

Perspectives on Spatial Hydrology from Canada's Changing Cold Regions Network – a sister GEWEX Regional Hydroclimate Project

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Abstract: The interior of western Canada faces most if not all of the world's water security challenges – damaging extreme events, over-allocation of water resources, threats to water quality and fragmented governance, set in a context of widespread environmental change. Canada is experiencing some of the world's most rapid warming, in an environment dominated by cold. The paper will review the aims and scope of Canada's RHP, the changing nature of the region's hydrology, and recent developments in large scale modelling and data assimilation.