

## Late Quaternary erosion rate of the Abukuma Mountain, NE Japan, based on tephrostratigraphy

# Takahiro Yamamoto[1]

[1] GSJ, DGERC

The Abukuma Mountain is a typical peneplane in NE Japan, without Quaternary volcanism and faulting. The mountain is composed mainly of Cretaceous plutonic rocks and has accordant low-relief summits in 400 to 500 above sea level. Because the mountain has been eroded by small drains during the Quaternary time, there are no major Quaternary strata on the mountain, except for distinct strath terrace deposits. The tephrostratigraphy and  $^{14}\text{C}$  ages suggest that the strath terrace deposits were made at MIS2-3, 5b, and 6 when the eustasy was low. Such deposits were climatic terrace ones generated by decrease of precipitation. The tract of the strath terraces show that the fluvial erosional rate of the Abukuma Mountain was almost  $1 \text{ m} / 10,000 \text{ years}$ .