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Slab avalanches occurred at Mt. Kamihorokamettoku, Tokachi Mountain Range, in Hokkaido Prefecture in November 2007. The first slab avalanche occurred on the western slope of Mt. Kamihorokamettoku on November 13, 2007, and one person was caught in the avalanche. On November 23, 2007, 12 persons were caught in a slab avalanche that occurred on the northern slope of the ridge of Mt. Kamihorokamettoku, and 4 persons were killed. The Hokkaido branch of the Japanese Society of Snow and Ice (JSSI) dispatched an avalanche research team, which had been newly organized during the winter of 2007-2008, to Mt. Kamihorokamettoku. The research team consisted of researchers and mountain guides who ensure the safety of the team. Field investigations were carried out on November 17 and 25 in order to determine the avalanche characteristics and snowpack structures. The existence of weak layers was confirmed by pit observations. The weak layers of both the western slope and northern slope avalanches consisted of depth hoar crystals.