

HSC024-07

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Guidline of field investigation of large-scale fill-slope instability triggered by earthquake in the future.

Hidemasa Ohta^{1*}

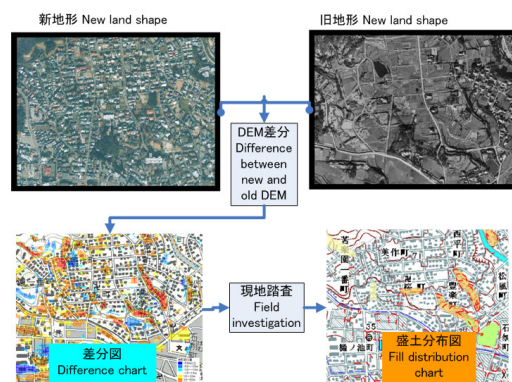
¹Ohta Geo-research Co.,Ltd

Recently,it is well known that the valley burial fill slides along a slope by earthquake.But no guideline of field investigation of large-scale fill-slope exists.I will show one idea of the field reconnaissance method of the fill-slope.

When earthquake occurs,the behavior is extremely different from the fill part and the cutting ground part (non-fill part).Therefore,it is a main purpose to confirm, to correct the fill distribution presumed by the difference of old and new DEM.

The items that should be confirmed by the site investigation are as follows.

- (1)Whether the fill exists really or not?
- (2)Whether the cut and fill boundary and the range of the fill are appropriate or not?
- (3)Whether the direction of dip in the natural ground is correct or not?
- (4)Whether serious damages have been generated or not?
- (5)Whether information for the sliding at the earthquake of the fill can be confirmed or not?
- (6)Additionally, information such as maintenance objects and evacuation areas



Keywords: valley burial fill, earthquake, field investigation, DEM, fill-slope slide, Guideline