Abstract

Indonesia appears to be one of countries which is located in disaster area, including volcanic eruption. Mount Merapi is one of volcanoes in Indonesia which has a great danger potential when erupted. Magelang regency is one of regions that are impleid in dangerous area of Mount Merapi eruption. The eruption causes large losses, it is necessary to mitigate the eruption in order to minimize the impact of the damage and to minimize number of victims by utilizing green open space as evacuation area. The purpose of this research is to analyze the benefit of green open space as evacuation area when eruption occurs. This study used descriptive and spatial analyze of green open space. Unit of analyze consists of seven subdistricts in Magelang regency that are Dukun, Mungkid, Muntilan, Ngluwar, Salam, Sawangan, and Srumbung which have direct impact of eruption.

The analyze result is land suitability map for evacuation area. It consists of three categories suitable, quite suitable and unsuitable. The evacuation area consists of macro evacuation area, micro evacuation area, transition area and buffer area of evacuation. The final result of this study is utilization plan of green open space as evacuation area.

Keywords: Disaster, Evacuation Area, Green Open Space, Mitigation, Volcano Eruption.