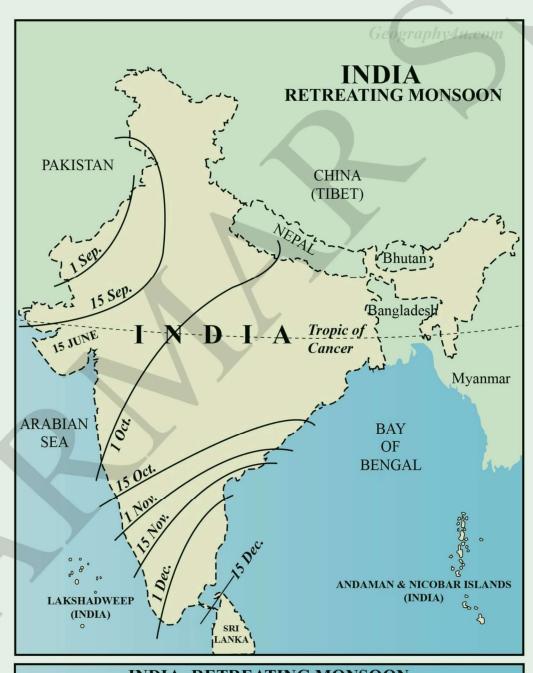
MONSOON



INDIA: RETREATING MONSOON

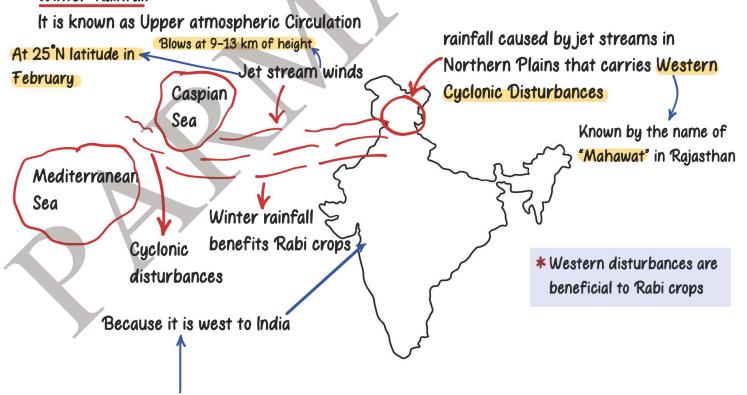


- Factors affecting climate of India
 - 1. Latitude
 - 2. Altitude
 - 3. Pressure and wind system
 - 4. Relief features
 - 5 Ocean Currents
 - 6 Distance from Sea
- Climate: the average weather in a given area over a longer period of time. Data taken of 30 years
- Weather: the term refers to temporary conditions of the atmosphere, including temperature, atmospheric pressure, wind, humidity, precipitation, and cloud cover

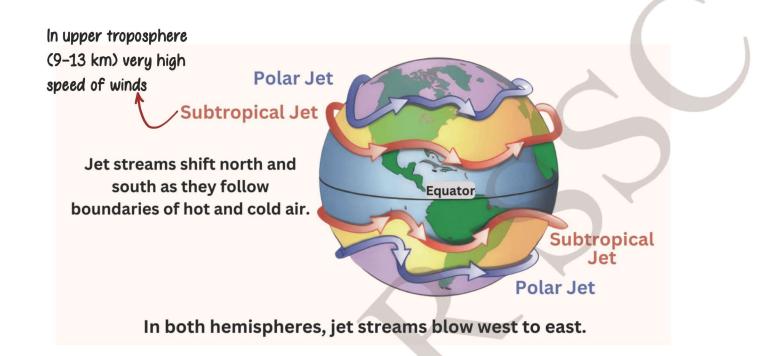
Winter Season

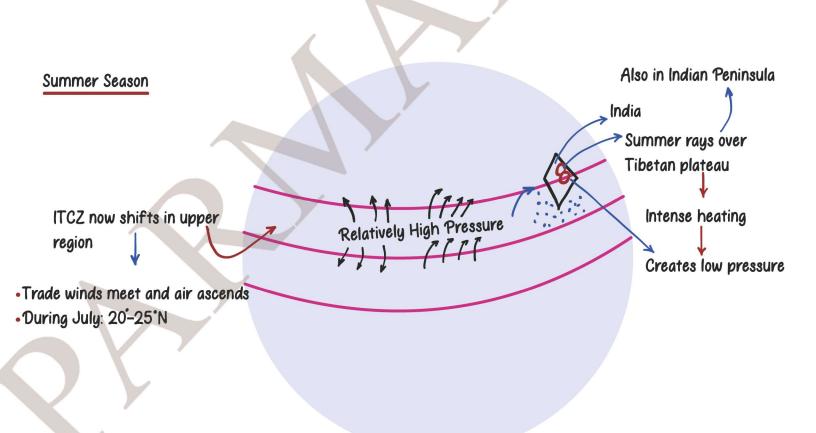
Chilling winds from Arctic/Central Asia affects winter season, but they are blocked to a certain extent by the Himalayas

Winter Rainfall

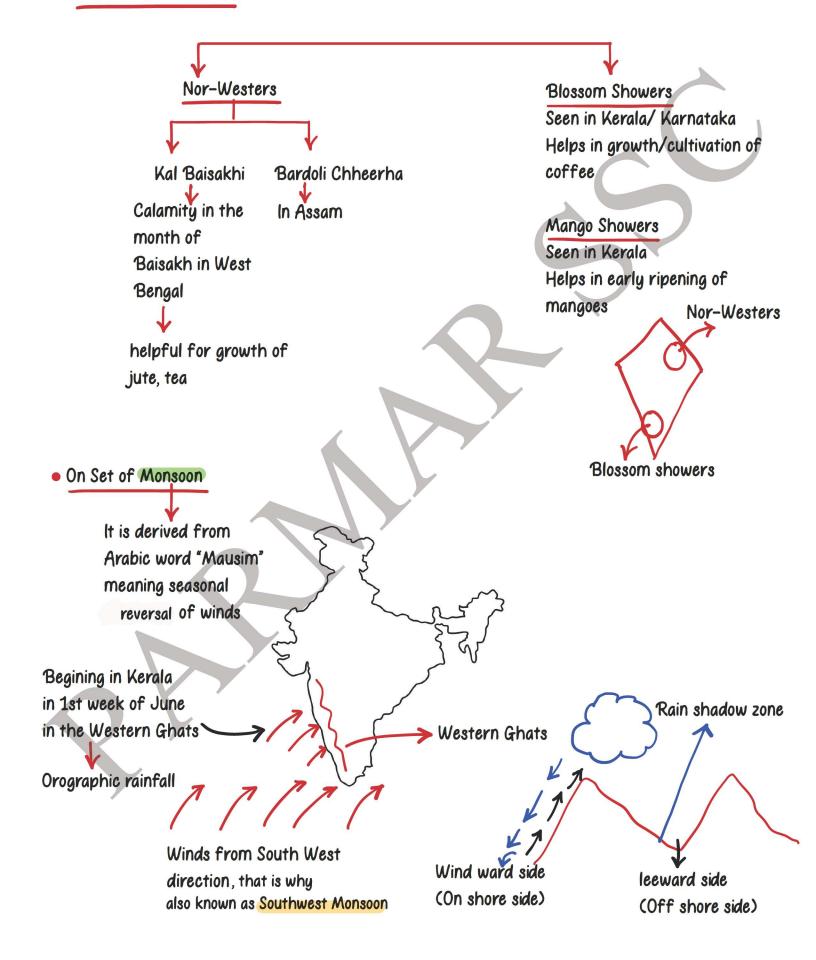


Inward of Western Disturbances through jet streams is marked by increase in prevailing night temperature

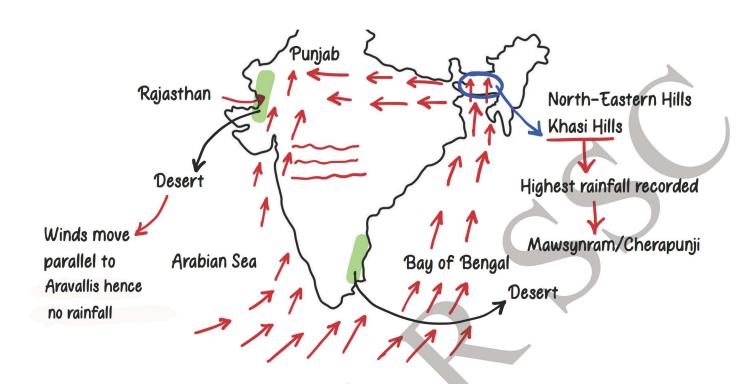












Bay of Bengal branch and Arabian Sea branch of South West Monsoon meet at Punjab

Break in Monsoon

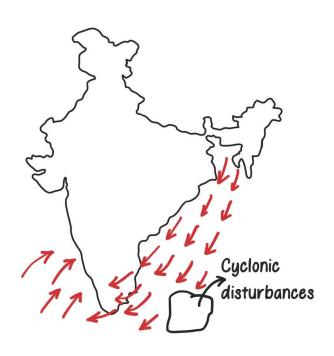
Sudden decrease in rainfall after the onset of monsoon

Retreating monsoon

Also known as North-East Monsoon and it causes rainfall over Coromandel coast (Tamil Nadu/Andhra)

In North India

- · Clear skies
- October heat: oppressing heat



Warm current



Typical Wintertime Pattern

EINIÑO

North East winds weakens thus water returns

Low Pressure

Low Pressure

Adversely affects the monsoon

La Nina

Meaning: Small girl

Below average sea surface temperature in east-central equatorial Pacific (cold phase on ENSO cycle)

Trade winds strengthen, pushing warm water westward

Seen every: 2-7 yrs

Leads to cooler global temperatures

It can cause intense rainfall in Australia and India along with heavy floods; drier conditions in South America

Fishing industries will flourish

El Nino

Meaning: Child Christ/Small boy

Above average sea temperatures in east-central equatorial Pacific (warm phase of ENSO cycle)

Trade winds weaken, allowing warm water to spread eastwards

Seen every: 3-7 yrs

Leads to warmer global temperatures

It can cause droughts in Asia and Australia and in the US, El Nino has its strongest impact during winter

Fishing industries won't flourish



Variation in Temperature/Rainfall

- 1. Diurnal Range of Temperature: Daily range of temperature
- 2. Annual Range of Temperature
- 3. Annual Range of Rainfall

More in the interior of
Continents and less in the
the coastal cities

The far we go from Ocean into the
Continent, the more is the extremity in
the climate due to the continentality
effect

Extremities of
Climate not
seen

Coastal cities do not experience extreme climate due to "moderating influence of sea"

Seasons and Months

