

## FLOOD INUNDATION MAPPING OF MUNROE ISLAND -A GEOSPATIAL APPROACH

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## **ABSTRACT**

Flood Inundation Mapping (FIM) is imperative, especially in the areas where the elevation is comparatively low. FIM helps to depict the spatial extent and depth of flood level of an area. Flood hazard map is developed using the terrain elevation data generated from DEM. The flood risk zones were identified and categorized into High, Medium and Low. In each zone the percentage of affected Land Use and Land Cover categories were delineated. This study can be used for planning flood preparedness in the worst affected areas. Appropriate management strategies can be adopted by the planners or the decision makers to curtail the impact of the disaster and also the fellow men could get the right knowledge of the area he belongs to.

**KEYWORDS:** Land Use and Land Cover, Inundation, Hazard Map, High Resolution DEM and Risk Zones

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