

## Discordancy between coastal topography formed by wave erosion and relative sea-level change in a numerical experiment

Naofumi Yamaguchi<sup>1\*</sup>

<sup>1</sup>Center for Water Environment Studies, Ibaraki University

A numerical experiment was performed to investigate the relationship between coastal topography formed by wave erosion and relative sea-level change. The mathematical model used in this study includes the effect of wave attenuation depending on width of the surf zone. This experiment also considered the strength of the rock, the gradient of initial slope and tidal range. The result of the experiment suggests the case that the record of periods of stable sea level does not appear as topography, or that step develops without rapid change of relative sea level, because of the effect of wave attenuation.