

## 最近20年間の樹氷中成分の変化 Change for chemical component of rime ice in two decades

永淵 修<sup>1\*</sup>; 横田 久里子<sup>2</sup>; 中澤 暦<sup>1</sup>; 菱田 尚子<sup>1</sup>; 池田 佳祐<sup>1</sup>  
NAGAFUCHI, Osamu<sup>1\*</sup>; YOKOTA, Kuriko<sup>2</sup>; NAKAZAWA, Koyomi<sup>1</sup>; HISHIDA, Naoko<sup>1</sup>; IKEDA, Keisuke<sup>1</sup>

<sup>1</sup> 滋賀県立大学, <sup>2</sup> 豊橋技術科学大学

<sup>1</sup>the University of Shiga Prefecture, <sup>2</sup>Toyohashi University of Technology

Rime-ice and snow samples were collected at mountainous sites in Kyushu Island, Japan during from 1991 to 2014, and both soluble and insoluble substances in the melted rime-ice were analyzed by ion chromatography, inductively coupled plasma-mass spectrometry (ICP/MS) and analytical electron microscopy, in order to find the change of composition ratio of atmospheric pollutants cause by East Asian region. Although N/S ratio in rime-ice ranged from 0.1 to 0.3 in 1990's, recent year this ratio increased about 1.0. This phenomenon indicates that the composition of atmospheric pollutants changed during two decades in East Asian Continent.