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THE EFFECTS OF EL NINO ON MID-MICHIGAN CLIMATE

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Abstract of Poster: This study examines the statistical significance of the El Nino/La Nina phenomenon with regards to its effect on mid-Michigan climate. Minimum, maximum and average daily temperatures were examined from 1948 through 2001 in Alma and Mt. Pleasant, Michigan. El Nino/La Nina years are defined by a 0.5C increase/decrease in sea surface temperature in the Nino 3.4 region. A first order Autoregressive AR(1) model in a multiple linear regression context was selected and utilized. In addition, model diagnostics, overall model results, and confidence intervals of the phenomenon are examined.