



Arctic, Antarctic, and Alpine Research

An Interdisciplinary Journal





SPECIAL ISSUE:

Environmental Change in the Hudson and James Bay Region, Canada

Arctic, Antarctic, and Alpine Research

Vol. 46, No. 1 February 2014 Contents

Special Issue on Environmental Change in the Hudson and James Bay Region, Canada Edited by Wendel (Bill) Keller, Andrew M. Paterson, Kathleen M. Rühland, and Jules M. Blais

	Luited by Wender (Din) Kener, Andrew Mr. Paterson, Kathleen Mr. Humand, and Jules Mr. Diais		
	aus P. U. Hochheim: Dedication David Barber		
	oduction—Environmental Change in the Hudson and James Bay Region Indel (Bill) Keller, Andrew M. Paterson, Kathleen M. Rühland, and Jules M. Blais		2–5
	ollen-Derived Paleovegetation Reconstruction and Long-Term Carbon Accumulation at a Fen Site in the Attawapiskat River (atershed, Hudson Bay Lowlands, Canada Benjamin C. O'Reilly, Sarah A. Finkelstein, and Joan Bunbury		6–18
	eatland Initiation, Carbon Accumulation, and 2 ka Depth in the James Bay Lowland and Adjacent Regions ames R. Holmquist, Glen M. MacDonald, and Angela Gallego-Sala		19–39
	fferential Development of Two Palsa Fields in a Peatland Located near Whapmagoostui-Kuujjuarapik, Northern Québec, anada <i>Marie-Ève Fillion, Najat Bhiry, and Mustapha Touazi</i>		40–54
	lolocene Climate and Environmental Changes in Western Subarctic Québec as Inferred from the Sedimentology and the Geomorphology of a Lake Watershed Donald Cayer and Najat Bhiry		55–65
	n Update on the Ice Climatology of the Hudson Bay System Klaus P. Hochheim and David G. Barber		66–83
	ffects of Climate Change on Peatlands in the Far North of Ontario, Canada: a Synthesis Jim McLaughlin and Kara Webster		84–102
	wo Bogs in the Canadian Hudson Bay Lowlands and a Temperate Bog Reveal Similar Annual Net Ecosystem Exchange of CO Elyn R. Humphreys, Chris Charron, Mathew Brown, and Randall Jones		103–113
	The Fate of Hudson Bay Lowlands Palsas in a Changing Climate Andrew Tam, William A. Gough, Slawomir Kowal, and Changwei Xie		114–120
	An Exploratory Survey of Summer Water Chemistry and Plankton Communities in Lakes near the Sutton River, Hudson Bay Lowlands, Ontario, Canada Andrew M. Paterson, W. (Bill) Keller, Kathleen M. Rühland, F. Chris Jones, and Jennifer G. Winter A Multi-trophic Exploratory Survey of Recent Environmental Changes Using Lake Sediments in the Hudson Bay Lowlands, Onta Canada Kathleen M. Rühland, Kathryn E. Hargan, Adam Jeziorski, Andrew M. Paterson, W. (Bill) Keller, and John P. Smol Spatial, Environmental, and Biotic Determinants of Zooplankton Community Composition in Subarctic Lakes and Ponds in Wapusk National Park, Canada Celia C. Symons, Michael T. Pedruski, Shelley E. Arnott, and Jon N. Sweetman		121–138
			, 139–158
			159–190
	Sutrient Uptake and Short-Term Responses of Phytoplankton and Benthic Algal Communities from a Subarctic Pond to Experimental Nutrient Enrichment in Microcosms Kaleigh A. Eichel, Merrin L. Macrae, Roland I. Hall, LeeAnn Fishback, and Brent B. Wolfe		191–205
	wian-Driven Modification of Seasonal Carbon Cycling at a Tundra Pond in the Hudson Bay Lowlands (Northern Manitoba, Canada) Lauren A. MacDonald, Nicole Farquharson, Roland I. Hall, Brent B. Wolfe, Merrin L. Macrae, and Jon N. Sweetman		206–217
	Hydrological Connectivity and Basin Morphometry Influence Seasonal Water-Chemistry Variations in Tundra Ponds of the Northwestern Hudson Bay Lowlands		218–235
	Surface Water and Groundwater Contributions to Streamflow in the James Bay Lowland, Canada Julia Orlova and Brian A. Branfireun		236–250
	Subarctic Thermokarst Ponds: Investigating Recent Landscape Evolution and Sediment Dynamics in Thawed Permafrost of Northern Québec (Canada) Frédéric Bouchard, Pierre Francus, Reinhard Pienitz, Isabelle Laurion, and Stéphane Feyte Observed and Projected Climate Change in the Churchill Region of the Hudson Bay Lowlands and Implications for Pond Sustainability Merrin L. Macrae, Laura C. Brown, Claude R. Duguay, Jennifer A. Parrott, and Richard M. Petrone		251–271
			272–285
	Book Reviews		
	Antarctica: Global Science from a Frozen Continent, by David H. Elliot		286–287
	cience in the Snow; Fifty Years of International Collaboration through the Scientific Committee on Antarctic esearch, by John C. Behrendt		287–288
	Polar and Alpine Meetings Calendar	Федеральное государственное	289–291
	Errata	бюджетное учреждение науки Центральная научная библиотека Уральского отделения	292
		уральского отделения Российской академии наук (ЦНБ УрО РАН)	