

Hw

# Climate

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1) Describe el-Nino Mechanism in your own words.

- EL Nino is a Phenomenon in which a warm ocean current that blows past the Peruvian coast, in place of the cold Peruvian current every 2-5 years.
- In Normal Situation Tropical eastern South Pacific experience high Pressure and tropical Pacific Ocean experiences low Pressure.
- Strong easterlies blows & ocean current is governed by them, further Phenomena are followed by this in a cyclic manner. But when the Pressure conditions got reversed it is called Southern Oscillation.
- Southern Oscillation - it is a Phenomena when normal wind pattern / Pressure condition changes over the Pacific Ocean.
- If the Solar Insulation is weak in some year, this lead to weak high Pressure in S-E Pacific Ocean & High Pressure in Western Pacific Ocean. Thus changing direction of surface wind, climate & precipitation changes.



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→ El Niño effect is the natural phenomenon in which a warm ocean current that blows past the Peruvian coast, in place of cold Peruvian every 2-5 years.

2) How presence of Tibetan Plateau influence arrival of monsoon in India?

- The Tibetan Plateau get intensely heated during summer.
- This result in strong vertical air current rising up.
- This creates a low pressure & attract high pressure, thus influences the arrival of monsoon in India by attracting high pressure wind.

3) What are "Jet Streams"?

Jet Streams are the air currents which blow very high from the land.