

Week 3: What is the impact of the enhanced Greenhouse Effect?

We can see the impact of climate change in many ways. Here are a few of them:

1. **Rising Temperatures:** Global average temperatures are increasing, leading to more frequent and severe heatwaves.
2. **Melting Ice and Rising Sea Levels:** Warmer temperatures cause polar ice caps and glaciers to melt, contributing to rising sea levels. This threatens coastal cities and communities with flooding.
3. **Extreme Weather Events:** Climate change is linked to an increase in the frequency and intensity of hurricanes, droughts, floods, and wildfires.



We know ourselves that in the UK we are experiencing hotter summers, warmer winters and rising sea levels, which result in flooding, water scarcity and coastal erosion.

This devastation is also happening globally.

Greenland is losing 5 times as much ice today as it was 25 years ago. Antarctica is losing 3 times as much ice today as it was 25 years ago. As a result, the sea level has risen about 20cm in the last 100 years.

In America, Louisiana is on the front line of the climate crisis. It's losing the size of a football pitch every 45 minutes!



A huge amount of a greenhouse gas called methane is stored in the permafrost in the Arctic. As this melts, the methane will start to bubble up and escape into the atmosphere.



It is a man-made disaster on a global scale.

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