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Land use exposure analysis in the occurrence of a storm surge event

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Considering the effects of climate change on preparing the land use plan of an area can be useful in increasing its adaptation. For instance, determining the classification of land uses in areas susceptible to the harmful impacts of climate change can provide useful planning information to the local government units for long-term purposes. This study aims to analyze the existing land uses of areas exposed to a storm surge hazard in Tacloban City. Tacloban City, which has been devastated by the onslaught of Storm Surge in Typhoon Haiyan, is considered to be susceptible to detrimental impacts of climate change. Datasets of the Storm Surge hazard map in Tacloban City are categorized into low, medium and high. On the other hand, the existing land use map of Tacloban City is processed into GIS software to provide information on the city's land use categories. Using overlay analysis, the extent of land uses exposed in the different hazard levels is classified. The results may provide as inputs for planners and stakeholders in generating programs or projects to alleviate the vulnerable conditions of the area such as risk zoning and other necessary planning interventions.

Biography

Alyosha Ezra C Mallari is a PhD Student at the School of Urban and Regional Planning, University of the Philippines. He has published as a sole author in an international journal and has been involved in several projects regarding climate disaster risk assessment, geographic information systems and land use planning.

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