

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 2. <b>Triangular relief structure of south Indian land mass:</b> \n
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 $\bullet$  This results in two branches of south west monsoon.  $\ensuremath{\backslash n}$ 

 $\bullet$  The Arabian Sea branch covers more area than the Bay of Bengal branch  $\ensuremath{^{\backslash n}}$ 

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# **Temperature**

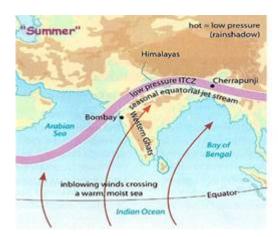
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• Movement of ITCZ.

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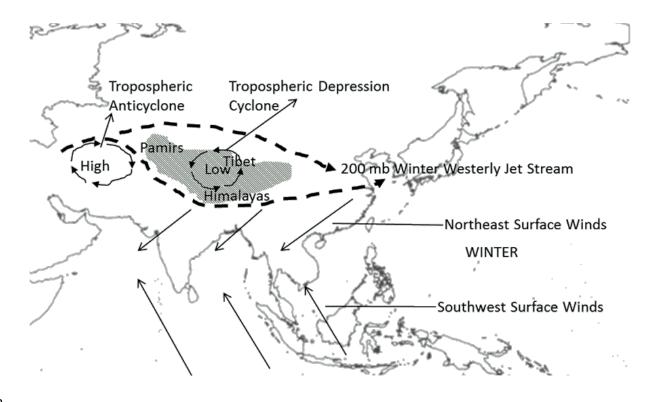
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• The differential heating and cooling of the landmass of Asia and the Indian Ocean.

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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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- Movement of westerly jet streams to the north of Himalayas.
- $\bullet$  Presence of easterly jet streams in the Indian peninsula.  $\ensuremath{\backslash n}$

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#### Seasonal distribution of rainfall

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 $\bullet$  Rainfall is mostly dependent on the monsoonal seasons  $\ensuremath{^{\backslash n}}$ 

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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.  $\mbox{\ensuremath{\backslash}} n$ 

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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

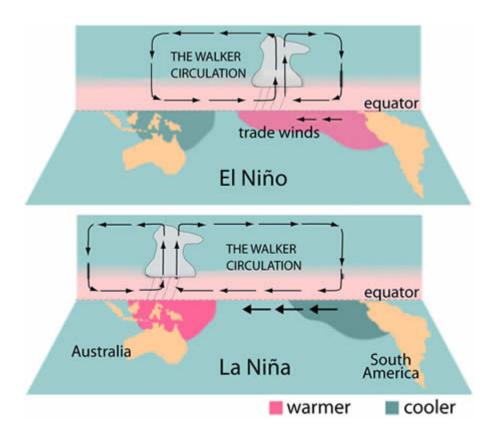
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• El Nino and La Nina.

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• High pressure area in East of Madagascar-It lies in the path of SW monsoonal winds.

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