

Estimation of sulfur dioxide discharged from Miyake-Jima using ASTER

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Sulfur dioxide distribution in the atmosphere discharged from Oyama volcano in Miyake-Jima is detected by ASTER TIR, which is a new multispectral thermal infrared sensor launched with Terra satellite on December 18, 1999. The amount of discharged sulfur dioxide can be estimated from the sulfur dioxide distribution derived from ASTER TIR and, the plume height and wind velocity, which are calculated from ASTER stereo function. The sulfur dioxide discharge from Oyama volcano is estimated as 30,000 ~ 100,000 ton/day on November 8, 2000.

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