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Nota di contenuto	Chapter 1. An Introduction (Douglas C. Nord ) -- Chapter 2. NordForsk as a Facilitator of Integrated Research on the Arctic (Gunnel Gustafsson) -- Chapter 3. CLINF: Climate Change Effects on the Epidemiology of Infectious Diseases and the Associated Impacts on Northern Societies( Birgitta Evengård and Tomas Thierfelder ) -- Chapter 4. CLINF: An Integrated Project Design(Tomas Thierfelder and Birgitta Evengård ) -- Chapter 5. Environmental Data Modeling for CSI Research in the Arctic (Gia Destouni, Zarah Kalantari, Shaun Quegan, Dieder Leibovic, Juha Lemmetyinen, Jaakko Ikonen) -- Chapter 6 .Reindeer Herding and Coastal Pastures: Adaption to Multiple Stressors and Cumulative Effects (Grete Hovelsrud, Camilla Risvoll, Jan Åge Riseth, Hans Tømmervik, Anna Omazic, Ann Albihn ) -- Chapter 7. The ARCPATH Project—Assessing Risky Environments and Rapid Change:Research on Climate, Adaptation and Coastal Communities in the North Atlantic Region (Astrid E.J. Ogilvie, Yongqi Gao, Niels Einarsson, Noel Keenlyside, Leslie King ) -- Chapter 8 .The Climate Model: An ARCPATH Tool to Understand and Predict Climate Change (Shuting Yang, Yongqi Gao, Koenigk Torben, Noel Keenlyside, Francois Counillon ) -- Chapter 9. Whale Ecosystem Services and Co-production Processes Underpinning Human Wellbeing in the Arctic: Case Studies from Greenland, Iceland and Norway(Laura Malinauskaite, David Cook, Brynhildur Davisdóttir,

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#### Sommario/riassunto

This book investigates the multifaceted nature of change in today's Nordic Arctic and the necessary research and policy development required to address the challenges and opportunities currently faced by this region. It focuses its attention on the recent efforts of the Nordic community to create specialized Centers of Excellence in Arctic Research in order to facilitate this process of scientific inquiry and policy articulation. The volume seeks to describe both the steps that lead to this decision and the manner in which this undertaking has evolved. The work highlights the research efforts of the four Centers and their investigations of a variety of issues including those related to ecosystem and wildlife management, the revitalization of resource dependent communities, the emergence of new climate-born diseases and the development of adequate modeling techniques to assist northern communities in their efforts at adaptation and resilience building. Major discoveries and insights arising from these and other efforts are detailed and possible policy implications considered. The book also focuses attention on the challenges of creating and supporting multidisciplinary teams of researchers to investigate such concerns and the methods and means for facilitating their collaboration and the integration of their findings to form new and useful perspectives on the nature of change in the contemporary Arctic. It also provides helpful consideration and examples of how local and indigenous communities can be engaged in the co-production of knowledge regarding the region. The volume discusses how such research findings can be best communicated and shared between scientists, policymakers and northern residents. It considers the challenges of building common concern not just among different research disciplines but also between bureaucracies and the public. Only when this bridge-building effort is undertaken can true pathways

to action be established. .

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