

[Publications](#)[Archive](#)[Volumes](#)[Full Text Search](#)[Title and Author Search](#)[Annals](#)[ISPRS Journal](#)[ISPRS Journal Geo-Info](#)[ISPRS eBulletin](#)[ISPRS Highlights](#)[Book Series](#)[Brochure](#)[ISPRS Profile](#)[Annual Reports](#)[Related Publications](#)[Booklets](#)[Volume XXXVIII-8/W20](#)

Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XXXVIII-8/W20, 91-95, 2011

www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XXXVIII-8-W20/91/2011/

doi: 10.5194/isprsarchives-XXXVIII-8-W20-91-2011

© Author(s) 2011. This work is distributed
under the Creative Commons Attribution 3.0 License.

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

Keywords: MATLAB, DTED, Alarming System

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 occupancy 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 when water comes either through rain or through Tsunami. Simulations are performed to compare the results between mathematical formulations and numerical methods.

[Conference Paper](#) (PDF, 449 KB)

Citation: Arya, R. K.: ALARMING SYSTEM FOR SHIFTING WILD ANIMALS FROM FOREST DURING FLOOD USING DTED AND FINITE NUMERICAL METHODS, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XXXVIII-8/W20, 91-95, doi: 10.5194/isprsarchives-XXXVIII-8-W20-91-2011, 2011.

[Bibtex](#) [EndNote](#) [Reference Manager](#) [XML](#)