Team Members:
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Data:
http://www.sercc.com/cgi-bin/sercc/cliMAIN.pl?nc7079

http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ensoyears.shtml

Summary of Project:
Using the ocean temperature variances recorded at the equator in the Pacific Ocean from 1971-2000, we will compare the El Nino and La Nina oscillations to the average temperature and precipitation in Raleigh, NC. We will try to find a correlation between the weather in Raleigh and the El Nino/La Nina occurrences in the Pacific Ocean. We would like to know how El Nino/La Nina effects the temperature in Raleigh. We would also like to know how El Nino/La Nina effects precipitation in the Raleigh area. Finally, we would like to know the scale of variance in temperatures and precipitation amounts in the Raleigh area on average compared to El Nino/La Nina periods. Our intended statistical methods could include the normal distribution, likelihood functions, conditional probabilities, correlation functions, mean functions and variance functions.