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Study on weathering processes of rocks and landslides

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Landslide caused by the 2016 Kumamoto earthquake

Weathering profile of Neogene mudstone in Kumano Group

Weathering influences the processes and rates of landform development such as mass movement. The study of these processes and rates of rock weathering is, therefore, important for engineering geology.

Geological and geomorphological principle and techniques necessary to locate potential landslide sites. To predict of potential landslide sites, we needs to understand of formative processes of weathering profiles and their physical and mechanical properties.

Changes in the rock structure and color of rocks due to weathering seem to be affected by changes of iron minerals. According to measurements of rock properties, changes in color to reddish and increasing pore volume play major roles in the weathering processes of rocks.

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