

The relationship among active faults , topography, and geological structure in Japan

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To investigate the relationship among active fault, topography , and geological structure in Japan, we used the Geographic Information System (GIS). In this study, we unify the topographical data, geological data, and active faults data by changing their format available to ArcView (GIS software). After visualizing the unified map of topography, geological structure and active faults, we analyzed their relationship statistically and qualitatively. We can find some rules for distribution of active faults, such as the location, the strike, and the change of a strike.