

Applying geographical information system to identify evacuation zones in case of tsunami in Da Nang city, Vietnam

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Abstract: The increase numbers of natural disaster in general and tsunami in special, have caused enormous damages, especially in the context of climate change. Vietnam is lying in ring of fire in Pacific Ocean and its coastal areas have been predicted to be affected by tsunami. In order to minimize human and human losses, it is necessary to invest in the preparation phase before tsunami happen. This paper present the application of GIS technology to identify the evacuation zones in Da Nang city, Vietnam. The result was maps which have shown 3 zones of risk corresponding 4 scenarios of sea level rise 1m, 3m, 5m, and 7m. These maps would help management activities and reduce human and properties losses.

Keywords: tsunami, evacuation zone, Da Nang city