

Field	Response
1. Contact Information Name	Simon Courtenay
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1. Contact Information University	Waterloo
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1. Contact Information Phone	(519) 888-4567 x35796
2. Please indicate the alignment of your research expertise to one or more of the following GWF objectives/ deliverables:	<p>Inform adaptation to change and risk management – propose governance mechanisms, management strategies, and policy tools to reduce the risk of water threats, design adaptive strategies, and enhance economic opportunities</p>
3.1 Please indicate the alignment of your research expertise to the GWF Science Pillar 1 – Diagnosing and Predicting Change in Cold Regions:	<p>Water Quality and Aquatic Ecosystems – improve understanding and prediction of how climate changes in climate, hydrology, and land use impact water quality and the health of aquatic ecosystems Human–Water Systems – address the human dimensions that will determine water futures, including governance, policy, communities, border, and water resources management</p>
3.2 Please indicate the alignment of your research expertise to the GWF Science Pillar 2 – Developing Big Data and Decision Support Systems:	<p>Big Data for Water – sensors, sensing, instrumented river basins, data analysis systems</p>
3.3 Please indicate the alignment of your research expertise to the GWF Science Pillar 3 – Designing User Solutions:	<p>Water Environment – ecosystem health and conservation, water management</p>
4. Please indicate the alignment of your research expertise to one or more of the following user needs:	<p>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.</p>

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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:	Building on Canadian Water Network's Canadian Watershed Research Consortium with nodes: Saint John Harbour (NB), Northumberland Strait, Grand River, Muskoka River, Tobacco Creek (Red River/Lake Winnipeg), Slave Lake and Delta, NWT, Murray River BC (Tumbler Ridge)
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:	– 23 yrs experience with DFO on estuarine ecology/ecotoxicology – aquatic monitoring programs including pulp and paper and metal mine Environmental Effects Monitoring, Cumulative Effects Monitoring