

What are El Niño & La Niña? How far does it impact global weather & India? How does it set to impact ENSO cycle.

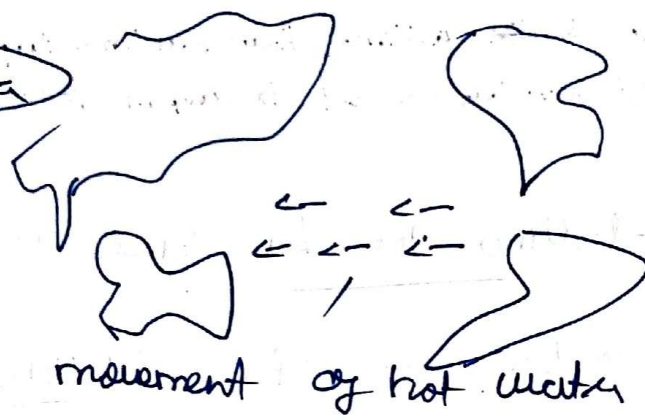
El-Niño and La-Niña constitute the two cycles of the El-Niño Southern Oscillations (ENSO). These two phenomena impact the global weather patterns.

El-Niño  → In El-Niño the warm waters (movement of hot water) move from western Pacific to central and Eastern Pacific.

* It is caused due to the weakening of trade winds and colder water moves in the western Pacific.

* Reduces upwelling of nutrient rich water reducing fish catch along South America.

La-Nina



* It is the opposite of El-Nino where normal conditions are intensified (i.e. the trade winds get stronger).

* Warm water piles up along the western pacific and cold water along the east.

After a triple dip La-Nina, the El-Nino tricked in on June 23 again it is being reversed.

La-Nina impact

① on global weather

* It causes floods along the south-east asia, Vietnam and Indonesia

see increased flooding in these conditions

* Drought like conditions prevail over South American coast due to ~~anticyclone~~ subsidence of air from above.

India : It results in increased south west monsoon and availability of water.

* Though some parts of the country face lesser rainfall and water shortage conditions.

Climate change Impact

* Increased global warming and warming of ocean currents exacerbates the cycle of ENSO along with increasing frequency.

ENSO and La-Nina are important meteorological metrics that are to be tracked which can help in alerting the masses.