

Concentrations of chemical constituents of winter precipitation in Senjojiki of Japanese Central Alps

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The chemical constituents in the winter precipitation in the high mountainous area are the chemical constituents transported from wider areas, so no local emission source from a factory and/or an urban area exists in the neighborhood of the high mountainous area. It is difficult to observe the chemical constituents of precipitation in high mountainous area throughout the year. The concentrations of chemical constituents in snow cover remains the same level as in precipitation until snow melt begin.

Some snow surveys have been done in the high mountainous areas. However, most of these surveys have not been at plurality of points performed within a mountain. The reasons for the spatial unevenness of concentrations of chemical constituents in winter precipitation have not been almost elucidated. The purpose of this study is to grasp spatial variability of chemical constituents in winter precipitation in Senjojiki of Japanese Central Alps and to evidence the process of formation of the chemical constituents in winter precipitation.