formations that cover (breccia salt).

Geoelectrical sections clearly shows that affected homes are positioned on a basement conductor, unstable, which continued under the river, but sooner or later, can have the same trend.

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