

Growth model of Volcanic-related fault developed on Shinjima Island, Kagoshima Bay

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Shinjima (Moejima) Island is located in north-east Sakurajima Volcano. According to historical records and the papers, this Island was uplifted from 100 to 200 m during An ei volcanic eruption of Sakurajima in 1779. This Island is characterized by Volcanic-related faults, and forms a ridge-trough-ridge structure. We investigated about a relationship between the Moejima shell bed and the faults spacing, an underground geological structure by the reflection seismic survey and the gravity exploration and a submarine topography. As a result, we hope to discuss the growth model of Volcanic-related fault and Shinjima Island.