

A study on regional difference in historical tsunami energy, southern Ryukyu Islands, Japan

*Hisashi Aoki¹, Koudai Kishino¹, Yuichi S. Hayakawa², Akira Maekado³

1. Tokyo Gakugei University, 2. The University of Tokyo, 3. University of the Ryukyus

A marine terrace having sea cliff develops at the shore of Miyako Islands and Yaeyama Islands. Large and small tsunami boulders are distributed on the terrace. The weight (W) of the tsunami boulder and the sea cliff height (H) were investigated in this study. WH can be an index of tsunami energy. WH was large in Miyako Islands. This suggests that energies of historical tsunamis which hit Miyako Islands were larger than those of Yaeyama Islands.

Keywords: Tsunami, Tsunami boulder, Sea cliff height, Marine terrace, Ryukyu Islands