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Approaches to quantitative determination of surface erosion rates

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It is needed to evaluate surface erosion rates for landform evolution. However, at present, appropriate methods for quantitative determination of long-term (100000-1000000 yr) erosion rates have not been established in Japan. We will refer problems attributable to previous methods for determination of surface erosion rates and introduce in situ cosmogenic nuclides as a new powerful and useful approach in this presentation.

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Keywords: erosion rate, in situ Terrestrial Cosmogenic Nuclide, depth profile

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