

# SUBJECT: Geography

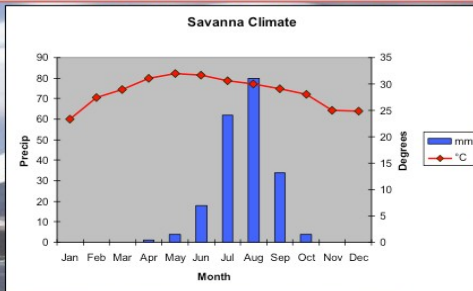
## UNIT: Year 7 World of Weather



**Climate is the average weather over 30 years.  
Weather is the day-to-day conditions of the atmosphere.**

A climate graph tells us the average temperature and rainfall of a place for each month of the year. Here is an example from the Savannah in Africa;

The red line shows us the temperature in degrees Celsius, it uses the right hand axis



The blue bars show us the Precipitation (rain, snow etc) in mm, it uses the left hand axis

Weather term...	Definition of the term...	Instrument that measures this is...	Units of measurement...
Precipitation	Water falling from the sky in any form	Rain Gauge	In millimetres
Temperature	Exactly how hot or cold it is.	Thermometer	Degrees centigrade
Wind direction	Where the wind is blowing from.	Weather Vane	As a compass point (e.g. N, S, W, E).
Wind speed	How fast the wind is blowing.	Anemometer	Kilometres or miles per hour.
Cloud cover	How much of the sky is hidden by clouds.	Observations	Oktas

### UK - Boscastle Flooding (HIC):

**Causes:** Over 75mm of rainfall fell in 2 hours, 200mm in one afternoon.

**Impacts:** 7 helicopters used to rescue people from roof tops, houses damaged, cars swept down stream.

**Responses:** Flood defence scheme – widen and deepened the river, moved the care park away from the river, added overflow drainage, removed trees and sediment away from bridges so water can flow freely.

### Bangladesh Flooding (LIC):

**Causes:** Monsoon rainfall every year

**Impacts:** houses washed away, crops and farms destroyed, contaminated water sources, people killed.

**Response:** German Red Cross provided money and plastic containers to help people keep food and water safe from contamination, by seeds to plant after the floods and try to protect their homes.

### Hurricanes!

Hurricanes are a climatic hazard which forms over oceans with temperatures of 26.5 degrees or warmer

**Social impacts of Katrina** – 1833 died, 1 million forced to evacuate, lack of food and clean water

**Economic impacts:** \$105 billion repair cost, loss of jobs, 30 oil platforms destroyed – loss of income

**Environmental impacts:** 80% of New Orleans flooded, beach erosion, raw sewage and toxic chemical in flood water

### What is an Ice Age?

An ice age is a period of global cooling where the earth's temperature decreases causing polar ice sheets and alpine glaciers to expand.

Within an ice age there are individual periods of cold climates (glacial) and also warmer periods (interglacial).

#### Causes of the Ice Age:

**Milankovitch Cycles** – Earth's orbit changes shape over 100,000 years.

**Sunspot activity** – The Sun's output changes – every 11 years it is more active, so more heat is released.

**Volcanic Activity** – Major eruptions can lead to a brief period of global cooling due to ash and dust in the atmosphere.