

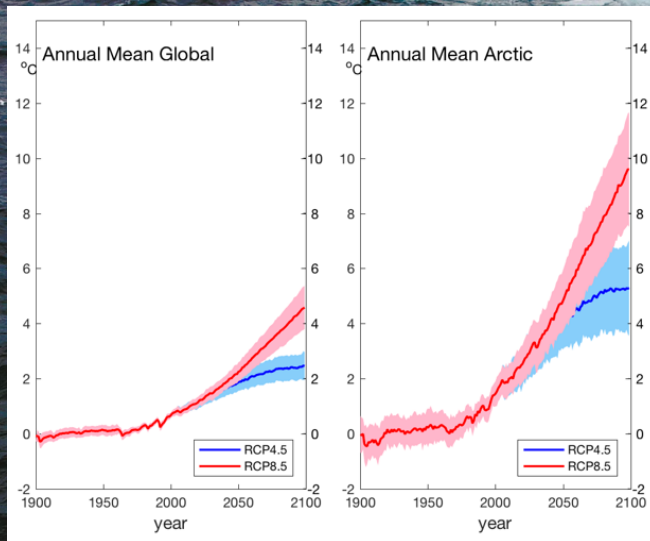
Arctic impacts and global implications of different emission pathways

Arctic Environment Ministers' meeting
11-12 October 2018

Arctic Monitoring and Assessment Programme (AMAP)
Marianne Kroglund



Snow, Water, Ice and Permafrost in the Arctic (SWIPA) 2017



The Arctic warms at **more than twice** the global rate

Arctic warming trends will **continue** towards mid-century

Trends after 2050 depend on **today's mitigation actions**

AMAP

Arctic Monitoring and Assessment Programme (AMAP)



Fundamental
consequences
for nature and
humans

Loss of **sea ice**

Loss of **land ice**

Thawing of
permafrost

Ocean **acidification**

Changes in
ecosystems

Increased frequency
of **natural hazards**

Livelihoods under
increasing pressure

Arctic change has
global implications

A white ptarmigan is shown in a snowy, rocky landscape. The bird is facing right, looking down at the ground. The background is a blurred, snowy environment with some rocks visible. The overall scene is bright and cold.

Socio-economic processes also shape the future of the Arctic

A close-up, slightly blurred image of a reindeer's face, showing its eye and part of its nose. The reindeer is looking towards the right. The background is a soft, out-of-focus natural setting.

Global demand and use of food, energy and resources

Access to **new areas** for economic activity

Ability to **resolve conflicts** and dilemmas

Advance **early and ambitious** climate change mitigation actions

System transitions to a low-emission and climate-resilient economy

How do we move forward?

International **cooperation** is fundamental

Strengthen **capacity** for climate action

Diversify economies

Create arenas for resolving conflicting interests

Co-produce knowledge

Strengthen **observations, analyses and assessments** as basis for adaptation

Strengthen the **science/policy** interface

Thanks for listening!

