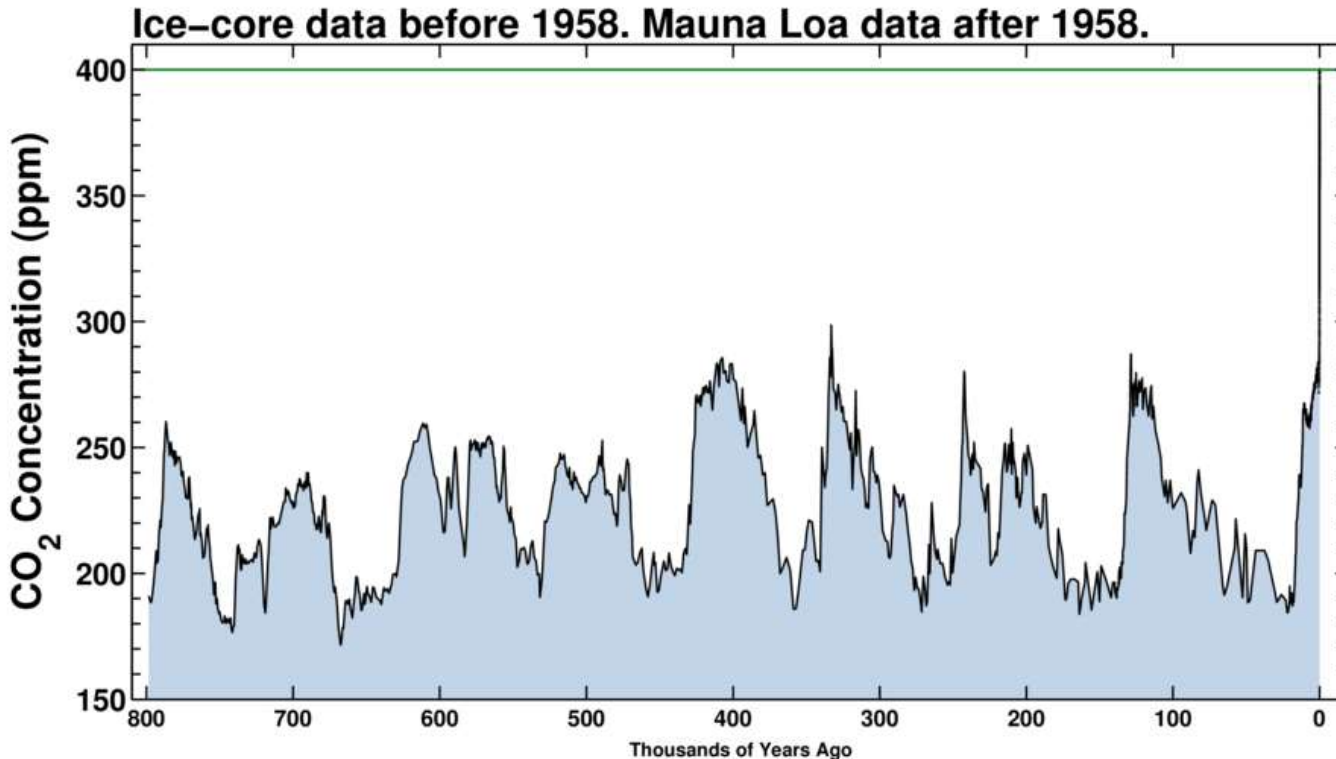


Welsh Government Future Trends Report 2017– Climate Change Theme data slides

The following slides provide background data and graphs used for the Climate Change theme in the Future Trends Report 2017

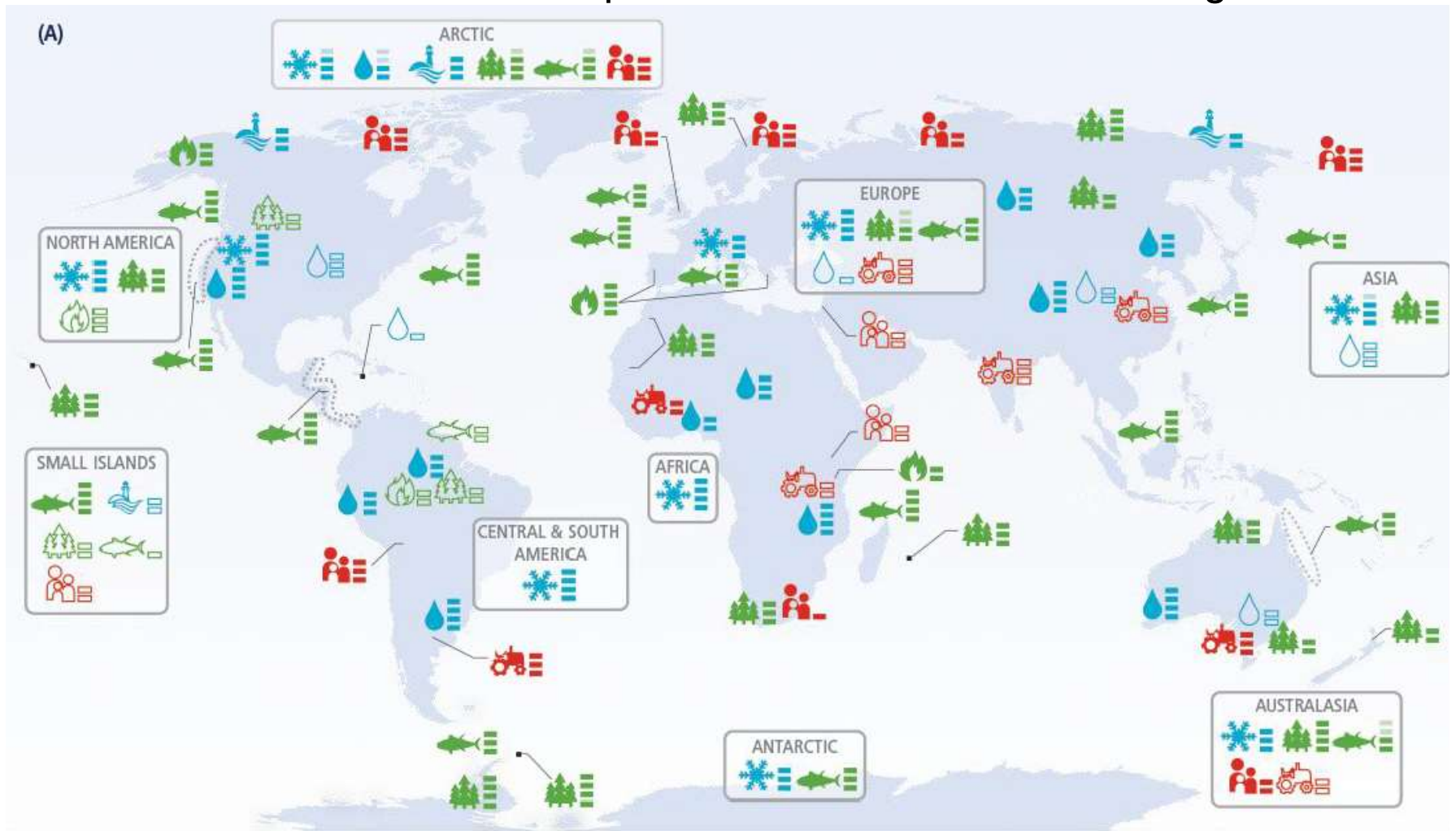
Data from the Intergovernmental Panel on Climate Change (IPCC) - Atmospheric CO₂ levels are unprecedented for 800,000 years.



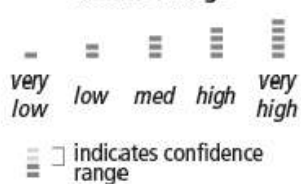
Atmospheric CO₂ concentrations have

- increased by about 40% since 1750, due to human activity
- exceed values recorded in ice cores for the last 800,000 years

IPCC Observed Impacts attributed to climate change



Confidence in attribution to climate change



Observed impacts attributed to climate change for

Physical systems



Biological systems



Human and managed systems

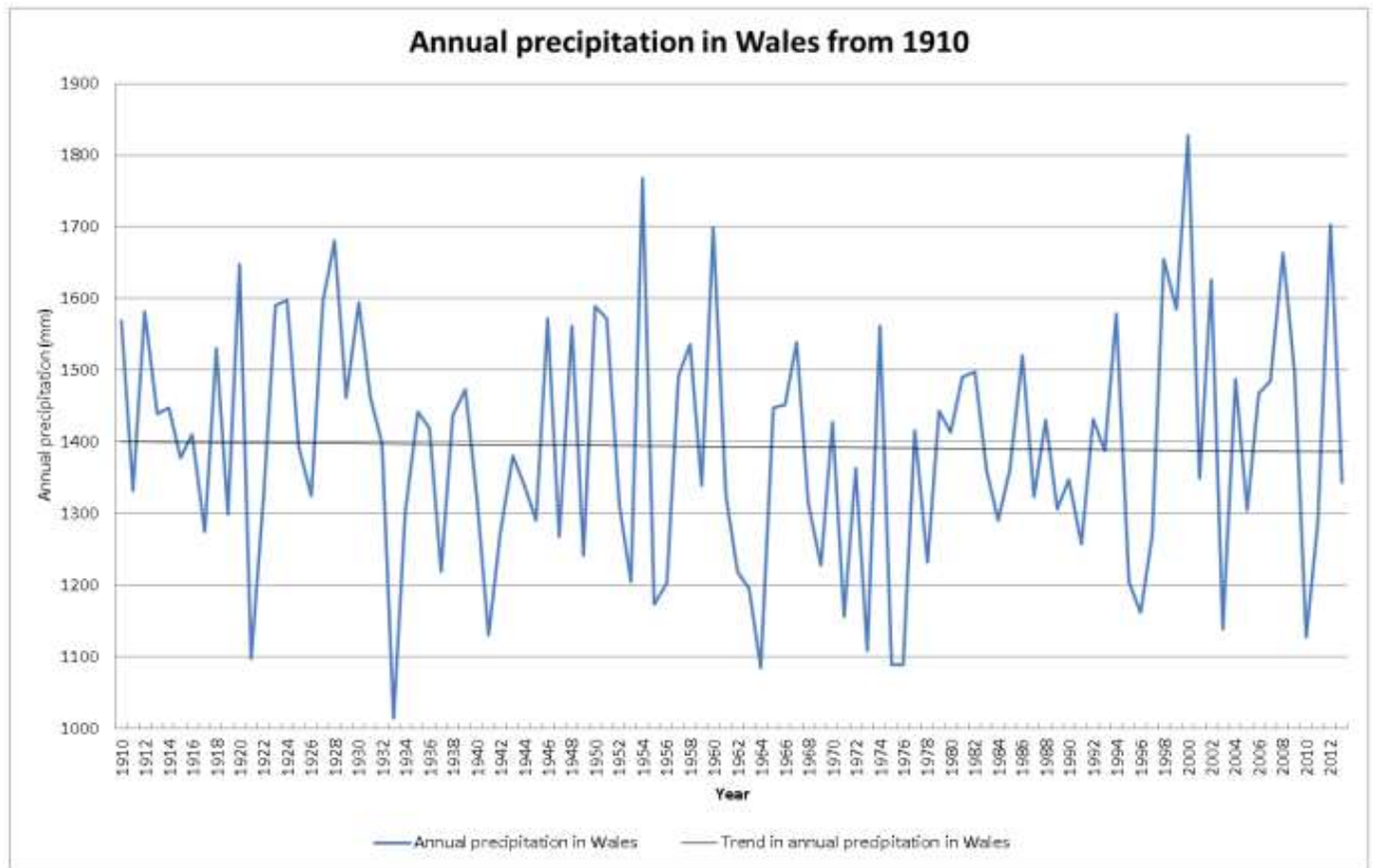


Regional-scale impacts

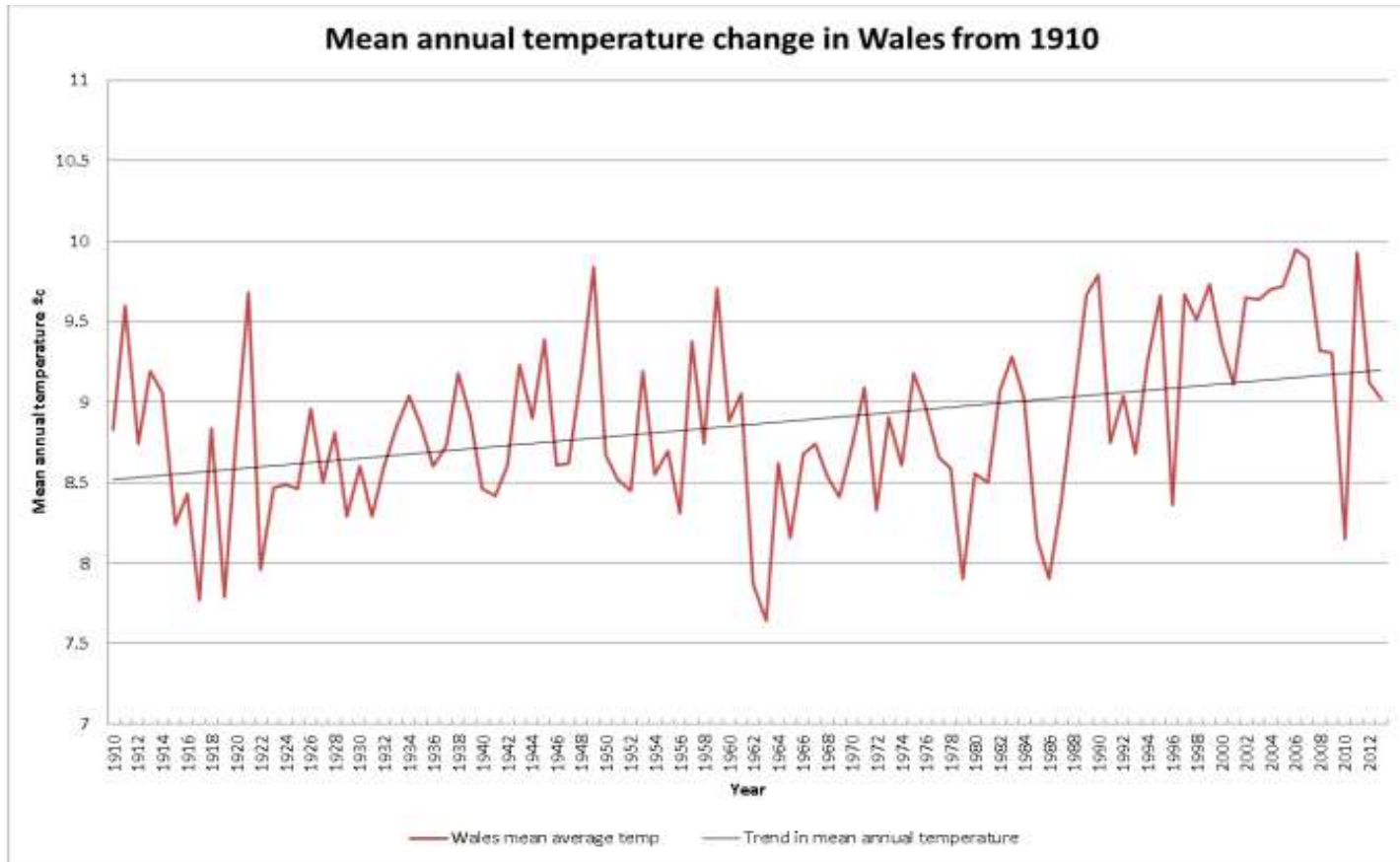
Outlined symbols = Minor contribution of climate change

Filled symbols = Major contribution of climate change

Changes in the Welsh climate



Summer precipitation has decreased and winter precipitation has increased slightly over the same period.¹



Average temperatures have increased in Wales since 1910 with the average annual temperature increasing from a level of 8.69°C (over the period 1910 to 1939) to 9.22°C over the latest 30 years (1984-2013).

What are the impacts for Wales?

Rainfall in 2050's

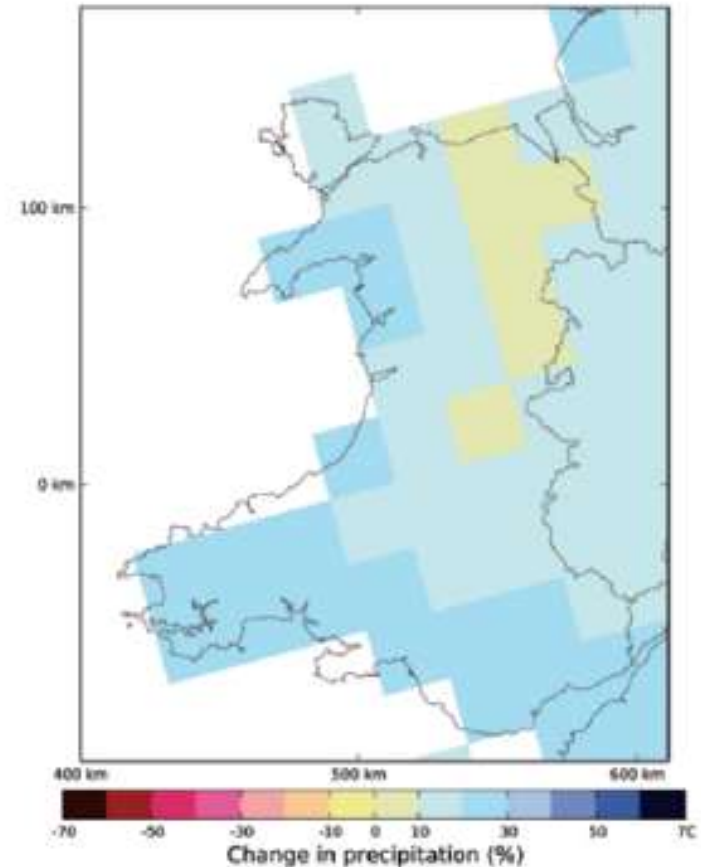
- An increase in mean winter precipitation of 14%

Very unlikely to be < 2% and > than 30%).

- A decrease in mean summer precipitation of 17%

Very unlikely to be < 36% decrease and > 6% increase).

Under the 2050s Medium Emissions scenario



Winter Rainfall by the 2080s

For more information on the Welsh Government Future Trends Report 2017, please visit the following address:

<http://gov.wales/statistics-and-research/future-trends/>

Background data slides are also available on the website for the other Themes of the Future Trends Report: Population; Health; Economy & Infrastructure; Land Use & Infrastructure; and Society & Culture.