

Forming rate of the weathering rind: an example of the terrace gravel in Ota town, Fukui Prefecture, central Japan

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Weathering rind developed in the gravel distributed in the Quaternary deposit, Ota-area, northwest of Fukui prefecture, Japan. The age of Quaternary deposits are clarified in terms of tephrochronology. The result of the analysis of weathering rind development summarized as follows.

- (1) Weathering rind exists on almost all kinds of gravels.
- (2) The thickness of weathering rind increases across the ages, however, increasing rate decreases at about 50 ka except for the basalt.
- (3) Oxide deposition may cause the decrease in the growth rate of weathering rind.