

Relationship between sediment production and beach formation in Japan

*Keiko Udo¹, Yuriko Takeda¹, Kohki Morita¹, Yoshiyuki Yokoo²

1.International Research Institute of Disaster Science, Tohoku University, 2.Faculty of Symbiotic Systems Science, Fukushima University

Beach is an important space for disaster reduction, nearshore ecosystems, and leisure activities. However, interception of sediment transport due to rapid development of infrastructures caused beach erosion throughout Japan after 1950s. This study compares the sediment production with the beach width and its change after 1950s, and analyzes the effect of those development.

Keywords: Precipitation intensity, Sediment transport, Beach erosion