LANDSLIDE DISASTER RISK ZONING IN THE AREA OF MOUNT BROMO SLOPE-PASURUAN

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Abstract

The area which located on the slopes of Mount Bromo, Pasuruan has the potential emergence of a number of landslides and the resulting negative impact, indicating a lack of awareness of disaster mitigation and preparedness in facing the threat of danger. Because local conditions are potentially affected and vulnerable, it is necessary to assess the level of landslide disaster risk as an attempt to position the respective communities and regions in different levels of risk.

This study aims to formulate the landslide determination of hazard risk zoning on the slopes of Mount Bromo Pasuruan. First to identify the factors that trigger the occurrence of landslide hazard and the factors and indicators that significantly affect the vulnerability by using analysis Delphie then be weighted by AHP analysis, second both identifying and zoning characteristics danger (hazard) by a landslide using overlay analysis, the third’s decide zoning vulnerability (vulnerability) landslides using overlay analysis of weight-sum, and the last determining the risk zone (risk) of landslides using algebra map overlay analysis as disaster mitigation efforts.

From the results of hazard characteristics analysis (hazard) area of landslides and susceptibility (vulnerability) zoning known by disaster risks (risk) of known landslides of variable threat (hazard) and vulnerability (vulnerability). Based on literature review and results of algebra map overlay analysis there are five categories: very high risk zone (area affected), high risk zone, the zone of moderate risk, low risk zone, and the very
low risk zone for each of the villages in Avalanche Prone Regions.

Keywords:
Avalanche Disaster Prone Area, hazard, vulnerability, risk.