

## Gravity changes observed at Adataara volcano in 1997-1998

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We observed significant gravity changes around the central crater "Numano-taira" of Adataara volcano, Northeastern Japan, in the period from July, 1997 to November, 1998. The gravity value decreased by 56 micro gal near the western rim of the crater and it increased by 20 micro gal on the eastern wall of the crater. During the same period, volcanic tremor and increasing geothermal activities in the crater have been observed. The gravity decrease may be explained by drying up underground water associated with activated fumarolic activities, and the gravity increase may be explained by accumulation of water associated with activated magmatic volcanism.