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Rainfall-Induced Landslide Thresholds Development by Considering Different Rainfall Parameters: A Review

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Abstract

This paper reviews the development of landslide thresholds from the perspective of rainfall and climate patterns. For certain, geology, morphology, lithology, etc., contribute to the initiation of the mass movement. However, the role of rainfall as the triggering mechanism of the landslide is vital as well. It has been proven by many researchers from various studies worldwide that have proposed the rainfall thresholds by utilising different rainfall parameters . The outcome of their studies is interesting, since different regions have diversified patterns of rainfall that producea variety of threshold models. Therefore, from various published papers on rainfall thresholds , this paper studied the variety of rainfall parameters that have been utilised in establishing the rainfall threshold for landslide prediction. Instead of providing a better understanding regarding the application, this review aimed to cultivate the following study for deriving rigorous parameters for the purpose of sustainable findings.

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