



LA NINA : GEOGRAPHY

NEWS: La Nina to take root in September; North India may witness heavy rain

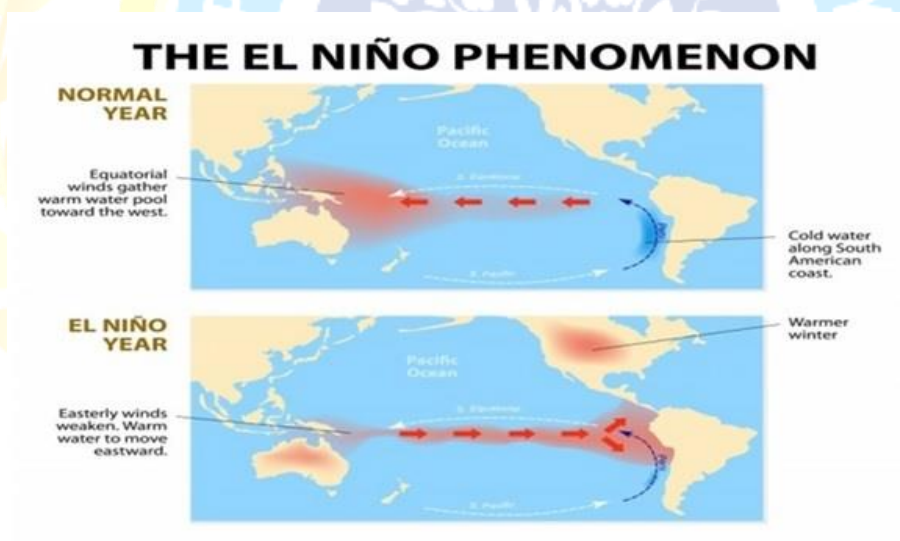
WHAT'S IN THE NEWS ?

IMD Forecast:

- **September Monsoon:** IMD forecasts heavy rainfall in North India due to La Niña.
- **Cyclonic Activity:** Vigorous cyclonic activity expected in the Bay of Bengal.
- **Rainfall:** Monsoon rainfall in September expected to be 9% above normal (16.8 cm).

El Niño:

- **Definition:** El Niño is a climate phenomenon linked to periodic warming in sea surface temperatures across the central and east-central Equatorial Pacific.
- **Impact on India:**
 - Associated with high pressure in the western Pacific.
 - Adversely affects Indian monsoons, leading to below-average rainfall and lower crop yields.

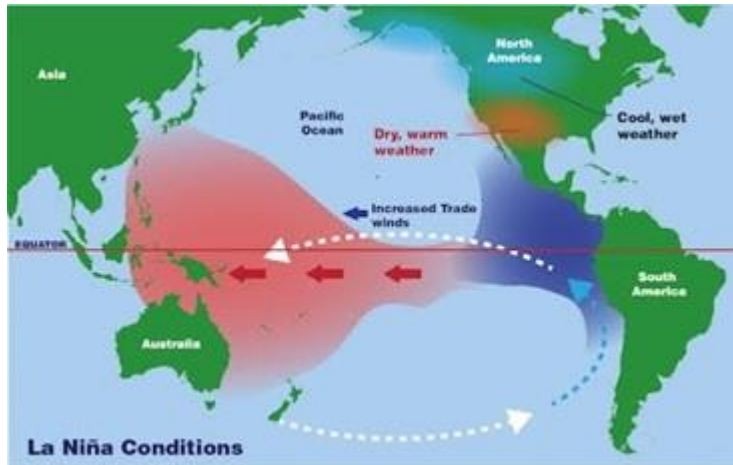


La Niña:

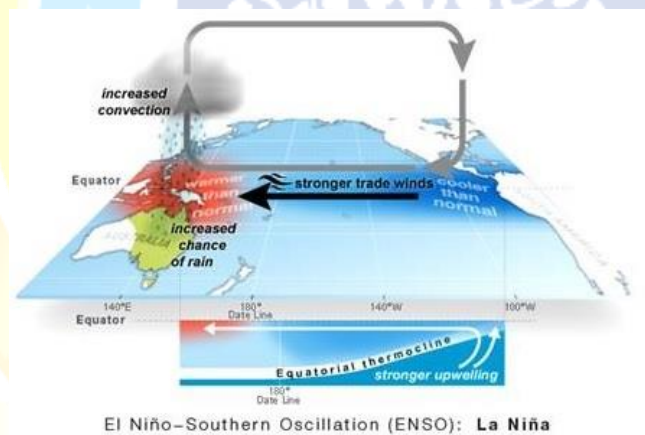
- **Definition:** La Niña is the large-scale cooling of ocean surface temperatures in the central and eastern equatorial Pacific Ocean, opposite to El Niño.
- **Impact on Weather:**
 - Increases rainfall in India, potentially leading to floods.
 - Reduces intensity of the South West Indian Ocean Tropical Cyclone season.
 - Causes drier conditions in East Africa and below-average rainfall in the Horn of Africa and central Asia.



ENSO Cycle:



- **Definition:** ENSO is a periodic variation in winds and sea surface temperatures over the tropical eastern Pacific Ocean.
- **Phases:** El Niño (warming phase) and La Niña (cooling phase) are opposite phases of the ENSO cycle.
- **Global Impact:** These deviations can significantly impact ocean processes and global weather patterns.



Source : <https://www.thehindu.com/sci-tech/energy-and-environment/indias-august-rainfall-16-higher-than-normal-imd/article68589445.ece>