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Flood risk assessment in Cagayan Valley: A development of ODeSSEE for pre-emptive evacuation amidst Covid-19 pandemic

Aguinaldo, Betchie E.^a ; Natividad, Marvee Cheska B.^a ;

Gorospe, Rocela Angelica B.^b; Solis, Jillian Samantha B.^c

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Abstract

The major causes of disasters in the Philippines are typhoons and floods, and the Cagayan Valley Region is no exception. With this, preemptive evacuation are important measures for community preparedness. It is recognized, however, that it is more challenging to formulate actions in light of the Covid-19 pandemic. This paper proposes the development of project ODeSSEE: the Optimization of Decision Support System for Effective E-Governance. This system gathers different natured data from multiple source agencies. Data were investigated, processed, and synthesized for information to aid responders for disaster preparedness through evacuation planning. It displays significant maps and analytics that report information on both the flood susceptibility and Covid-19 status of barangays. These are deemed pertinent to address evacuation planning while considering the threat of the pandemic. Validations were made through cross-referencing datasets, R-squared value for fit of regression analysis and RMSE for predictive models of time-series data. © 2023 Author(s).

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