

dLab Outdoors Science



Causes and
Consequences

Made by the students of
Middleschool Bruges



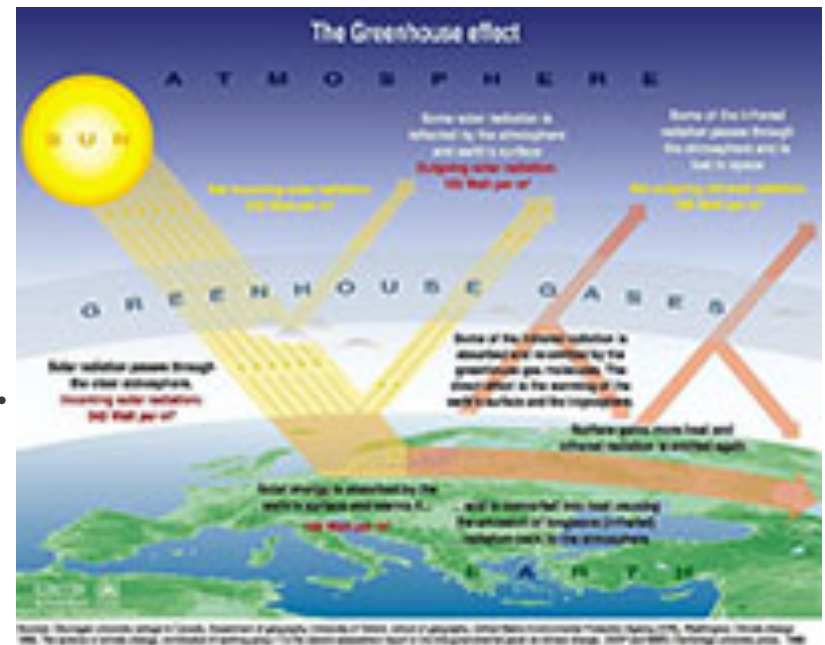
Nature

Natural
Process

Cause :

- Natural process:

The sun radiates light through the atmosphere. The earth absorbs part of it and changes it into warmth. Some of it remains in the atmosphere. Therefore the earth is warming up.





Households

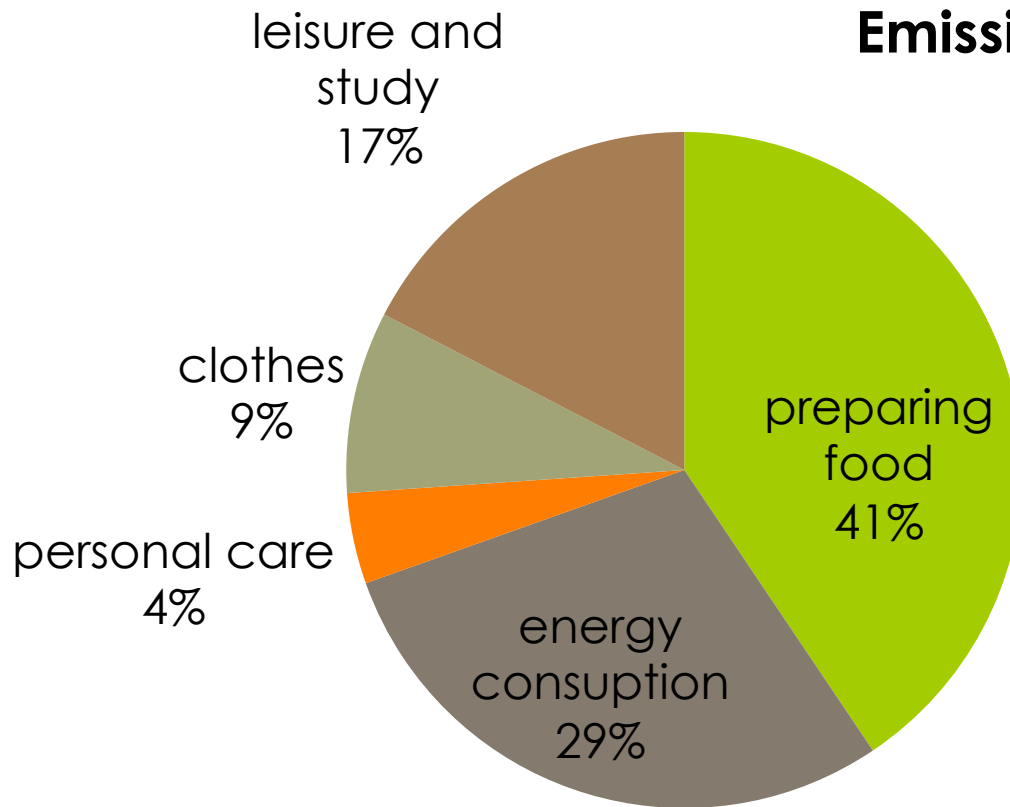
Causes

Households

- The climate is changing because the Earth's temperature rises. This is because more and more greenhouse gases such as CO₂ are in the air. Scientists agree that mankind is largely responsible for global warming.

CO₂ emissions

Emissions per year



Industry

Causes



Causes

- Factories produce now 40% more CO₂ than a few centuries ago because they burn fossil fuels
- Forests are cut down for the use in the factories or for space.
- CO₂ is the greenhouse gas that man produces the most and causes 63% of global warming caused by humans.



Traffic

Causes

Cause :

The use of oil and gas in the cars causes carbon dioxide emission, that is an important reason of the atmospheric pollution.



Agriculture

Causes

Agriculture

- Farmers also produces greenhouse gases :
 - Through breeding cattle (digestion)
 - Through production of manure
 - By processing the agricultural goods

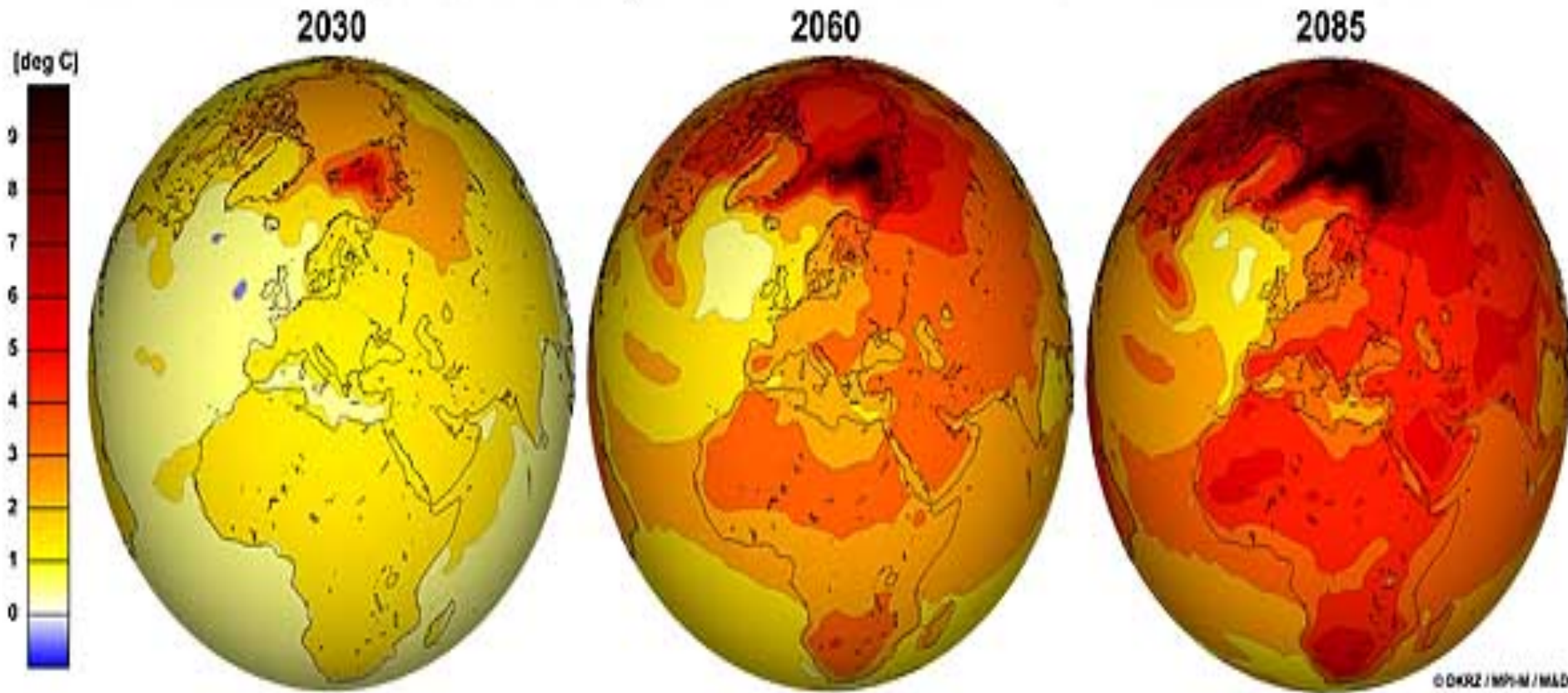
Consequences



Effects

- The greenhouse effect is caused by greenhouse gases in our atmosphere. The gases create a sort of blanket around our earth, which ensures that the heat we receive from the sun remains on the earth, warming the earth.
- Trees help arranging the absorbance of CO₂ from the atmosphere. So if forest are cut down, the effect will decrease, causing the greenhouse effect is enhanced.

Simulated Temperature Change with ECHAM5 / MPI-OM: IPCC Scenario A1B

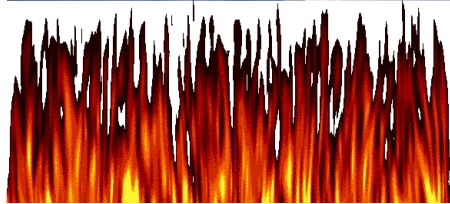
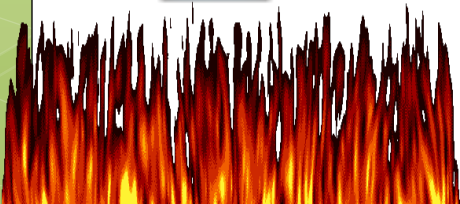


The average temperature on Earth is currently 0.85°C higher than at the end of the 19th century. And the last three decades were all three warmer than all previous decades since the beginning of the measurements in 1850.



The result of global warming is that the Arctic is melting and thereby countries flooding on the coast that are.

Result



Other results

- Glacier retreat
- Changes in the timing of seasonal events
- Changes in agricultural productivity (drought, ...) → food production?
- Etc.