Reviews on books, internet and scientific media

Anne Marie de Grosbois

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**Forbes DL (ed):
State of the Arctic Coast 2010:
Scientific Review and Outlook**

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Reviewed by Anne Marie de Grosbois

Recent research on Arctic coasts has been published in April 2011 in a new report, *State of the Arctic Coast 2010*, produced by the International Arctic Science Committee (IASC), the Land–Ocean Interactions in the Coastal Zone Project (of the International Geosphere–Biosphere Programme and the International Human Dimensions Programme on Global Environmental Change), and the International Permafrost Association (IPA). Using the findings of the *Arctic Climate Impact Assessment Reports* and the *Arctic Human Development Report*, the Report examines and assesses not only the physical state, the state of the ecosystem and the current socio-economic conditions of coastal regions of the Arctic, but also looks at integrated approaches to coastal change in the Arctic, monitoring, detecting and modelling of coastal change, vulnerability, adaptation, adaptive capacity, resilience, and governance.

The last chapter of the Report outlines recent and future science plans, identifies the need in building a road map to

integrated coastal systems research and aptly summarizes the complex issues in the Arctic. “*Evidence of a warming climate is widespread across the Arctic, with the potential for dramatic impacts on sea levels, sea ice, waves, permafrost, plant and animal species, and human use of the coastal zone. ... Managing change on Arctic coasts requires a range of responses at various scales. Many of the impacts of physical (climate) and cultural change are experienced at the human settlement scale and require community adaptation strategies, yet adaptive capacity may be limited. At regional and national scales, co-management systems, ecosystem-based management policies, and national assessments and policy reviews have pointed to new approaches and strategies to manage change. Nevertheless, severe challenges remain in the establishment of appropriate governance, not least because of cultural differences in perception.*”

State of the Arctic Coast 2010 has been the result of a collaborative international effort of 15 leading authors, 27 contributing authors and the editors, Don Forbes (Geological Survey of Canada), Hartwig Kremer (Land–Ocean Interaction in the Coastal Zone), Hugues Lantuit (International Permafrost Association), and Volker Rachold (International Arctic Science Committee). The Report may be downloaded in various resolutions and size formats (full report, individual chapters, or executive summary and key findings) from <http://arcticcoasts.org>.

A. M. de Grosbois (✉)
Friedmar-Brendel-Weg 9a, 09599 Freiberg, Germany
e-mail: degrosbois@blue-cable.de