

STT054-P04

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Coseismic Displacement Measurement of The 2010 El Mayor, Mexico Earthquake Using Satellite Optical Images

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This paper performed to measure the ground deformation of the fault rupture due to the 2010 El Mayor, Mexico earthquake by the sub-pixel correlation technique to pre- and post-event satellite orthorectified images. The Terra/ASTER and ALOS/PRISM images processed by the GEO Grid system were used for this examination. The maximum displacement interpreted from the image analysis was few meters of right-lateral strike slip. The results will be validated in comparison with field survey and other sensors' data.

Keywords: subpixel correlation, crustal displacement, satellite optical sensor, Terra/ASTER, ALOS/PRISM, the 2010 Baja california earthquake