

Precursory crustal deformation associated with the moderate earthquake (M6.1) in the neighboring region of Iwate volcano

Hiroyuki Hamaguchi [1], Minemori Sato [2], Sadato Ueki [3]

[1] Res. Centr. Pred. Earthq. Volc. Erupt., Grad. Sch. Sci., Tohoku Univ., [2] Research Center for Prediction of Earthquakes and Volcanic Eruptions, Tohoku Univ, [3] Research Center for Prediction, Tohoku Univ

The moderate earthquake of M6.1 occurred at the southwestern part of Iwate volcano on September 3rd, 1998. The epicenter of the main shock or earthquake fault was very close to the seismic and geodetic stations that have been operating for the monitor of volcano Iwate. The observed precursory phenomena were as follows: (1) volcano-seismic quiescence, (2) foreshock activity, (3) precursory tilt change. The phenomena were interpreted by the change of pore pressure at depth around the earthquake fault.