

Warwickshire **Climate Change Partnership**

How the Climate in Warwickshire will
change and what the Partnership aims to do

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Climate Change Projects Officer
Warwickshire County Council



Warwickshire Climate Change Partnership

Partners



Warwickshire Climate Change Partnership

BMW Hams Hall

Carbon Trust

District / Borough Councils

Encraft

Energy West Midlands

E-on

National Grid

NISP

Practical Action

South Warks PCT

Sustainability West Midlands

Warwickshire Police

WEEAC

Climate Change Bill

26-32% reduction in CO₂ by 2020
60% reduction in CO₂ by 2050
(against 1990 levels)

Warwickshire Climate Change Strategy

15-18% reduction in CO₂ by 2010
60% reduction in CO₂ by 2050
(against 1990 levels)



Warwickshire Climate Change Partnership

The Strategy

Energy

Transport

Resource Efficiency

Adaptation



Warwickshire Climate Change Partnership

Communication & Education

Warwickshire

Climate Change Strategy

'Thinking global, acting local'



Energy – Objective:

To reduce greenhouse gas emissions through improving energy efficiency, minimising waste and increasing the use of renewable sources of energy.



Transport – Objective:

To reduce greenhouse gas emissions resulting from transport (particularly road transport) both through the transport planning function and our own activities.



Resource Efficiency – Objective:

To reduce greenhouse gas emissions through better waste management, including waste minimisation and increased recycling, more efficient use of resources and more environmentally aware procurement (including infrastructure).



Adaptation – Objective:

To introduce climate change adaptation fully in all new and reviewed policies and related activities, and minimise future risk through appropriate adaptation measures.



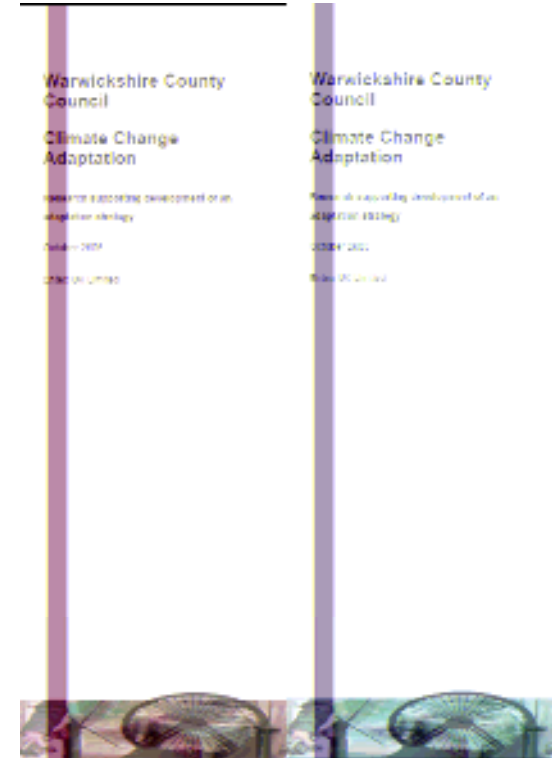
Communication & Education – Objective:

For organisations to communicate and educate staff, and as a result the wider communities of Warwickshire, on their responsibilities and actions required to both adapt to and limit the effects of climate change in our county.



Warwickshire Climate Change Partnership

Climate Change Adaptation Report



Warwickshire Climate Change Partnership

How will Warwickshire change?

extreme weather events

- will increase in intensity, duration and frequency

gradual weather changes

warmer wetter winters

hotter drier summers

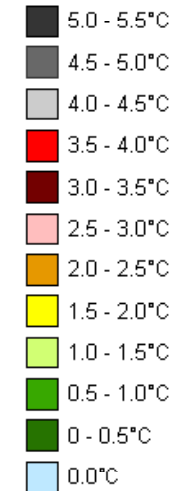
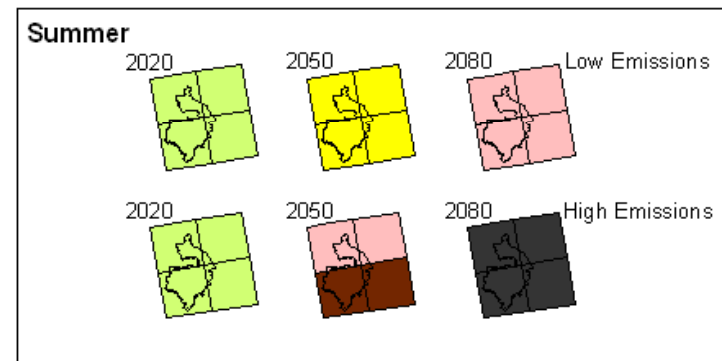
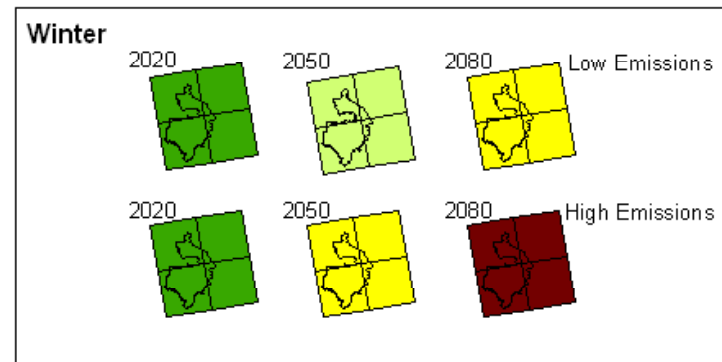
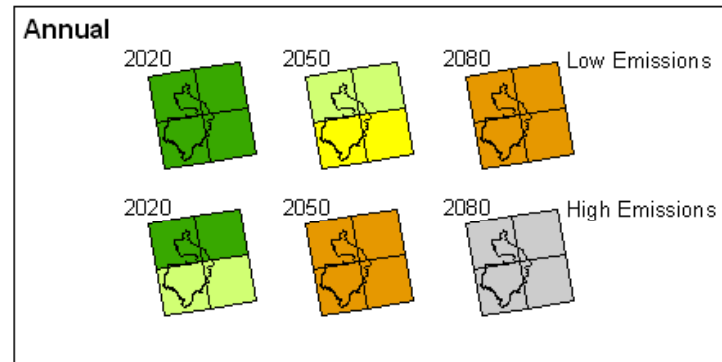
less summer cloud cover



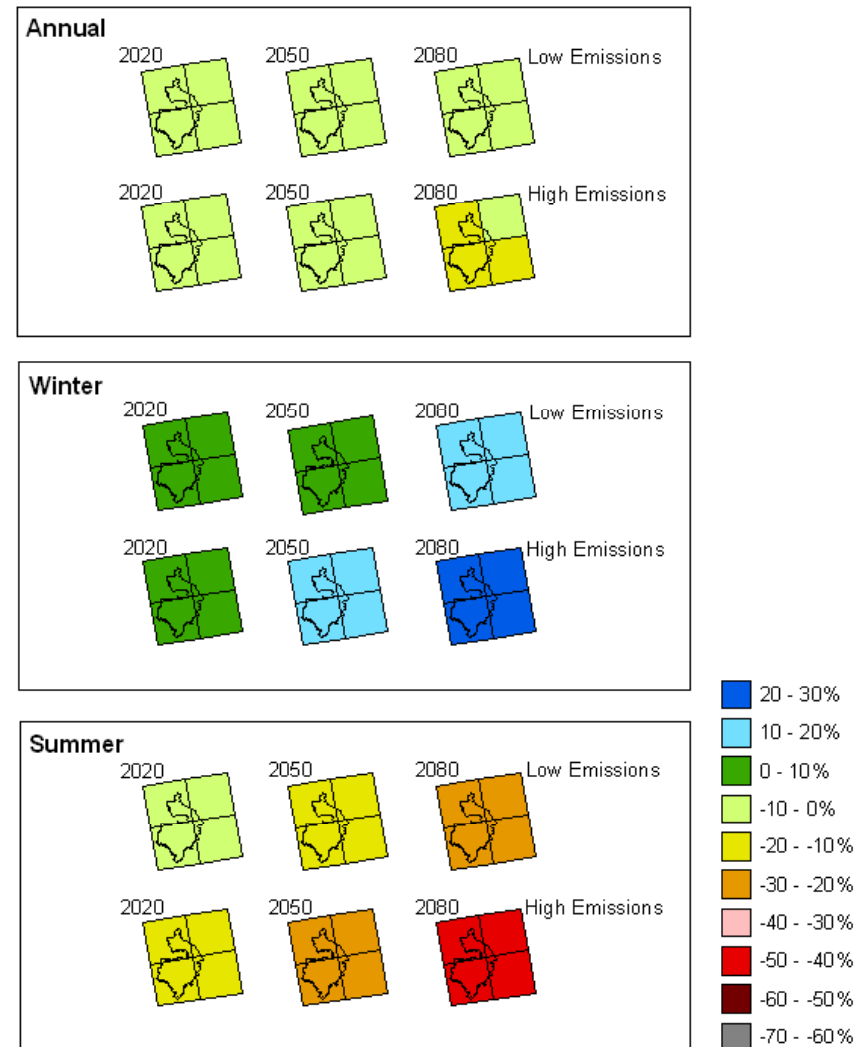


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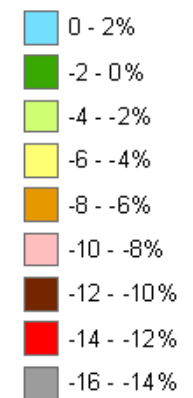
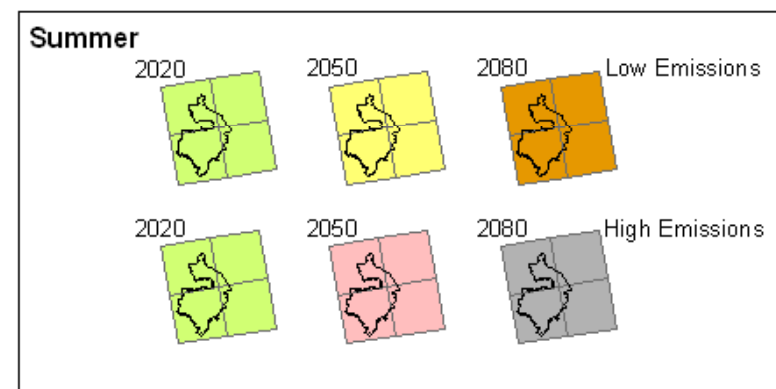
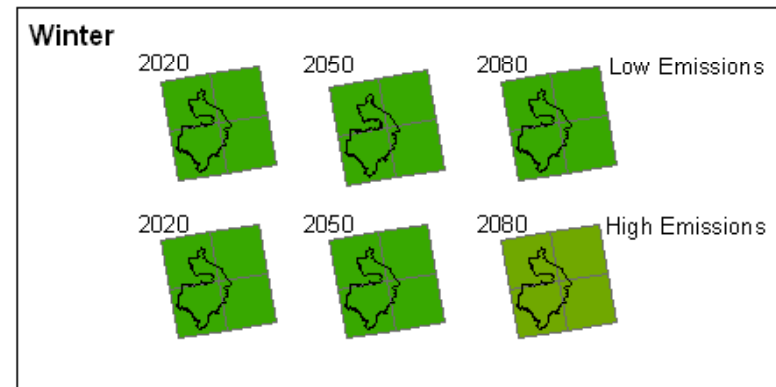
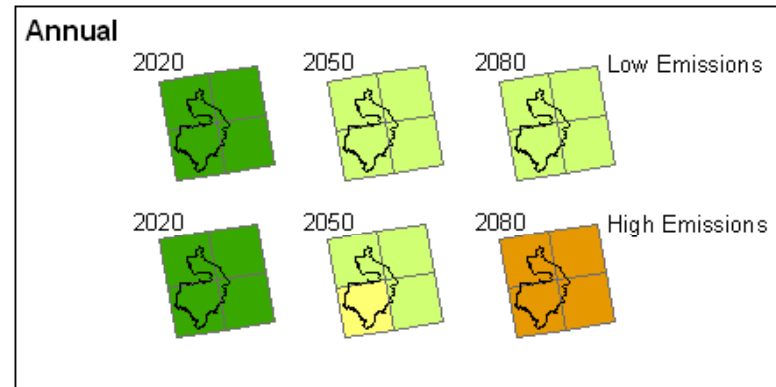
Predicted mean temperature changes



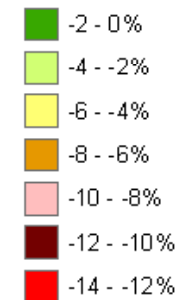
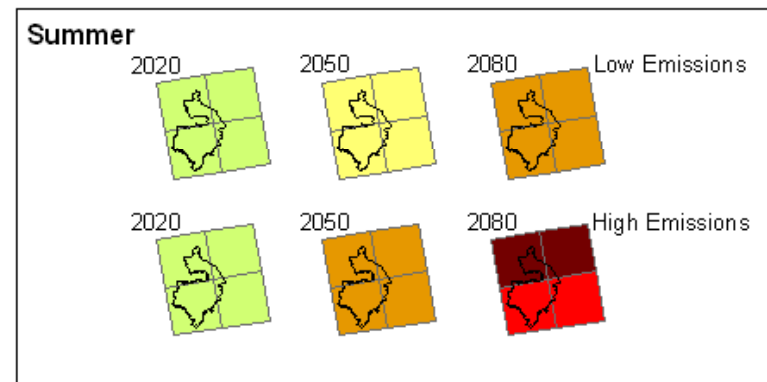
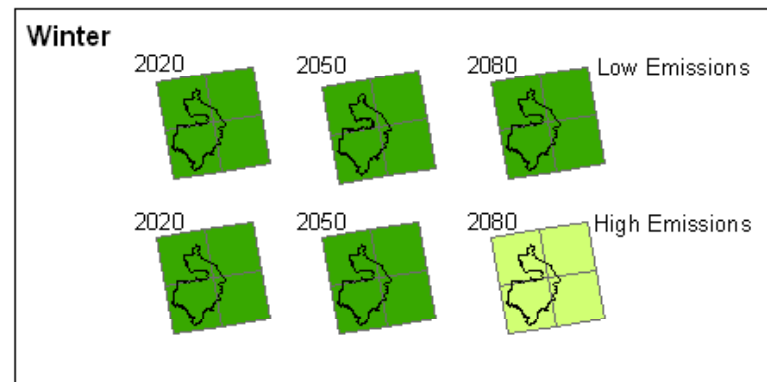
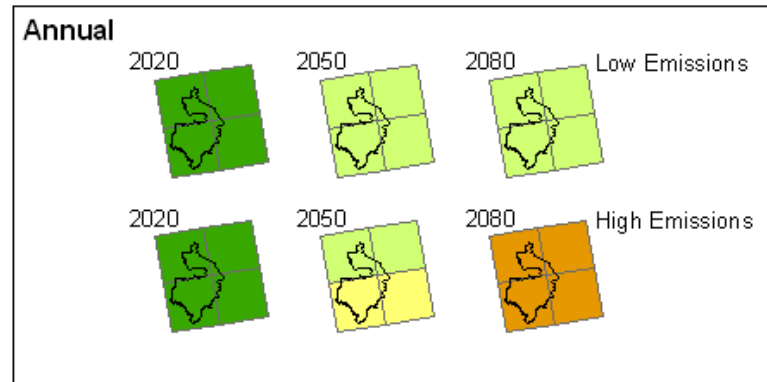
Predicted mean precipitation changes



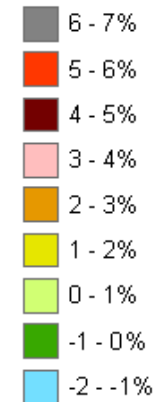
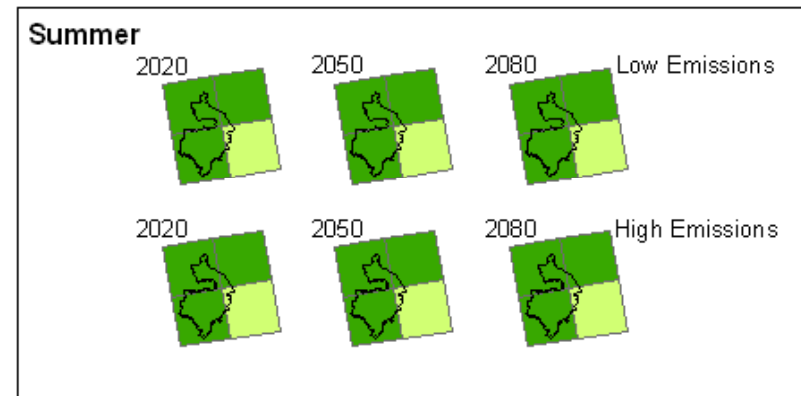
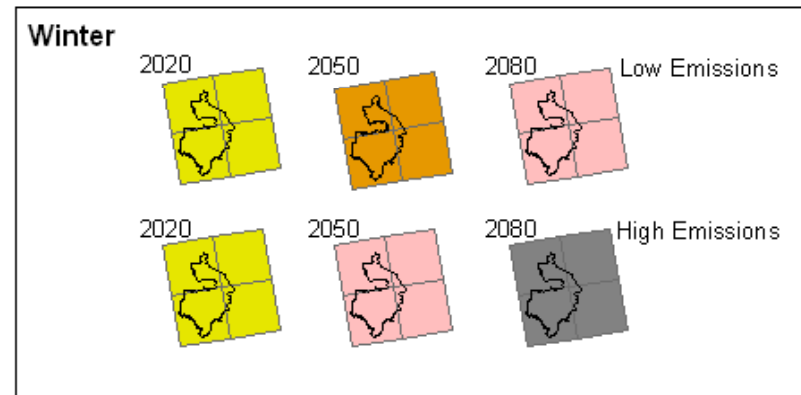
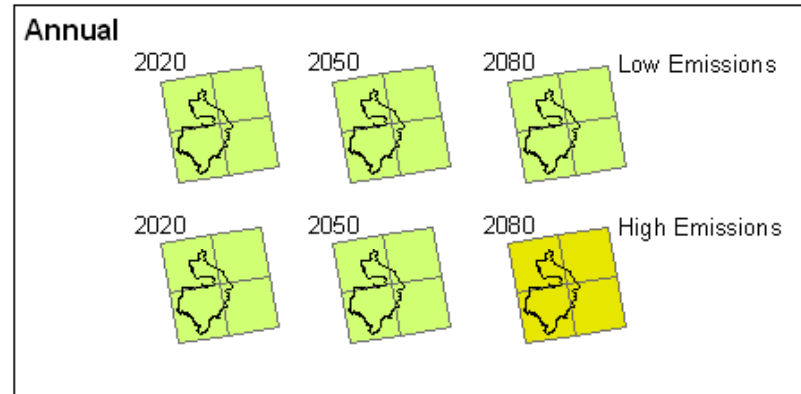
Predicted mean cloud cover changes



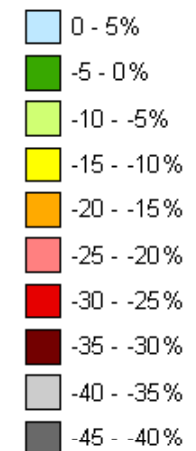
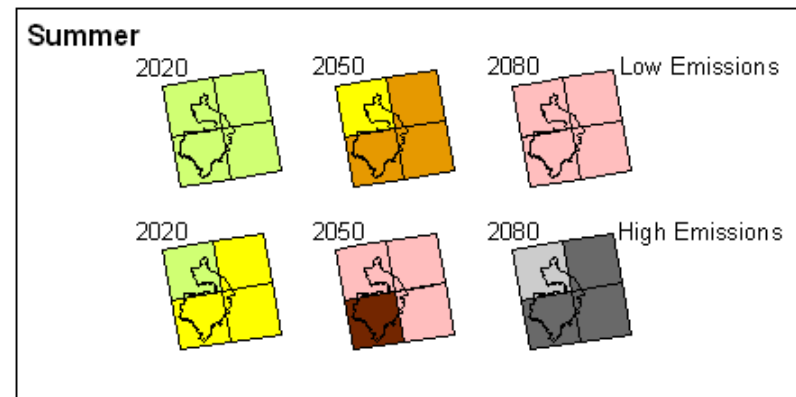
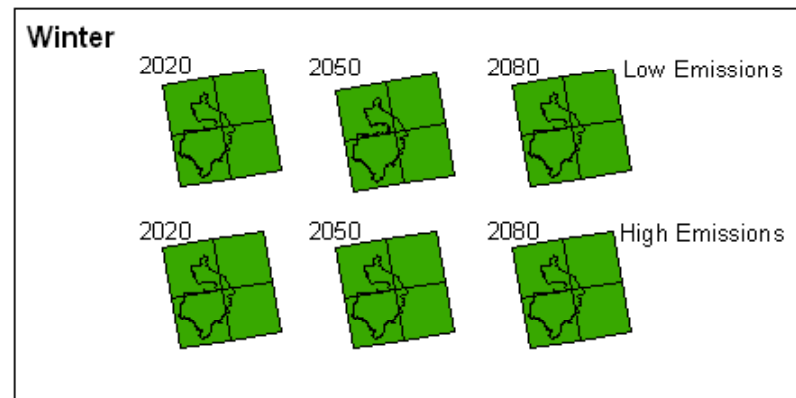
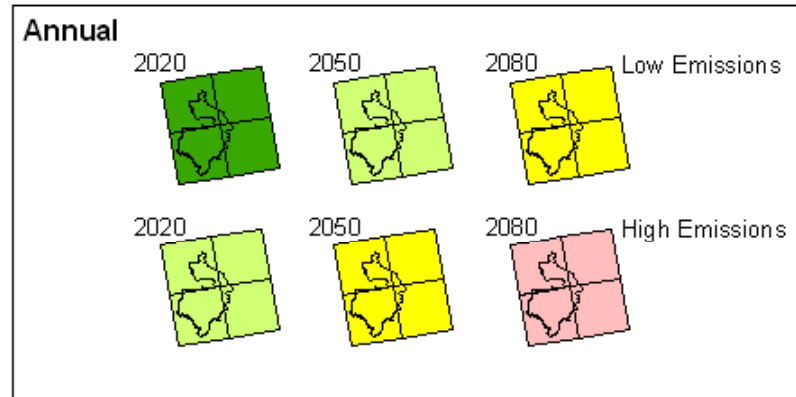
Predicted mean relative humidity changes



Predicted daily mean 10m wind speed changes



Predicted changes in soil moisture



Lower summer rainfall and higher temperatures

- Likely to increase the incidence of fires in open areas. Heathland particularly vulnerable.
- Wetlands likely to dry out in summer
- Soil structure – soil porosity & water retention and availability, soil erosion, nutrient leaching, capacity of soil for nutrient storage, changes to soil flora & fauna
- Increased activity of soil organisms – decomposition – significant releases of CO₂ expected – will this lower organic matter levels in soil?



Warmer, wetter winters:

Clay soils that have dried out in summer – in winter the cracks and fissures will allow more rapid movement of water, resulting in:

- ❖ increased risk of flooding
- ❖ leaching of soil nutrients
- ❖ reduction in the filtering capacity of soils
- ❖ increase in the pollution of ground and surface waters



Building Adaptive Capacity

- Keep up-to-date with latest info
 - ❖ Monarch Report
 - ❖ UK CIP e-newsletter
- Data monitoring
- Awareness raising (this conference)



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