

Revision of Miyakejima Hazard map-after the experience of 2000AD eruption and caldera collapse event

Masashi Tsukui[1]

[1] Dept. of Earth Sci., Chiba Univ.

In the 1999 Joint Meeting, I presented a volcanic hazard map of Miyakejima prepared for the next eruption anticipated in the early 2000's. Since the evening on June 26, 2000, the ascent and intrusion of magma through the western flank to the northwest off the coast of Miyakejima was detected. The intrusion of the magma resulted in small eruptions and collapse of the summit area of 1.6km by 1.6km across, 450m deep, which may be called as a caldera. Emission of volcanic gas including dense SO₂ forced the inhabitants to evacuate outside the island for more than 18 months.

The volcano has never experienced this unique sequence of event before. I reviewed the hazard map of 1999 version, comparing with the 2000AD event, and will present a revised hazard map.