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# Basin-averaged erosion rates of Yakushima using cosmogenic 10Be in river sediments

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Quantitative understanding of erosion rates under several geomorphic and geological settings is important to discuss the process of erosion. We investigated basin-averaged erosion rates from cosmogenic $^{10}$Be in quartz grains from river sediments in Yakushima. Erosion rates in Yakushima are relatively low within a similar range to those in regions of several times lower rainfall than Yakushima. This finding suggests that rainfall is not necessarily a causal factor of landform evolution. In this presentation, we focus on a pattern of hillslope erosion and a process of landform evolution in Yakushima.

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