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HTT33-P03 Room:Poster Time:May 2 16:15-17:30

Mapping of the fault scarp formed during the 2013 Bohol earthquake by small UAV

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A 5km-long surface fault rupture appeared during 2013 Bohol earthquake (M 7.1) in the Philippine. We took low-altitude air-photos of the ruptures using a small UAV, and made 3D images and contour maps by SfM software. This survey method is a low-cost, easy and effective method for mapping for quick respond field work for unexpected large earthquake damage especially in remote areas in under developing countries.

Keywords: UAV, SfM photogrammetry, earthquake fault, 2013 Bohol earthquake