

Part 2

Greenland today

LOCAL OBSERVATIONS OF CLIMATE CHANGE

EXERCISE

H

Local observations of Climate Change

Subject Geography | Physics

Level easy

Duration 60 minutes

Learning Opportunity

Competences

Social and civic

Detailed description

The pupils identify and discuss the relations between climate change as natural phenomena and as conditions for social activity and learn to identify differences

Math, science, technology

Learn to read and understand text on climate change referring to temperature, water levels and societal impacts including reading and interpreting graphs

Overview

Min.	Topic	Tasks for the pupils	Tasks for the teacher	Material
35	Climate change in Greenland	Read the texts presenting climate change, identify and write down positive and negative impacts and discuss these	Provide material and answer questions about the text and how to read the graphs	Laminated A4 cards showing climate change (Material H2-H3) and a worksheet to support the enquiry (Worksheet H4)
15	Differences in local impacts of climate change on nature and society	Place cards and pictures on the Greenland map, point to relations between climate and human activity	Advise pupils on reading the map, lead the discussion	Map of Greenland (Map H1) and a set of laminated A5 cards (7 texts + 7 pictures) showing local impacts (Material H5)

Detailed Description

STEP 1

Climate change has been very visible in Greenland and some of the dramatic impacts of climate change on a global level are directly related to changes in and around Greenland. This is the case with four prominent measures of climate change: rising temperatures, Greenland's ice cap melting, reduced sea-ice coverage in the Arctic, and rising sea levels on a world scale. These measures are described and presented in graphical form in two laminated cards (Material H2 and H3).

This step of the exercise entails:

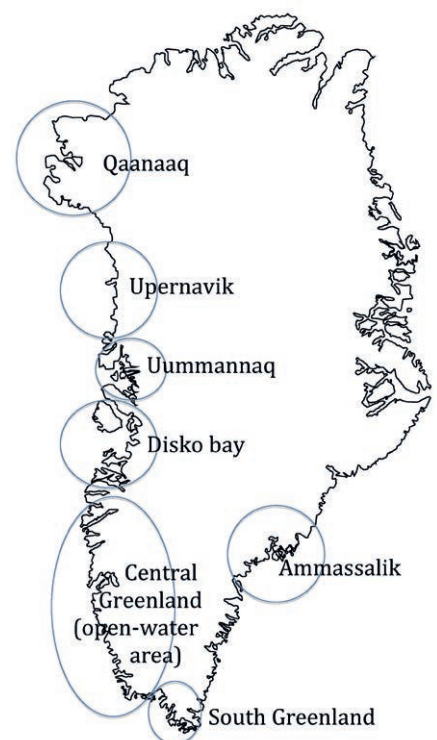
1. reading about the four prominent measures of climate change (Material H2 and H3) and recognizing how these changes are visible in Greenland and the Arctic and impact countries on a global scale,
2. identifying positive and negative impacts locally and globally of climate change both as natural phenomenon and as changing conditions for human activities, economic endeavours and political influence and writing them in the worksheet H4, and
3. discussing these impacts in the classroom.

STEP 2

Greenland spreads a long way from the south to the north. This results in very different temperatures and local climates in different parts of Greenland. Also climate change and its impacts in Greenland appears to be geographically different and appear to have very different impacts on human life in these locations. The different impacts are described on cards emphasizing the local experiences of people living in 7 different places in Greenland (Material H5). Part of the challenge to the pupils is to read these differences from the cards' presentation of the local climate change impacts.

This step of the exercise involves:

identifying the different climate impacts and comparing them, then place the text cards describing the climate impacts on the appropriate locations on the map of Greenland (Map H1),
annotating the map with pictures demonstrating some of the impacts described on the text cards, thereby producing a more detailed and visual representation of the variations in climate change, and
identifying and discussing how climate changes affects human activities differently and either supports or challenges daily life.



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Picture 2: The seven districts mentioned in the text



Examples of the cards: (Material H5)



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