

The results of stress field measurements in a 1km-deep borehole drilled within the caldera of Izu-Oshima volcano

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We have drilled a 1km-deep observation well within the caldera of Izu-Oshima volcano for the geophysical and geological studies of the volcano. We have measured the stress fields by hydrofracturing in the borehole to investigate the possible effects of the major fissure eruptions in 1986 on the stress field inside the volcano edifice. The results of measurements indicate that the present stress field in the shallow part of the edifice is almost similar to the regional stress field around the volcano.