

# Activities of the Arctic Monitoring and Assessment Programme

Progress report to the meeting of the Senior Arctic Officials, Yellowknife, Canada  
26-27 March 2014

By the AMAP WG Chair  
Morten Skovgaard Olsen



## Arctic Ocean Acidification

- Technical Report released December 2013
- Summary for policy makers, May 2013, Kiruna
- Film, May 2013, Kiruna
- Summary Report, **NOW AVAILABLE**

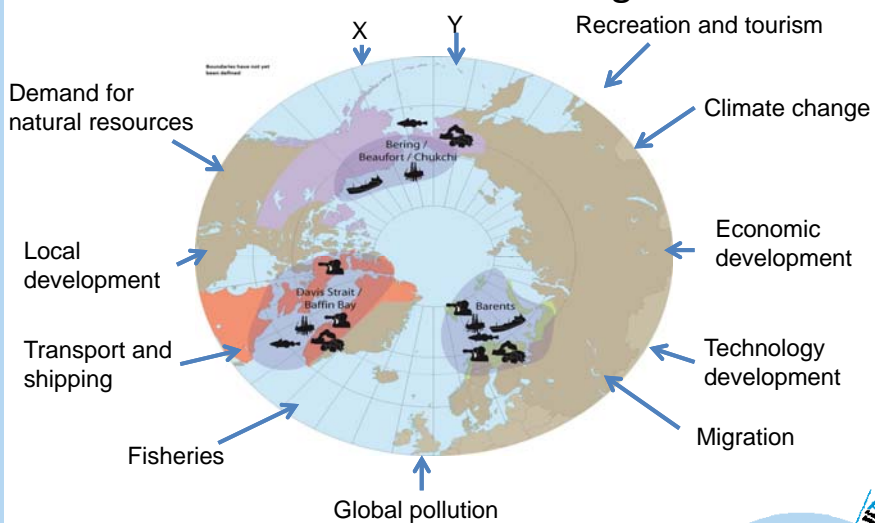


## Ongoing AMAP activities

- Adaptation Actions for a Changing Arctic
- BC and tropospheric ozone
- Methane
- Scientific use of unmanned aircraft systems
- Human health in the Arctic
- Radioactivity in the Arctic
- POPs in the Arctic






## AACA - Drivers of change




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## Status of AACA-C

- First INT face-to-face meeting arranged
- Monthly INT webinars are being arranged
- Nominations of experts ongoing
- All co-chairs INT and RITs in place

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## The AACA co-chairs

- Integration team: Michael Kuperberg (USA), Glen Peters (Norway)
- Barents: Marianne Kroglund (Norway), Monica Tennberg (Finland), Vladimir Ivanov (Russia)
- Baffin Bay/Davis Strait: Anders Mosbech, Malene Simon (Kingdom of Denmark), Martin Fortier (Canada)
- Bering/Beaufort/Chukchi: Alexander Klepikov (Russia), Larry Hinzman (USA), Gary Stern (Canada)

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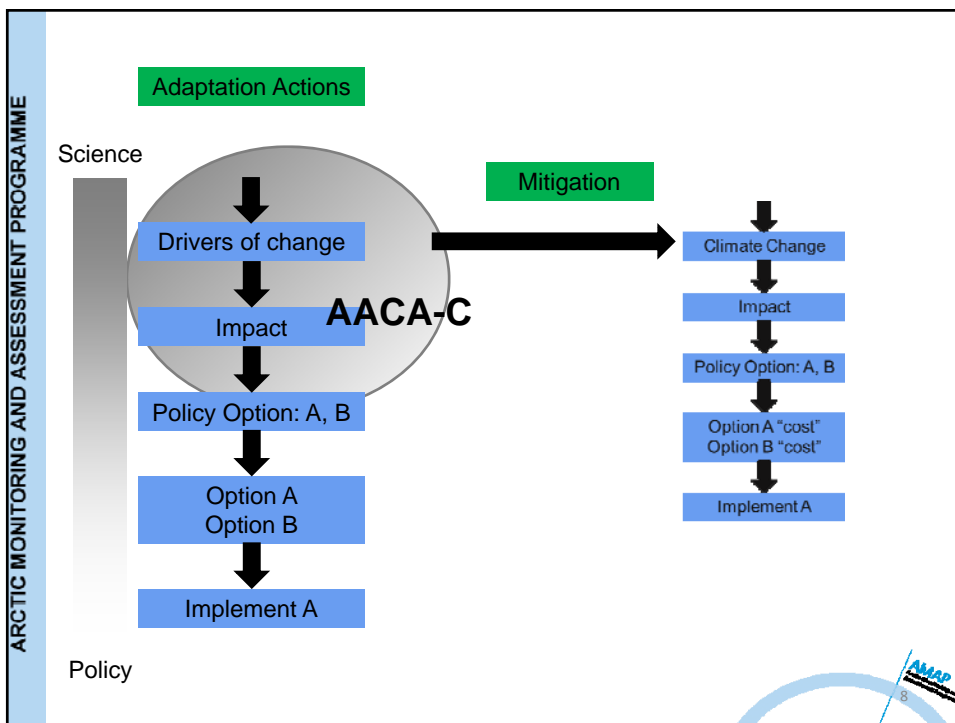
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## Upcoming workshops

- 9th April workshop on climate modelling and SWIPA update
- 19-20 May workshop on socio-economic scenarios
- Week of 2 June; Baffin Bay/Davis Strait regional workshop
- Bering/Beaufort/Chukchi workshop 1 September



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## AACA regional integrated report

- Chapter 1 Introduction
- Chapter 2 Stakeholder regional perspective
- Chapter 3 General description of the region
- Chapter 4 Globally driven change. Current, 2030 and 2080
- Chapter 5 Regionally driven change. Current, 2030 and 2080
- Chapter 5 bis Climate response in region X
- Chapter 6 Impact assessment
- Chapter 7 Resilience
- Chapter 8 Arctic future scenarios
- Chapter 9 Adaptation Options/Actions/Measures
- Chapter 10 Knowledge gaps. How can science-policy interface be approved?

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## Update on POPs in the Arctic

Multi-component assessment:

- Update on temporal trends in POPs in air and biota; also as input to 2014 Stockholm Convention effectiveness evaluation (full report in 2015)
- Assessment of new emerging POPs (2016)
- Biological effects of POPs and Mercury (2016)
- Integrated assessment of climate and POPs issues (2017)

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## Update on Radioactivity in the Arctic (2015)

Updating 2009 assessment to include:

- New information on issues in 2009 report
- Decommissioning of facilities and handling of wastes
- Accidents (Fukushima)
- Trends in levels at Arctic sites
- NORM/TENORM from mining and oil and gas activities



## Update on Human Health Assessment (2015)

Updating 2009 assessment to include:

- Trends in levels of contaminants in humans in the Arctic; also as contribution to Stockholm Convention effectiveness evaluation
- Health effects of contaminants in human populations in the Arctic
- Risk assessment and communication of risk
- Strategies for adaptation to combined stressors; also as contribution to AACA-C



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## Assessment products (2015)

“Arctic pollution issues of concern” Summary for policy makers

Technical reports on

- Human Health (2015)
- Radioactivity (2015)
- POPS (2016)

Non-technical summary report:  
“Arctic pollutions issues of concern” (2016)



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## Unmanned Aircraft Systems Expert Group

- UAS operators Handbook (2015)
- Arctic airspace access paper (2015)




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## Other AMAP Activities

- Review and revision of guidelines for AMAP Trends and Effects Monitoring Programme; coordination with CBMP
- SAON continuing activities
- Further development of new AMAP website



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## Cooperation with other groups

- PAME: collaboration on marine ecosystem approach initiative and new initiative on sustainable Arctic tourism
- CAFF: coordination with CBMP in revision of AMAP monitoring guidelines
- SDWG: cooperation between human health expert groups
- Taskforce on Black Carbon and Methane/ACAP
- Scientific Cooperation Task Force
- Sustaining Arctic Observatories Network
- UNEP: supporting the Stockholm convention by Arctic contributions to effectiveness and sufficiency review
- IASC, WMO, IASSA: SWIPA and AACA follow up activities
- UN GEF: Siberian rivers project





## Future AMAP meetings

- AACA/SWIPA preparatory workshop, April 9
- AMAP Human Health expert group, May 14-15
- POPs expert group, May 16-17
- AACA/SWIPA meeting, May 22-25
- AOA II scoping meeting, May 27-28
- AACA Baffin Bay/Davis Strait Regional WS, June 2
- SLCF expert group BC/ozone, June 3-5
- AMAP Human Health expert group, August 17-21
- AACA Bering/Baufort/Chukchi Sea, early september
- AMAP WG, September 15-18 Whitehorse

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## Thank You




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## AACA-C Activities

- Preparation of proposed Implementation Plan for AACA-C
- Preparation of proposed terms of reference for Integration Team and Regional Implementation Teams
- Proposal for a strategic framework and generic table of contents for regional integrated assessments
- Above proposals to be reviewed at Coordinating Workshop in Quebec on 8-9 October 2013

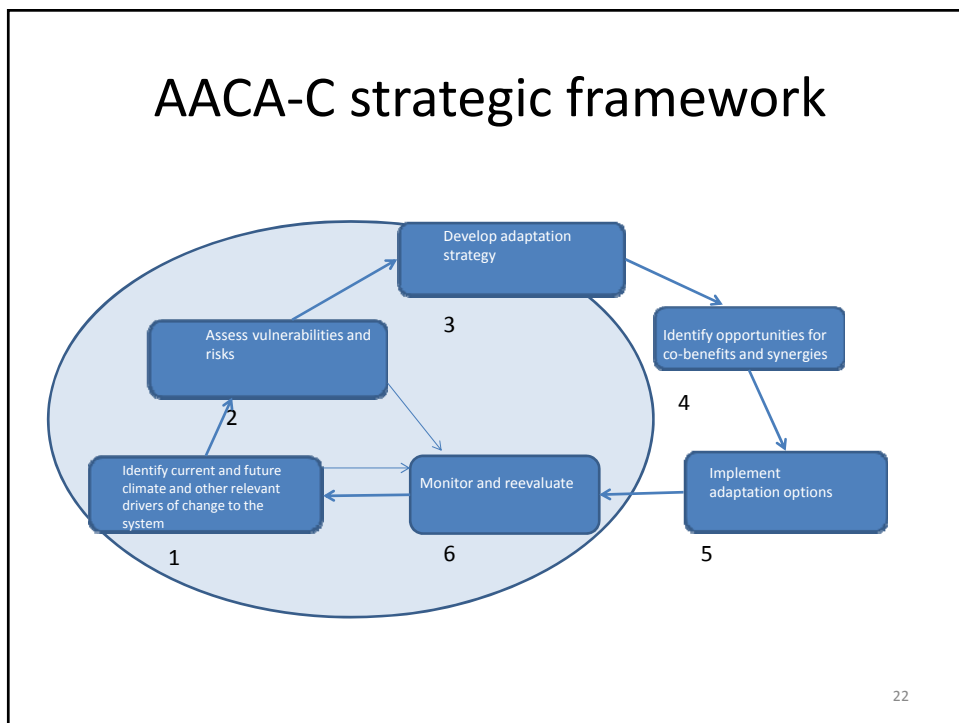
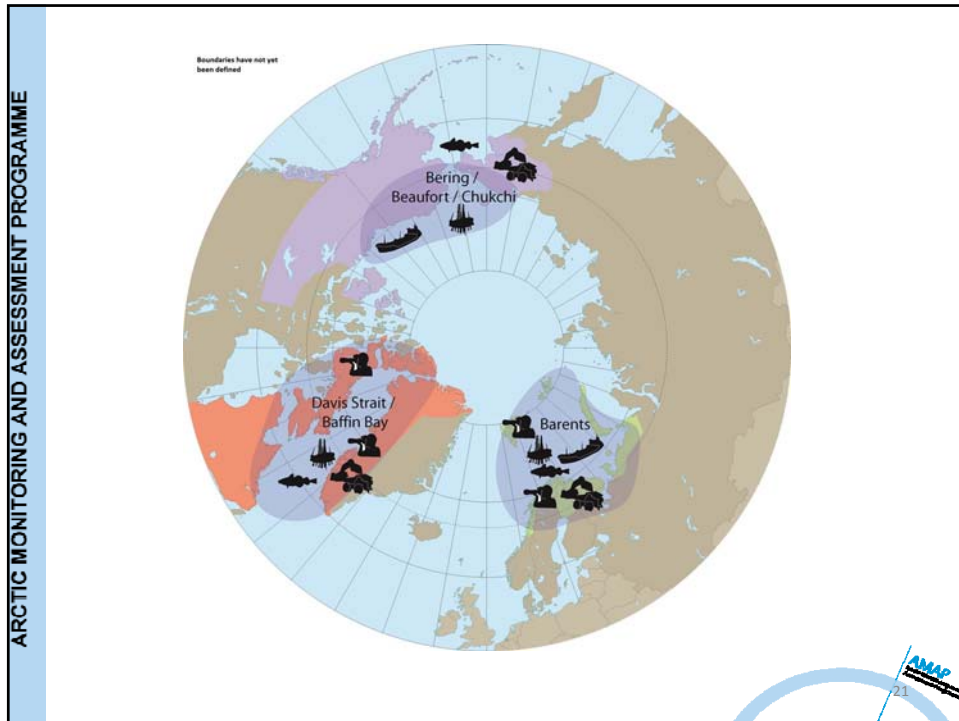


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## Implementation plan key points

- Regional approach
- Priority setting by national, regional, and local authorities and other stakeholders
- Build on previous and ongoing work under the auspices of the Arctic Council
- Common methodology and common set of preconditions/scenarios
- Time perspective 2030 and 2080.
- Will cover marine and terrestrial areas.





### General Principles:

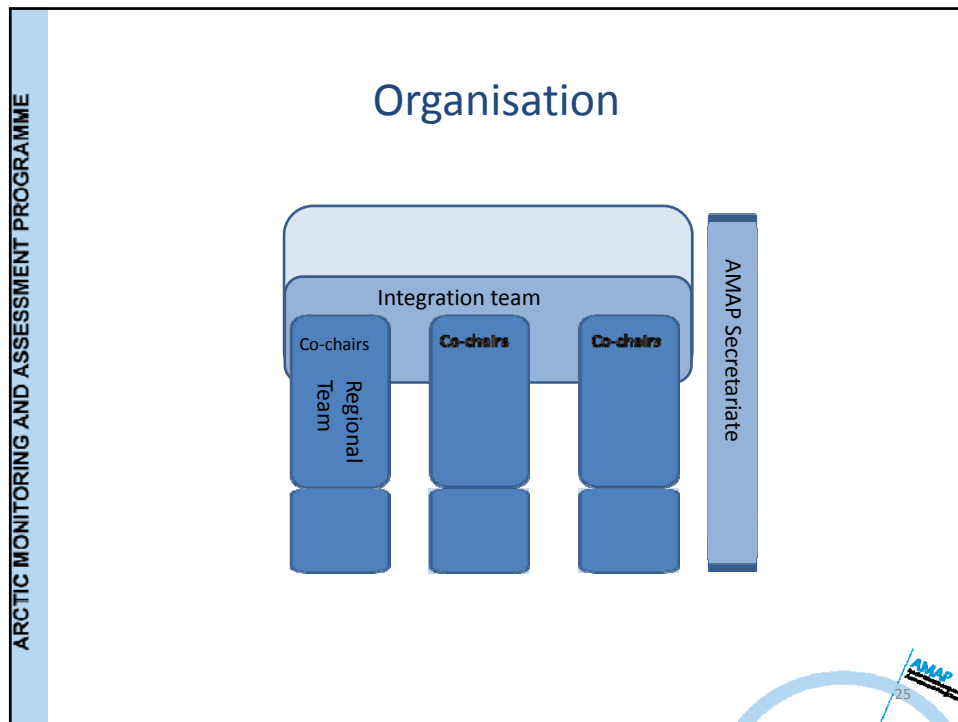
- Utilizes up-to-date science results from multiple disciplines
- multiple ways of knowing must be utilized (i.e., traditional and local knowledge, scientific information)
- Report is written in an acceptable style for non-specialists
- Results and recommendations must be formulated and integrated so they address issues of regional (including decision makers) and stakeholder identified concerns and needs
- Provides a synthesis of findings to inform possible adaptation options of use to decision-makers



### Table of Contents:

- Chapter 1. General Description Region X**
- Chapter 2. Climate variability and change in Region X**
- Chapter 3. Other Environmental/Sectoral/Socio-Economic Drivers of Regional Change**
- Chapter 4. Assessing the Vulnerabilities and Risks (Resilience)**
- Chapter 5. Adaptation Options/Actions**
- Chapter 6. Co-benefits and Synergies**
- References and Appendices**





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## AACA-C Activities

Initial activities of the three AACA-C regions:

- Barents Sea region: regional workshop to be held 19-21 November 2013
- Davis Strait/Baffin Bay region: regional workshop early 2014
- Bering/Chukchi/Beaufort Seas region: plans under way for regional workshop in late 2013 or early 2014

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## AACA-C Activities

Report on relevant scenarios to AACA-C work being prepared by Norway

SWIPA follow-up planned in relation to AACA-C:

- Freshwater budget for the Arctic (AMAP with CLiC, IASC); first meeting 11-12 November 2013, Stockholm
- Possible short follow-up reports on sea ice, snow, GRIS, permafrost
- Workshop early 2014 to link AACA-C needs and other SWIPA follow up

