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Significance of detailed active fault maps for better seismic hazard map- a case study on Kikukawa fault in Yamaguchi pr

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Based on interpretation of 1:10,000-scale air-photographs, we are preparing detailed active fault maps all over Japan, expecting that these maps will serve as fundamental data for so-called 'Official Active Fault Map of Japan'. The maps enables us to find not only to find minor active faults, but also accurate geometry of earthquake-source faults that may allow us to discuss more precisely on prediction of strong ground motion. We present a result of case study on Kikukawa fault in Yamaguchi prefecture, showing how largely the newly-found short active fault traces change the image of future earthquakes and ground motion prediction.

Keywords: geometry of active fault, detailed information of active fault, seismic hazard map, Kikukawa fault