

## Time dependent inversion of the crustal deformation data from the 2000 Izu islands earthquakes episode.II

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We estimated the time evolution of magma intrusion, deflation rate of magma source, and the creep motion of the 2000 Izu islands episode. The results are 1) Deflation of the magma chamber beneath Miyake Island started on June 26 and continued with deflation rates changed before and after major eruptions. 2) Dike opening beneath Miyake Island started on June 26 and ended within several days. 3) Magma intrusion between Miyake and Kozu Islands started several days later than the dike opening beneath Miyake Island and rapidly moved northwest. This dike opening moved towards northeastern and shallower parts from late July to middle August. 4) Right lateral creep motion continued with active and quiescent periods, showing a synchronized pattern on a whole to the seismic activity.