

**Title** EFFECT ALLUVIAL FAN OF THE FLOOD & FLOODS RISK  
ASSESSMENT IN BANGRAKAM DISTRICT, PHITSANULOK  
PROVINCE

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#### ABSTRACT

The main purpose of this study was to study physical characters of Bangrakom district area that cause flooding and to predict flood area and type of land use that will be affected by flooding disaster.

Study result: Form topographic map can Show Geomorphology of Alluvial Fan. Then Yom river flow clash with it. Yom river therefore direction from North to south convert west to east. For predict flood area of case digital elevation model it use apply. It was found that model created, digital elevation model, from contour 1:4000, can predict damage area from land-use and flooding area data. The most damaging type of land use predicted by the model were agriculture area, 271 262.50 rai (44.78%), urban areas, 19 981.25 rai (3.30%) and forest area, 4687.50 rai (0.77%). Result from risk area analysis using mean sea level between 38.0 - 42.0 meters, with 0.5 meter increment, showed that the flood risk are Bothong, ChumsangSongkram, Wangltok, Thanangam, BangRakum, Plukrad, Patsuout and KuyMuong subdistrict, which is consistent with land elevation data in each districts. Online mapping can be done using flood area data obtained from Virtual GIS overlay with map from Google.