

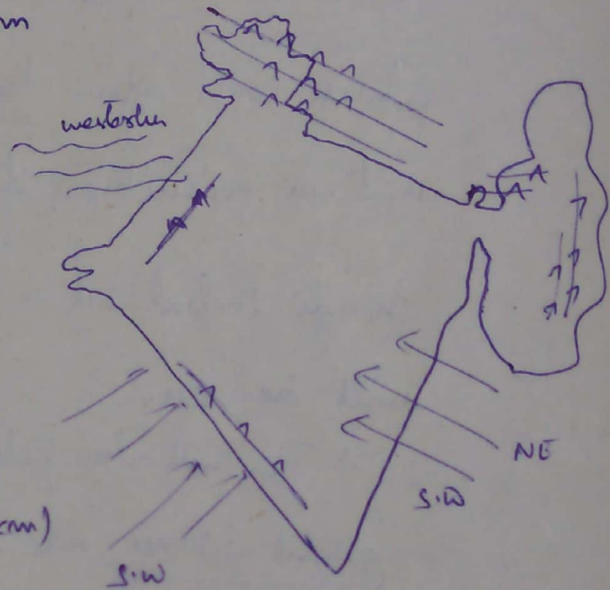
10) Discuss the spatial & temporal variation of rainfall in India. Has the pattern been changing in recent years? Examine.

India being seventh largest country, given its latitudinal & longitudinal stretch, geographical settings it faces both spatial and temporal variation of rainfall.

Avg rainfall in India is 125cm

Spatial Variation

mainly due to geographical terrain as seen aside



① Areas of high rainfall (> 200cm)

western coast area, Areas near Himalayas, Sub-Himalayas of North East

② Areas of medium (100-200cm)

eg. States like Bihar, Chhattisgarh, Jharkhand, Eastern U.P

③ Areas of low rainfall (50-100cm)

eg. Delhi, Haryana

④ Areas with scant/no rainfall (< 50cm)

eg. Ladakh, western Rajasthan, interior part of Deccan plateau.

Temporal Variation of Rainfall

(1) Cold weather season (winter)

Rainfall happens in NW India particularly Punjab, Haryana because of westerlies that bring moisture from middle East (Bengal cyclone)

(2) Hot season

Rainfall occurs because of influx of different temperature masses

(3) Monsoon (SW)

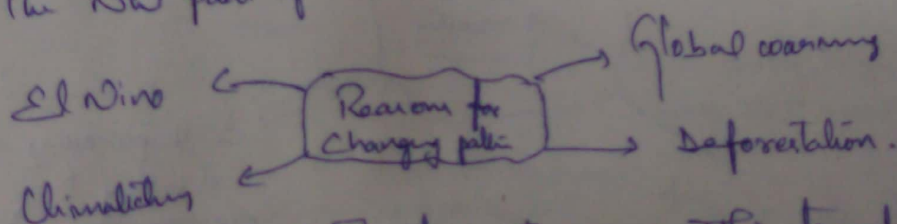
Summer rainfall because of SW (southwest) monsoon across the Indian Subcontinent

(4) Retreating monsoon (NE)

less rainfall, mostly concentrated in the Eastern part of Tamil Nadu.

Changing pattern of rainfall in recent years

- 1) IMD report has revealed that monsoons will be delayed this year.
- 2) More rains over NW & NE parts of India than the peninsular part.
- 3) More "breaks" in the monsoon rainfalls.
- 4) And the rainfall breaks are drifting more towards the NW part of India.



* Therefore need of the hour to reverse this trend is to follow NAPCC & its eight missions in both letter and spirit.