Japan Geoscience Union Meeting 2012
(May 20-25 2012 at Makuhari, Chiba, Japan)

AHW28-P14 Room:Convention Hall Time:May 20 17:00-18:00

A relationship between air temperature and shoot elongation of alpine dwarf pine at Mt. Kisokomagatake

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There are not any long time-series meteorological data around mountainous area in Japan, excetp for Mt. Fuji. However, it is possible to reconstruct climate in mountainous area in combination with various data.

This research was investigated that a relationship between monthly mean air temperature in July and shoot elongation of alpine dwarf pine at Mt. Kisokomagatake from 1980 to 2009. The result shows a positive correlation on the relationship, and indicates that data of shoot elongation of alpine dwarf pine can reonstruct summer air temperature. We will study climate reconstruction in mountainous area with tree width as a proxy data.

Keywords: mountainous area, air temperature, shoot elongation of alpine dwarf pine