Japan Geoscience Union Meeting 2012

(May 20-25 2012 at Makuhari, Chiba, Japan)

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HGM21-P16

Room:Convention Hall

Time:May 23 17:15-18:30

Digital stereoscopic slope map derived 5m and 2m mesh, in the Sendai plain and the Iwaki region

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We interpreted fault topography by using detail digital stereoscopic slope map (Yokoyama et al., 2012) derived 5m mesh data and 2m mesh data in the Sendai plain and Iwaki region, respectively. Obtains results are as follows.

1) New tectonic slope continue northeast to southwest in direction, parallel to the Nagamachi-Rifu fault zone, in northwest part of downtown in Sendai.

2) Surface fault caused by the 2011 earthquake in Iwaki region, clearly interpreted by using digital stereoscopic slope map derived 2m mesh DEM data. The fault trace accompanied with scarp of maximum 2m in height, penetrate through the river bottom and slope of hillside.

Keywords: 5m & 2m mesh DEM, Digital stereoscopic slope map, Nagamachi-rifu active fault zone, 2011 earthquake fault in Iwaki