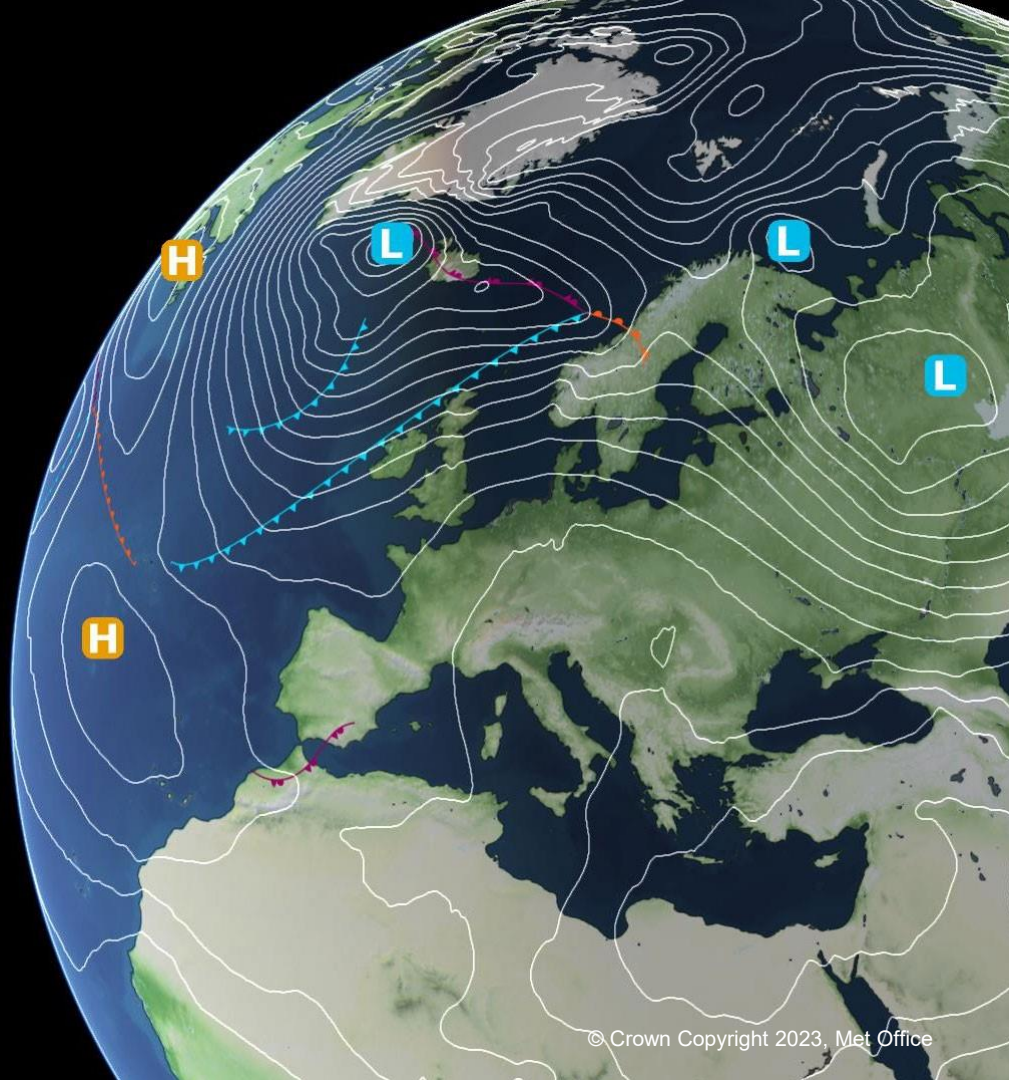


Tendring District Council

Local Community Resilience Workshop

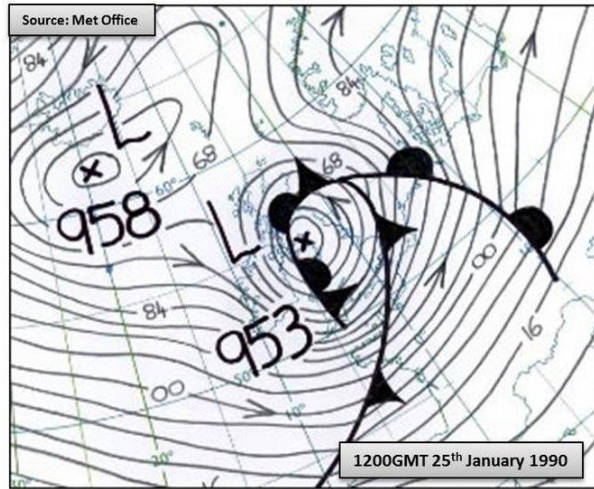
September 2025



Main Winter Risks

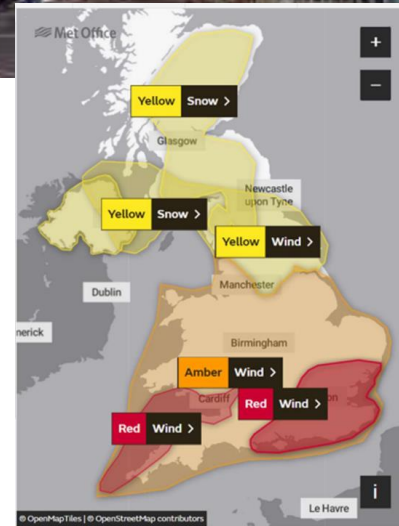
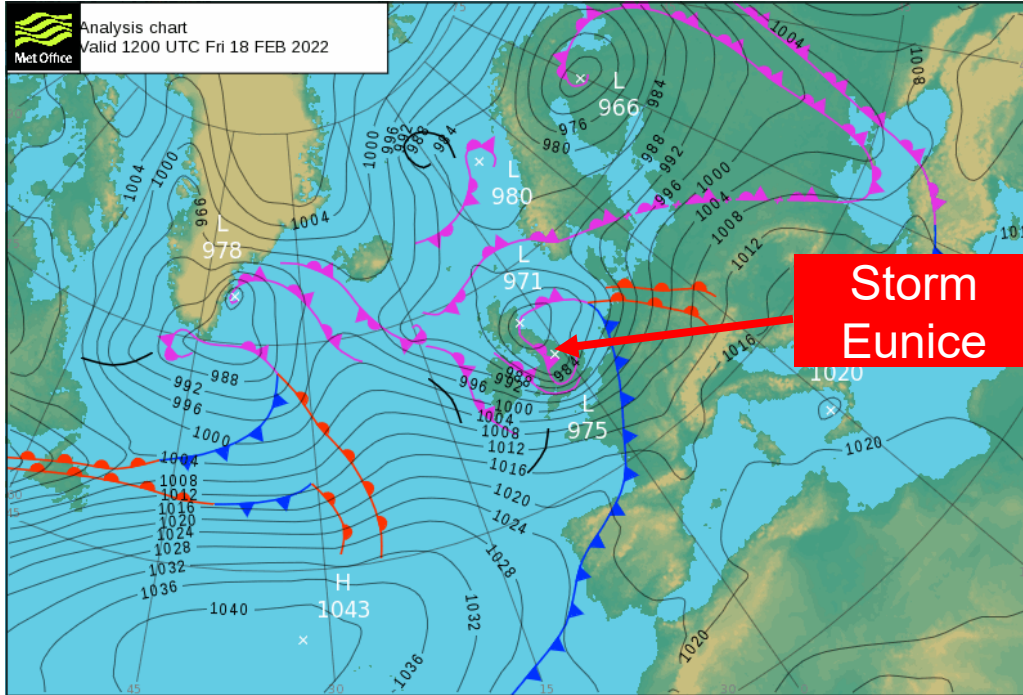


Storms



Met Office Storm Example

18th February 2022 – Storm Eunice



Met Office Storm Naming

A joint project with Met Éireann (Irish Met Service) and KNMI (Dutch Met Services)



The banner features a dark blue background with a stormy sky. At the top, logos for the Met Office, Met Éireann, and the Royal Netherlands Meteorological Institute are displayed. The title '2025/26 storm names' is prominently shown in white and yellow. Below, a grid lists 20 storm names in two columns, each with its phonetic pronunciation. The names are: Amy (Ah-mee), Bram (Br-ahm), Chandra (Ch-an-dra), Dave (Dahv), Eddie (Ed-ee), Fionnuala (Fee-new-lah), Gerard (Jer-ard), Hannah (Han-nah), Isla (Eye-lah), Janna (Yah-nah), Kasia (Ka-shaa), Lilith (Lee-lith), Marty (Mar-tee), Nico (Nee-co), Oscar (Oss-ah), Patrick (Pah-trick), Ruby (Ruh-bee), Stevie (Stee-vee), Tadhg (Tie-g), and Violet (Vee-oleet). A yellow triangle with a black exclamation mark is positioned to the right of the names. A note specifies that Q, U, X, Y, and Z are excluded to align with US National Hurricane Centre naming conventions. The bottom of the banner includes the slogan 'Keeping you safe when it matters the most' and the hashtag #StormNames.

 Met Office  Met Éireann  Royal Netherlands Meteorological Institute
Ministry of Infrastructure and Water Management

2025/26 storm names

Amy	Fionnuala (Fee-new-lah)	Kasia (Ka-shaa)	Patrick	Wubbo (Vuh-boh)
Bram	Gerard (Jer-ard)	Lilith	Ruby	Q, U, X, Y, Z not included to be in line with US National Hurricane Centre naming convention
Chandra (Ch-an-dra)	Hannah	Marty	Stevie	
Dave	Isla	Nico	Tadhg (Tie-g)	
Eddie	Janna (Yah-nah)	Oscar	Violet	

Keeping you safe when it matters the most **#StormNames**

Flooding



Coastal Flooding



Fluvial Flooding

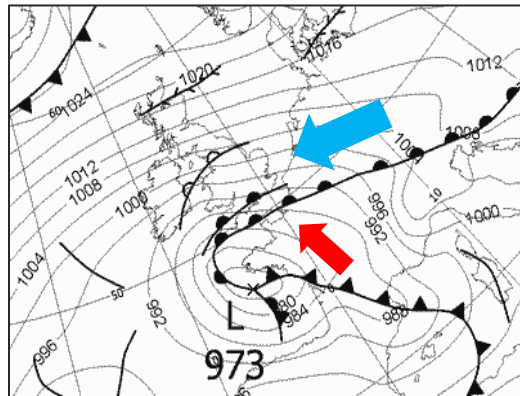


Groundwater Flooding

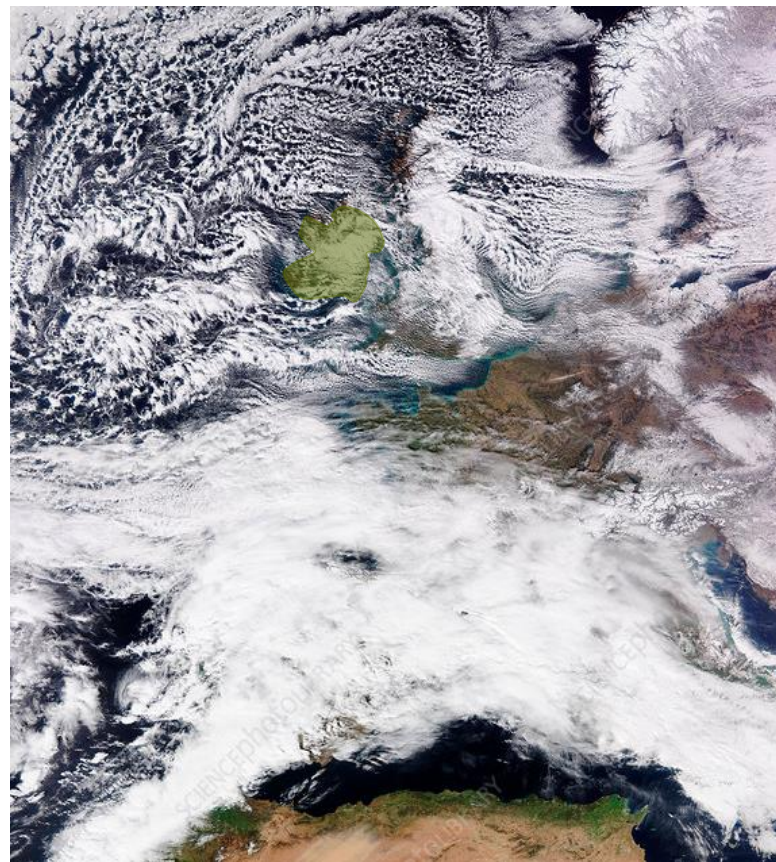


Other types of flooding include: Surface water (Pluvial), sewerage and reservoir

Met Office Snow



2nd March 2018 – Severe Late Winter Weather



What are the different impacts of snow, sleet and freezing rain?

Snow, sleet and freezing rain are all different types of winter precipitation.

			
ABOUT	SNOW Ice crystals stick together in the cloud to form a snowflake.		SLEET Snow partially melts and falls as a mix of snowflakes and raindrops to the ground.
	DRY SNOW Snowflakes fall through dry, cold air.	WET SNOW Snowflakes fall through moist, cold air.	
IMPACTS	<ul style="list-style-type: none">• Less common than wet snow in UK.• Snowflakes are small, powdery and won't stick together.• Can be blown by wind to form snow drifts.• Salt treatment less effective than wet snow as dry snow does not have much water content.		<ul style="list-style-type: none">• Sleet accumulation on roads is minimal.• Can cool the surface temperature of roads and pavements, this can cause ice formation if the temperature of the surface falls below freezing.
	<ul style="list-style-type: none">• Snowflakes are heavier than dry snow and stick together easily.• Compacts easily (e.g. under car tyres).• Turns quickly to ice if the temperature drops below freezing (e.g. overnight).• Responds well to salt treatment as wet snow has a high water content.		<ul style="list-style-type: none">• Less common in UK.• Most dangerous type of winter precipitation.• Freezing rain can form on top of a layer of salt that has already been put down on the ground.
IMPACTS			
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Ice / Freezing Rain

Icy conditions caused by water in the air freezing onto cold surfaces or wet surfaces freezing.



Freezing rain is the most dangerous weather that leads to icy conditions.



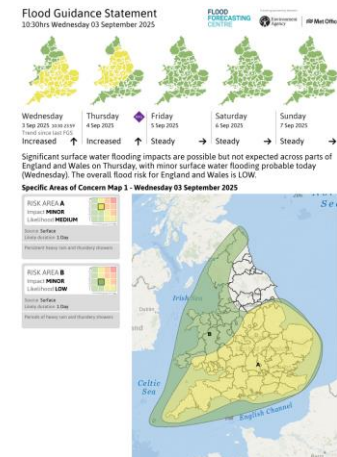
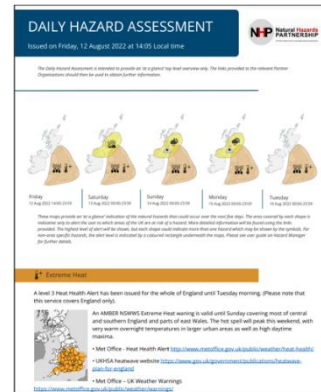
Met Office Fog

Caused when water vapour in the air cools low enough to droplets of water.



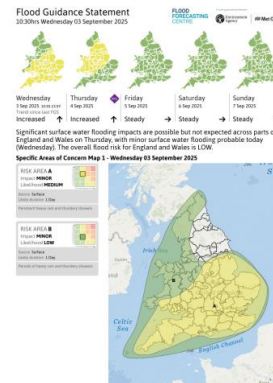
Met Office Warnings and Services

- Close working with UKHSA on Cold Health Alerts.
- Usual National Severe Weather Warnings for winter hazards:
 - Snow, Ice, Rain, Wind and Fog.
- Risk assessment and guidance for flooding in partnership with the Environment Agency, through the Flood Forecasting Centre.
- Regional Civil Contingencies Advisors.
- Hazard Manager web platform.
- Three Month Outlooks.
- Weather Ready – Seasonal Preparedness.



Met Office Warnings and Services

- Usual National Severe Weather Warnings for winter hazards:
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- Regional Civil Contingencies Advisors.
- Three Monthly Outlook.
- Weather Ready – Seasonal Preparedness.



Locate the tick!

It is very important that you look to see where the tick is on the matrix.
Yellows are not all the same!

Likelihood	High		✓		
	Medium				
	Low				
	Very low				
		Very low	Low	Medium	High
Impact					

Low impacts – no
major issues?

Likelihood	High				
	Medium				
	Low			✓	
	Very low				✓
		Very low	Low	Medium	High
Impact					

High impacts – risk
to life?

Impact Tables

There are impact tables for all Severe Weather and each of the eight weather elements warned for.

	Very Low	Low	Medium	High
Impact and advice applying to ALL SEVERE WEATHER	<p>On the whole, day to day activities not affected but some localised, small scale impacts occur</p> <p>A few transport routes affected.</p>	<p>Some short lived disruption to day to day routines in affected areas</p> <p>Incidents dealt with under 'business as usual' response by emergency services</p> <p>Some transport routes and travel services affected.</p> <p>Some journeys require longer travel times.</p>	<p>Injuries with danger to life</p> <p>Disruption to day to day routines and activities.</p> <p>Short-term strain on emergency responder organisations.</p> <p>Transport routes and travel services affected. Longer journey times expected. Some vehicles and passengers stranded.</p> <p>Disruption to some utilities and services.</p> <p>Damage to buildings and property.</p>	<p>Danger to life</p> <p>Prolonged disruption to day to day routines and activities</p> <p>Prolonged strain on emergency responders organisations.</p> <p>Transport routes and travel services affected for a prolonged period.</p> <p>Long travel delays. Vehicles and passengers stranded for long periods.</p> <p>Disruption to utilities and services for a prolonged period.</p> <p>Extensive damage to buildings and property.</p>

Understanding Weather Warnings

Likelihood	High		✓		
	Medium		✓		
	Low				
	Very low				
		Very low	LOW	Medium	High
Impact					

Some short lived disruption to day to day routines

'Business as usual' response by emergency services

Some transport routes and travel services affected. Some journeys require longer travel times.

Likelihood	High			✓	
	Medium			✓	
	Low			✓	
	Very low			✓	
		Very low	Low	MEDIUM	High
Impact					

Injuries with danger to life and damage to buildings and property.

Disruption to day to day routines, activities and some utilities / services

Short-term strain on emergency responder organisations.

Transport routes and travel services affected. Longer journey times expected. Some vehicles and passengers stranded.

Likelihood	High				✓
	Medium				✓
	Low				✓
	Very low				✓
		Very low	Low	Medium	HIGH
Impact					

Danger to life and extensive damage to buildings and property.

Prolonged disruption to day to day routines, activities and utilities / services

Prolonged strain on emergency responders organisations.

Transport routes and travel services affected for a prolonged period. Long travel delays. Vehicles and passengers stranded for long periods.

Common Warnings Framework

CWF Purpose Statement

The organisations agree to:

Engage with 'One Voice' and work together to develop an 'Authoritative Voice'.

Collaborate on the future development of shared warning methodology and that it will have shared ownership.

Make it easier to share our messages for others to re-use and enhance our 'Authoritative Voice'.

Have a shared primary focus on ultimately saving lives.

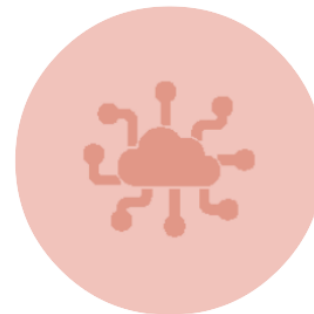
Importance of a common warning framework (Why)



UK warning providers must deliver clear, consistent messages upon which responders and the public can act



Current differences in risk assessment matrices among providers complicate consensus on warning strategies and user communication



Essential to consider how UK warnings work within international alerting protocols, which enhance the reach and usability of warning data through redistributors

Common Warning Framework

Current Matrix

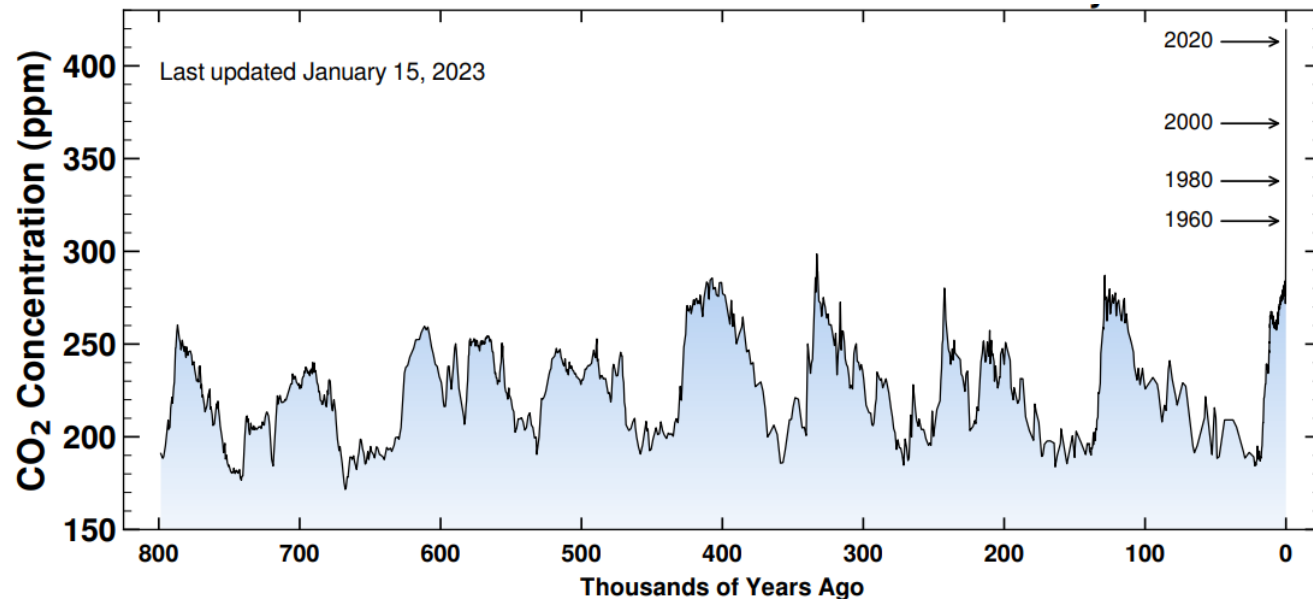
Likelihood	High				
	Medium				
	Low				
	Very low				
		Very low	Low	Medium	High
	Impact				

Updated Matrix



Our changing climate

Current levels of atmospheric CO₂ are unprecedented in 800,000 years or more



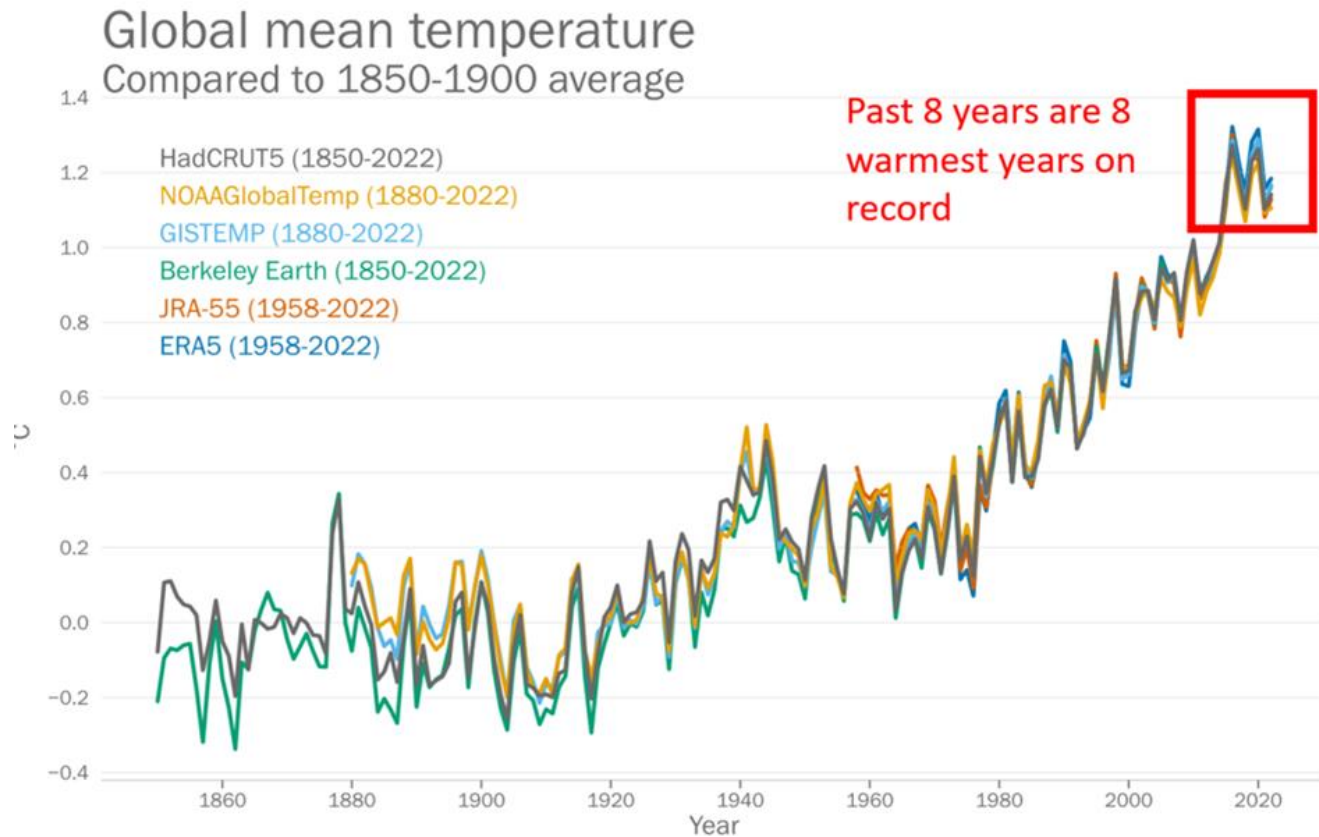
Charles David Keeling,
1928 – 2005

Since the Industrial Revolution in the 18th Century, the globally averaged concentration of CO₂ in the atmosphere has risen by around 50%, to over 415 parts per million (ppm).

Records of Earth's climate, preserved in air bubbles trapped in Antarctic ice, show that the current level of CO₂ is unprecedented in at least 800,000 years.

<https://scripps.ucsd.edu/programs/keelingcurve/>

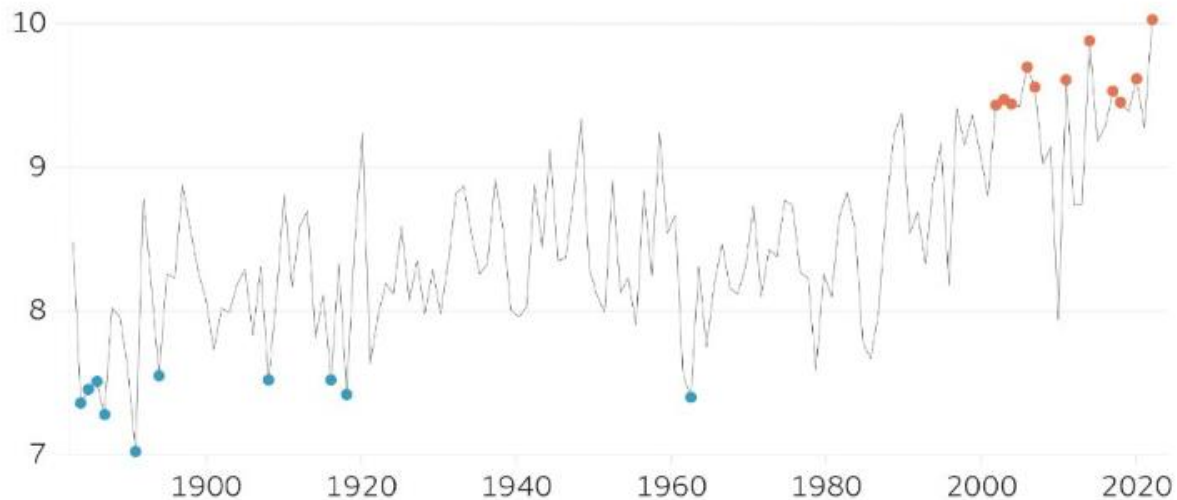
Met Office Global average surface temperature change



Global temperature has risen by 1.15°C since the pre-industrial era

Met Office What is the difference between climate variability and change?

Hottest and coldest UK years (°C)

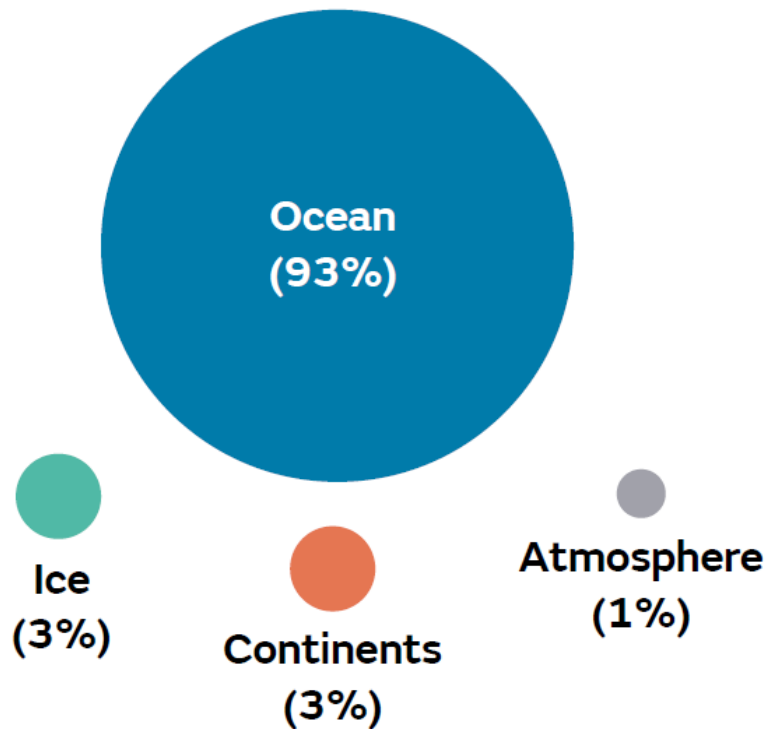


Data: HadUK Grid mean annual UK temperature

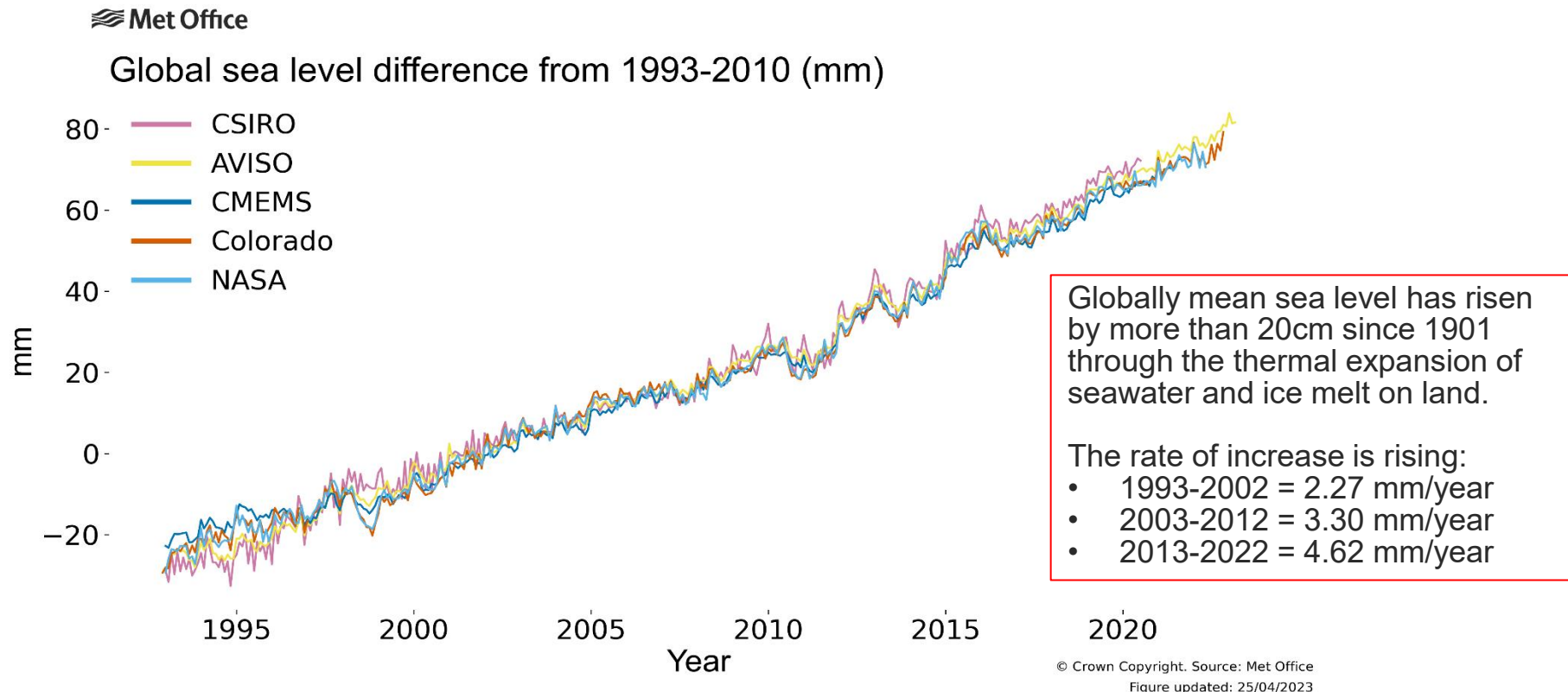
Timeseries of UK annual average temperature from 1884 to 2022 with the hottest and coldest years in the series highlighted.
Credit: Met Office.

Met Office Where is the additional heat in the climate system going?

Research has found that since the 1970s more than 90% of the excess energy stored in the climate system has been absorbed by the oceans.



Met Office Sea level has risen and continues to rise...



Climate change is already impacting on extreme weather across the planet



Siberian heatwave

- Widespread, prolonged event over the first 6 months of 2020 resulting in **wildfires** and **loss of permafrost**
- Event was **600 times more likely** due to climate change



European flooding

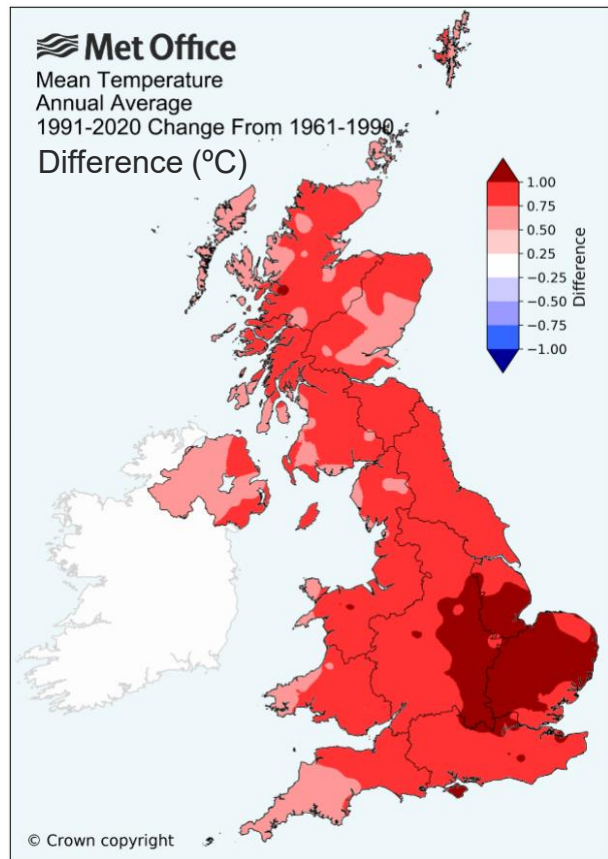
- July 2021 **heavy rainfall event** resulted in extreme impacts, and led to over **200 deaths**
- Event was **1.2 to 9 times more likely** and **rainfall intensity 3-19% higher** due to climate change



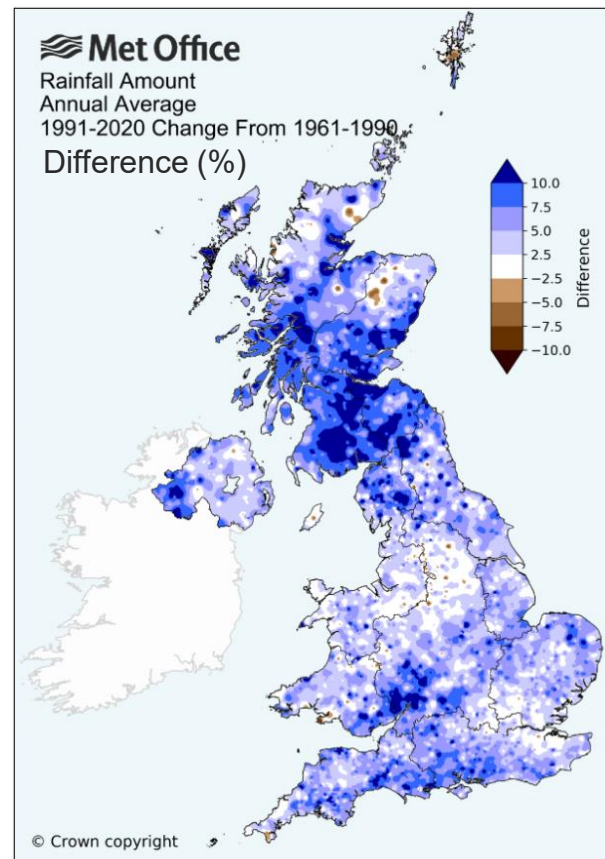
North America heatwave

- Record breaking temperatures in June 2021, **49.6°C recorded in Canada**
- **Almost impossible** to hit such record-breaking temperatures in the Western United States **without human-caused climate change**

Current state of the UK climate



1991-2020
change from
1961-1990



30-year average

1961-1990

1991-2020

Mean temperature:

9.7 Celsius

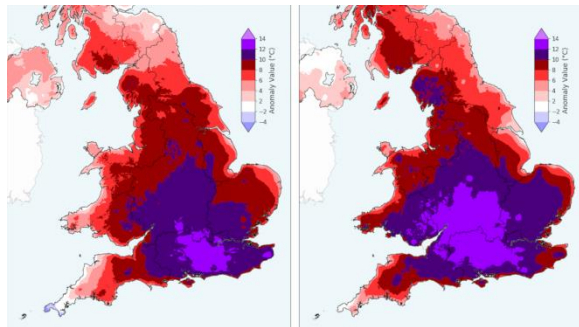
10.7 Celsius

Annual rainfall:

572mm

595mm

Extreme events are also impacting the UK



Heatwaves

- **July 2022** UK exceeded 40°C for the first time on record in the UK.
- The **Summer 2020 heatwave** was the most significant heatwave of the last 60 years, leading to over **2500 excess deaths** across the UK
- By **2050** hot summers could happen **every other year**



Heavy rainfall

- **February 2020** was the wettest February on record
- **Storm Ciara** saw a month's worth of rain fall across parts of West Yorkshire in just 18 hours, leading to **widespread flooding**
- By **2070**, winter rainfall events, similar to these, are expected to **increase by up to 25%**



Wildfires

- Figures suggest the number of **UK wildfires has been increasing** in recent years
- Wildfires could be **5 times more likely** by 2100 due to increases in high temperatures and low summer rainfall; conditions highly conducive to wildfires

Met Office Changes in likelihood of UK Extreme Events due to man-made Greenhouse gases – extreme heat

Chances of seeing 40°C in the UK

Natural climate



Present



By 2100

1 in 100 -
1000 years

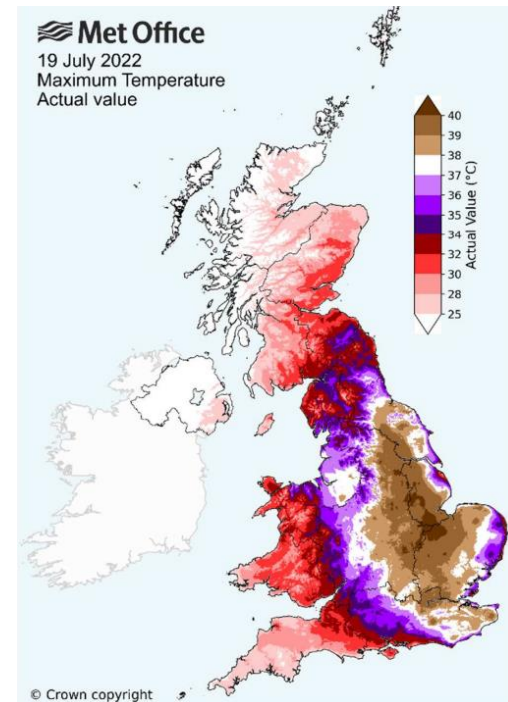
1 in 100 -
300 years

1 in 15
years
(medium
emissions
scenario)

1 in 3.5
years (high
emissions
scenario)



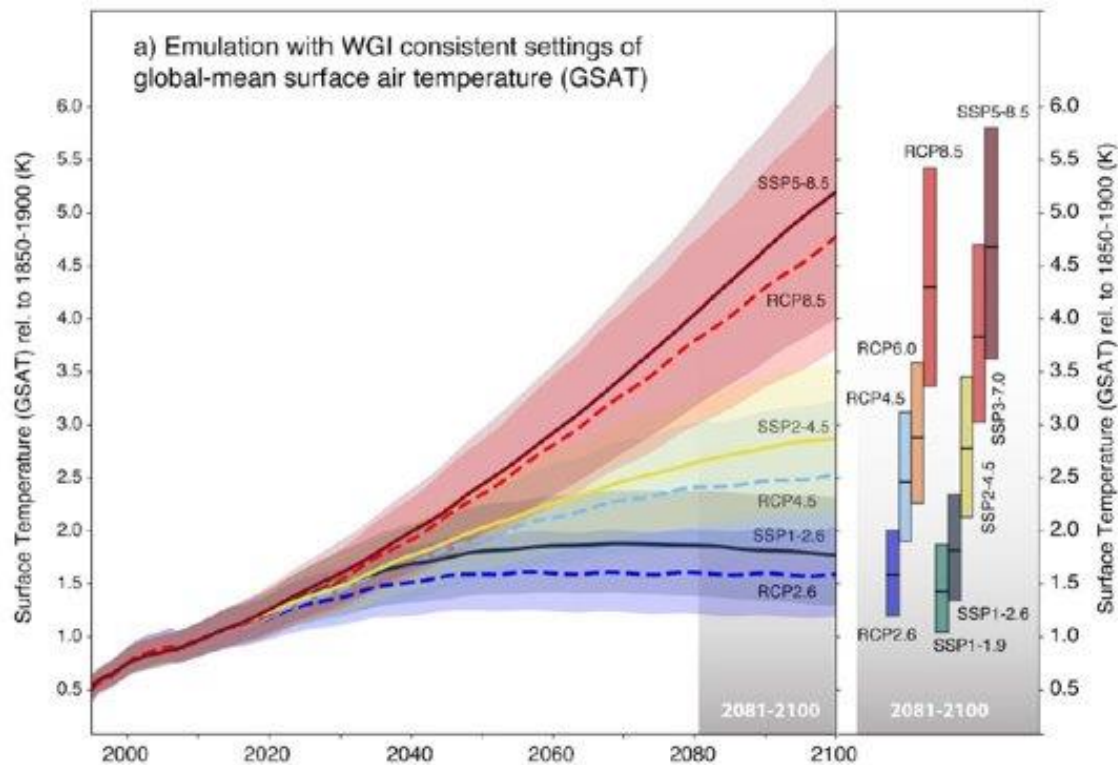
Wildfires destroys building in Ashill in the July 2022 heatwave



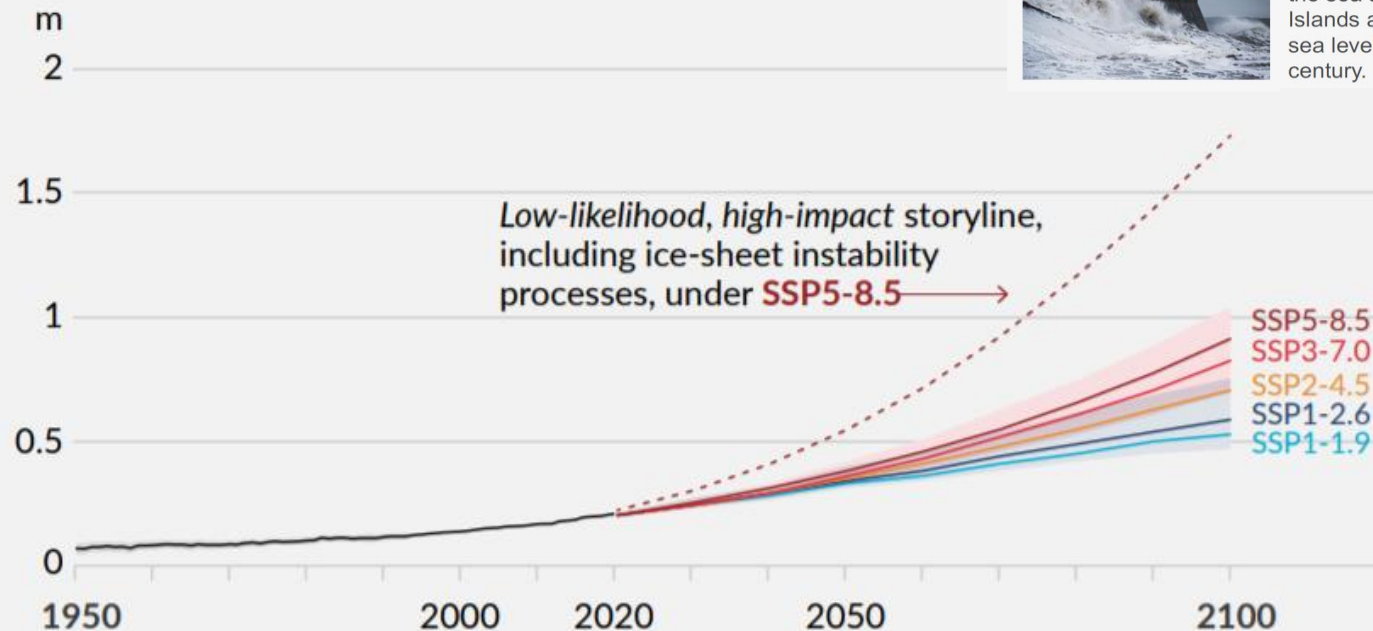
Emission scenarios

Intergovernmental
Panel on Climate
Change

Representative
Concentration
Pathways (RCP) &
Shared Socioeconomic
Pathways (SSPs)



(d) Global mean sea level change relative to 1900



From IPCC AR6 WG1

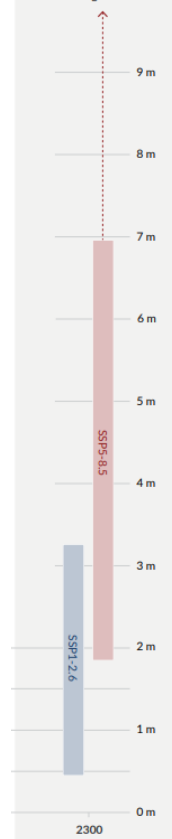


Flood risk

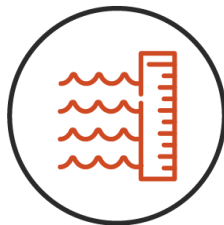
About a billion people in low-lying cities by the sea and on Small Islands at risk from sea level rise by mid-century.

(e) Global mean sea level change in 2300 relative to 1900

Sea level rise greater than 15 m cannot be ruled out with high emissions



Global climate change risks



Heat stress risk
(No. of people
exposed to
extreme heat)

River flooding
(No. of people
affected)

Drought
(% time
cropland
experiencing
drought)

Wildfires
(% land area
exposed to
'very high' fire
risk)

**Biodiversity
range loss**

	Heat stress risk (No. of people exposed to extreme heat)	River flooding (No. of people affected)	Drought (% time cropland experiencing drought)	Wildfires (% land area exposed to 'very high' fire risk)	Biodiversity range loss
Present day	68 million	54 million	7%		
2°C warming	1 billion	97 million	16%	36%	19%
4°C warming	3.5 billion	211 million	30%	50%	46%
Impacts at 4°C vs 2°C	3.5x worse	~1.2x worse	~0.9x worse	~0.4x worse	~1.4x worse

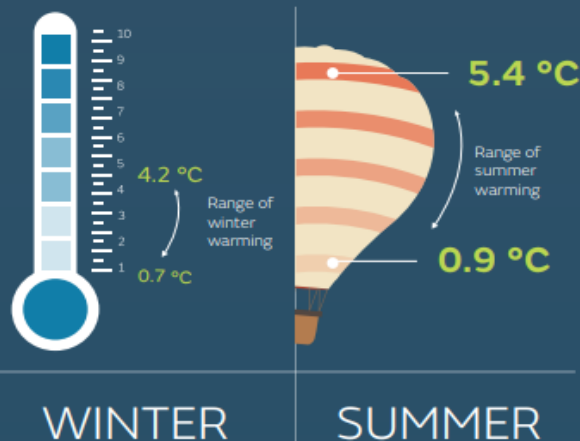
What will the UK face in the future?

FUTURE TEMPERATURE CHANGE

PROBABILISTIC PROJECTIONS

RIISING SEASONAL TEMPERATURES*

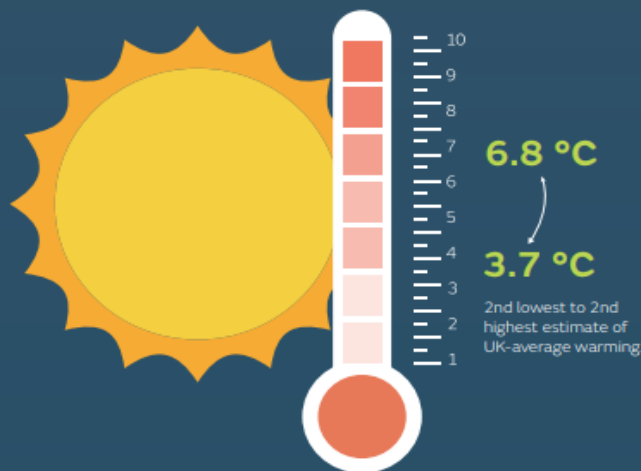
UKCP Probabilistic (25km) projections show that by 2070, the range of average seasonal temperature changes are projected to increase*.



UKCP LOCAL (2.2KM)

HOT SUMMER DAYS

Temperature of hot summer days**, by 2070, is projected to increase in the Local (2.2km) projections.



THE FREQUENCY OF HOT SPELLS*** IS PROJECTED TO INCREASE

The average frequency of hot spells, locally over the southern UK for the period 1981-2000, is once every 4 years.



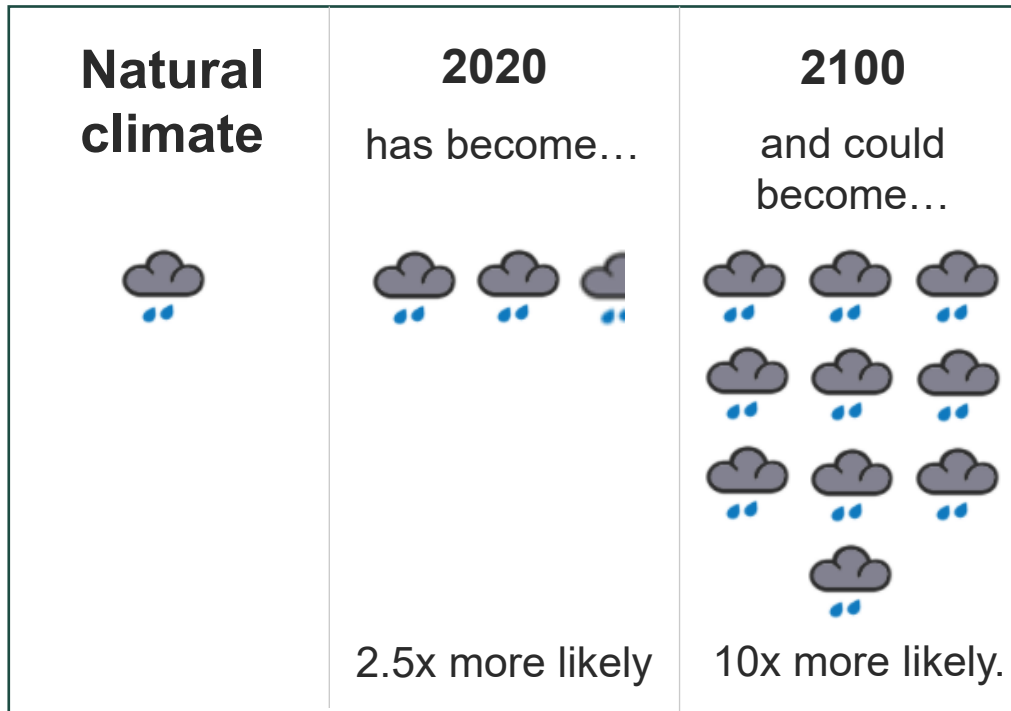
By 2070, the average frequency of hot spells is projected to rise to about four times per year.

Met Office **Extreme UK rainfall** becomes more likely and intense with human-induced climate change.

The wettest day on record:



Currently, such an event would happen every 100 years and this may decrease to every 30 years by the end of the century.

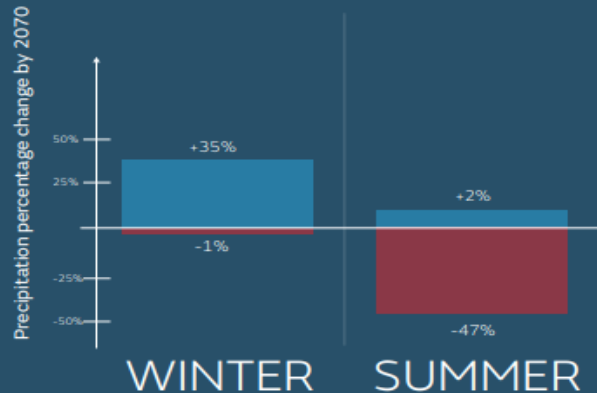


FUTURE PRECIPITATION CHANGE

PROBABILISTIC PROJECTIONS

WETTER WINTERS, DRIER SUMMERS*

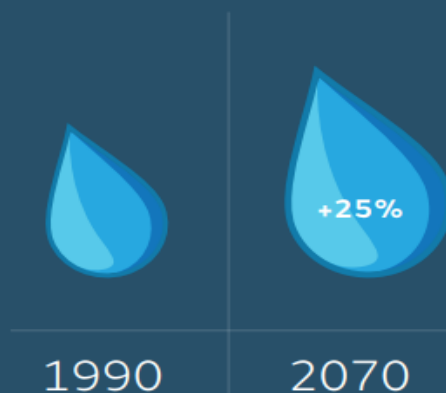
UKCP Probabilistic (25km) projections show that by 2070, under a high emission scenario, average winter precipitation is projected to increase, whilst average summer rainfall is projected to decrease.



UKCP LOCAL (2.2KM)

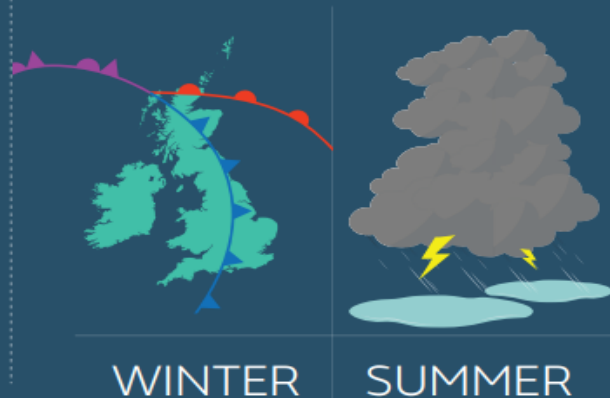
FUTURE INCREASES IN EXTREME HOURLY RAINFALL INTENSITY

By 2070, extreme hourly rainfall intensity associated with an event that typically occurs once every two years increases by 25%.



CHANGES IN THE TYPE OF RAINFALL

By 2070, Local (2.2km) projects more of the rain in winter will come from frontal rain events of higher intensity and in summer from short lived high intensity showers.



Department
for Environment
Food & Rural Affairs



Department for
Business, Energy
& Industrial Strategy



Met Office
Hadley Centre



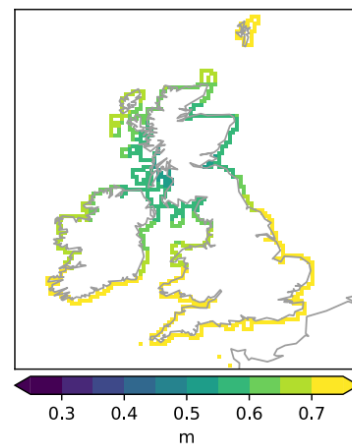
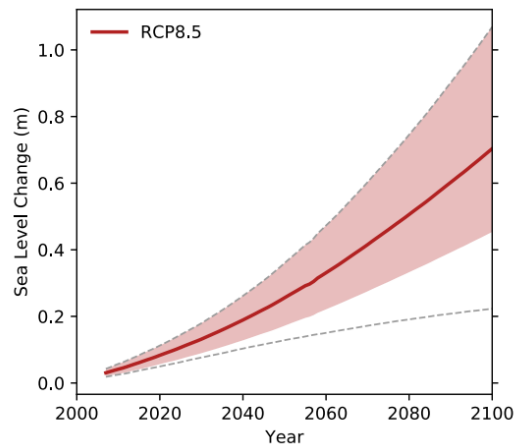
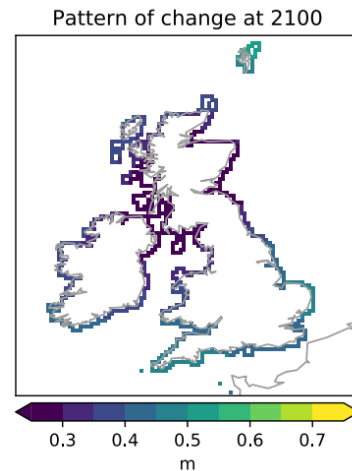
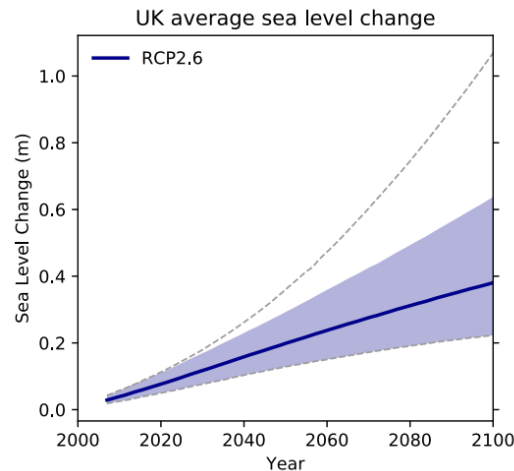
Environment
Agency

Working together on
UK Climate Projections

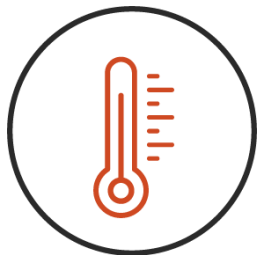
Sea level rise in the UK

- Sea levels will rise more in England/Wales than in Scotland/Northern Ireland. This is due to glacial isostatic adjustment.
- In a high emissions scenario, sea level could rise between 0.5-1.15m by 2100 in London. Under a low emission scenario this would be 0.3-0.7m*

* Relative to 1980-2000 average



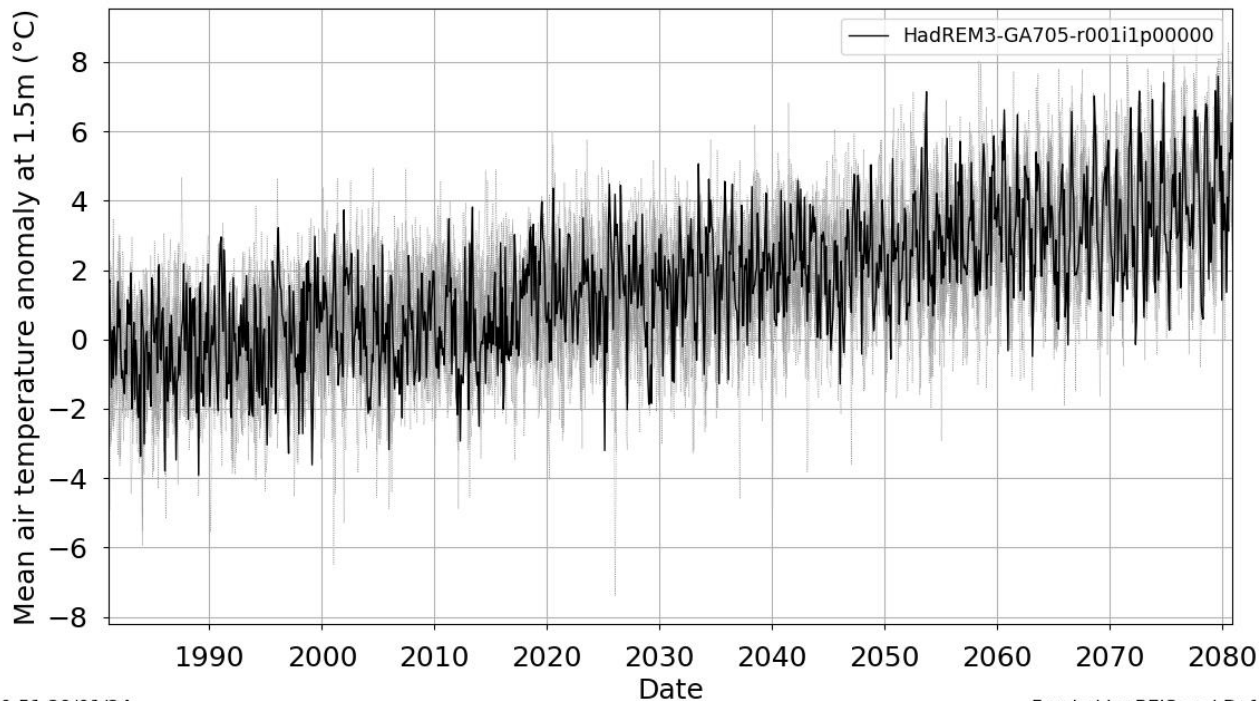
UK climate change risks



	Heat related deaths (per year)	Flooding (annual damages)	Water availability (low river flows)	Wildfires (% days with 'very high' fire risk)
Present day	2,000	£2 billion		9%
2°C warming	7,000	£2.7 - £3 billion	20% decrease	26%
4°C warming	13,000	£3.5 - £3.9 billion	50% decrease	50%
Impacts at 4°C vs 2°C	~86% worse	~30% worse	30% worse	~92% worse

Essex annual mean temperature increase

NSRA Mean Air Temps

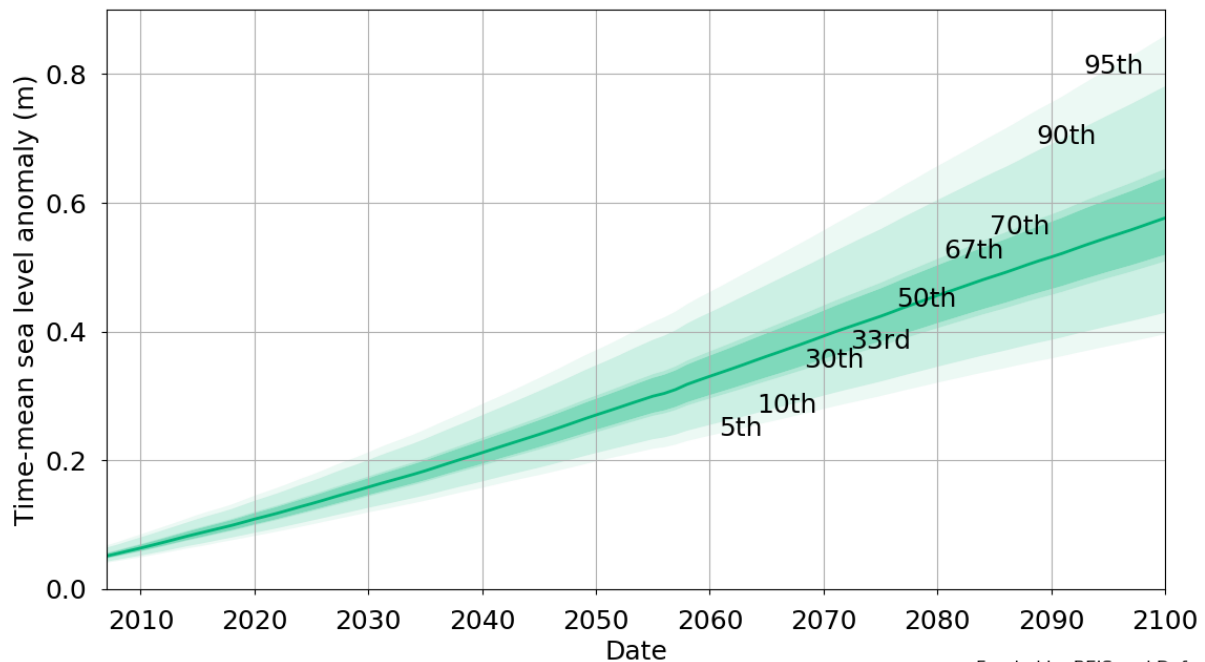


10:51 29/01/24

Funded by BEIS and Defra

Essex coast and sea level rise

Time-mean sea level anomaly (m) for years 2007 up to and including 2100, for grid square 52.83°, 1.58°, using baseline 1981-2000, and scenario RCP 4.5, showing the 5th, 10th, 30th, 33rd, 50th, 67th, 70th, 90th and 95th percentiles



Funded by BEIS and Defra

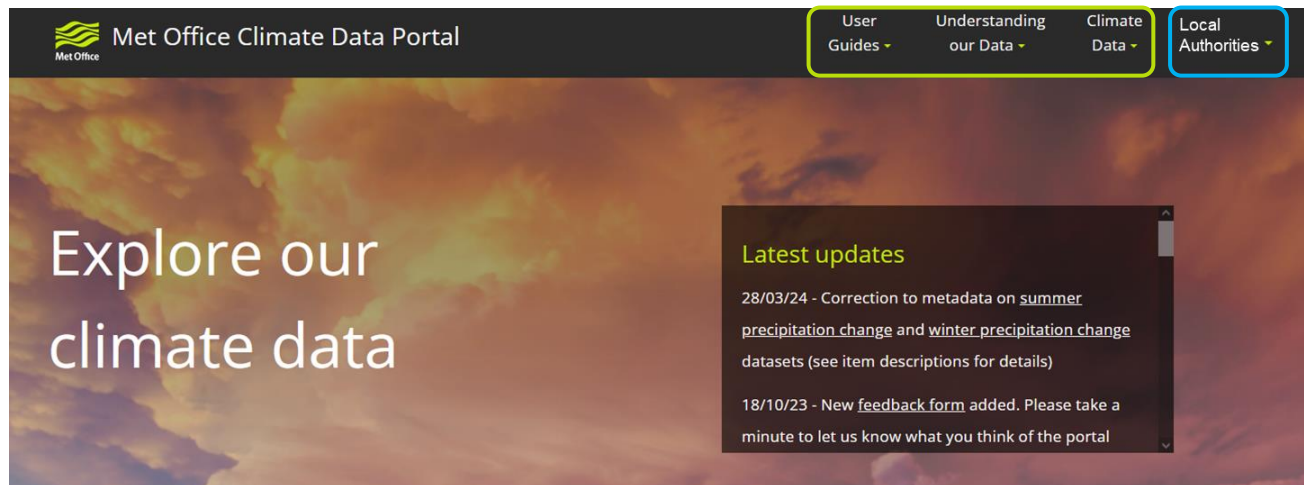
Where to access Climate projections

Climate Data Portal (●CDP) Local Authority Climate Service (●LACS)

●CDP and ●LACS
have a single point
of entry.

The ●CDP provides
climate data layers.

The ●LACS provides
easy-to-access guidance
on local climate.



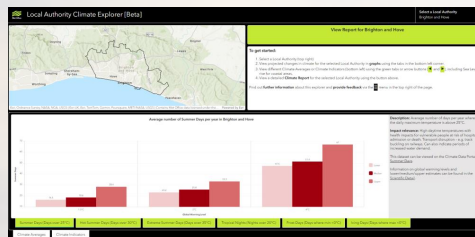
Local Authority Climate Service

Local Authority Community Site



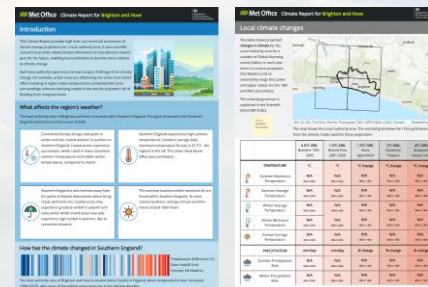
Helpful resources and further support for adaptation planning

Local Authority Climate Explorer



Ready-to-use climate information for your local area

Local Authority Climate Report

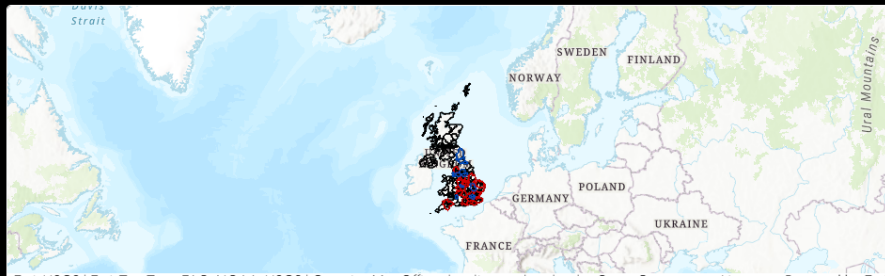


Summary of key results

Climate Explorer



Local Authority Climate Explorer [Beta, V1.0]

Select a Local Authority
None

Esri, USGS | Esri, TomTom, FAO, NOAA, USGS | Contains Met Office data licensed under the Open Government Licen... Powered by Esri

Select a Local Authority to generate a report

To get started:

1. Select a Local Authority (top right)
2. View projected changes in climate for the selected Local Authority in **graphs** using the tabs in the bottom left corner.
3. View different Climate Averages or Climate Indicators (bottom left) using the green tabs or arrow buttons (◀ and ▶), including Sea Level rise for coastal areas.
4. View a detailed **Climate Report** for the selected Local Authority using the button above.

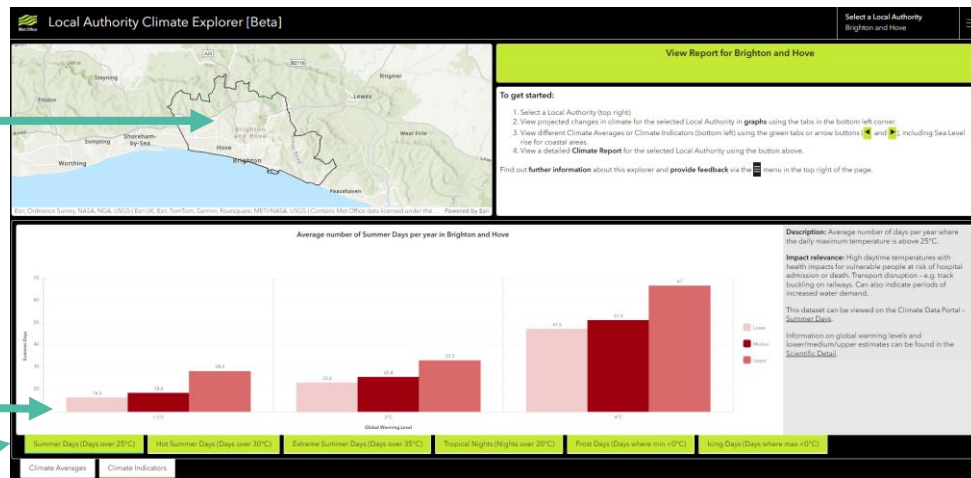
Select a Local Authority using the Selector in the top-right corner of the application

Climate Averages

Climate Indicators

- Key climate variables calculated over your Local Authority area:
 - **Climate Averages:** e.g. summer average temperatures, winter rainfall, sea level rise.
 - **Impact relevant indicators:** e.g. Summer Days (Days over 25°C).
- Information presented for a range of global warming levels consistent with adaptation guidance.
- View data as a graph.
- Based on UKCP Regional (12km resolution) data.

*Local authority level information will be available at launch. Sub-local authority level information will be provided in future iterations.



- ### Met Office Climate Report for Brighton and Hove

Introduction

The Climate Report provides high level, summarised information about climate change projections for the coastal city and town of Brighton and Hove. It is intended to provide a prompt overview to inform decision making and to support the development of climate change plans and policies.

Each local authority represents an unique challenge from climate change. As a coastal town, Brighton and Hove are affected by the impacts of climate change in a number of ways. The following report highlights the key areas of concern for Brighton and Hove and provides a summary of the key findings of the report.

What affects the region's weather?

Brighton and Hove is located within the Southern English climate region. The types of weather for the Southern English climate region are:

 - Continental weather in winter: Brighton and Hove will experience a warmer winter than the rest of the country. This is due to the influence of the sea, which will be warmer than the rest of the country.
 - Southern English weather in summer: Brighton and Hove will experience a warmer summer than the rest of the country. This is due to the influence of the sea, which will be warmer than the rest of the country.

How has the climate changed in Southern England?

Brighton and Hove is located within the Southern English climate region, which has experienced the most significant warming of any region in the country over the last 100 years.

Met Office Climate Report for Brighton and Hove

Climate Change in the UK

Observed changes

Over the last 100 years, there has been a significant increase in the average temperature of the UK. This is due to a combination of factors, including the greenhouse effect and the release of greenhouse gases into the atmosphere.

Impacts

Climate change is expected to have a range of impacts on the UK, including:

 - Increased frequency and intensity of extreme weather events, such as floods and droughts.
 - Changes in the timing and distribution of rainfall.
 - Changes in the distribution of vegetation and wildlife.
 - Changes in the distribution of human populations.

Future headlines

The climate is already changing, and we are already seeing impacts. But how might the climate change in the future? The climate of Britain could change in a number of ways, including:

 - Warmer winters and hotter summers.
 - Increased frequency and intensity of extreme weather events.
 - Changes in the timing and distribution of rainfall.
 - Changes in the distribution of vegetation and wildlife.
 - Changes in the distribution of human populations.

Met Office Climate Report for Brighton and Hove

Climate Change in the global context

Global Warming Levels

The world is warming, and the rate of warming is increasing. This is due to a combination of factors, including the greenhouse effect and the release of greenhouse gases into the atmosphere.

Timing of changes

The climate is already changing, and we are already seeing impacts. But how might the climate change in the future? The climate of Britain could change in a number of ways, including:

 - Warmer winters and hotter summers.
 - Increased frequency and intensity of extreme weather events.
 - Changes in the timing and distribution of rainfall.
 - Changes in the distribution of vegetation and wildlife.
 - Changes in the distribution of human populations.

Met Office Climate Report for Brighton and Hove

Local climate changes

Local climate changes

The climate of Brighton and Hove is expected to change in a number of ways, including:

 - Warmer winters and hotter summers.
 - Increased frequency and intensity of extreme weather events.
 - Changes in the timing and distribution of rainfall.
 - Changes in the distribution of vegetation and wildlife.
 - Changes in the distribution of human populations.

Take action

Who is this for?

The Climate Report is intended to be used as a range of people and organisations. It is intended to provide a prompt overview to inform decision making and to support the development of climate change plans and policies.

ClimateReady


ClimateReady is a national campaign to encourage people to take action to reduce their carbon footprint. It is a free of charge service that provides advice and support to help people to reduce their carbon footprint.



Generate Report for Tendring

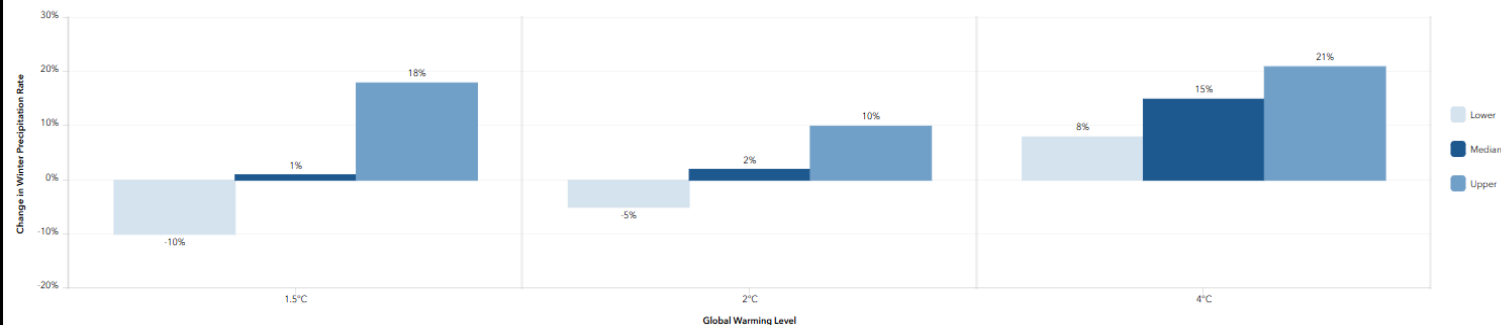
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3. View different Climate Averages or Climate Indicators (bottom left) using the green tabs or arrow buttons (← and →), including Sea Level rise for coastal areas.
4. View a detailed **Climate Report** for the selected Local Authority using the button above.

Find out **further information** about this explorer and **provide feedback** via the  menu in the top right of the page.

Change in Winter Precipitation Rate in Tendring

Changes are relative to 1981-2000 when the local winter precipitation rate was 1.46mm/day. In the most recent decades, 2001-2020, modelled local winter precipitation rate was 1.48mm/day.



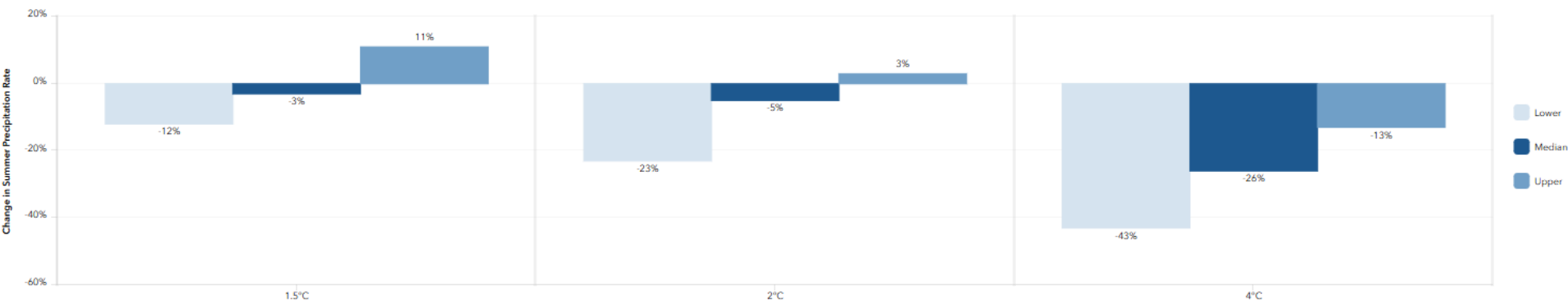
Description: Projections of local changes (% change) in winter in the precipitation rate for three future Global Warming Levels. Changes are relative to a 1981-2000 baseline when global warming was 0.6°C above the pre-industrial period. winter: December, January, February.

This dataset can be viewed on the Climate Data Portal - [Winter Precipitation Rate Change](#).

Information on global warming levels and lower/median/upper estimates can be found in the [Scientific Detail](#).

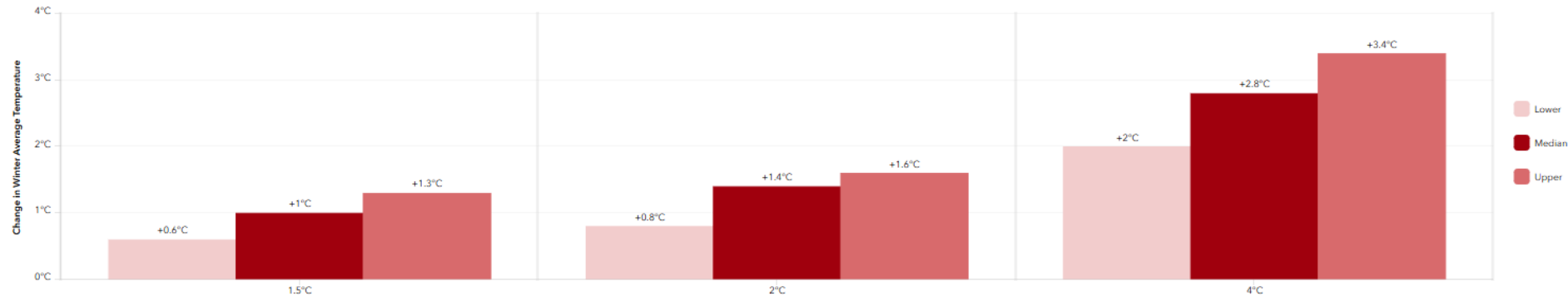
Change in Summer Precipitation Rate in Tendring

Changes are relative to 1981-2000 when the local summer precipitation rate was 1.48mm/day. In the most recent decades, 2001-2020, modelled local summer precipitation rate was 1.46mm/day.



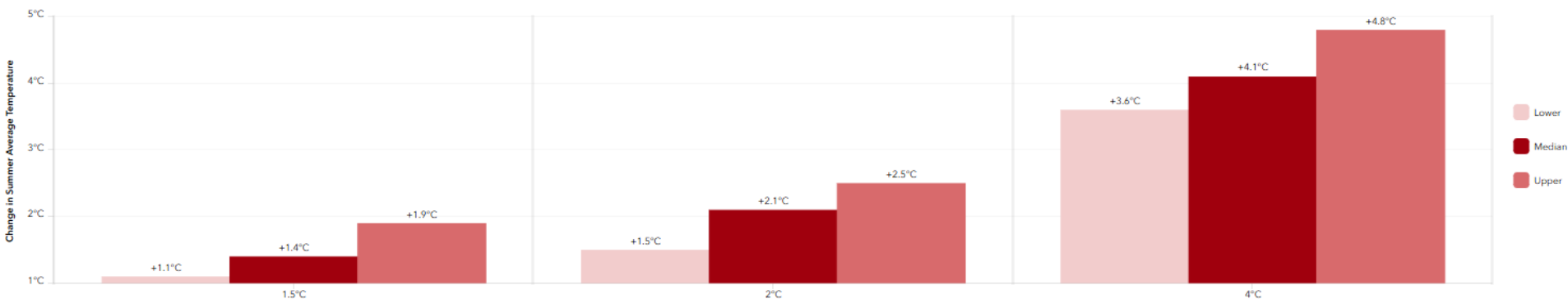
Change in Winter Average Temperature in Tendring

Changes are relative to 1981-2000 when the local winter average temperature was 4.4°C. In the most recent decades, 2001-2020, modelled local winter average temperature was 5.2°C.



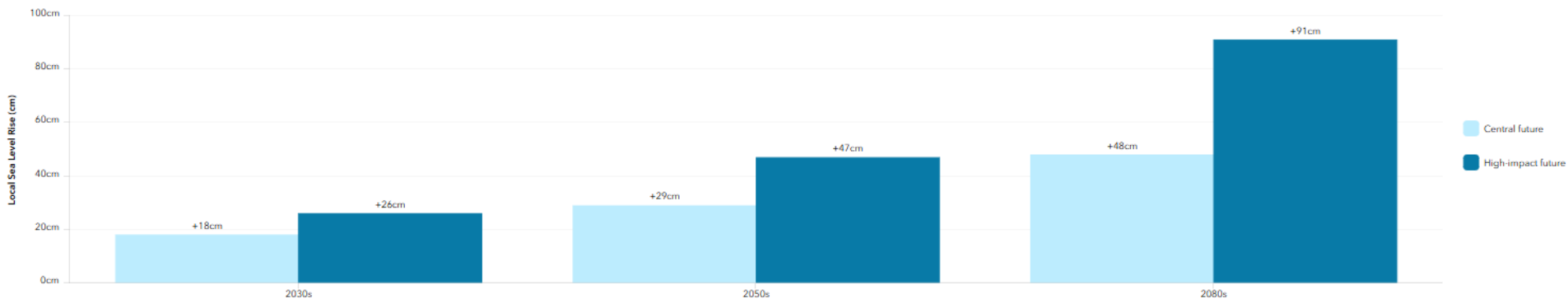
Change in Summer Average Temperature in Tendring

Changes are relative to 1981-2000 when the local summer average temperature was 16.5°C. In the most recent decades, 2001-2020, modelled local summer average temperature was 17.6°C.



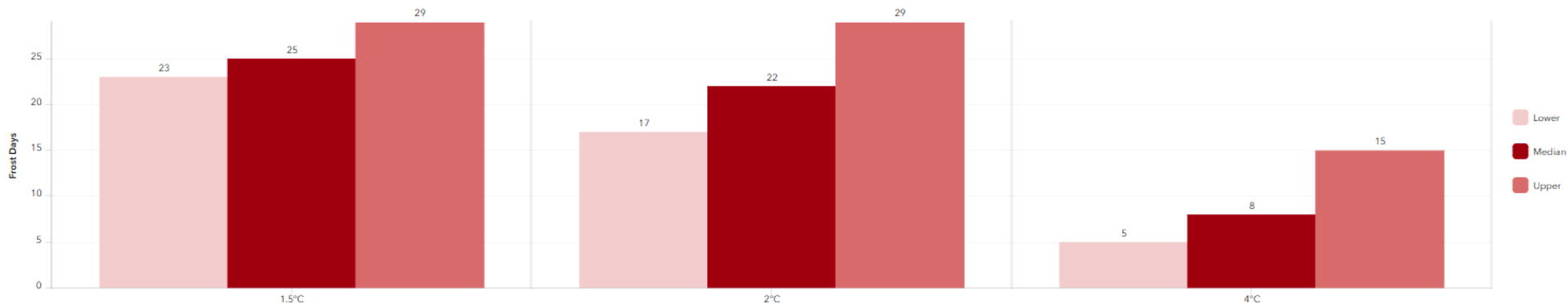
Change in Sea Level for Tendring

Relative to 1981-2000.



Average number of Frost Days in Tendring

The average number of frost days per year modelled in 1981-2000 was 39. In the most recent decades, 2001-2020, the average number of frost days modelled per year was 28.

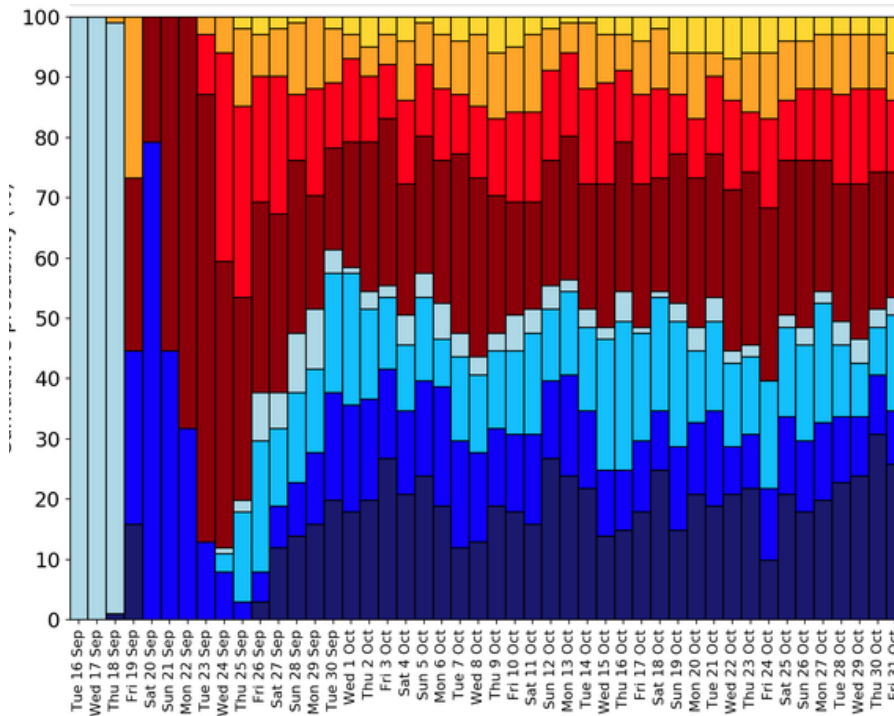
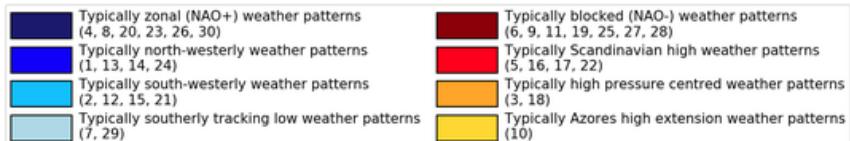


Thank you...



ECMWF extended range Weather regime probabilities

00 UTC run on Tuesday 16 September 2025



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