

Field	Response
1. Contact Information   Name	Daniel Nadeau
1. Contact Information   Department	Civil and Water Engineering
1. Contact Information   Email	<a href="mailto:daniel.nadeau@gci.ulaval.ca">daniel.nadeau@gci.ulaval.ca</a>
1. Contact Information   University	Laval University
1. Contact Information   Personal Web Page	<a href="https://www.gci.ulaval.ca/departement-et-professeurs/professeurs-et-personnel/professeurs/fiche/show/nadeau-daniel/">https://www.gci.ulaval.ca/departement-et-professeurs/professeurs-et-personnel/professeurs/fiche/show/nadeau-daniel/</a>
1. Contact Information   Phone	(418) 656-2131, ext. 8620
2. Please indicate the alignment of your research expertise to one or more of the following GWF objectives/ deliverables:	<p>Improve disaster warning – develop scientific knowledge, monitoring and modelling technologies, and national forecasting capacity to predict the risk and severity of extreme events</p> <p>Hydrometeorology and Climate Change – improve understanding and prediction of how climate change influences water availability and extreme events</p> <p>Hydrology and Terrestrial Ecosystems – improve understanding and prediction of hydrological and terrestrial processes and watershed hydrology and how processes and systems will evolve and interact under a changing climate</p>
3.1 Please indicate the alignment of your research expertise to the GWF Science Pillar 1 – Diagnosing and Predicting Change in Cold Regions:	
3.2 Please indicate the alignment of your research expertise to the GWF Science Pillar 2 – Developing Big Data and Decision Support Systems:	Big Data for Water – sensors, sensing, instrumented river basins, data analysis systems
3.3 Please indicate the alignment of your research expertise to the GWF Science Pillar 3 – Designing User Solutions:	

Field	Response
4. Please indicate the alignment of your research expertise to one or more of the following user needs:	Projects to improve environmental monitoring, including sensors, drones, satellites, river basin observatories, lake buoys, software development, chemical fingerprinting, real-time monitoring, citizen science, and integration of Big Data platforms for Cold Region water science. Model development to support climate change impact assessment, including regional climate change modeling, hydrological and ecological modeling, specifically involving improvements in forecasting and predictive capacity, downscaling, and scenario development of water futures.
5. Please list regions of Canada and the biomes (e.g. mountains, boreal forest, Great Lakes–St Lawrence), watersheds, and/or river basins where you are interested in conducting research for GWF:	BEREV watershed in Montmorency Forest (Quebec, Canada): boreal forest.
6. Please list any other expertise or recent experience (subjects, river basins, technology) not covered by above query that could help us in assessing your alignment with the GWF programme:	Micrometeorology, energy budgets, turbulence in the atmospheric boundary layer, evapotranspiration, eddy covariance, field experiments, environmental fluid mechanics, snow hydrology.