

Stephen Déry, a French-Canadian and native of northern Ontario, holds three degrees in atmospheric science: a B.Sc. and M.Sc. from York University in Toronto and a Ph.D. from McGill University in Montréal. Prior to arriving at UNBC, Stephen was a post-doctoral fellow at the Lamont-Doherty Earth Observatory of Columbia University, New York for three years and then a visiting research scientist at Princeton University in New Jersey for a year and a half. He began his current position as Canada Research Chair in Northern Hydrometeorology upon arrival at UNBC in 2005, and also has appointments as associate professor in the Environmental Science and Engineering undergraduate program and the Natural Resources and Environmental Studies graduate program. He teaches courses in boundary layer meteorology, storms, as well as snow and ice. Stephen also leads the Northern Hydrometeorology Group (NHG) at UNBC and has supervised over 15 undergraduate and graduate students as well as research staff.

Stephen's research focuses on the impacts of climate change on Canada's northern and alpine regions. It has been established that the anthropogenic (human-caused) emission of greenhouse gasses such as carbon dioxide and methane has caused the global temperature to rise about 0.5 degrees Celsius during the 20th century, and the temperature increase is expected to be greater this century. The temperature rise in the polar and alpine regions of the Northern Hemisphere is projected to be greater than anywhere else on Earth. Stephen is investigating the consequences of climate change on the water cycle in these regions. In particular, he is attempting to determine what effect climate change will have on the environment in Canada's northern and alpine regions, most notably on snow, ice and water. A major aspect of his research is to develop a better understanding of the water balance in the Quesnel River watershed in the Cariboo Mountains based on field studies, remote sensing products and numerical simulations. To that end, he has spearheaded the development of a network of nine automatic weather stations currently in operation in the Cariboo Mountains.

Apart from his teaching and research, Stephen contributes in many ways to the scientific and university communities as well as the general public. For instance he is currently a member of the science committee of the Canadian Meteorological and Oceanographic Society (CMOS), a member of the editorial board of the *Canadian Water Resources Journal*, and a member of the NSERC geosciences evaluation group. He also enjoys presenting talks at local service clubs, schools and open forums and routinely conducts interviews (both in French and English) with media on aspects of climate and environmental change. Stephen has worked closely with Indigenous peoples through, for instance, a project that reduced the carbon footprint of Stelat'en First Nation.