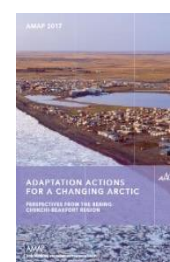
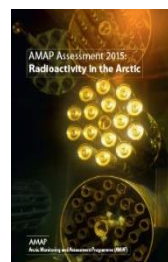


AMAP: Monitoring and assessments: Contaminants, climate change and impacts

AMAP has a mandate to monitor and assess the status of the Arctic region with respect to pollution (...) and climate change issues by documenting levels and trends, pathways and processes, and effects on ecosystems and humans, and by proposing actions to reduce associated threats for consideration by governments

AMAP's Arctic regional monitoring is based on national monitoring and research activities and provides a regional contribution to the global monitoring programmes



AMAP monitoring

- Arctic pollution and its effects
 - Mercury
 - Persistent Organic Pollutants (POPs)
 - Human health
 - Litter and microplastics
 - Radioactivity
- Climate change and its effects
 - Climate and climate change (*Snow, Water, Ice, and Permafrost in the Arctic – SWIPA*)
 - Climate change ecosystem impacts (with CBMP)
 - Short-lived Climate Forcers (methane, black carbon, ozone ...)
 - Ocean acidification

AMAP Trends and Effects Monitoring Programme

Monitoring guidelines

Background

- The structure for the monitoring guidelines is derived from the *DPSIR framework*. The framework describes the interactions between society and the environment: *Driving forces, Pressures, States, Impacts, and Responses*.
- The monitoring guidelines addresses (some of the) data/information needs associated with the *States and Impacts* DPSIR components
- The basis is the *Essential Climate Variables* (ECV) by the Global Climate Observing System (GCOS)¹

¹ <https://public.wmo.int/en/programmes/global-climate-observing-system/essential-climate-variables>

AMAP Trends and Effects Monitoring Programme

Monitoring guidelines

Structure

- Chapter 1: Introduction
- Chapter 2: *State* parameters
- Chapter 3: *Impacts/Effects* of *State* parameters
- Chapter 4: Ecology
- Chapter 5: Feedbacks

AMAP Trends and Effects Monitoring Programme

Monitoring guidelines

Structure

For each parameter, address these questions:

- Coordination activities
[Are these parameters monitored by other organizations/initiatives? Should these be considered the 'home' for these parameters?]
- Quality Assurance/Quality Control
What QA/QC programs exist or should be developed in support of these parameters?]
- Data reporting
[Are international, recognized data centres for these variables existing?]