

Arctic Coastal Zones at Risk – report

Meeting in Tromsø, Norway, 25th to 26th January, 2008

The work group “Arctic Coastal Zones at Risk” founded by LOICZ and IASC has decided to compose an assessment report of the state of the geophysical, chemical, ecological, economic and social changes to which the Arctic coast is submitted due to climate change and human activities. The purpose is to provide the interested public and decision-makers with the state-of-the-art knowledge of all relevant disciplines of science. First address of this report is the Arctic Council being the official representative of the states bordering the Arctic Ocean as well as the head of the research programmes IASC and AMAP.

The **length** of the report should be 50 – 70 pages, of which 30 pages are dedicated to integration. The **review** shall be achieved in an open review process by LOICZ and IASC members via www.

As a preparation of the report, we want to write a **1-page EOS article**: Volker Rachold will send a template, work group leaders will write contributions until end of March 2008, but before ASSW (26.3.-2.4.2008)

Deadlines:

EOS contribution:	mid March 2008
Author's list finished:	end of March 2008.
Discussion of drafts, team for synthesis	during ArcticNet meeting in Québec in December
Entire report:	March 2009, for ASSW in Bergen, Norway

The proposal for the **report title** is:

Responding to change on Arctic Coasts – circumpolar status and capacity assessment

The **structure** of the report should look as follows (lead authors are marked in red):

Introduction *Hartwig Kremer, Volker Rachold*

- Why is the Arctic coast an important region?
- Role of IASC and LOICZ
- Arctic coastal systems and communities: integrative approach

Classical approach

- Physical assessment (sources: ACIA, ICARP II, IPCC, SIRRO):
*Irina Overeem, Paul Overduin, **Steven Solomon** (approached by Don Forbes), **James Syvitski**, Mikhail Grigoriev.*
- Ecological assessment (AMAP oil and gas assessment, ACIA, ICARP II, LOICZ Russian Arctic Basins):
Christoph Zöckler, Salve Dahle, Jeff Price, Terry Callaghan, Jozef Pacyna, Neil Hamilton, Tom Barry (CAFF)
- Human dimensions: social, economic, institutional, governance aspects (ACIA, ICARP II, AHDR, AMSA, PAME):
Lawson Brigham, Eirik Mikkelsen, Leslie King, Alf Håkon Hoel, Louwrens Hacquebord, Oran Young

Integration

- An integrated socio-ecological approach to coastal change and resilience in the Arctic
*Paul Overduin, **Don Forbes, Andreas Kannen**, Neil Hamilton, Grete Hovelsrud, Ilan Kelman*
- Case studies, deltas. (AMSA, CAVIAR [CICERO], ArcticNet)
***Oluf Langhelle, Ketil F. Hansen** (approached by Andreas Kannen), **Irina Overeem**, Helmuth Thomas.*

- Monitoring and detecting change (AccoNet, evaluate Arctic Frontiers talks and material)
Shari Gearheard (approached by Don Forbes), *Paul Overduin*, *Hugues Lantuit*
- Modelling and Prognosis
Irina Overeem, *Scott Peckham*, *Stanislav Ogorodov*
- Governance and Adaptation
Leslie King, *Alf Håkon Hoel*

Synthesis / gaps and capacities