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Preliminary report on slip distribution of surface rupture associated with the 2011 Iwaki earthquake

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We identified normal-fault surface rupture associated with the 2011 Iwaki earthquake that extends NNW for about 11 km (from Tsunagi to Kamihiraishi) along the Shionohira fault, with maximum vertical offset of c.a. 2.3 m. Based on results of our field mapping and leveling surveys, including data using handy GPS and total station, we present locations and slip amounts of the surface rupture observed at Tsunagi, southwest of Uekida, east of Saibachi, Saido to Shionohira, Sukeuemonzawa, and Kakehashi to Kamihiraishi.

Keywords: off the Pacific coast of Tohoku earthquake, Fukushima Hamadori earthquake, surface rupture, slip distribution, active fault, normal fault