



# AMAP deliverables and ongoing work



SAO meeting Yellowknife  
October 22-23

Morten S. Olsen  
AMAP Chair,



# AMAP mandate

- “The primary objectives of AMAP is the measurement of the **levels of anthropogenic pollutants and the assessment of their effects** in relevant component part of the Arctic environment. The **assessments** should be presented in status reports to relevant fora **as a basis for necessary steps to be taken to reduce the pollution.**”



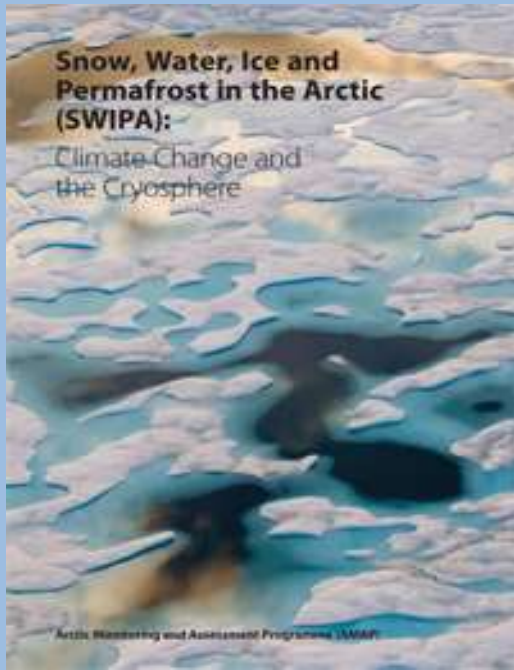
# What and how

- Coordination of monitoring efforts
- integrated assessment reports
- identifying possible causes for change
- detecting emerging problems,
- recommending actions



# Science assessment report

## Made by scientists



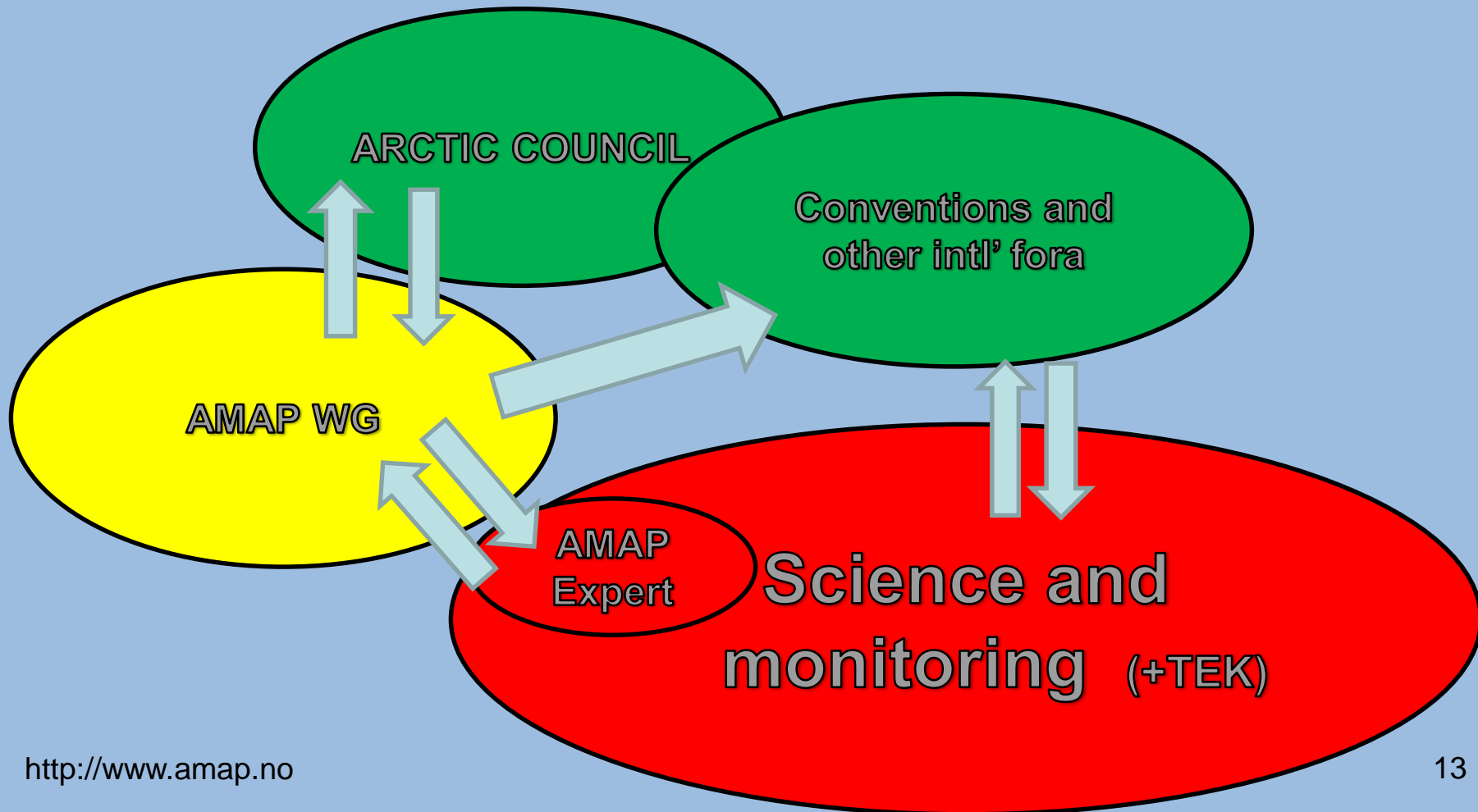
- National and/or open nomination process
- Scientific peer review
- Full references
- Documentation of grey literature and TLK
- Presented at science conferences

# Robust spin-off products by the AMAP WG

- **Summary for policy makers**
- **Laymans report**
- **Layman summaries**
- **Films**



# Who does what ?



# Science assessments

- **SLCF (black carbon and tropospheric ozone)**
- **SLCF (methane)**
  
- **Human health**
- **Persistent organic pollutants (POPs)**
- **Radioactivity**



# Black carbon and tropospheric ozone

- Forcing Mechanisms and Timescales
- Emissions in the Context of the Arctic
- Atmospheric Transport to the Arctic
- Modeling Methods
- Model-Measurement comparisons
- Trends in Concentrations
- Arctic Radiative Forcing and Climate Response: Literature Review and Climate Simulations





# Methane expert group

- **Overview: Global methane budget and methane radiative forcing**
- **Natural terrestrial methane sources in the Arctic**
- **Natural marine methane sources in the Arctic**
- **Anthropogenic methane emissions and future projections (Global)**
- **Atmospheric monitoring, observations and modelling of methane**
- **Modeling the climate response**



# SLCF summary for policy makers

**Question 1: What are SLCFs?**

**Question 2: What are the Arctic climate responses to emissions?**

**Question 3: What are the sources?**

**Question 4: What might be the effectiveness of possible measures?**



# Timeline

- Peer review is ongoing
- Science writers have been hired
- Work on drafting/production of SPMs has been initiated.
- Approval of key findings and science based recommendations February 2015



# Human Health Assessment

- Trends in levels of contaminants in humans in the Arctic.
- Health effects of contaminants in human populations in the Arctic
- Risk assessment and communication of risk
- Strategies for adaptation to combined stressors.



# Update on POPs in the Arctic

## Multi-component assessment:

- Update on temporal trends in POPs in air and biota;
- [Biological effects of POPs and assessment of new emerging POPs]
- [Integrated assessment of climate and POPs issues]



# Radioactivity in the Arctic

- 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



# SPM on Pollution Issues

- Changes in Arctic contamination levels (and human exposure)
- New or emerging concerns
- Human health risk communication
- Needs for global and national actions and implementation to address POPs and Human health



# Timeline

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Thank you!!!



## AMAP work plan 2015-2017

- Completing the POPs assessment
- Completing and delivering the Adaptations Actions for a Changing Arctic (AACCA) project
- Updating the AMAP snow, water, ice, permafrost assessment
- Updating the AMAP Arctic Ocean acidification assessment