

Elevation dependence of air temperature trends in western Canada

This research project will examine the seasonality and elevation dependence of climate change in western Canada. Data from representative meteorological stations in the region will be used to investigate trends in 5-day mean air temperatures. The work will focus on the dates on which the 0degree Celsius threshold is crossed during the shoulder seasons. We will quantify the magnitude of 5-day mean air temperature trends and their association with the mean annual cycle in daily air temperature. In other words, this study will focus on the timing of the passage through the 0 degree Celsius threshold in both spring and autumn. Relationships between these trends and elevation will then be explored. This may provide further evidence of the amplification of climate change with elevation in western Canada.

If you are interested in undertaking this research project as a Master's student at UNBC starting in the fall 2012 semester then please submit a cover letter demonstrating your interest in the position and your qualifications to undertake the proposed research along with an unofficial transcript and curriculum vitae. Applications are to be sent by email to Stephen Déry (sdery@unbc.ca) and should be received by 21 January 2012. After vetting, a potential application to graduate studies at UNBC will need to be submitted by 15 February 2012.