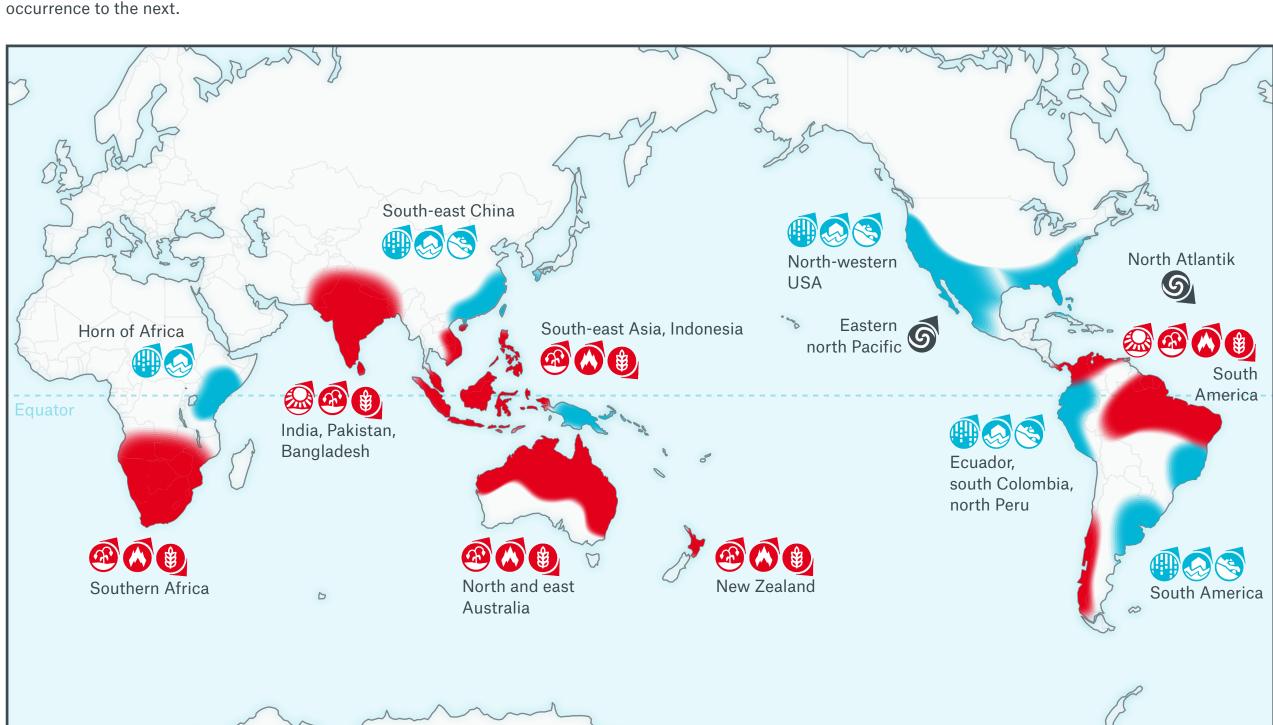
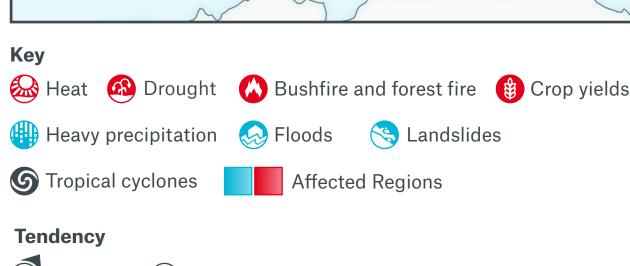
How El Niño impacts our weather

Experts believe that the weather phenomenon, El Niño, is very likely to occur this year. What will this mean for global weather?

El Niño and its global effects

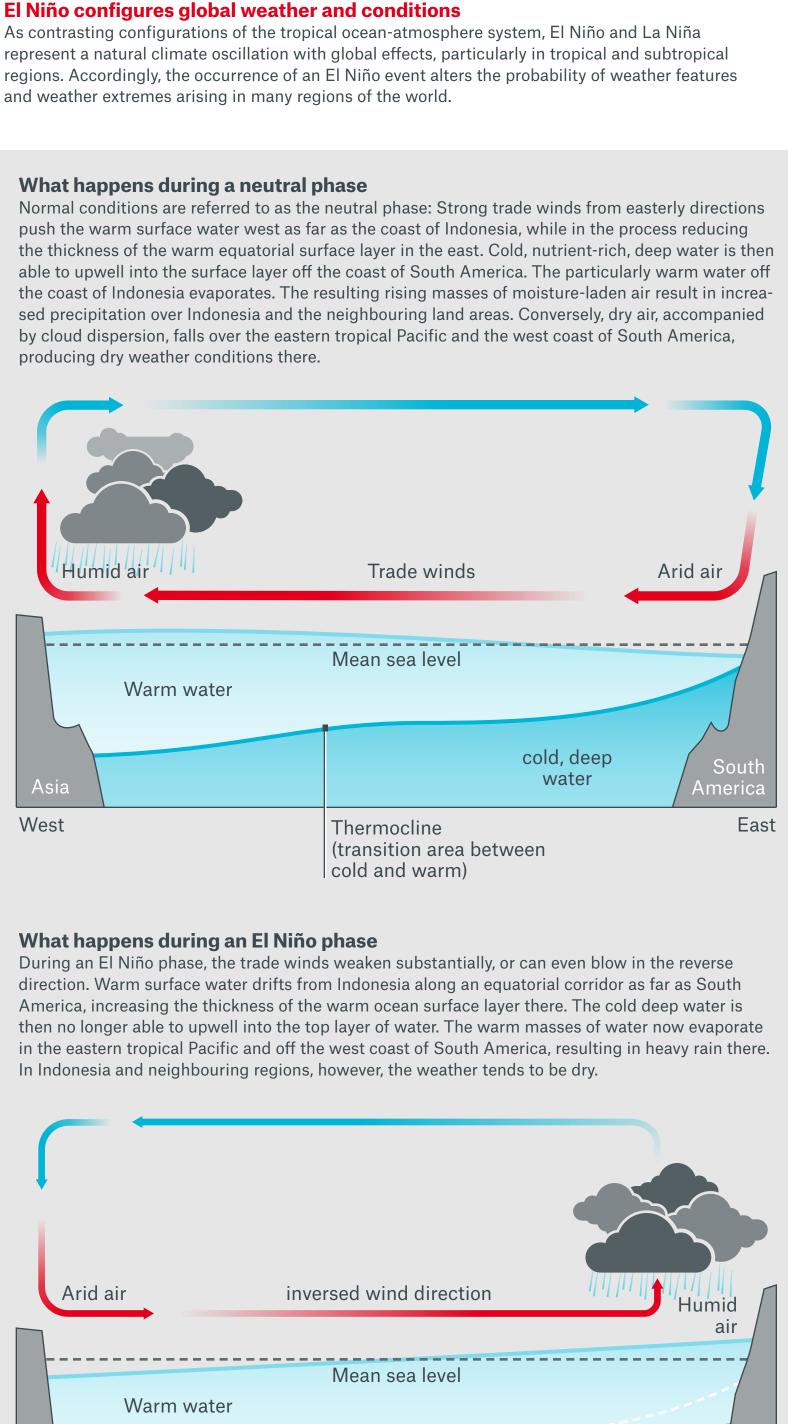
El Niño can alter weather conditions in many parts of the world. Its effects include: hot weather, droughts, forest and bush fires, heavy rain and subsequent flooding, landslides and many more. El Niño even influences the activity of tropical cyclones. In the tropical Atlantic, the statistical average declines, but it increases off the Pacific coast of Mexico. More severe typhoons occur in the northwest Pacific. And each El Niño is different, with the effects and their intensity varying from one

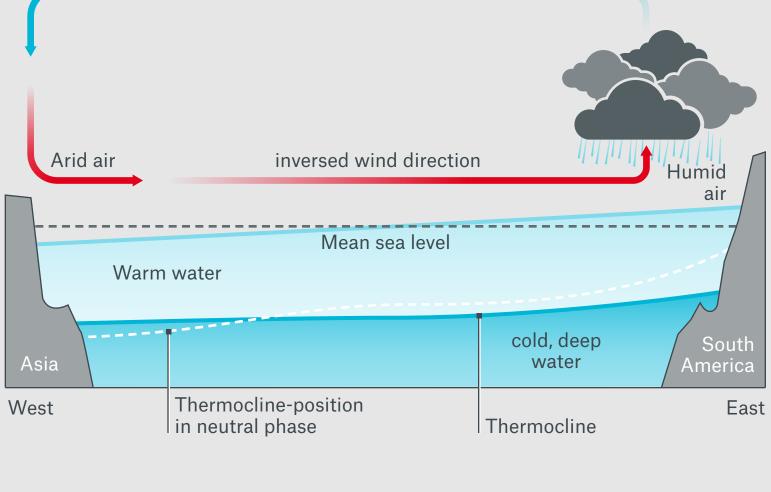




Decrease

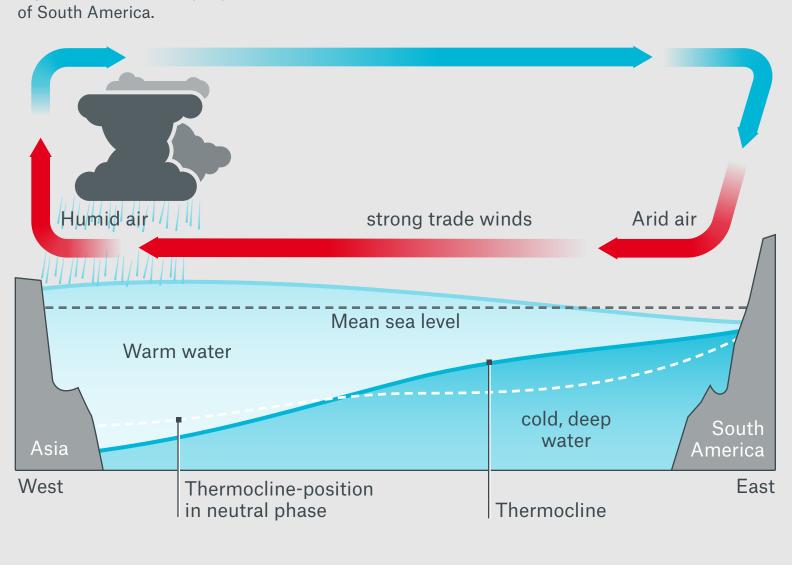
Increase





What happens during a La Niña phase The overall pattern is similar to the neutral phase, the only difference being that the trade winds

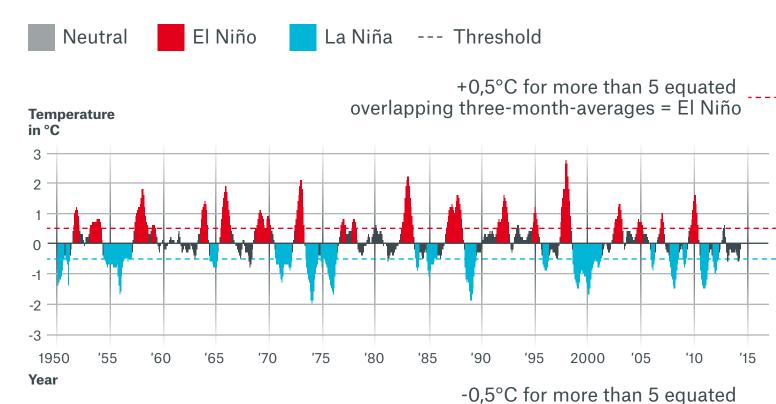
blow more strongly from easterly directions. The thicker layer of warm surface water that has been pushed by wind shear along the equator close to the coast of Indonesia to form the thick end of a wedge results in significantly increased precipitation along the coast of Indonesia and neighbouring regions, while extremely dry weather prevails in the eastern tropical Pacific and on the west coast



Is it possible to predict El Niño or La Niña? Modern dynamic and statistical prediction models are able to predict the probability of an El Niño or La Nina event up to six months in advance with an impressive level of accuracy. However, it is not

yet possible to predict the maximum intensity with any degree of accuracy. The long-term effects on other regions can only be roughly predicted because other factors are also in play. Many aspects of the question of how exactly an El Niño event is triggered are still the subject of research.

Anomalies in the Pacific mean surface temperature Source: NOAA Center for Weather and Climate Prediction



overlapping three-month-averages = La Niña