Japan Geoscience Union Meeting 2013

(May 19-24 2013 at Makuhari, Chiba, Japan)

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SCG66-04

Room:201A

Time:May 24 09:45-10:00

Marine terraces composed of the Ryukyu Group, Tokuno-shima island, induced mega earthquakes

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The Quaternary Ryukyu Group in Tokuno-shima island is devided into the Itokina (1.5Ma), Kinoko (0.9Ma?), and Kametsu Formation(0.2 Ma???), and each constitutes marine terrace. The boundary of the Itokina and Kinoko formations are terrace cliff, and the latter abuts the former. The succession indicates successive subsidence, but three times major uplift is expected to form three terraces. The uplift should have associated major reverse faulting, mega earthquake, and tsunami, all of which occurred along the Ryukyu trench.

Keywords: Tokuno-shima island, Ryukyu Group, 1.5 Ma Itokina Formation and higher terrace, Kinoko Formation and middle terrace, Kanetsu Formation and lower terrace, subsidence by normal faulting, uplift by reverse faulting, associated mega earthquake

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