

## Video observation of the explosive eruptions of Karymsky volcano, Kamchatka

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Karymsky volcano, Kamchatka started eruptions at 2 Jan. 1996 and the explosive eruptions are still continuing over 100 times a day. The Meteorological Research Institute, JMA and the Institute of Volcanology, FED RAS carried out joint observation at Karymsky volcano in Oct. 1996, in Aug. to Sep. 1997, and in Oct. 1998. We obtained video image data of the explosive eruptions of 2 hours in 10 and 15 Oct. 1996, 194 hours in 21-30 Aug. 1997, and 23 hours in 7-12 Oct. 1998. The eruptions occurred at 3-minute interval in 1996, at 11-minute interval in 1997, and at 6-minute interval in 1998. The heat energy released by eruption cloud of 1997 was estimated from the image data as a half or equal of that of 1996.