

# **El Niño and precipitation extremes in Peru**

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El Niño has been associated with extreme precipitation in the northern coast of Peru due to unusual sea surface temperature warming in the eastern equatorial Pacific and neighboring the northern coast, with disastrous socioeconomic effects. On the other hand extreme precipitation deficits in other locations of Peru have been also observed. Similar events observed in different areas of the globe have been related to El Niño-Southern Oscillation.

The results of the study that will be presented suggest that in regions where the relationship between El Niño events and precipitation is strong, the forecasting of significant precipitation anomalies using the forecast of SST has potential benefits and capabilities for reducing the negative effects of these events.