

Change in diffuse degassing of volcanic gas before and after an eruption (Oct. 25, 1998) of Hokkaido-Komagatake volcano

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At Hokkaido-komagatake volcano, there has appeared heat anomaly on the eastern side of the 1996 fissure craters since 1997 autumn. We measured CO₂ flux and CO₂ content in soil on the east-west cross section across the F10 crater, to reveal the relation between heat flux and volcanic gas flux. Nearly two months after the first measurement on August 29, 1998, a small eruption took place on October 25, so 2nd measurement was carried out on November 6. Both measurements showed that the region with heat anomaly is not the same as that with CO₂ emission. The spatial patterns of CO₂ flux and soil CO₂ have changed before and after the eruption and the absolute CO₂ flux has clearly decreased after the eruption.