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Volcanic ash falls and near-vent deposits from the 2000 Usu eruptions

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Volcanic ash fall distributions of four initial-stage 2000 eruptions at Usu Volcano were made. The main axis direction for the largest eruption from 13:07 March 31 was N65E-N30E. The total weight was 124,000 ton. The main axis direction for eruptions from 12:00 April 1 to 12:00 April 2 was N145E. The total weight was 21,000 ton. The main axis direction for a small eruption at 14:00-14:10 April 2 was N110E. The total weight was 450 ton. The main axis direction for an eruption from 16:00 to 18:00 April 4 was N10W-N8E. The total weight was 49,000 ton. Depositional features of the March 31 deposit were investigated near the vent area. The depositional features suggest that the deposit was derived from falls and surges from the phreatomagmatic eruption column.

Volcanic ash fall distributions of four initial-stage 2000 eruptions at Usu Volcano were made. Total weight of each eruption was estimated from isopleth maps. The main axis direction for the largest eruption from 13:07 March 31 was N65E-N30E. The ash fall distributed more than 50 km from the vent. The total weight was 124,000 ton. The main axis direction for eruptions from 12:00 April 1 to 12:00 April 2 was N145E. The ash fall distributed more than 25 km from the vent. The total weight was 21,000 ton. The main axis direction for a small eruption at 14:00-14:10 April 2 was N110E. The total weight was 450 ton. The main axis direction for an eruption from 16:00 to 18:00 April 4 was N10W-N8E. The ash fall distributed more than 30 km from the vent. The total weight was 49,000 ton. Depositional features of the March 31 deposit were investigated near the vent area. The depositional features suggest that the deposit was derived from falls and surges from the phreatomagmatic eruption column.