

Geography
Discuss the factors that affect Indian Mansoon and explain its mechanism.
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Answer
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Factors affecting the Indian Monsoon and Its Mechanism
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Physiography
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\n 1. Existence of the Himalayan and the Tibetan plateau: \n
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$^{\mbox{\sc h}}$ • The jet streams that lie about 12 km in the troposphere are bifurcated by the Himalayan Mountains and the Tibetan Plateau $^{\mbox{\sc h}}$
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\n 2. Triangular relief structure of south Indian land mass: \n
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\n • This results in two branches of south west monsoon. \n

• The Arabian Sea branch covers more area than the Bay of Bengal branch

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Temperature

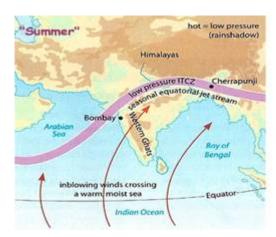
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• Movement of ITCZ.

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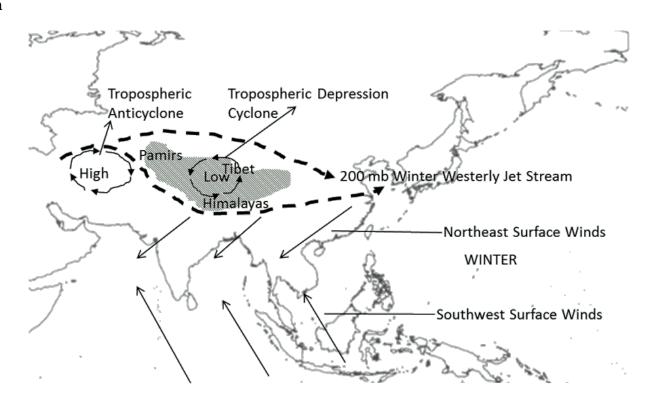
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• The differential heating and cooling of the landmass of Asia and the Indian Ocean.

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 \bullet Strong vertical air currents from Tibetan plateau. $\ensuremath{\backslash n}$

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Direction of rain bearing winds

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 \bullet Movement of westerly jet streams to the north of Himalayas.

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 \bullet Presence of easterly jet streams in the Indian peninsula.

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Seasonal distribution of rainfall

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ullet Rainfall is mostly dependent on the monsoonal seasons

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Amount of rainfall

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 \bullet It is not same all over India, it depends upon origin of monsoonal winds. $\ensuremath{\backslash} n$

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Form of precipitation

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• The occurrence of heavy-light snow over the Himalayan region, due to artic cold winds.

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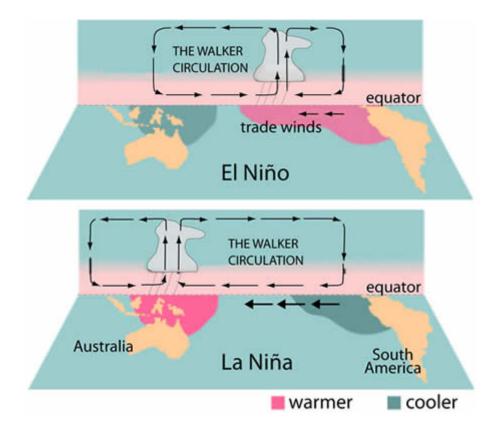
Global climatic phenomenon

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• El Nino and La Nina.

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 \bullet High pressure area in East of Madagascar-It lies in the path of SW monsoonal winds. $\ensuremath{\backslash n}$

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