

A Study on Snow- and Ice-related Disasters and Structural Changes in Countermeasure Technologies

In line with climate variations caused by global warming and changes in the social structure due to low birthrates, aging population and depopulation, the nature of snow- and ice-related disasters is also expected to change. Data were therefore collected from a variety of fields and discussed to identify countermeasure technologies and studies that will be necessary in the future. Since the influence of global warming on snowfall and snow accumulation, the dependence of rural communities on private cars and an increase in the number of aged, single-person households are unavoidable, it was considered necessary to estimate the nature of cryospheric environments and snow- and ice-related disasters in the future, as well as to study winter maintenance/management systems with consideration of aging and depopulation.