

Is Florida getting warmer?

November 26, 2025

Data of Florida annual mean temperatures were collected for a century (100 years) between 1901 and 2000. The annual mean temperatures ranges from 23.75 to 26.35 degree Celsius, with a mean of 25.31 ($SD = 0.50$).

The Pearson correlation coefficient of annual mean temperatures between successive year pairs was 0.53, showing a positive correlation. As figure 1 shows, the annual mean temperature increases as year progresses. The correlation was statistically significant with an approximate p-value < 0.01 , calculated from permutation analysis (simulation time = 10000).

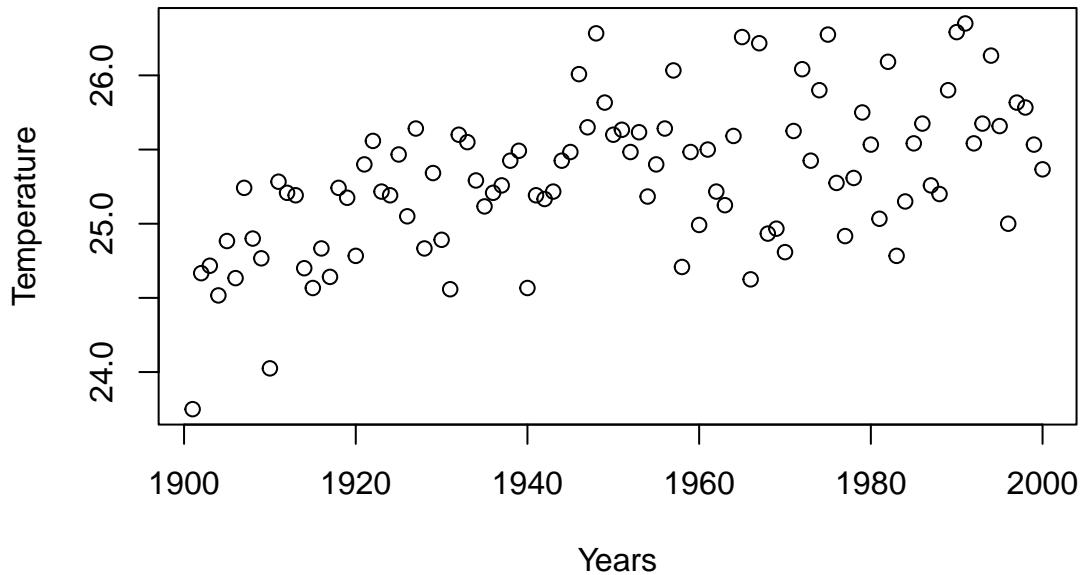


Figure 1: Relationship between Florida annual mean temperatures and time. Each point represents the mean temperature responding to its year.