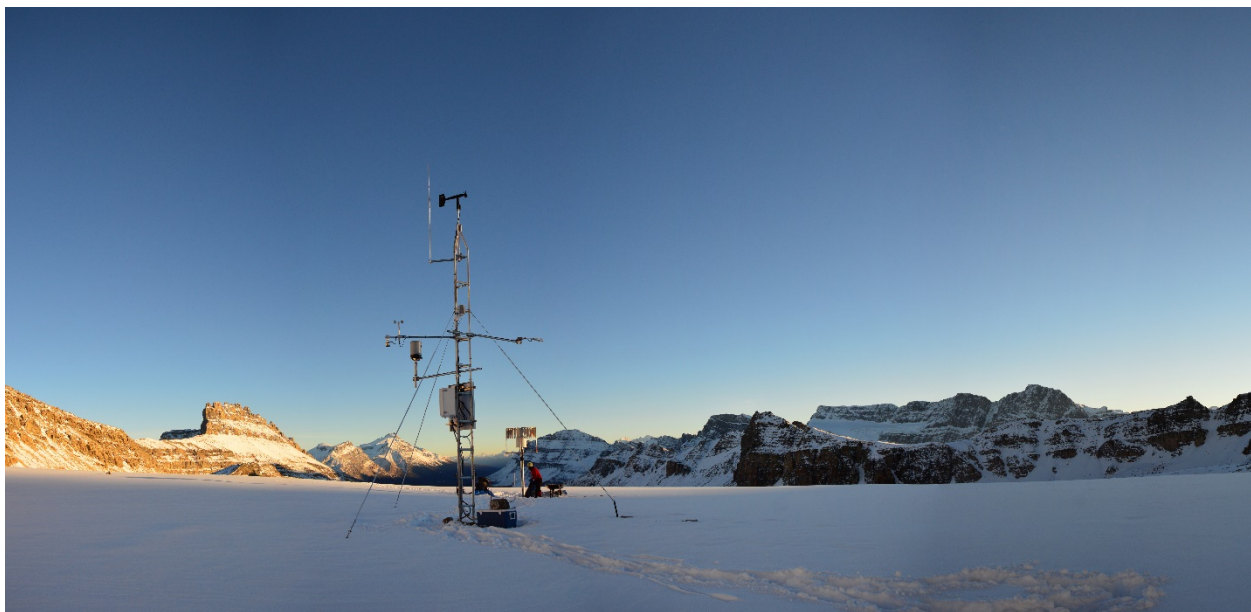


Research Opportunities with John Pomeroy

There are several research studentships and positions with Professor John Pomeroy, Director of the Global Water Futures Programme (GWF) and of the Centre for Hydrology at the University of Saskatchewan, Saskatoon, Sask. & Canmore, Alberta. GWF is the largest freshwater research programme in the world and is transforming our ability to understand and predict cold regions water security. Exceptional PhD students may also be considered for a \$45,000/year GWF Excellence Scholarship (see www.usask.ca/water).



PhD Student – Cryospheric representation in large scale hydrological models

The successful candidate for this position will have a MSc in hydrology with experience in hydrological model development, excellent mathematics, computer coding and environmental physics skills and an understanding of cold regions hydrology: glaciers, snow, permafrost, frozen soils. This student will be working within the Integrated Modeling Program for Canada (IMPC) project of Global Water Futures on advancing the representation of glacier and snow dynamics, and heat and mass transfer in frozen ground in large scale hydrological models used in the GWF programme. The student will review, develop, encode and test advanced algorithms describing these processes in Environment Canada's MESH hydrological model. Test sites in the Canadian Rockies, Prairie and North are available for model validation. This research will help quantify the impact of climate warming on cold regions hydrology with particular reference to quantifying pan-Canadian changes in water supply and water security.

Co-supervised by Dr. John Pomeroy (Geography & Planning) and Dr. Al Pietroniro (Civil Engineering). Interested applicants should contact Dr. Pomeroy (centre.hydrology@usask.ca)

101-121 Research Dr.
Saskatoon SK S7N 1K2 Canada
Tel: (306) 966-1427

with a cover letter explaining their motivation, academic CV, unofficial transcript and contact details for three academic references.

<http://artsandscience.usask.ca/geography/graduates/welcome.php>