



Met Office

Northern Ireland, Climate Change & Why it Matters

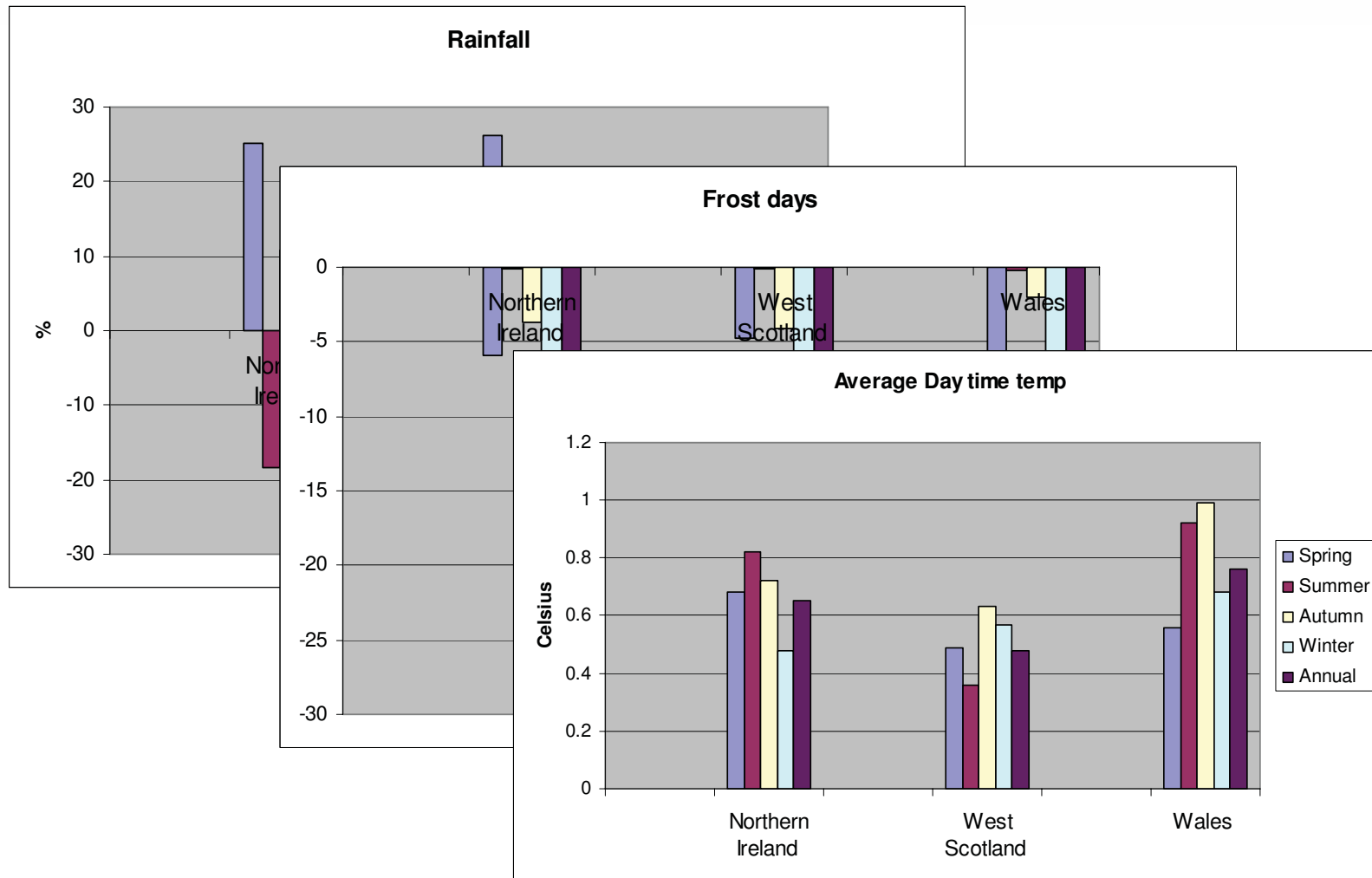
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Some History





Why does it matter?

Effect

Impact



- Summer Temperatures
- Winter Temperatures
- Winter Rainfall

- Energy Usage
- Energy Generation
- Water
- Agriculture
- Transport
- Built Heritage

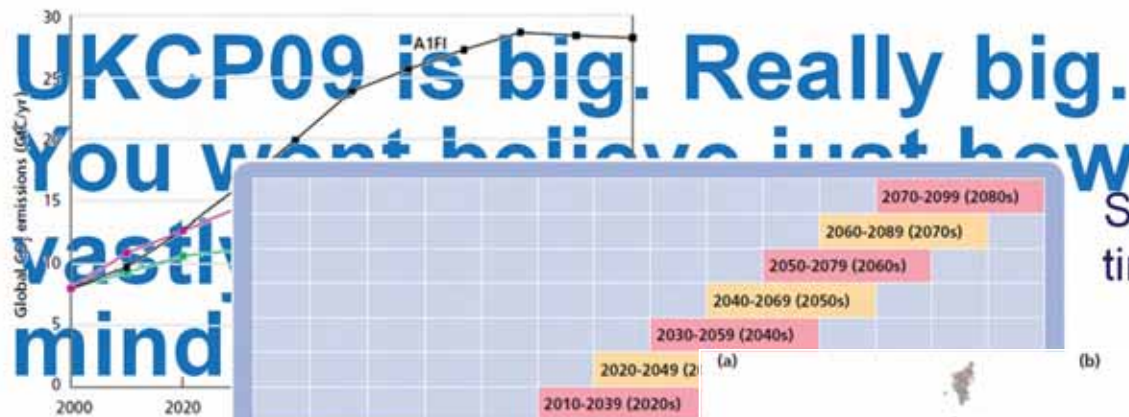


- Summer Rainfall
- Sea Level

- Flora & Fauna
- Health
- Flooding & Drought



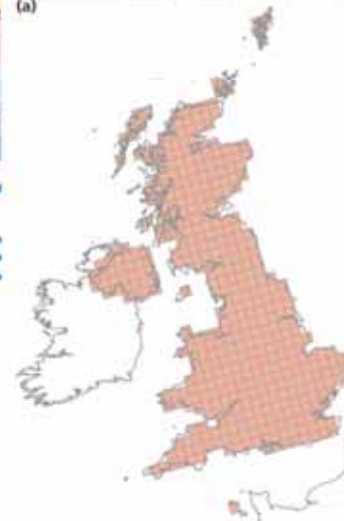
Climate Change Data UKCP09



Seven different timeframes

(with apologies to L & Hitchhiker's Guide

25km grid, 16 admin regions, 23 river-basins and 9 marine regions





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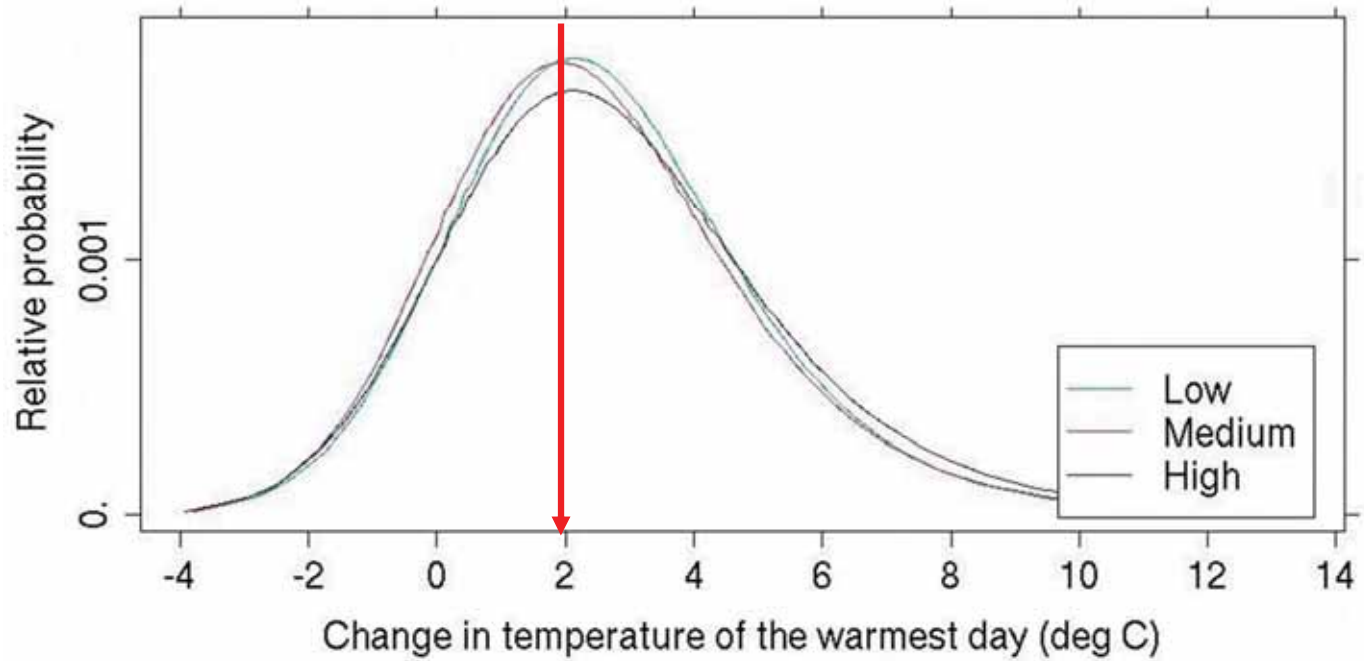




Some Output Summer Highs 2040s



Plot Details:	
Data Source: Probabilistic Land	Temporal Average: JJA
Future Climate Change: True	Spatial Average: Region
Variables: temp_dmax_t99_abs	Location: Northern Ireland
Emissions Scenario: Low, Medium, High	Probability Data Type: pdf
Time Period: 2030-2059	



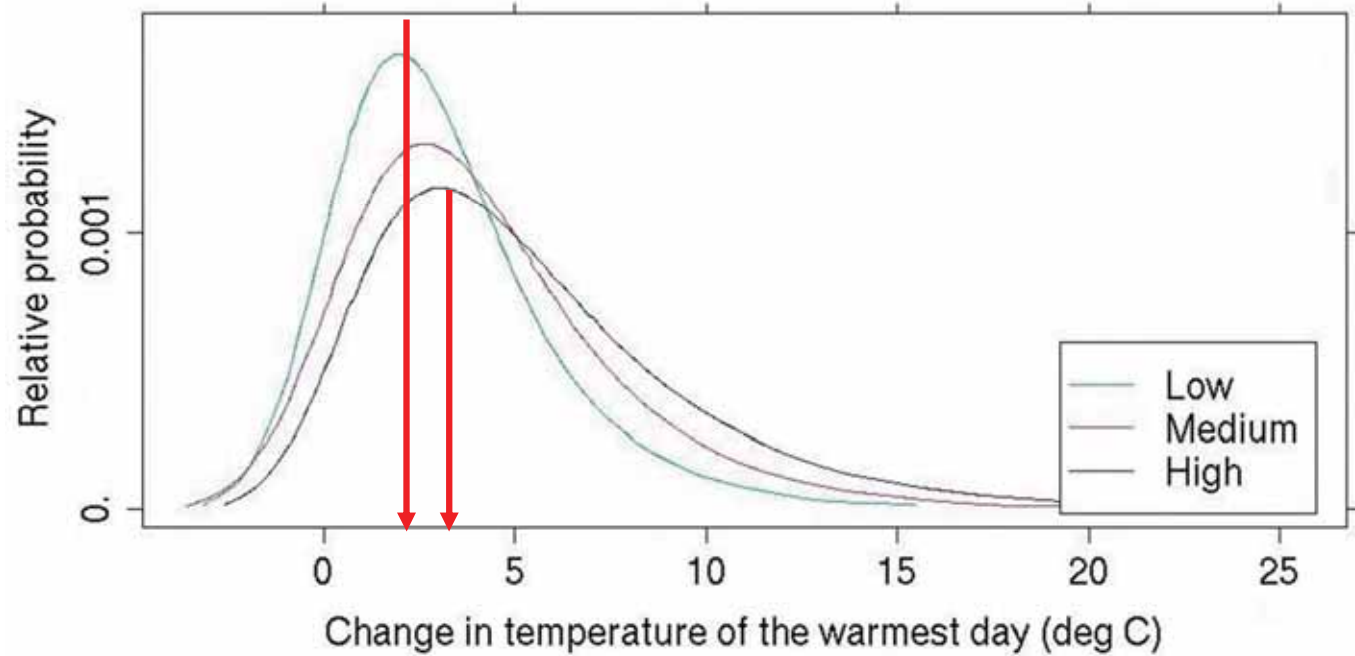


Some Output Summer Highs 2080s



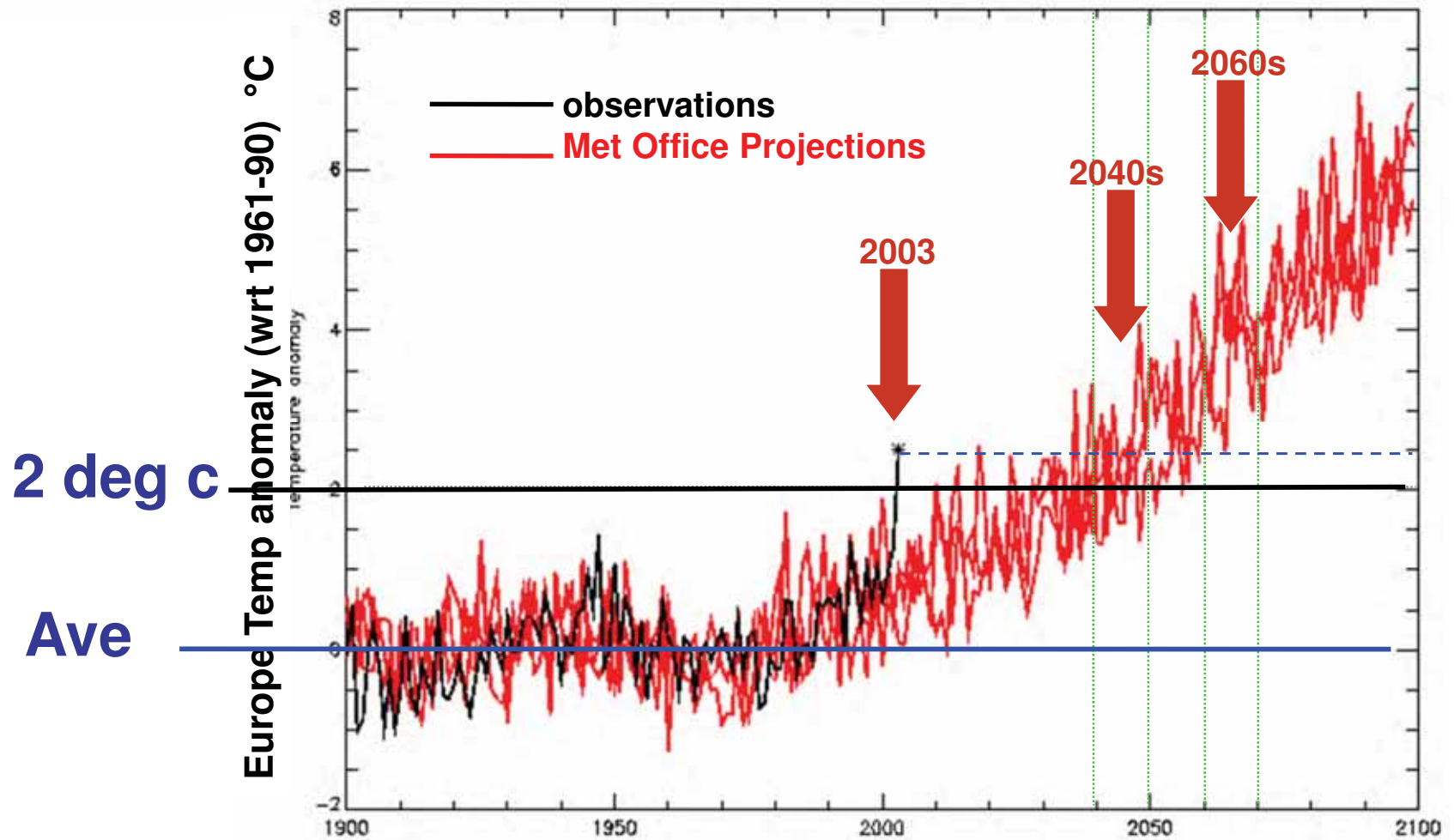
Plot Details:

Data Source: Probabilistic Land	Temporal Average: JJA
Future Climate Change: True	Spatial Average: Region
Variables: temp_dmax_t99_abs	Location: Northern Ireland
Emissions Scenario: Low, Medium, High	Probability Data Type: pdf
Time Period: 2070-2099	





IMPACT

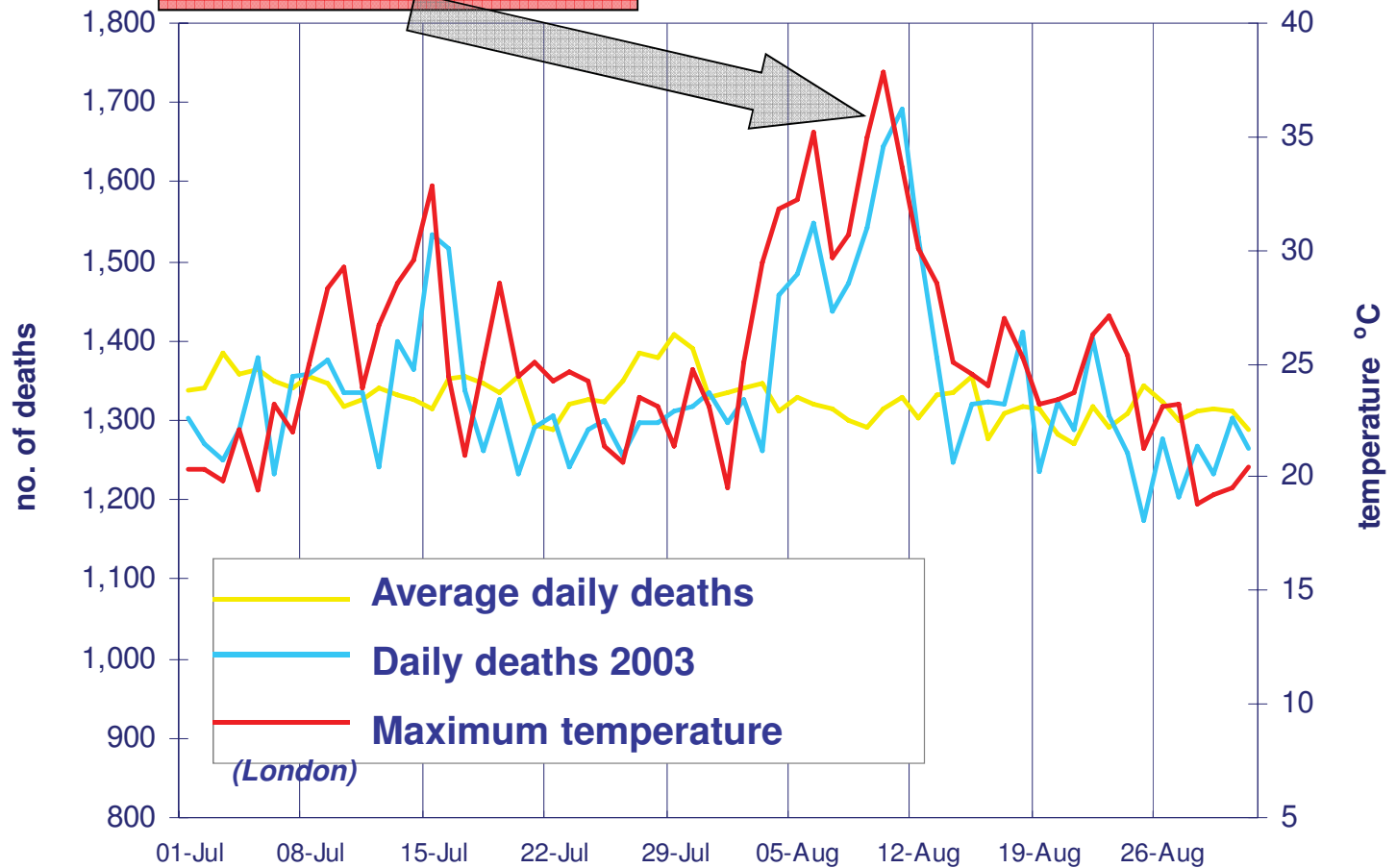




Summer 2003

Peaks in death rate coincides with peaks in temperatures

2000 extra deaths in the UK

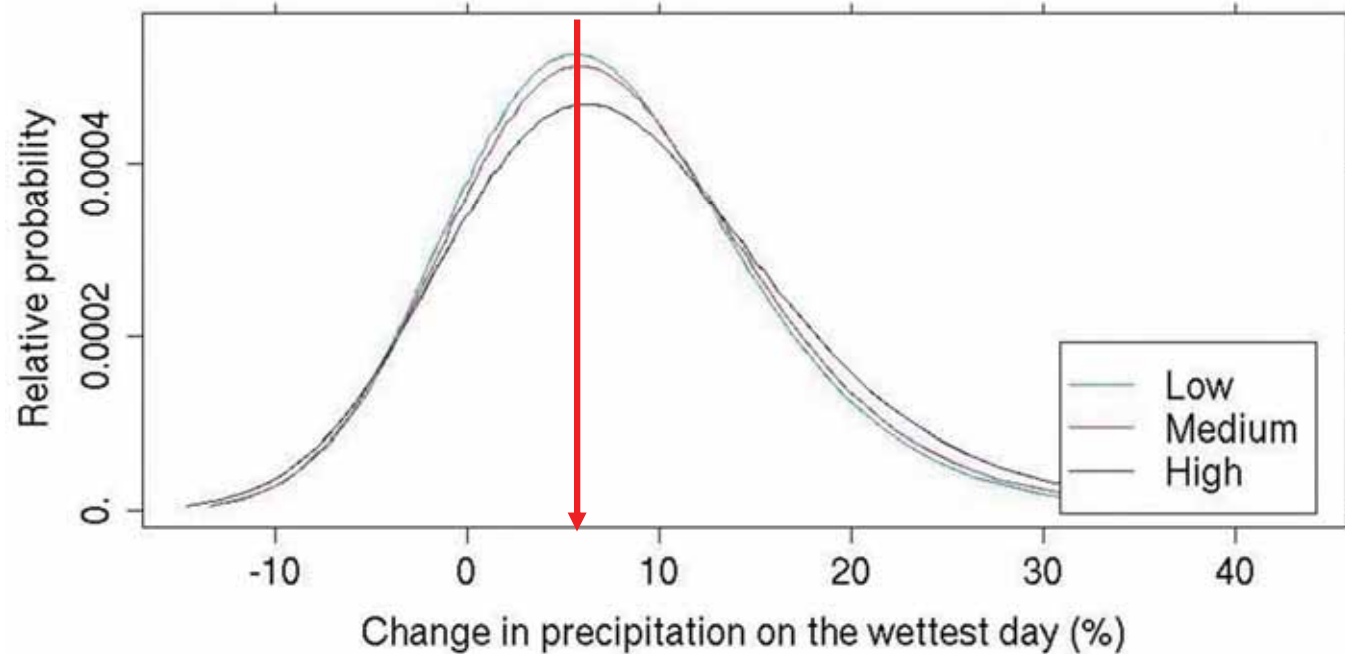




Some Output Winter Rain 2040s



Plot Details:	
Data Source: Probabilistic Land	Temporal Average: DJF
Future Climate Change: True	Spatial Average: Region
Variables: precip_dmean_199_perc	Location: Northern Ireland
Emissions Scenario: Low, Medium, High	Probability Data Type: pdf
Time Period: 2030-2059	

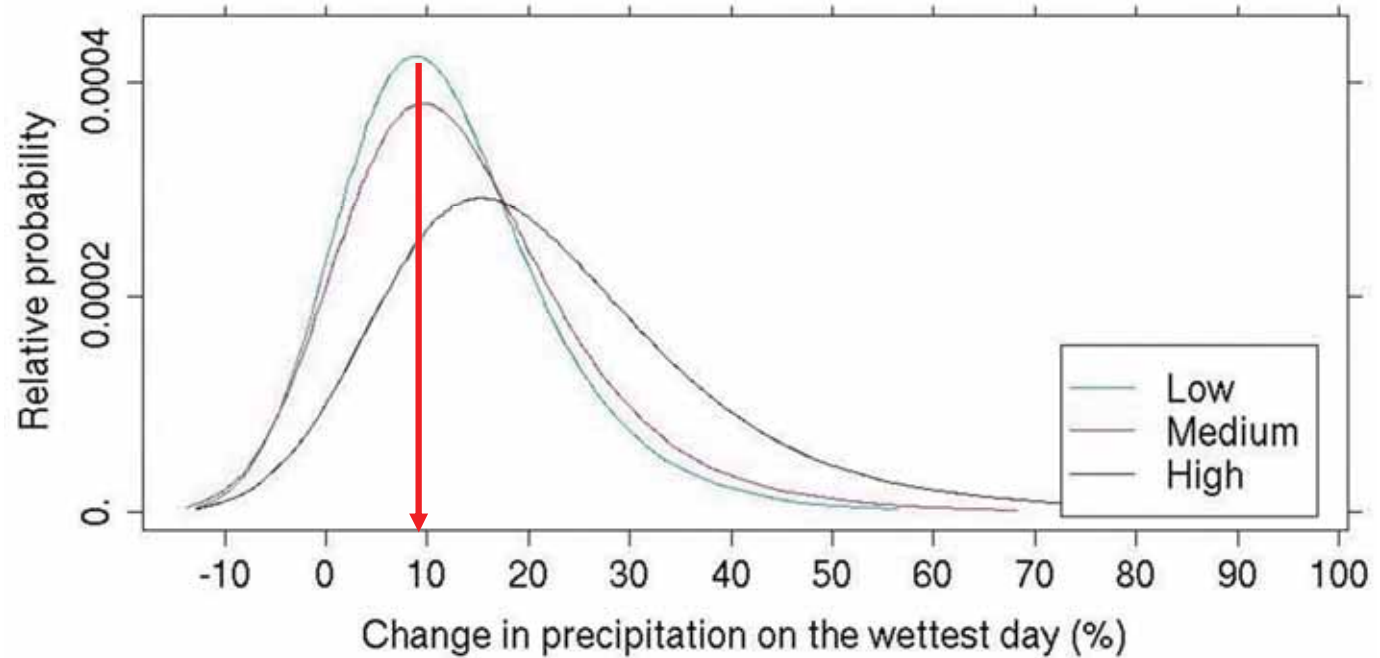




Some Output Winter Rain 2080s

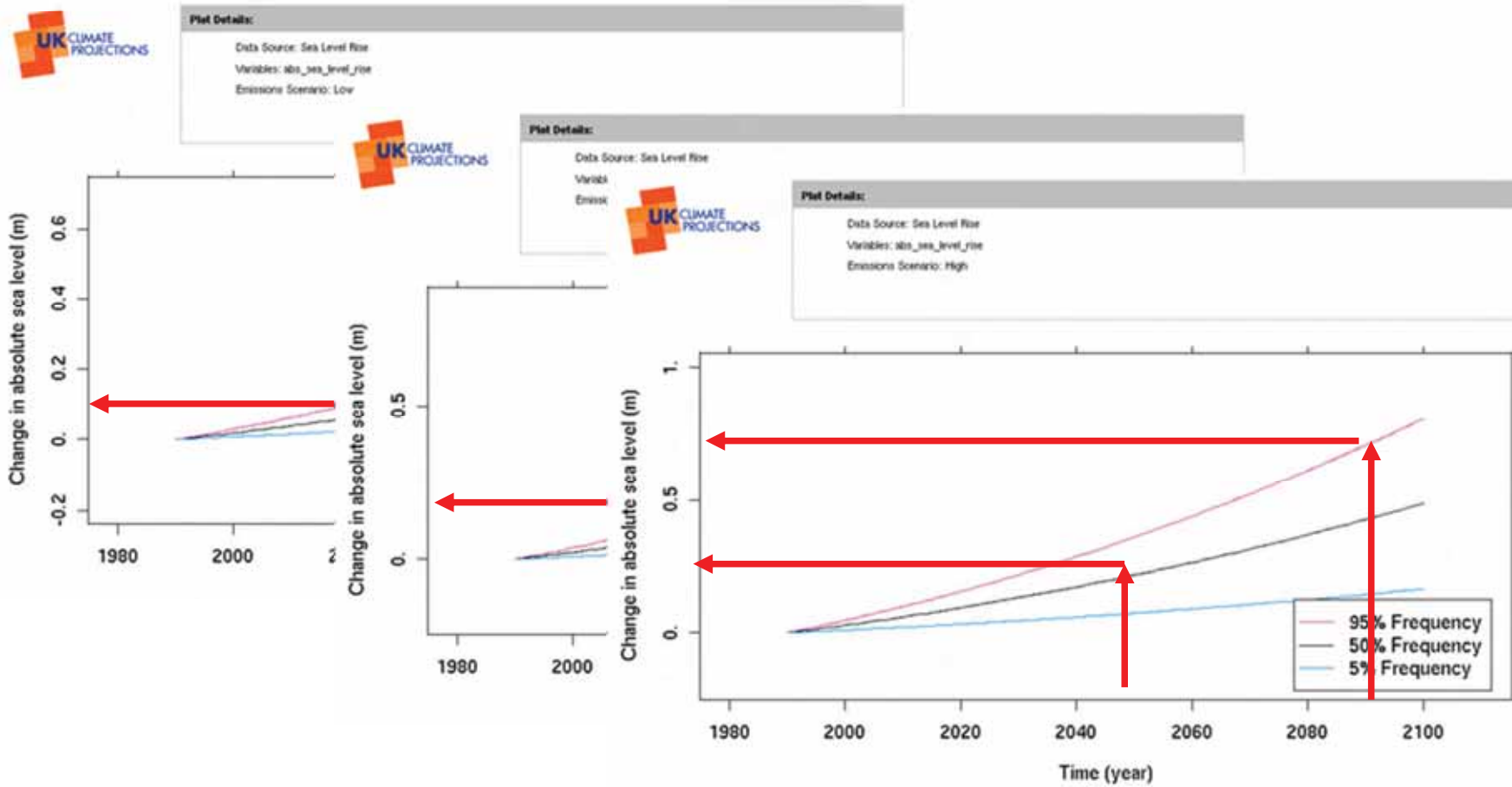


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Data Source: Probabilistic Land	Temporal Average: DJF
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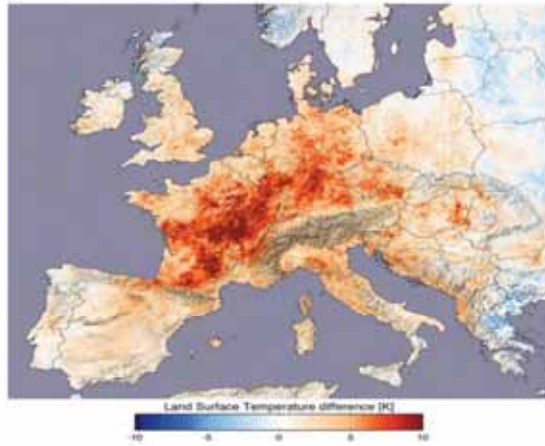
Sea Level Rise



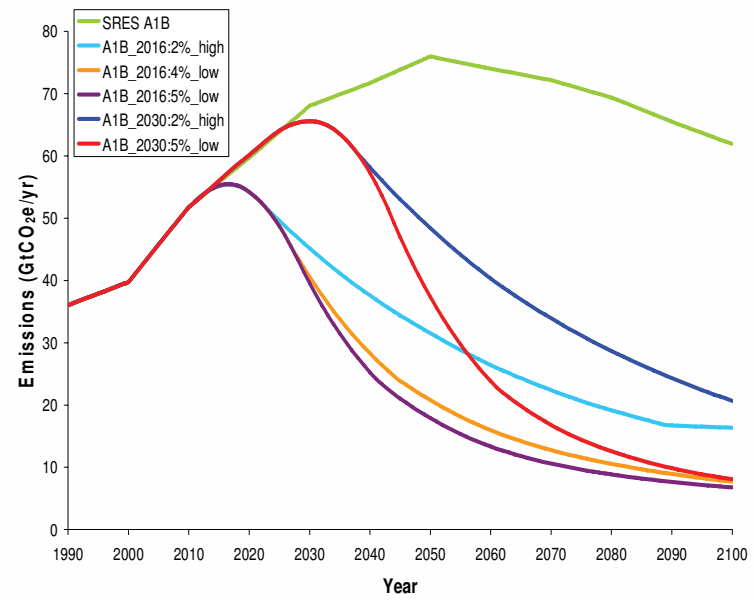


However!!

Summer 2003



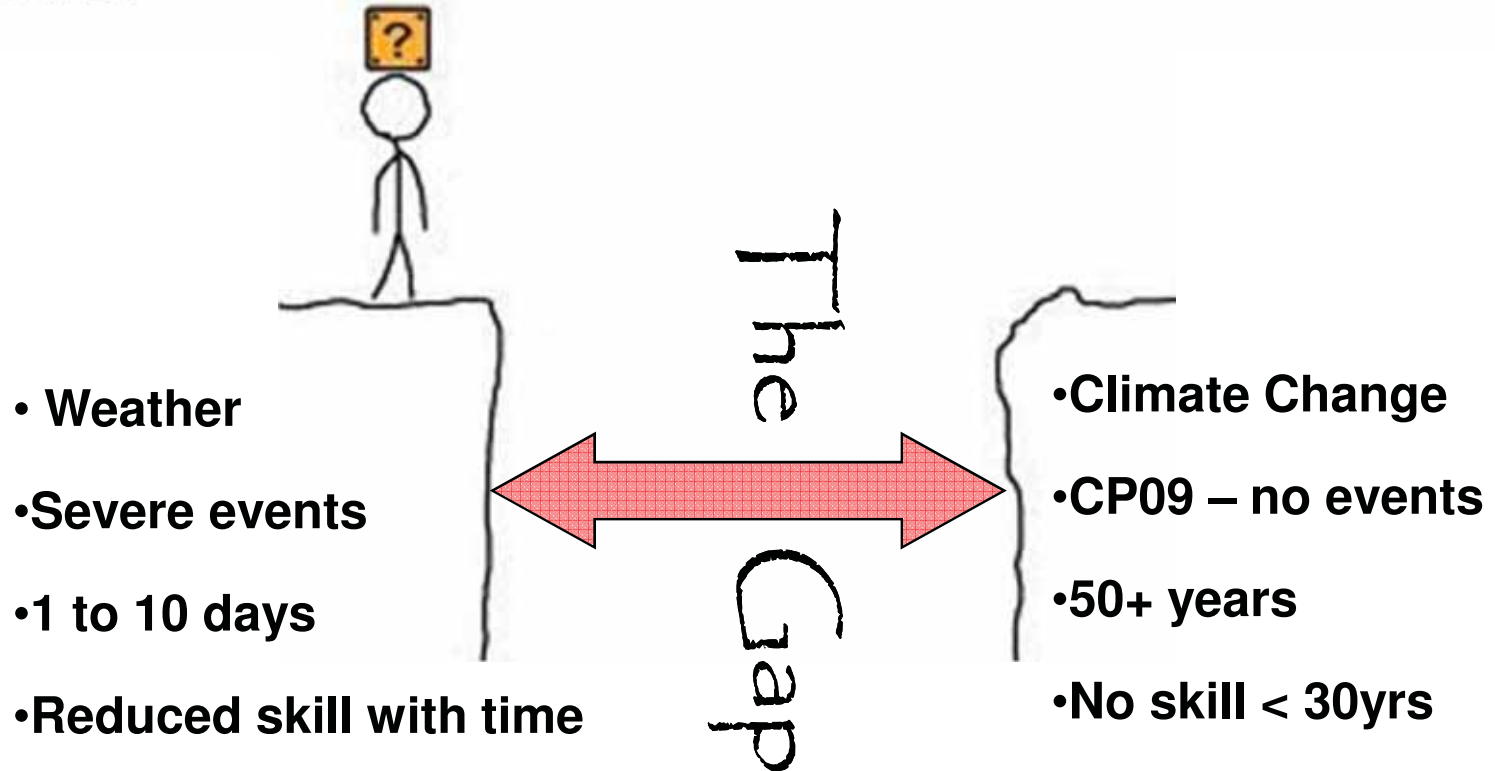
Summer 2007



AVOID



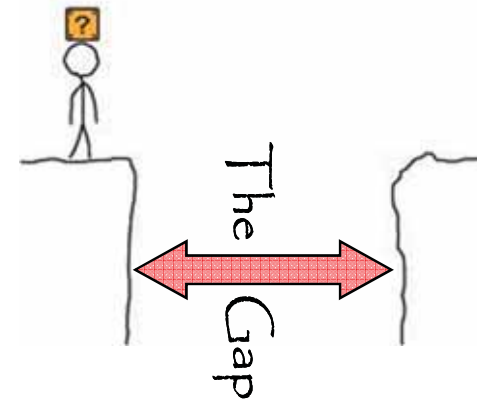
Mind The Gap





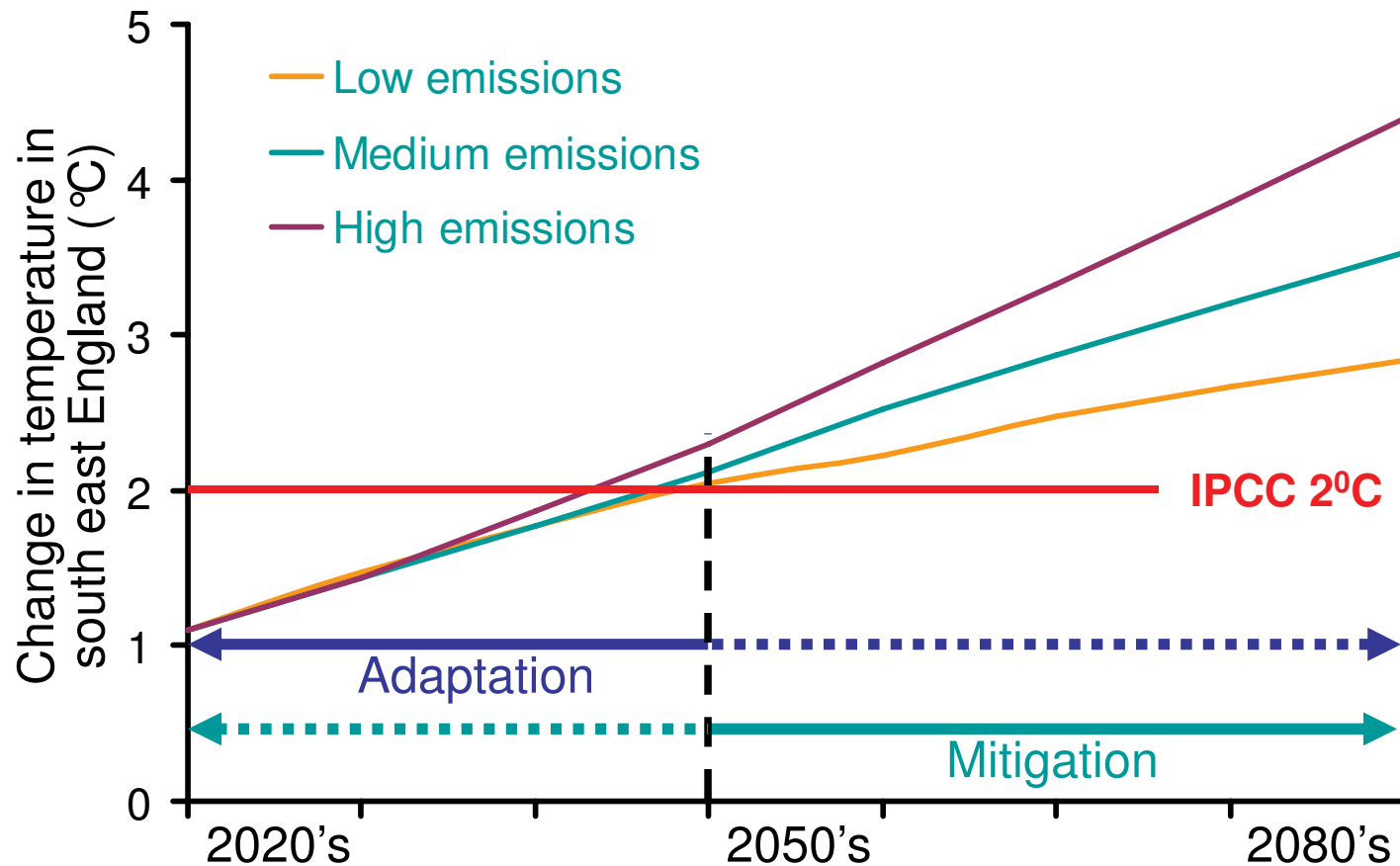
Mind the Gap

- Natural Variability
- Atlantic Multi-decadal Variations
- Arctic Sea Ice changes
- El Nino/La Nina
- Solar output





Adapting now, mitigating for the future?





The Challenge

“The past is a foreign country, they do things differently there”

(L.P. Hartley)

So Must We

http://www.metoffice.gov.uk/climatechange/guide/ukcp/business_advice/