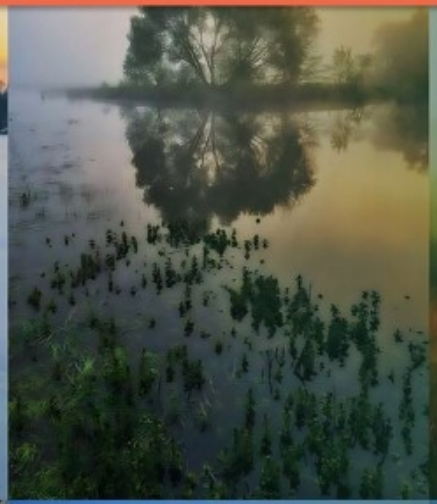

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CLASS – 7
SOCIAL SCIENCE
Exploring Society : India and Beyond
CH –3 : Climates of India
Part – 6
Climate and our Lives & Disasters
Sukhdeep Kaur

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OVERVIEW

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1. Weather, Seasons and the Climate
2. Types of Climates in India
3. Factors Determining the Climate
4. The Monsoons
5. Climate and our Lives
6. Climates and Disasters
7. Climate Change

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CLIMATE AND OUR LIVES

- Our lives are closely connected to and dependent on climate.
- Climate impacts are visible in local cultures.
- In India, many festivals are linked to:
  - Seasons
  - Agricultural activities.

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- Climate directly affects the economy.
- **Example :** 'Monsoon failure' refers to poor rainfall during the monsoon season.
- Leads to agricultural decline.
- People, especially women, may need to walk long distances for water.
- Agricultural labourers may migrate to cities.

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- Food prices (grains, vegetables, fruits) increase, causing inflation.



- Industrial activity often relies on:
  - Predictable weather
  - Water availability

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- Globally, there is a clear connection between climate and socioeconomic conditions.
- These conditions become especially strained during climate disasters.

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CLIMATES AND DISASTERS

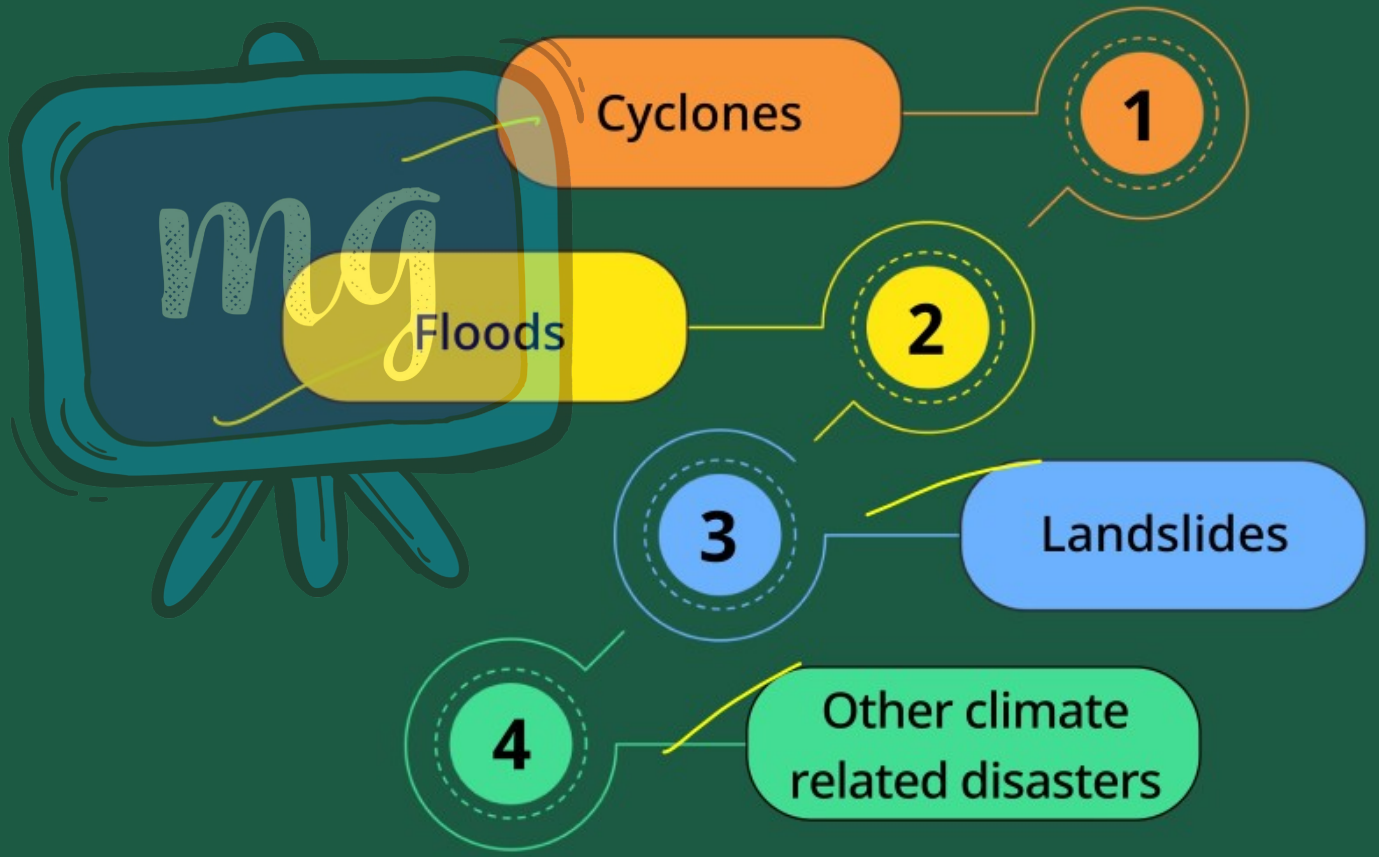
India's diverse weather patterns can lead to extreme conditions.



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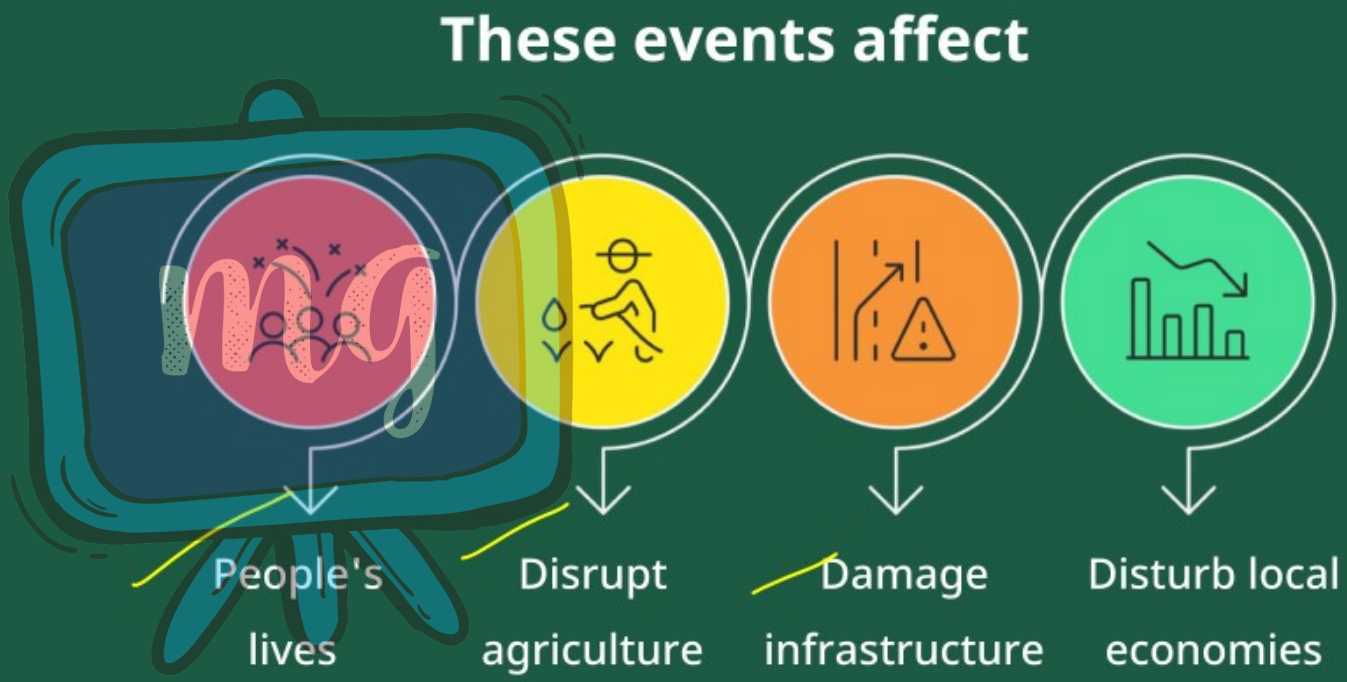
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Extreme Weather Conditions



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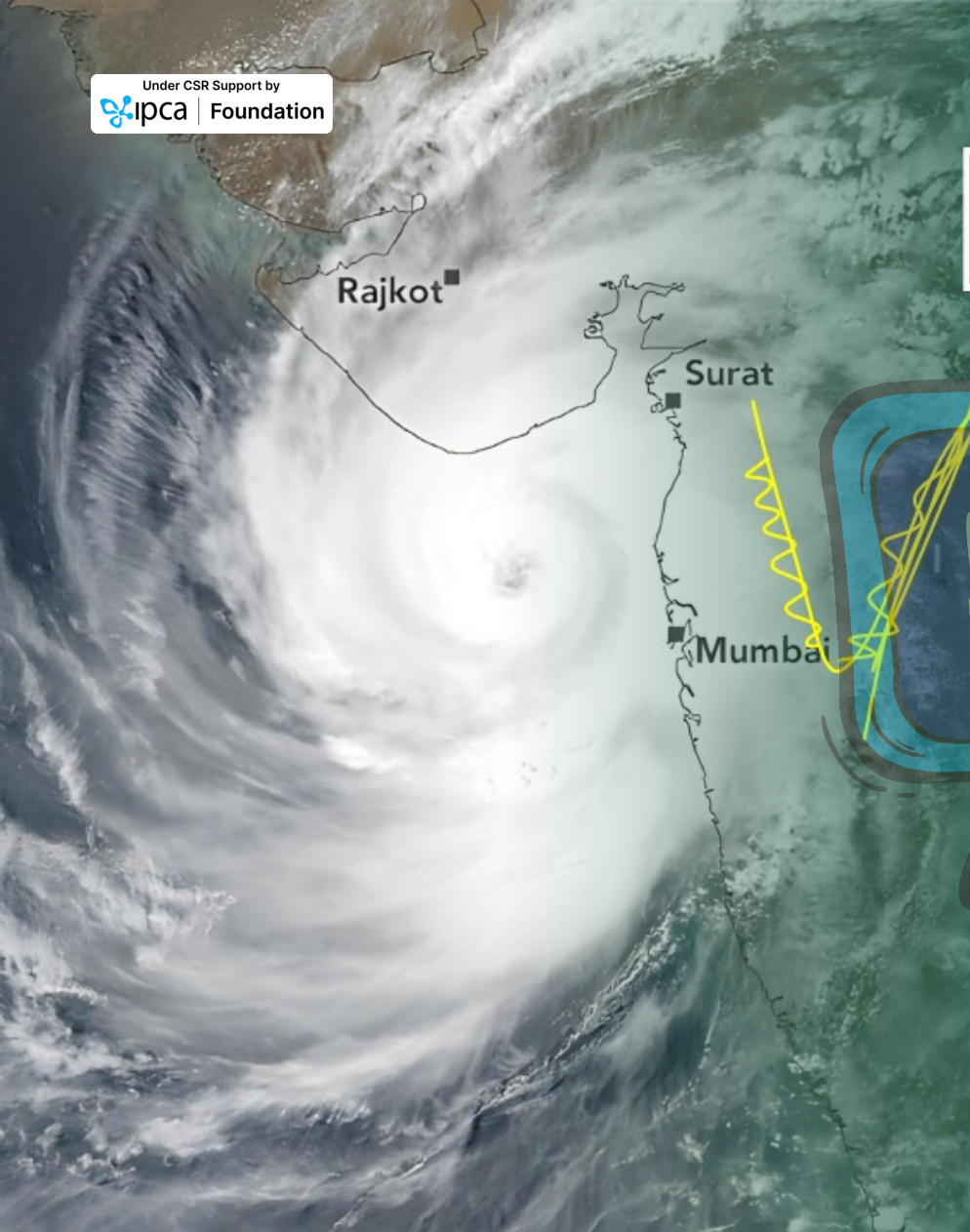
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CYCLONES



- Cyclones affect the Indian coastline every year, especially the eastern coast.
- Some past cyclones have been highly destructive, causing –

- Loss of human and animal life
- Damage to Property & Infra-structure
- Uprooting of trees
- Soil erosion

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The India Meteorological Department (IMD)

- Monitors cyclones
- Provides information on :
  - Formation
  - Evolution
  - Landfall

  location, etc.

सत्यमेव जयते

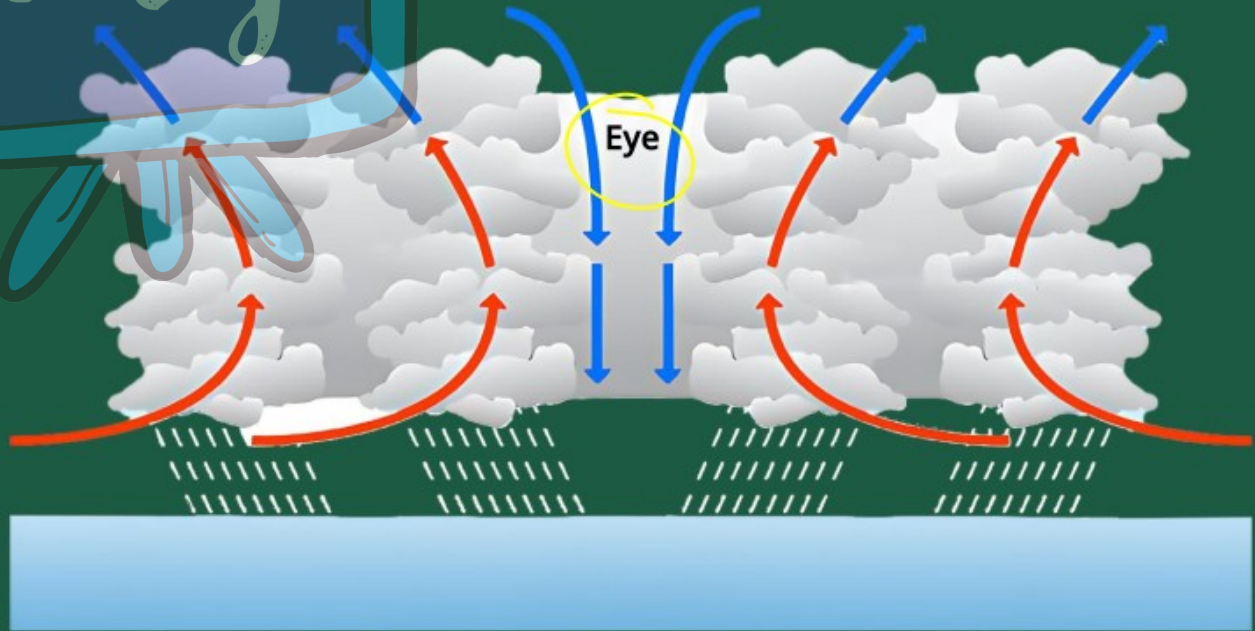
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT
आदित्यात् जायते वृष्टिः

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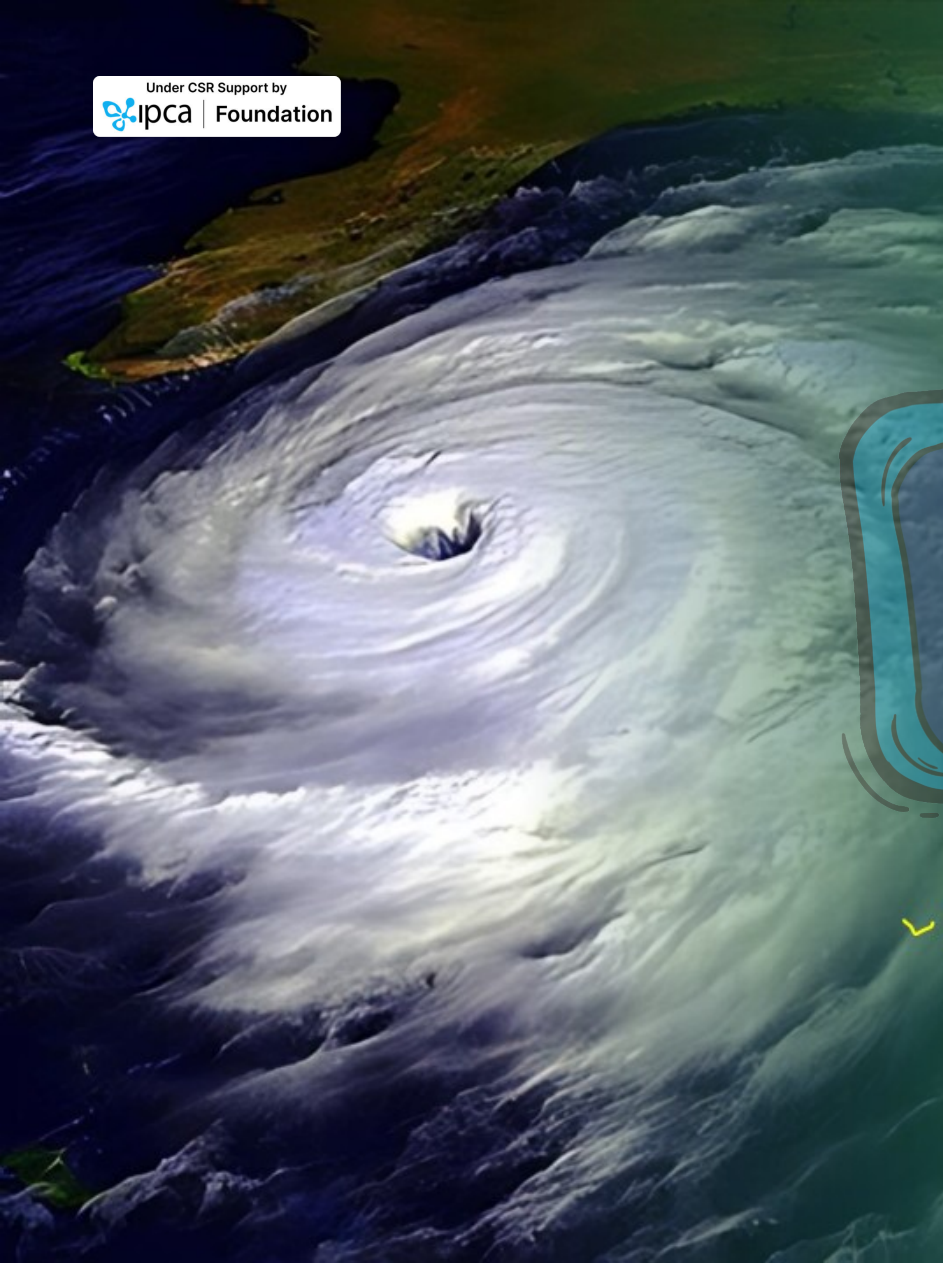
Cyclones form under special conditions when

- Atmospheric pressure near the sea becomes lower than surrounding areas.



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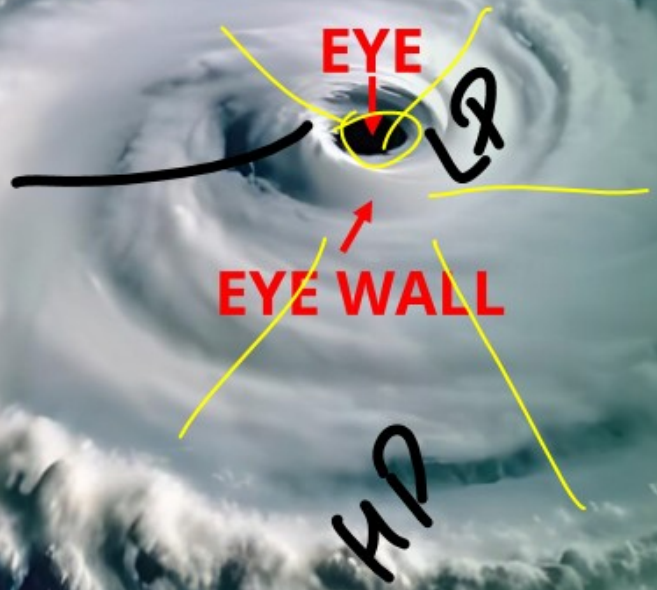
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- A low-pressure system is created.
- Air from surrounding areas rushes in to fill the low-pressure zone.
- Moist air from the sea moves in, bringing rain.
- If the low-pressure system intensifies and wind speeds increase, it can develop into a cyclone.

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- As winds gather moisture :
  - They form clouds.
  - Winds rotate inward toward the centre of the depression.
  - The centre of the cyclone is cloudless and is called the "eye of the cyclone".

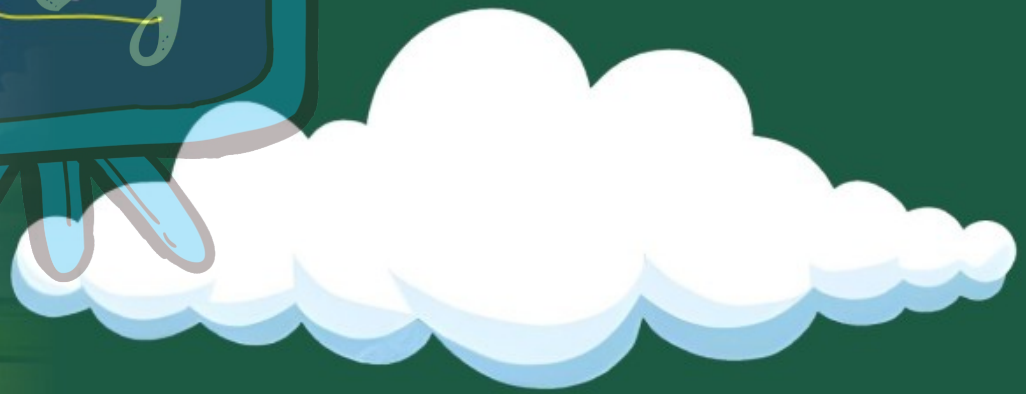
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LET'S EXPLORE

What are clouds?

☛ Commonly seen as white lumps in the sky.



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LET'S EXPLORE

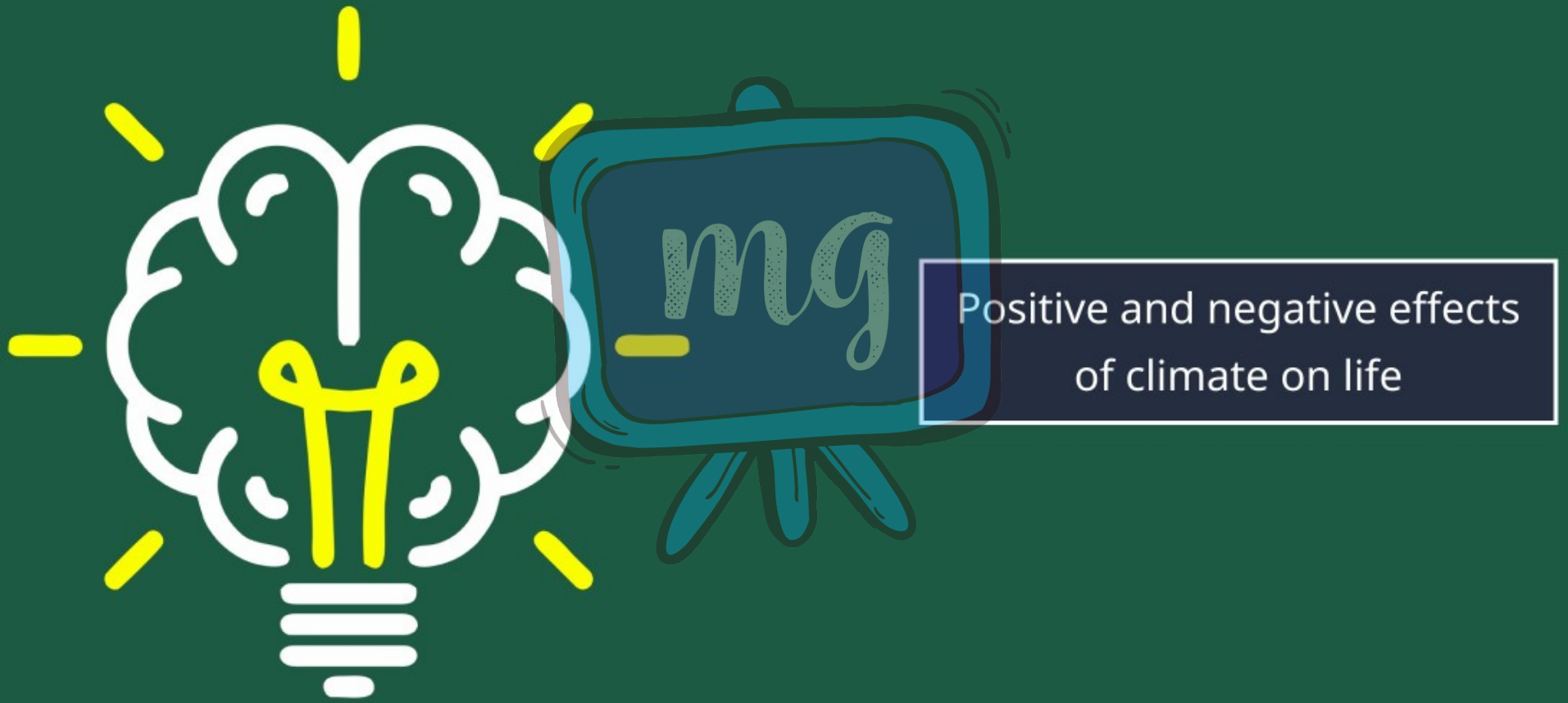
What are they made of?

- Simply put : water.
- More specifically, clouds are:
  - Masses of water droplets, Ice crystals or a mixture of both.
  - These are suspended in the atmosphere.

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LEARNING OUTCOME

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ASSESSMENT



1 How is climate closely connected to our lives?

A It only affects rural areas.

B It impacts local cultures, festivals, and agriculture.

C It affects only city infrastructure.

D It has no impact on daily life



2 Which of the following is not a result of monsoon failure?

A Agricultural decline

B Migration to cities

C Decrease in inflation

D Water scarcity