



# Climate Change Risks, Resilience and Adaptation

19 September 2022

# Risk and adaptation

- Climate change focus has been on carbon reduction/ climate change mitigation.
  - Derbyshire Climate Change Adaptation Plan produced in 2013.
  - Now a need to revisit this and assess what climate change means to the Council.
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# Climate Change Projections

- Average temperature to increase by around 3°C by 2080.
  - More hot days (above 25°C).
  - Reduction in days each year when the temperature is below 0°C.
  - Considerable change in the seasonal distribution of this rain and rainfall extremes.
  - The number of days with little cloud cover likely to increase.
  - Sea level rises of up to 113cm around the coast.
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- Decorative wavy lines in shades of purple and blue at the bottom of the slide.

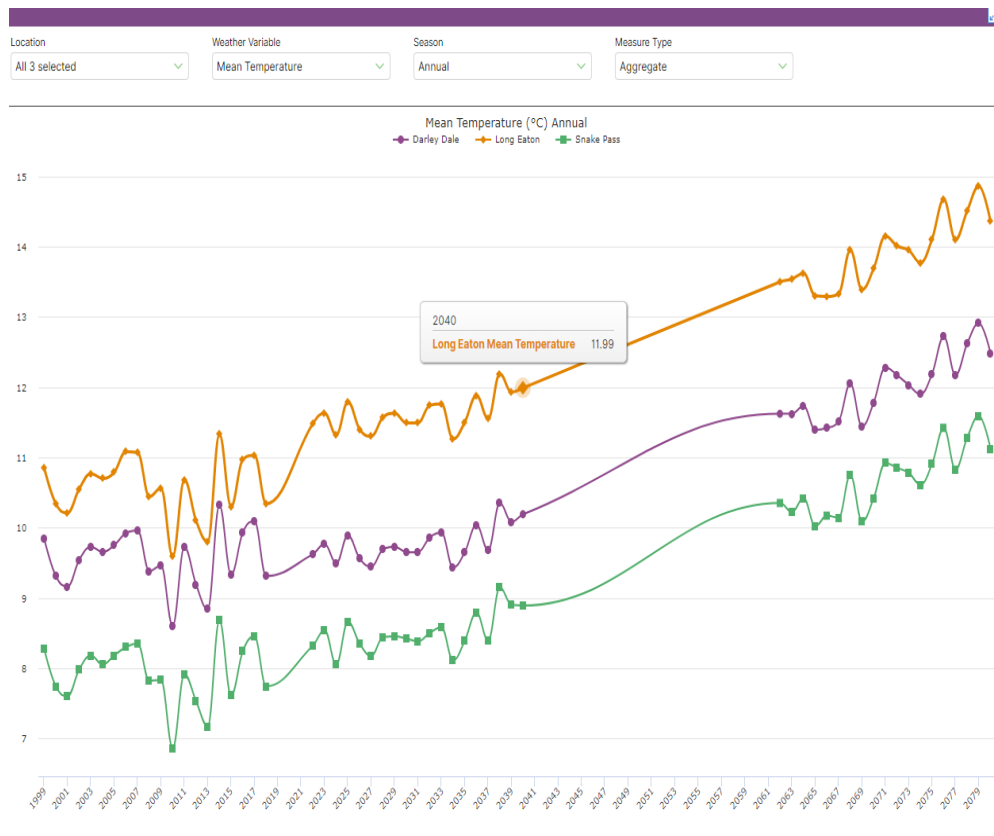
# Climate change risks for the UK

**Figure 1:** Top six areas of inter-related climate change risks for the United Kingdom

<b>Flooding and coastal change risks to communities, businesses and infrastructure (Ch3, Ch4 Ch5, Ch6)</b>	<b>MORE ACTION NEEDED</b>
<b>Risks to health, well-being and productivity from high temperatures (Ch5, Ch6)</b>	
<b>Risk of shortages in the public water supply, and for agriculture, energy generation and industry (Ch3, Ch4, Ch5, Ch6)</b>	
<b>Risks to natural capital, including terrestrial, coastal, marine and freshwater ecosystems, soils and biodiversity (Ch3)</b>	
<b>Risks to domestic and international food production and trade (Ch3, Ch6, Ch7)</b>	
<b>New and emerging pests and diseases, and invasive non-native species, affecting people, plants and animals (Ch3, Ch5, Ch7)</b>	<b>RESEARCH PRIORITY</b>
<b>NOW</b> -----> <b>RISK MAGNITUDE</b> -----> <b>FUTURE</b> <div> <div>LOW</div> <div>MEDIUM</div> <div>HIGH</div> </div>	



# Building resilience across Derbyshire



- Council services need to understand the risks and adapt to build resilience to a changing climate
- Climate projections for Derbyshire understood
- Start with corporate and departmental risk



# Project Outline

1. Engagement with Departmental Management Teams (July – August 2022).
2. Workshops held with relevant officers from each department (September – November 2022).
3. Risk analysis presented back to the Corporate Risk Management Group (December 2022).
4. Agreed climate change risks and adaptation measures incorporated into plans and registers (January – February 2023).
5. Implementation, monitoring and evaluation plans established (January – February 2023).

## Further plans

- County-wide or regional project and collaboration
- Implement relevant findings and recommendations from the Natural Capital Strategy
- Links to wider plans and policies
- Embedded within Council decision-making