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Flood simulation using SRTM and GDEM in Da Nang and BINDIN province, Viet Nam

KAWASHIMA, Ryojun[1]* ; KUWAHARA, Yuji[1]

[1]Department of Urban and Civil Engineering, Faculty of Engineering, Ibaraki University

The objective of this study is to propose the correction method of the DEM data used for a flood simulation. SRTM and GDEM are the data which is generally used in the area where high-resolution DEM isn't generated. In this study, we proposed the data interpolation method focused on the data level shift and the data corruption. First, the correction effect was confirmed based on the SD of elevation data and topographic effect. And we simulated Vietnam country Da Nang city and BINDIN Ministry and made sure of influence to a flood simulation.

Keywords: DSM, SRTM, GDEM, Flood simulation, DEM