

Variation of precipitation reconstructed from Alaskan alpine ice-core

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We obtained two ice cores from Alaskan alpine glaciers. One is from Mount Wrangell at Wrangell-St. Elias range, and the other from Aurora Peak at Alaska range. Signals of water isotope of both of ice cores showed remarkable seasonal cycle. Then we could estimate annual accumulation from the seasonal cycles of water isotope. While the variation of accumulation at Mount Wrangell did not show any trend for 50-100 years, the variation of accumulation at Aurora Peak showed significant increase trend since 1970s.

Keywords: Ice core, Alaska, Alpine glacier, precipitation, water isotope