

Monitoring of volcanic activity in the Kurile Islands 15 years of work SVERT group

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Abstract

The Sakhalin Volcanic Eruptions Response Team (SVERT), established in 2003, carries out daily studies volcanic activity of the Kuril Islands for 15 years. SVERT provides well-timed warning to Pacific Airlines about volcanic hazards along the Kuril Islands. Also, SVERT gives such warning to civilians living on the of Kunashir Isl., Iturup Isl. (South Kuriles) and Paramushir Isl. (Northern Kuriles). In the XXI century 32 eruptive events were recorded at the Kuril Islands. 20 of them were recorded by the SVERT group, including the weak and short (from some hours to some days) eruptions and the moderate explosive that. The volcanoes of Paramushir Isl. – Chikurachki volcano (9 events) and Ebeko volcano (5 events) were the most active. The most powerful eruption during the considered period was the explosive-effusive eruption of the Sarychev Peak volcano (Matua Isl.) 11–19 June of 2009. The longest eruption is the effusive eruption of the Snow volcano (Chirpoi Isl.). The practice of the SVERT group has shown that satellite monitoring is currently the most reliable and informative method for monitoring volcanic activity for the Kuril Islands.

Keywords

Kuril Islands, Volcanoes, Monitoring of volcanic activity,
Eruption, Satellite data, SVERT

References



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