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Detectability of interplate fault slip on the Pacific plate, based on GEONET

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The detectability of interplate fault slip on the Pacific plate is investigated using the GPS Earth observation network system (GEONET) in Japan. The detectability is calculated in term of two characteristic parameters; threshold of the data and number of stations.

It is expected to detect the interplate fault slip with a moment magnitude of greater than 6.5 in the wide area of the plate interface when the threshold and number of station are 3mm and 3, respectively.

Keywords: GPS, interplate fault slip, detectability