

GCSE Case Study: Storm Babet 2024

Elevated temperatures in the North Atlantic provided

additional energy to the storm.

Fill i	n the blanks:	18th October 2023	, Met Office,	Extratropical Cyclone,	Flooding,	Babet.
	Storm _	, an		,	hit the UK o	on
				the most severe storr		
cau	ısing widesp	oread	and	d damage. The storm	claimed th	e lives of
	seven peopl	e and was the s	second	named stor	m of the 20)23-24
	season.					
	ses:	fall:the description	mm.	Highest gusts of wind	l:	_
	Strong Jet	Stream	A significant lov	w-pressure system over th storm in.	ne UK helped	draw the
	Warm Sea Tempera			re area over Scandinavia eastwards, prolonging its	•	
	Low Pressu	re Area	A powerful j	et stream steered the sto	rm towards t	he UK.

Locations affected:

Blocking High

Pressure

Using an atlas, match the names of the locations most severely affected by the storm with their corresponding locations on this map:

Derry

Brechin, Angus

Aberdeen

Leeds

Derby

Nottingham

Retford

Sheffield

York







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Cut out the impacts of Storm Babet and categorise them by sticking them under the headings Social, Economic and Environmental impacts.

7 people died across the UK due to flooding and wind-related incidents.

Power Outages: Around 100,000 customers initially lost power, affecting homes and businesses. **Flooding:** Widespread flooding damaged rivers, lakes, and wetlands, displacing wildlife.

Infrastructure Damage:

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Significant damage to roads,
bridges, railways, and airports,
leading to transportation
disruptions. Leeds Bradford
Airport was closed on 20th
October after a large plane
skidded off the runway whilst
landing.

Landslides: Heavy rains from
Storm Babet triggered
landslides, causing damage
to forests and natural
habitats. For example, a slope
near houses at the base of
Chilwell Quarry collapsed
due to the intense rainfall in
October.

Debris and Waste: The storm caused extensive damage and debris, including hazardous materials. Over 750 tonnes of debris were removed from Sunderland's promenades and beaches after recent storms including Storm Babet.

Business Losses: Many businesses suffered due to flooding and power outages, resulting in job losses and economic downturns. Displacement: Hundreds of people were rendered homeless due to flooding and property damage. 1,250 properties in England were flooded. Soil Erosion: Soil Erosion:
Intense rainfall increased soil
erosion and disrupted local
habitats, affecting wildlife
and potentially reducing
biodiversity.

School Closures: Numerous schools across Cheshire, Norfolk, Suffolk, Yorkshire, Scotland and North Wales, were closed due to a "danger to life". Evacuations: Over 10,000 people were evacuated from their homes and forced to stay in temporary accommodation. Disrupting their daily life.

Agricultural Damage:

Flooding damaged crops and farmland, killed livestock, and resulted in significant financial losses for farmers, leading to disruptions in food supplies.

Cost of Damages: Estimates calculate the costs of damage due to Storm Babet to be between £450m - £650m.

pollution: Flooding spread pollutants from roads, industrial sites, and farms into rivers, contaminating water sources with harmful chemicals and affecting aquatic life.





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Reducing the Risk:

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