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FINLEY BENTLEY

*Historical, Legal and Political Reflections
on The International Polar Year*

Routledge

Global warming has had a dramatic impact on the Arctic environment, including the ice melt that has opened previously ice-covered waterways. State and non-state actors who look to the region and its resources with varied agendas have started to pay attention. Do new geopolitical dynamics point to a competitive and inherently conflictual “race for resources”? Or will the Arctic become a region governed by mutual benefit, international law, and the achievement of a widening array of cooperative arrangements among interested states and Indigenous peoples? As an Arctic nation Canada is not immune to the consequences of these transformations. In *Canada and the Changing Arctic: Sovereignty,*

Security, and Stewardship, the authors, all leading commentators on Arctic affairs, grapple with fundamental questions about how Canada should craft a responsible and effective Northern strategy. They outline diverse paths to achieving sovereignty, security, and stewardship in Canada’s Arctic and in the broader circumpolar world. The changing Arctic region presents Canadians with daunting challenges and tremendous opportunities. This book will inspire continued debate on what Canada must do to protect its interests, project its values, and play a leadership role in the twenty-first-century Arctic. Forewords by Senator Hugh Segal and former Minister of Foreign Affairs and of National Defence Bill Graham. *Canada and Polar Science* Bloomsbury

Publishing

Listing of governmental agreements (United States bilateral and multilateral) and non-governmental activities and programs affecting eight types of activity in the Arctic; access, logistics and security, science and technology, wildlife and wilderness management, environmental pollution, fisheries, energy, health, educational and cultural exchanges.

Unfreezing the Arctic Routledge

"The Arctic is one of the world's most rapidly changing regions and is facing a series of unprecedented and complex challenges. It has been argued that science-informed innovation will be key in supporting sustainable regional development and improved policy outcomes. Despite significant and

increasing public investment in Arctic research, Northern communities continue to assert that existing research governance structures have been unable to create public value, failing to deliver research that reflects public expectations, interests, and innovation needs. Given that little is known about how Arctic scientific research is embedded in broader innovation and value creation processes, this dissertation takes a systems approach to examine the complex and dynamic governance contexts that shape how networked scientific research creates public value in the Canadian Arctic. It begins with a literature review that connects the concepts of innovation ecosystems and public value with Canada's efforts to guide Northern and

Arctic research to identify salient challenges and opportunities relevant to research and innovation policy. Then, the remainder of the dissertation examines public value creation processes by focusing on the instrumental case of ArcticNet, a large Canadian research network responsible for connecting public, private, government, not-for-profit and Indigenous stakeholders to study the impacts of climate change in the Arctic with the goal of informing adaptation strategies and national policies. This empirical research focused on three levels of organization: 1) networked scientific research actors; 2) a network administrative organization; and 3) institutional mechanisms for delegating authority. A Social Network Analysis was

conducted to map the configuration of science-based innovation actors in ArcticNet and its evolution over a 13-year period. Results suggest that the network was centralized around non-local public-sector actors who played central boundary spanning roles that facilitated collaboration, while local Arctic actors had an increasing propensity for carrying out boundary spanning roles and closing structural holes in the network. Next, the Network Administrative Organization (NAO) was used as the unit of analysis to explore the network-level public values associated with ArcticNet to inform network-level evaluation strategies. Public Value Mapping revealed that the NAO targeted diverse publics, seeking to create a range of public values that were

identified both at the outset of the network and emerging later. Results point to the need for research networks to improve clarity in value articulation across public facing documents and different scales (e.g., research versus network impacts). Turning to the larger contract between science and society, principal-agent theory and the public value Strategic Triangle were used to identify the overlapping, multi-level principal-agent contracts for delegating public value creation in Arctic science. Findings illustrate that the adoption of networked models for science governance corresponded with a trend towards contracting roles for public value management to Arctic scientific research actors; however, it remains unclear how core elements of public

value management (i.e., identifying public value, political legitimacy and operational capacity) have been realized. This dissertation presents new insights into the complex, networked and multi-dimensional nature of Arctic scientific research governance in Canada, raising important questions about how publicly-funded research efforts can be designed to enhance public value, with potential implications for the strategic design and operation of Arctic research efforts, as well as for regional research and innovation policy"-

Arctic Oceans Research University of Toronto Press

Marine Fishes of Arctic Canada is an accessible and up-to-date study on the diverse marine fish population existing in

Canadian waters.

Preliminary List Nc Press

The Arctic is an increasingly important region faced with major challenges caused not only by the effects of climate change, but also by a growing interest in its living and non-living resources, its attraction as a new destination for tourism, and as a route for navigation. It is not only the eight Arctic States that have paid an increased level of attention to the region; several non-Arctic actors from Asia and Europe also seek to gain more influence in the High North. At the same time, the evolving law and policy architecture for the Arctic region has recently played a more prominent role in the political and academic debate.

Unlike Antarctica, where the coherent Antarctic Treaty System governs

international cooperation, the legal regime of Arctic affairs is based on public international law, domestic law, and 'soft law'. These three pillars intersect and interact making Arctic governance multi-faceted and highly complex. This book provides an analytical introduction, a chronology of legally relevant events, and a selection of essential materials covering a wide range of issues-eg delineation and delimitation of maritime boundaries, environmental protection, indigenous peoples' rights, shipping, and fisheries. Included are multilateral and bilateral treaties, UN documents, official statements, informal instruments, domestic laws, and diplomatic correspondence.

Held Thursday, November 3, 1977 in

Ottawa (Canada). Extreme Latitudes Describes the different kinds of research being done by Canadian scientists in the Arctic, explains how they adapt to the extremely cold weather, and looks at a variety of Arctic animals

Program Report - National Science Foundation Springer Nature

In recent years the circumpolar region has emerged as the key to understanding global climate change. The plight of the polar bear, resource extraction debates, indigenous self-determination, and competing definitions of sovereignty among Arctic nation-states have brought the northernmost part of the planet to the forefront of public consideration. Yet little is reported about the social world of environmental scientists in the Arctic.

What happens at the isolated sites where experts seek to answer the most pressing questions facing the future of humanity? Portraying the social lives of scientists at Resolute in Nunavut and their interactions with logistical staff and Inuit, Richard Powell demonstrates that the scientific community is structured along power differentials in response to gender, class, and race. To explain these social dynamics the author examines the history and vision of the Government of Canada's Polar Continental Shelf Program and John Diefenbaker's "Northern Vision," combining ethnography with wider discourses on nationalism, identity, and the postwar evolution of scientific sovereignty in the high Arctic. By revealing an expanded understanding of the scientific life as it

relates to politics, history, and cultures, *Studying Arctic Fields* articulates a new theory of field research. Advocating for a greater appreciation of science in the remote parts of the world, *Studying Arctic Fields* is an innovative approach to anthropology, environmental inquiry, and geography, and a landmark statement on Arctic science as a social practice.

Cold Science Cambridge University Press Providing case study analyses of the politics of science in and around the International Polar Year of 2007-2008, this volume makes a distinct contribution to ongoing research focusing on the relationship between science, international politics, law and history. The contributors combine both interdisciplinary and multi-theoretical

approaches to engage directly with the most recent debates in international relations scholarship, to include discussions of arctic climate change, governance issues, reflections on the Antarctic Treaty and the science-geopolitics interface amongst others. This is the first comprehensive account to look explicitly at the relationship between global politics and science through an account of the International Polar Years.

Graduate Student Experiences, Lessons and Life Learnings Routledge Bringing together interconnected discussions to make explicit the complexity of the Arctic region, this book offers a legal discussion of the ongoing territorial disputes and challenges in order to frame their impact into the

viability of different governance strategies that are available at the national, regional and international level. One of the intrinsic features of the region is the difficulty in the determination of boundaries, responsibilities and interests. Against this background, sovereignty issues are intertwined with environmental and geopolitical issues that ultimately affect global strategic balances and international trade and, at the same time, influence national approaches to basic rights and organizational schemes regarding the protection of indigenous peoples and inhabitants of the region. This perspective lays the ground for further discussion, revolving around the main clusters of governance (focusing on the Arctic Council and the European

Union, with the particular roles and interest of Arctic and non-Arctic states, and the impact on indigenous populations), environment (including the relevance of national regulatory schemes, and the intertwining with concerns related to energy, or migration), strategy (concentrating in geopolitical realities and challenges analysed from different perspectives and focusing on different actors, and covering security and climate change related challenges). This collection provides an avenue for parallel and converging research of complex realities from different disciplines, through the expertise of scholars from different latitudes.

[The Arctic Climate System](#) Cambridge University Press

This accessible and engagingly written book describes how national and international scientific monitoring programmes brought to light our present understanding of Arctic environmental change, and how these research results were successfully used to achieve international legal actions to lessen some of the environmental impacts. David P. Stone was intimately involved in many of these scientific and political activities. He tells a powerful story, using the metaphor of the 'Arctic Messenger' - an imaginary being warning us all of the folly of ignoring Arctic environmental change. This book will be of great interest to anyone concerned about the fate of the Arctic, including lifelong learners interested in the Arctic and the natural environment generally; students

studying environmental science and policy; researchers of circumpolar studies, indigenous peoples, national and international environmental management, and environmental law; and policymakers and industry professionals looking to protect (or exploit) Arctic resources.

The Polar Shelf Springer Nature

Each Canadian research project was required to be relevant to the needs of northern communities, involve Northerners in planning and implementing the research and include an element of capacity building for students and communities. Indeed, unlike previous IPYs, IPY 2007-2008 included people from the circumpolar world in the planning and execution of research projects, a recognition that

local populations in the circumpolar world now have more control over their lives through land claim settlements and self government."--Introduction.

China's Arctic Ambitions and What They Mean for Canada McGill-Queen's Press - MQUP

This book shares graduate student experiences, lessons, and life learnings from research with Inuit communities in the Canadian Arctic. The results of graduate student research are often disseminated in a thesis or dissertation, but their personal experiences building relationships with Inuit, working together to design and conduct research, and how this shaped their research approach and outcomes, are rarely captured. As such, there are limited resources available to new researchers that share information

about the practical aspects of community-based research in the Arctic. The book is intended to provide a glimpse into what it is like to do research together with Inuit, and in doing so, contribute to the development of more productive and equitable relationships between Inuit and researchers. The chapters are written as structured narratives in the first-person and include reflections, and lessons learned.

United States Arctic Research Plan
National Academies Press

Once ice-bound, difficult to access, and largely ignored by the rest of the world, the Arctic is now front and center in the midst of many important questions facing the world today. Our daily weather, what we eat, and coastal flooding are all interconnected with the

future of the Arctic. The year 2012 was an astounding year for Arctic change. The summer sea ice volume smashed previous records, losing approximately 75 percent of its value since 1980 and half of its areal coverage. Multiple records were also broken when 97 percent of Greenland's surface experienced melt conditions in 2012, the largest melt extent in the satellite era. Receding ice caps in Arctic Canada are now exposing land surfaces that have been continuously ice covered for more than 40,000 years. What happens in the Arctic has far-reaching implications around the world. Loss of snow and ice exacerbates climate change and is the largest contributor to expected global sea level rise during the next century. Ten percent of the world's fish catches

comes from Arctic and sub-Arctic waters. The U.S. Geological Survey estimated that up to 13 percent of the world's remaining oil reserves are in the Arctic. The geologic history of the Arctic may hold vital clues about massive volcanic eruptions and the consequent release of massive amount of coal fly ash that is thought to have caused mass extinctions in the distant past. How will these changes affect the rest of Earth? What research should we invest in to best understand this previously hidden land, manage impacts of change on Arctic communities, and cooperate with researchers from other nations? The Arctic in the Anthropocene reviews research questions previously identified by Arctic researchers, and then highlights the new questions that have

emerged in the wake of and expectation of further rapid Arctic change, as well as new capabilities to address them. This report is meant to guide future directions in U.S. Arctic research so that research is targeted on critical scientific and societal questions and conducted as effectively as possible. The Arctic in the Anthropocene identifies both a disciplinary and a cross-cutting research strategy for the next 10 to 20 years, and evaluates infrastructure needs and collaboration opportunities. The climate, biology, and society in the Arctic are changing in rapid, complex, and interactive ways. Understanding the Arctic system has never been more critical; thus, Arctic research has never been more important. This report will be a resource for institutions, funders,

policy makers, and students. Written in an engaging style, *The Arctic in the Anthropocene* paints a picture of one of the last unknown places on this planet, and communicates the excitement and importance of the discoveries and challenges that lie ahead.

Draft Recommendations for Necessary Programs, Prepared for Consultation
Routledge

Background papers and proceedings of a conference held in Montreal, October 23-28, 1961, in which Canada's renewable resources were considered in relation to material, regional and provincial goals for economic development. Some problems of resource policy, management and administration were identified, and guidelines for action proposed.

The Saga of Canada's Arctic Scientists

Wilfrid Laurier Univ. Press

This rich portrait of Arctic science, informed by ethnographic fieldwork and Inuit perspective, speaks to the interplay of science and international politics. It looks at episodes of exploration, colonial control, exchanges with indigenous populations, and the process of knowledge gathering on the Arctic's natural and living resources. Andrew Stuhl's compelling narrative weaves together distinct episodes into a backstory for what some have wrongly called the unprecedented transformations in the circumpolar basin today. "Unfreezing the Arctic" is among the first books to undertake a sustained examination of scientific activity in the Arctic across the long twentieth century,

and it will be warmly welcomed by anyone interested in the commingled political, economic, and social histories of transboundary regions the world over."

Science, Colonialism, and the

Transformation of Inuit Lands Routledge
Report on the feasibility and advisability of establishing a Canadian national polar institute. Identifies the present situation, the needs not satisfied by the present situation and possible options.

Arctic Research of the United States

Council of Canadian Academies

A comprehensive, up-to-date assessment of the Arctic climate system for researchers and advanced students. *Sovereignty, Security, and Stewardship* McGill-Queen's Press - MQUP
Vision for the Canadian Arctic Research

Initiative: Assessing the Opportunities Council of Canadian Academies Exploring the Public Value of Networked Science in the Canadian Arctic

International Agreements for Research, Logistics and Access Concerning the Arctic University of Chicago Press

This book documents how the Arctic region has been represented in the media: exploring how the media has framed the Arctic and whether this has an impact on governmental decision-making and public preferences. The Arctic region faces profound transformations, due to global warming, spurring intense debates about economic growth, environmental protection, and socio-cultural development. At the same time, most of

humanity will never come face-to-face with the realities of the region: the media represents our only opportunity to learn about what this evolving region stands for. Recognizing that media coverage will tend to focus on specific events and relay specific messages, this book scrutinizes the nature of these messages to figure out how the Arctic region is presented by different media outlets. Studying different types of media, Landriault conducts an analysis of 628 newspaper articles, 110 televised reports, 9 magazine articles, and 404 tweets to provide the first systematic and rigorous study of Arctic media representations. This book will interest scholars, practitioners, and students in Arctic studies, critical geography, political science, and communication

studies.

Arctic Research of the United States
Vision for the Canadian Arctic Research
Initiative: Assessing the Opportunities
Report of the United States federal
government body responsible for

determining priorities for Arctic research
by the United States, including the text
of the relevant legislation and a
statement of principles for the conduct
of research in the Arctic.