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AHW28-P08

会場:コンベンションホール

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## 中部山岳地域における新雪の化学特性と空間分布 Spatial distribution of chemical components in fresh snow at the Japanese Alps

倉元 隆之  $^{1*}$ , 鈴木 大地  $^2$ , 佐々木 明彦  $^1$ , 鈴木 啓助  $^1$  KURAMOTO, Takayuki $^{1*}$ , SUZUKI Daichi $^2$ , SASAKI Akihiko $^1$ , SUZUKI Keisuke $^1$ 

1 信州大学山岳科学総合研究所, 2 信州大学理学部物質循環学科

The Japanese Alps area is one of the world's best snowy regions. In this area winter precipitation is observed mainly two patterns such as winter monsoon pattern and low pressure pattern. Therefore, the chemical characteristics of the snowpack are different by snowfall types. In order to understand hydro-chemical cycle of this area, it is important to evaluate the influence of snowfall. The purpose of this study was to clarify spatial distribution of chemical components in fresh snow. We conducted a snow pit study immediately after snowfall, on the route from Matsumoto to the city of Japan Sea side. Snow density and temperatures were measured every 0.03 m. After these measurements, we collected fresh snow samples. The samples were melted, then pH, electric conductivity and major ions  $(Na^+, K^+, Mg^{2+}, Ca^{2+}, Cl^-, NO_3^- \text{ and } SO_4^{2-})$  were analyzed in clean room. The concentrations of the sea salt components in fresh snow were lower at the inland observation point.

<sup>&</sup>lt;sup>1</sup>IMS, Shinshu University, <sup>2</sup>Dept. Environ. Sci., Shinshu University