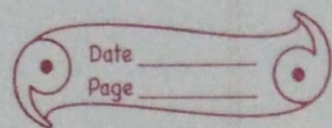


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8/11/21

Home Work



1) Describe the El Nino mechanism in own words.

development

- El Nino refers to the periodic, of a warm ocean current along the coast of Peru as a temporary replacement of the cold Peruvian current

easterly

- Once in every 4 years, the trade winds weakens to be able to push the Peruvian cold currents to the western hemisphere.

- In this period the Peruvian current along with other hot and cold ocean current changes its direction.

, moves clockwise,

- The Peruvian current reverses, and carries cold moisture from Antarctica, takes to the equator, warms it and brings back the warm water to Peruvian coast creating a low pressure and causing rainfall in most of the deserts like Atacama Desert.

- This occurs mainly in the Pacific and Indian ocean causing rains in western dry parts / deserts of countries like the Thar desert.

This is the mechanism of the El Niño effect that causes an increase in surface-area temperature of the Pacific ocean and causes rainfall in most of deserts of the world.

2) How does the presence of Tibetan plateau influence the arrival of monsoon in India?

The Tibetan plateau have a very high altitude and is a vast plateau with broad and non-tapering peaks.

Due to its high altitude and non-tapering peaks it gets intensively heated during the summers which results in strong vertical air currents and formation of low pressure above the Tibetan plateau.

This low pressure area attracts the moisture carrying ocean current from Madagascar area helping to boost the arrival of monsoon in India.

3) what are jet streams?

The narrow belt of westerly winds in the troposphere whose speed varies from about 110 km/h in summer to 189 km/h in winters