

Springer

1st
edition1st ed. 2020, XV, 489 p. 48
illus., 38 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-030-28403-9

£ 109,99 | CHF 141,50 | 119,99 € |
131,99 € (A) | 128,39 € (D)

Available

Discount group

Science (SC)

Product category

Monograph

Series

Springer Polar Sciences

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Environment : Marine & Freshwater Sciences

Pongrácz, E., Pavlov, V., Hänninen, N. (Eds.)

Arctic Marine Sustainability

Arctic Maritime Businesses and the Resilience of the Marine Environment

- Places resource use conflict in an Arctic context (fishing vs. oil & gas exploration and marine transportation)
- Discusses ecological and socioeconomic impacts of oil spills in Arctic seas
- Covers oil spill response preparedness and vulnerability in the Arctic

This book presents the latest scientific views on resource use conflicts in the Arctic seas. The main areas of focus are the biological resources of Arctic seas vs. exploitation of oil and gas resources, and the conflicts in between. In addition, climate change is presented as a stressor, which both limits and facilitates the economic availability of resources in the Arctic. The book is divided into five parts. Part 1 examines Arctic ecosystems, resilience of the marine environment and possible conflicts between industrial sector and biological world. The focus of Part 2 is on transport infrastructure along the northern routes. Issues such as Arctic maritime operations, black carbon and unmanned aerial vehicles are considered. Part 3 focuses on resource use conflicts in Arctic seas and on the most recent threats in terms of Arctic oil and gas exploration, offshore logistics operations as well as transportation of oil and oil products. Discussions in Part 4 of the book are concentrated around social aspects and involvement of local communities. Tourism development, preservation of indigenous culture, engagement of communities on relevant Arctic issues, search and rescue in the cold marine environment are examples of questions raised. The book reviews Arctic-specific petroleum regulations, the state of preparedness to oil spill accidents in the region as well as the latest developments in oil spill response technologies and their limitations. Search and rescue operations are reviewed and how working in this harsh Arctic environment affects the ability of rescue technicians to perform the required technical skills. Part 5 considers the sustainability challenges arising from the marine resource exploitation. The focus is on the vulnerability of Arctic ecosystems to disturbance – both natural and anthropogenic.

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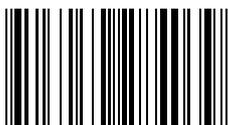
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ISBN 978-3-030-28403-9 / BIC: RBKF / SPRINGER NATURE: SCU36000

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