

## Monitoring of Sulfur dioxide emission rate of the 2000-2002 Miyakejima volcanic activity, and problems on measurement

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To understand degassing processes during the 2000-2002 Miyakejima volcanic activity, we conducted emission rate measurements of sulfur dioxide by COSPEC since August 26, 2000. The sulfur dioxide emission rate increased in mid September to be from thousands to tens of thousands tons in a day. The average sulfur dioxide flux after mid September to the present is greater than 31 ktons/day. Total amount of the emitted SO<sub>2</sub> until Feb., 2002 is 17Mtons, which corresponds to that of the 1991 Pinatubo eruption.