

Observational study on spatial development structure of blowing snow

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Reducing visibility and forming snow drifts by blowing snow are still social natural disaster and a major problem. Although a large number of studies have been made on the vertical development of blowing snow, little is known about the horizontal development of blowing snow especially focused on near the snow surface. For a better understanding of spatial development structure of blowing snow, observations about the horizontal development of blowing snow near the surface have been carried out. The results obtained by the cold wind-tunnel experiments showed if the wind became strong, the development to a horizontal direction became weaker than that to a vertical direction. In addition, the results of field observations in blowing snow at Sapporo showed blowing-snow flux remarkably increased when the wind blew from the direction of a long fetch. It is necessary to carry out the spatial observation above the blowing snow layer using such as a kite in the field in future while investigating the horizontal development of blowing snow experimentally in detail.

キーワード：吹雪、空間発達

Keywords: blowing snow, spatial development