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ALARMING SYSTEM FOR SHIFTING WILD ANIMALS FROM FOREST DURING FLOOD USING DTED AND FINITE NUMERICAL METHODS

R. K. Arya
Sr. Resource Scientist, Madhya Pradesh Council of Science and Technology, Bhopal, India, 462003

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Abstract. The paper presents a methodology to develop a three dimension model of any area using DTED data and mapping toolbox of MATLAB. This three dimension model is further use to calculate the volume from minimum bottom level using finite numerical methods and hence to classifying the area based on level and volume of water occupying upto particular level. This data is used to create the alarming system for shifting of wild animals from area based on volume and elevation data during flood. Further based on these results, areas are determined which are going to flood water comes either through rain or through Tsunami.. Simulations are performed to compare the results between mathematical formulations and numerical methods.

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