

Slope failures due to 2000 Tottoriken-seibu earthquake

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Many slope failures have occurred in mountainous area due to 2000 Tottoriken-seibu earthquakes. They appeared on both natural and artificial slopes. Slopes in the area are mainly composed of granitic rocks, but sometimes it is covered with thin loosen deposits. Most of failures are restricted in weathered granite and such deposits. Toppling failures are also recognized in steep slopes of basaltic lava. Considering that surface cracks also appeared on some slopes as potentially sliding planes, much attention should be paid to future failures of such slopes.