UK Climate Projections 2009

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UK Projections are a spur to action

- Global deal at Copenhagen
- Action to achieve UK's 80% goal
- Prepare for the impacts
- Protect the economy, people and the environment
- Seize opportunities for UK and build a low carbon economy
- Getting everyone to do their bit







What are the Projections?

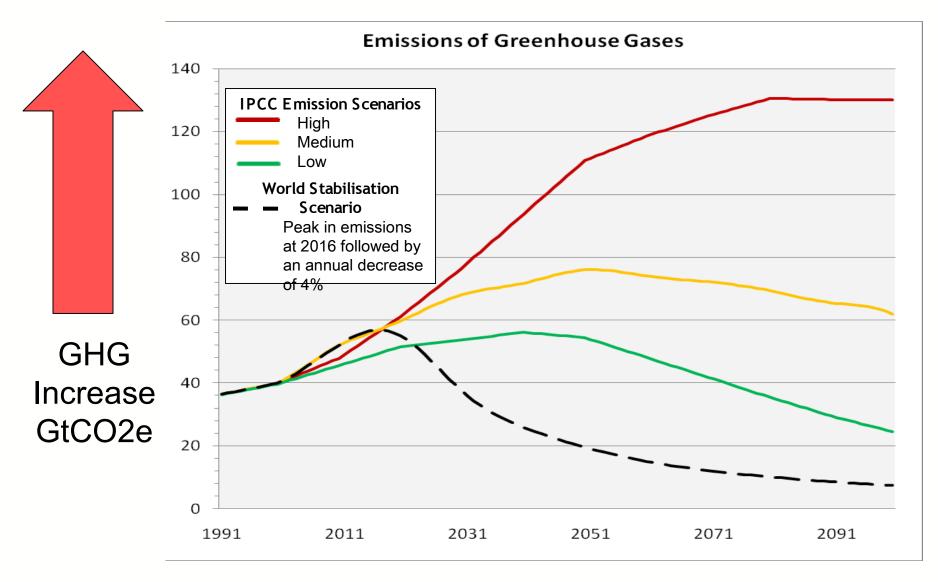
- Produced by Met Office
- A range of futures 3 emission scenarios up to 2099
- Probabilities not a weather forecast

Maps of the UK for:

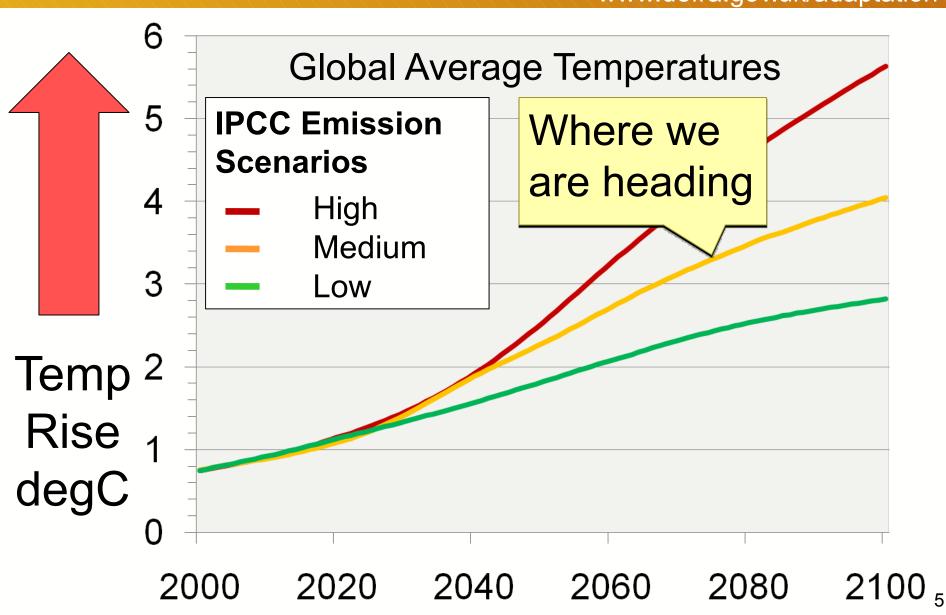
- ✓ Temperature
- ✓ Rainfall
- ✓ Sea level

on a 25 x 25 km grid

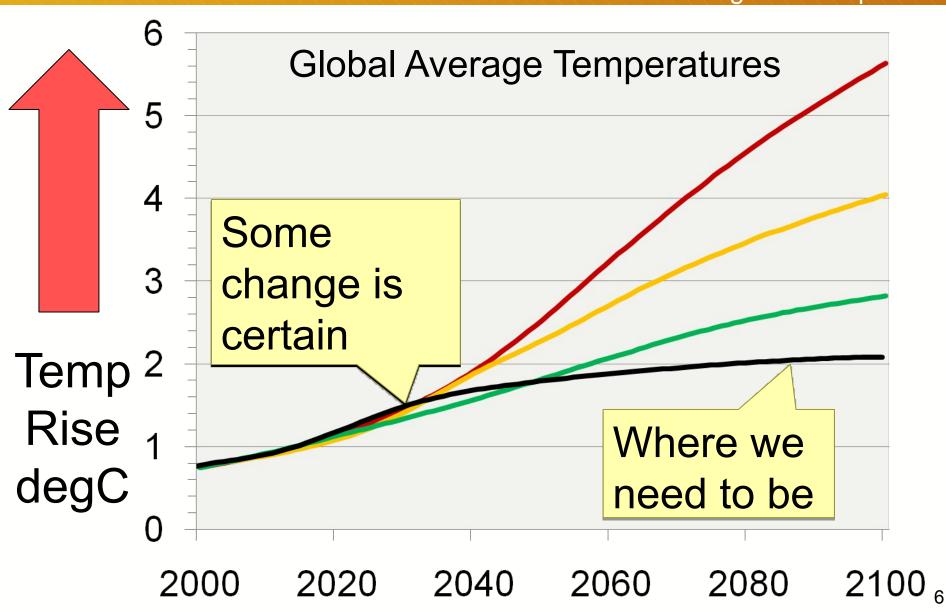
What are they based on?



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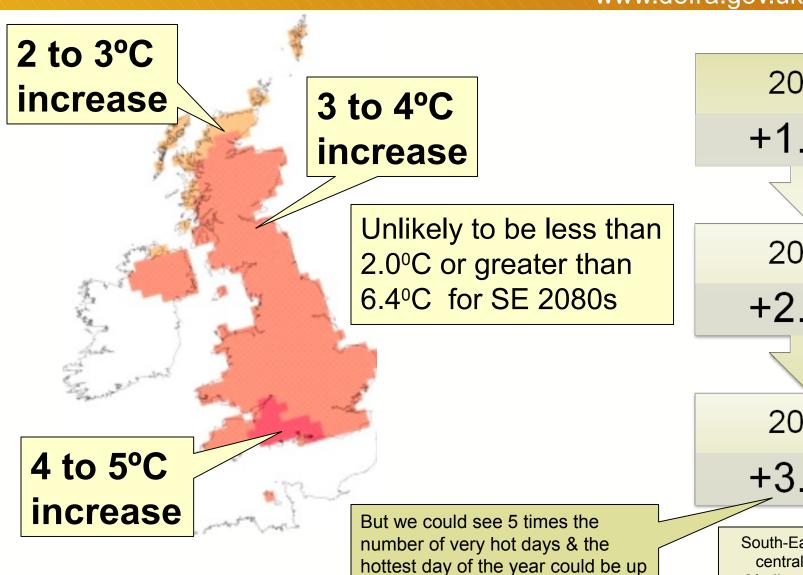


What are they based on?



Summer average temperature

www.defra.gov.uk/adaptation



to 10°C higher

2020s

+1.6°C

2040s

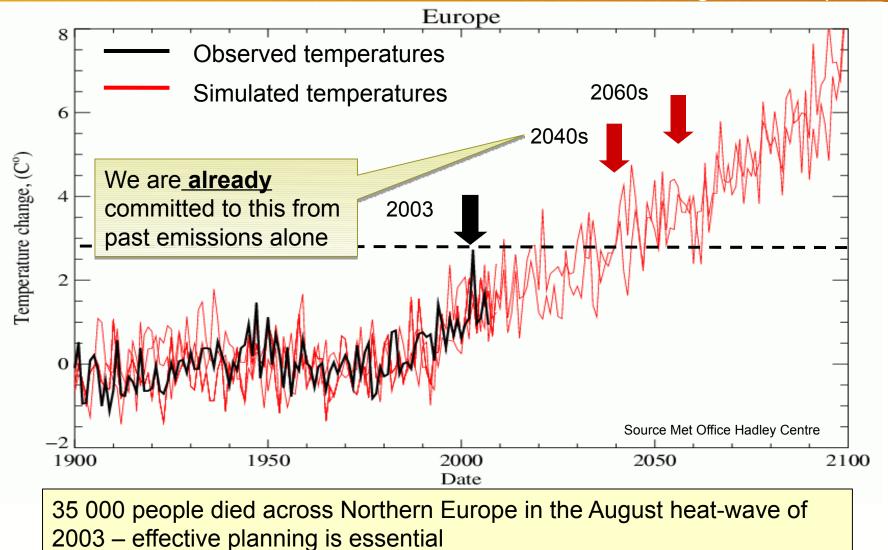
+2.3°C

2080s

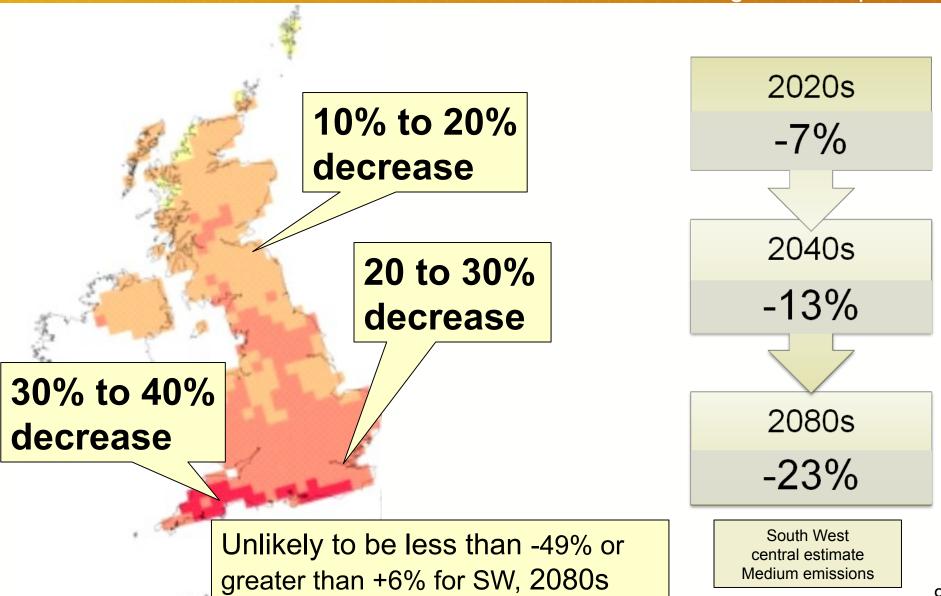
+3.9°C

South-East England central estimate Medium emissions

Summer Temperatures in context

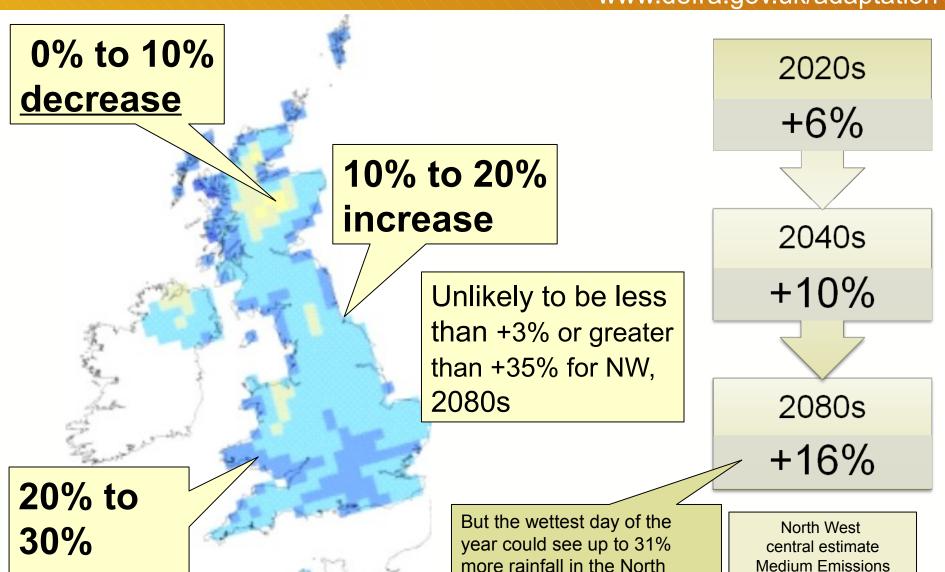


Summer rainfall



Winter rainfall

increase



Sea level rise - London

www.defra.gov.uk/adaptation

Central Estimate

2040

+ 18cm

2080

+ 36 cm

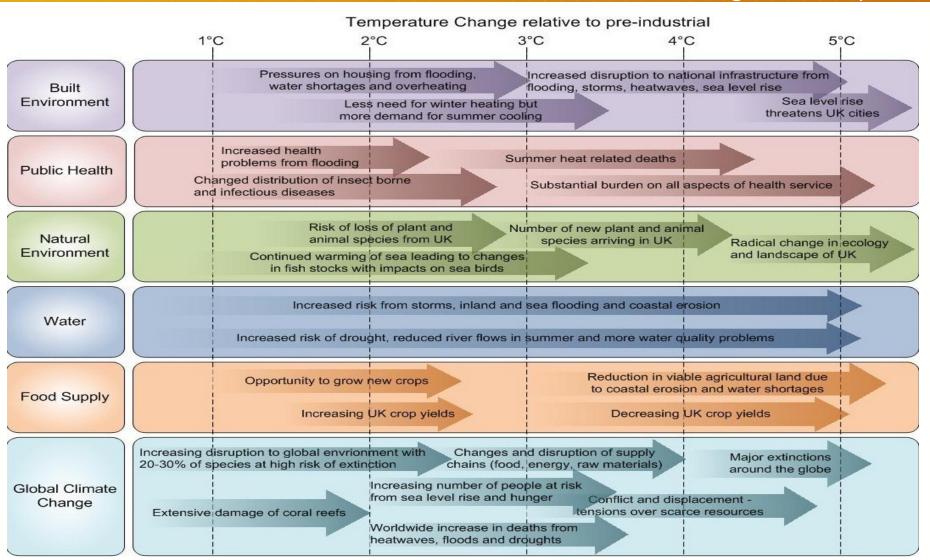
Worst Case

High++ scenario: 2100

Rises up to 1.9 meters



Our approach to dealing with impacts is about managing risk across the economy, it is not a 'green' issue



What are we doing already?









What are the opportunities?









We achieved much in 2008, with 2009 being a key year linking to long term statutory framework

www.defra.gov.uk/adaptation

2008

2009

2010

2011

Website

Climate Change Act

UKCIP

NI188 Guidance

LA support

Projections launch & Rollout

Adaptation Sub Committee

Statutory Guidance

Departmental
Adaptation
plans

Adpt Sub Committee 1st report

Decision: use of reporting power

Risk Assessment

National Programme

Adaptation Reporting Power

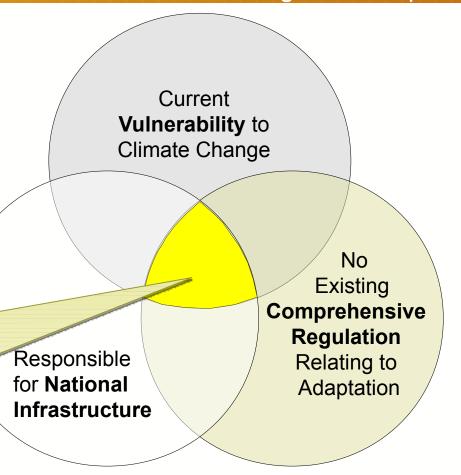
www.defra.gov.uk/adaptation

 key sectors to report on the impacts to them of climate change

Primary lever for Govt

Consultation happening now

Energy
Water
Electronic
communications
Emergencies
Health & social care
Transport
Environment



Key messages

www.defra.gov.uk/adaptation

The costs of failing to adapt will be high



Global deal at Copenhagen is critical

