ARCTIC SECURITY IN AN AGE OF CLIMATE CHANGE

This is the first book to examine Arctic defense policy and military security from the perspective of all eight Arctic states. In light of climate change and melting ice in the Arctic Ocean, Canada, Russia, Denmark (Greenland), Norway, and the United States, as well as Iceland, Sweden, and Finland, are grappling with an emerging Arctic security paradigm. This volume brings together the world’s most seasoned Arctic political-military experts from Europe and North America to analyze how Arctic nations are adapting their security postures to accommodate increased shipping, expanding naval presence, and energy and mineral development in the polar region. The book analyzes the ascent of Russia as the first “Arctic superpower,” the growing importance of polar security for NATO and the Nordic states, and the increasing role of Canada and the United States in the region.

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Arctic Security in an Age of Climate Change

Edited by

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For Kim, Olivia, and Caroline
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Allianseforsvar i endring, 1970–2000 [The history of Norwegian defense], vol. 5
(2004); with Kjetil Skogrand, Fryktens likevekt. Atombomben, Norge og verden 1945–
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