

Introducing.....

EXTREME WEATHER

What is 'extreme weather'?

- Extreme weather is when a weather event is significantly different from the average or usual weather pattern. This may take place over one day or a period of time. A flash flood or **heat wave** are two examples of extreme weather in the UK.



Over the next few weeks we are going to become *geographers.*

Geography is a science that deals with Earth's surface. People who study **geography** are called **geographers**. **Geographers** are interested in Earth's physical features, such as mountains, deserts, rivers, and oceans. They **are** also interested in the ways that people affect and **are** affected by the natural world.

In this geography topic we will be learning about extreme weather. We will explore;

- What extreme weather is
- Example of extreme weather events
- How extreme weather impacts peoples lives
- What extreme weather events we have had in the UK



Please watch both clips below...

- <https://www.youtube.com/watch?v=yrOYxLt9SCI>



- <https://youtu.be/7XlxQFzlxN0>



Examples of extreme weather-



Tornado: clouds, strong wind, rain, hail.



Hurricane or cyclone: strong wind, heavy rain.



Blizzard: heavy snow, ice, cold temperatures.

Examples of extreme weather-



Dust storm: strong winds, arid conditions.



Flood: heavy rainfall.



Hail storm: cold or warm
Temperatures, rain, ice.



Ice storm: freezing rain.

Extreme weather in the UK-

- Examples of extreme weather events in the UK:
- **Drought** - caused by a lack of rain.
- **Flash floods** - caused by too much rain in a short period of time.
- **Strong winds and storms.**
- **An extreme cold spell.**
- **An extreme heat wave.**

All of these have happened in the UK between 2000 and 2010.

TEMPEST

- Extreme weather events can cause danger, disruption and damage. The impact of an extreme weather event often causes devastation and risks people's lives and homes.
- Therefore it is important to try and predict when an extreme weather event may occur to allow people to prepare as best they can. This could mean evacuating, boarding up homes or creating barricades where possible.
- In order to predict when these events may happen it is important to look closely at past events to spot any patterns or clues as to when another may occur.
- TEMPEST is a database (a collection of data that is organised for rapid searches on a computer) for UK extreme weather events over the past 500 years.

The Database allows you to search extreme weather events in the UK and look at the impact it had on peoples lives.

Weather Extremes
past, present, future

Extreme Weather in the UK
The TEMPEST Database

The Database Search Results

Select your search criteria:

Case study region: [dropdown] Clear

Place/location: [dropdown] Clear

Weather event: [dropdown menu open showing Storm selected] Clear

Date: [Start (day-month-year) - to End (day-month-year)] Clear

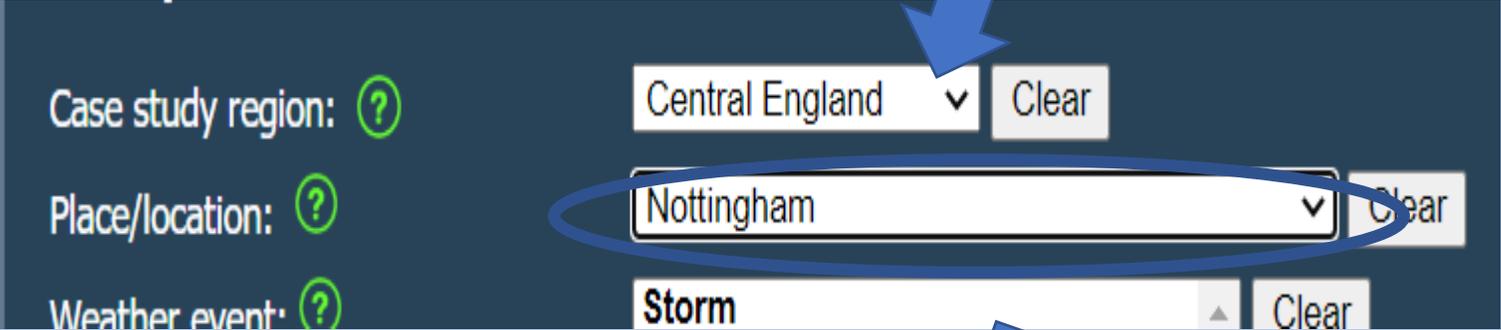
Impact: [dropdown menu open showing Impacts on people selected] Clear

Response: [dropdown menu open showing Individual selected] Clear

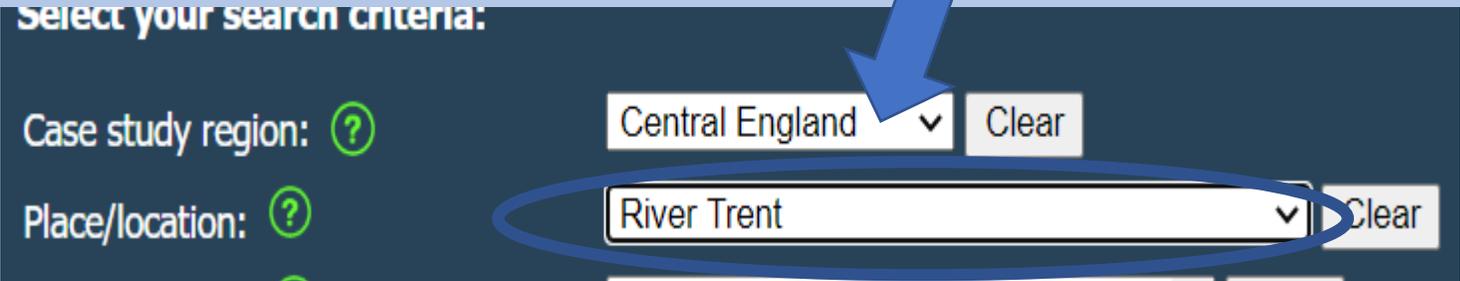
Author: [dropdown] Clear

Type of document: [dropdown] Clear

For example you could search past events extreme weather events that have occurred in Nottingham or the River Trent.



A screenshot of a search interface with a dark blue background. It features three rows of search criteria, each with a green question mark icon to its left. The first row is labeled 'Case study region:' and has a dropdown menu showing 'Central England' with a downward arrow and a 'Clear' button to its right. The second row is labeled 'Place/location:' and has a dropdown menu showing 'Nottingham' with a downward arrow and a 'Clear' button to its right. The 'Nottingham' dropdown is circled in blue. The third row is labeled 'Weather event:' and has a dropdown menu showing 'Storm' with an upward arrow and a 'Clear' button to its right. A blue arrow points from the text above to the 'Central England' dropdown.



A screenshot of a search interface with a dark blue background, similar to the one above. It features two rows of search criteria, each with a green question mark icon to its left. The first row is labeled 'Case study region:' and has a dropdown menu showing 'Central England' with a downward arrow and a 'Clear' button to its right. The second row is labeled 'Place/location:' and has a dropdown menu showing 'River Trent' with a downward arrow and a 'Clear' button to its right. The 'River Trent' dropdown is circled in blue. A blue arrow points from the text above to the 'Central England' dropdown.

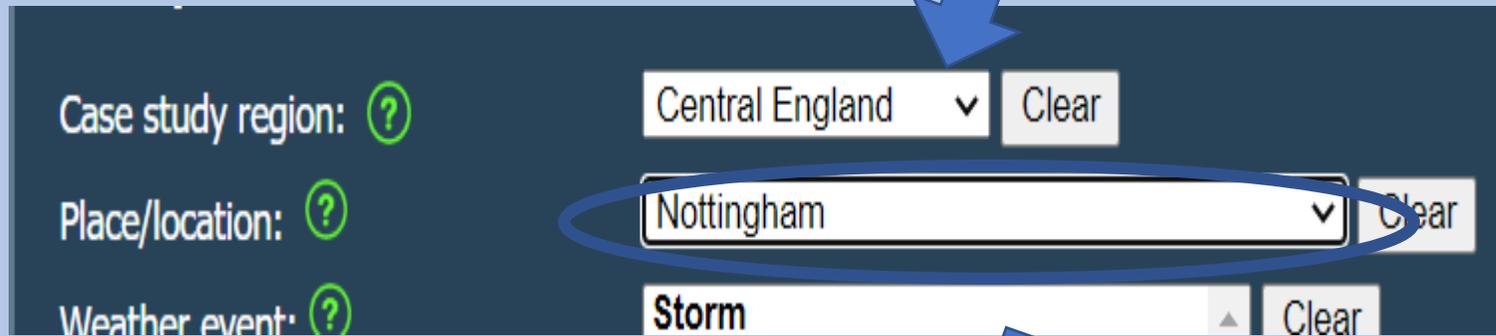
As part of our extreme weather choices grid there is a task asking you to explore and TEMPEST Database yourselves to see what you can find.

If you have chosen this activity follow the next 4 steps..

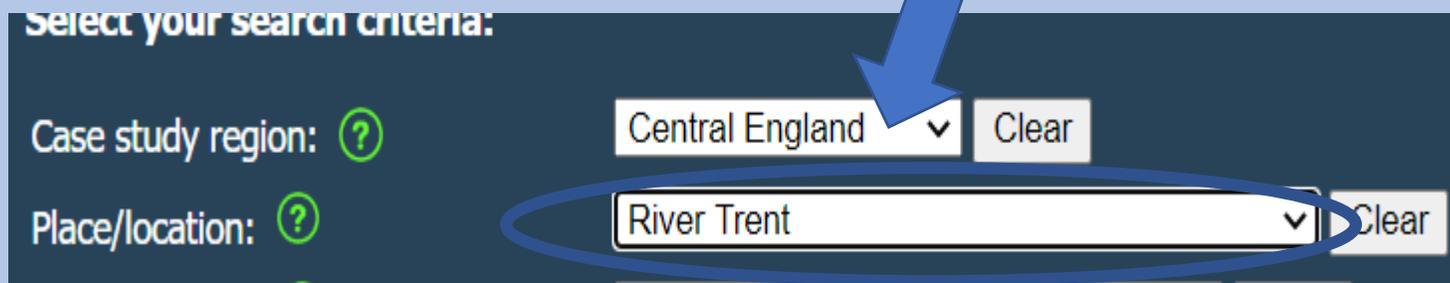
Step 1 - Click on the link

<https://www.nottingham.ac.uk/geography/extreme-weather/search/>

Step 2- Chose a location you would like to look at. For example you could search past events extreme weather events that have occurred in Nottingham or the River Trent.



A screenshot of a search interface with a dark background. It features three filter sections: 'Case study region:' with a dropdown menu set to 'Central England' and a 'Clear' button; 'Place/location:' with a dropdown menu set to 'Nottingham' and a 'Clear' button; and 'Weather event:' with a dropdown menu set to 'Storm' and a 'Clear' button. A blue arrow points to the 'Case study region' dropdown, and a blue oval highlights the 'Nottingham' dropdown.



A screenshot of the same search interface. The 'Case study region:' dropdown is still 'Central England'. The 'Place/location:' dropdown is now set to 'River Trent' and is highlighted with a blue oval. A blue arrow points to the 'Case study region' dropdown.

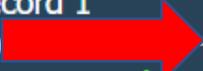
Search

Click search at the bottom of the page..

Step 3- The database will bring up all the extreme weather events

- Chose an account and click on the date

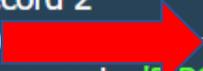
Record 1

Event -  [1684](#) at Nottingham, Trent Bridge, River Trent, Muskham

Document - '[Mi E 4/27](#)' in repository Nottingham University Library, Department of Manuscripts and Special Collections

Author - [Edward Dovey](#)

Record 2

Event -  [28th December 1770](#) at Nottingham

Document - '[2 PG 12/9/3a](#)' in repository Lincolnshire Archives

Author - [Thomas Hatrell \(Junior\)](#)

Record 3

Event -  [25th September 1774 - 1st October 1774](#) at Nottingham, Derby, Yorkshire, Chesterfield

Document - '[LE4828/Box 3](#)' in repository Leicestershire, Leicester and Rutland Record Office

Author - [Jonathan Wilshere](#)

Record 4

Event -  [1775 - 29th May 1775](#) at Nottingham, Nottinghamshire, Aldborough

Document - '[Ms C 3011](#)' in repository Nottingham University Library, Department of Manuscripts and Special Collections

Author - [Henry Goodricke](#)

Step 4- It will bring up a detailed description of the event. Have a read of the information and then continue to search for more.

Date of event	1684
Document/source	'Mi E 4/27' in repository Nottingham University Library, Department of Manuscripts and Special Collections
Places	Nottingham, Trent Bridge, River Trent, Muskham
Types of event	Flood, Ice, Freeze, Frost, Sudden change or thaw
Summary description	Hard frost followed by thaw resulting in flooding.
Description	Wollaton
quotes	Feb 23rd 83/4 Hon'd Madam, I hope by this time my Master Sir Francis... Perhaps your Ladyship has already some certaine acct from Mr Wilkinson what harme ye late frost & thaw has done to Muskham Bridge indeed I have nothing of any certainty for some persons say ye Bridge wholly taken away with ye ice & floods, others but two arches, however I feare something of detriment there is for Nottingham Trent Bridges and sadly ? tho ye greatest pt of it was built of stone & my Master his Bridge at Muskham is a wooden bridge built on piles, about 7 or 8 years since was built such a bridge as my Master's but a great deal more substantial. I am told yt ye sd bridge is almost all taken downe tis but a little mile up Trent from Muskham soe yt happiely ye ice being shivered there might cause my Master's to collapse ye better ye new bridge soe lately built belongs to ye Ld Taxinton of Kelham... Edward Dovey

We hope you enjoy browsing the database!😊

Special Task- Try and find an extreme weather event that happened in a year your parents or grandparents were alive. Ask them if/ what they remember about the event.

Of course you will have to scroll right to the bottom of the page.



Record 545

Event recorded - [15th February 1979 - 18th February 1979](#) at Nottingham, Burton Joyce

Document - ['DD/2617/29'](#) in repository Nottinghamshire Archives

Author - [Henry Louis Johnson Massey](#)