

Unrest events repeated since 1999 at Kuchinoerabujima volcano, Japan

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Volcanic unrests have been repeated at Kuchinoerabujima, SW Japan since 1999. Seismicity of HF earthquakes increased in April 2001, February 2003, February 2004, January 2005, November 2006 and September 2008. The seismicity increases were accompanied by inflation of the ground around the summit crater, Shindake. In the last unrest from September 2008, discharge rate of SO₂ gas gradually increased from October. On the other hand, speed of inflation of the ground decreased from November. It is possible that discharge of volcanic gas is a process of release of pressure in the volcanic body.