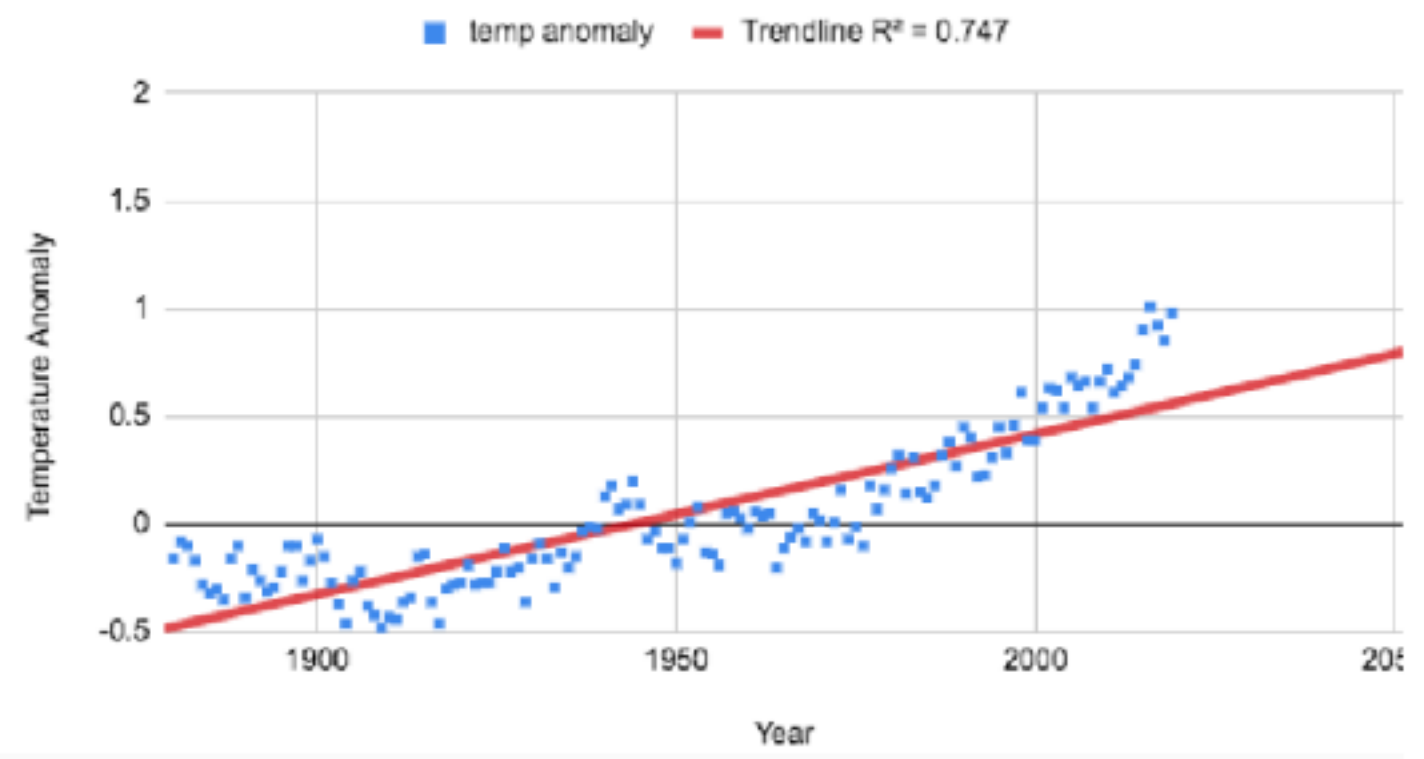
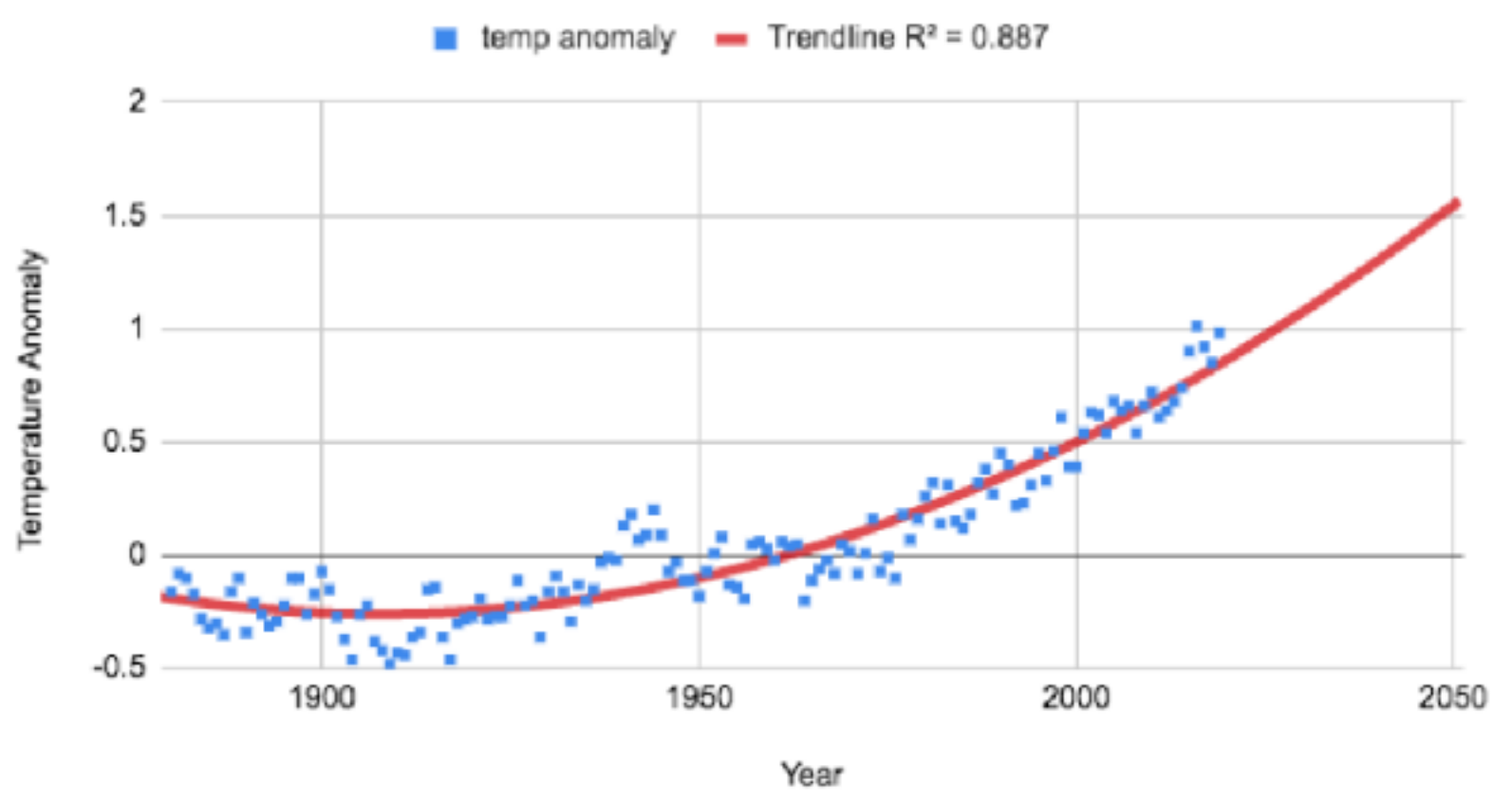


value year 2050: 0.79-0.8 degrees

Temperature Anomalies From 1880-2019 & Predictions



Temperature Anomalies From 1880-2019 & Predictions



Decade	Average	Standard deviation
1880-1889	-0.2	0.1
1890-1899	-0.23	0.083
1900-1909	-0.23	0.14
1910-1919	-0.31	0.11
1920-1929	-0.24	0.067
1930-1939	-0.12	0.088
1940-1949	0.044	0.12
1950-1959	-0.048	0.11
1960-1969	-0.029	0.085
1970-1979	0.034	0.1
1980-1989	0.25	0.091
1990-1999	0.39	0.12
2000-2009	0.59	0.088
2010-2019	0.81	0.15

Calculate Mean of Distributions A & B

Distribution A

Mean (Average):

Standard Deviation:

Number of Events:

Error on Mean:

Distribution B

Mean (Average):

Standard Deviation:

Number of Events:

Error on Mean:

Result:

Average of Two Means:

Standard Deviation of Average:

Difference of means (in units of standard deviation):

Z-statistic = 9.62 which is over 3 so it is highly statistically significant.

Distribution A: 1991-2015

Distribution B: 1965-1990

Distribution A

Mean (Average):

Standard Deviation:

Number of Events:

Error on Mean:

Distribution B

Mean (Average):

Standard Deviation:

Number of Events:

Error on Mean:

Result:

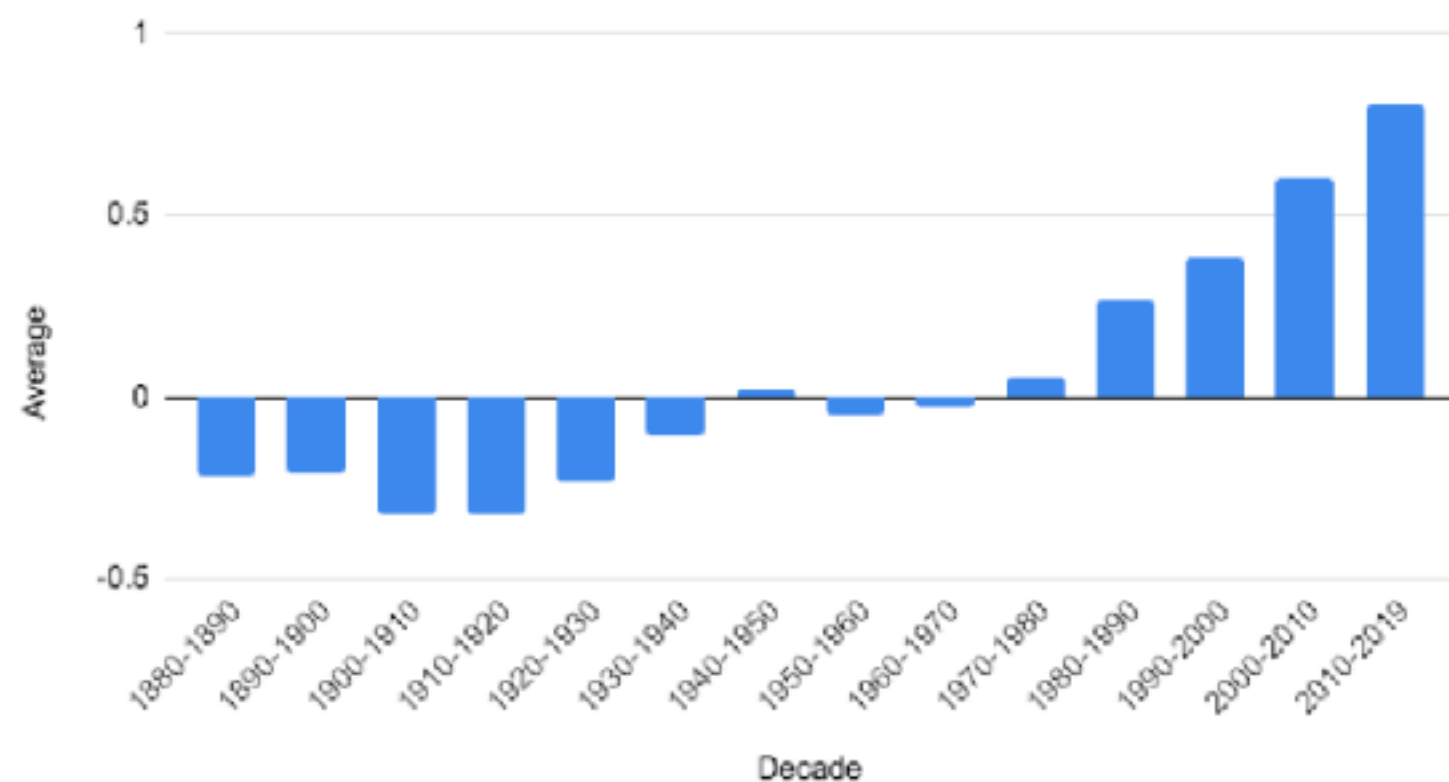
Average of Two Means:

Standard Deviation of Average:

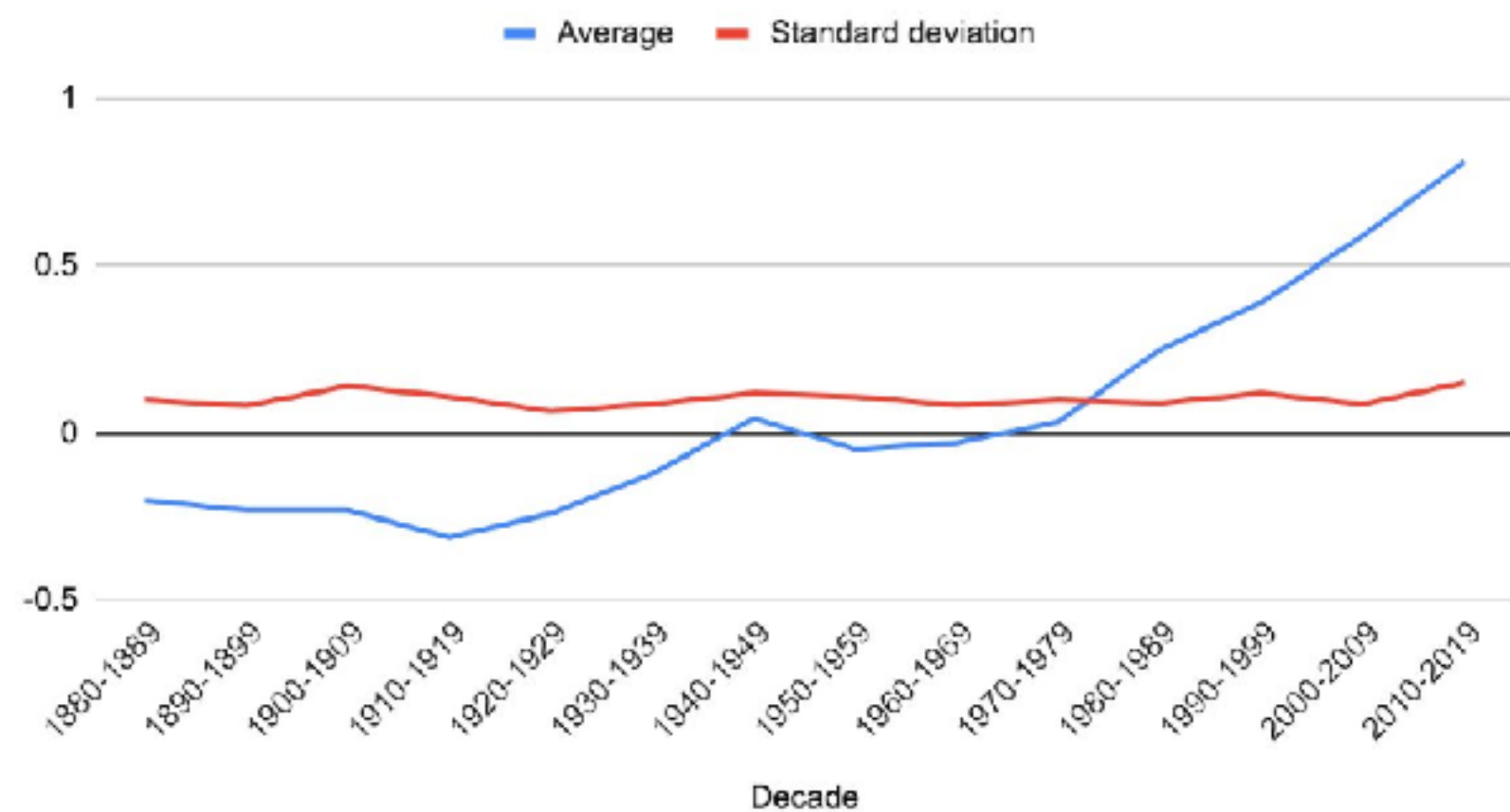
Difference of means (in units of standard deviation):

The Z-test came up with a value of 11.9 standard deviations, suggesting an incredibly significant difference between the two 25 year periods.

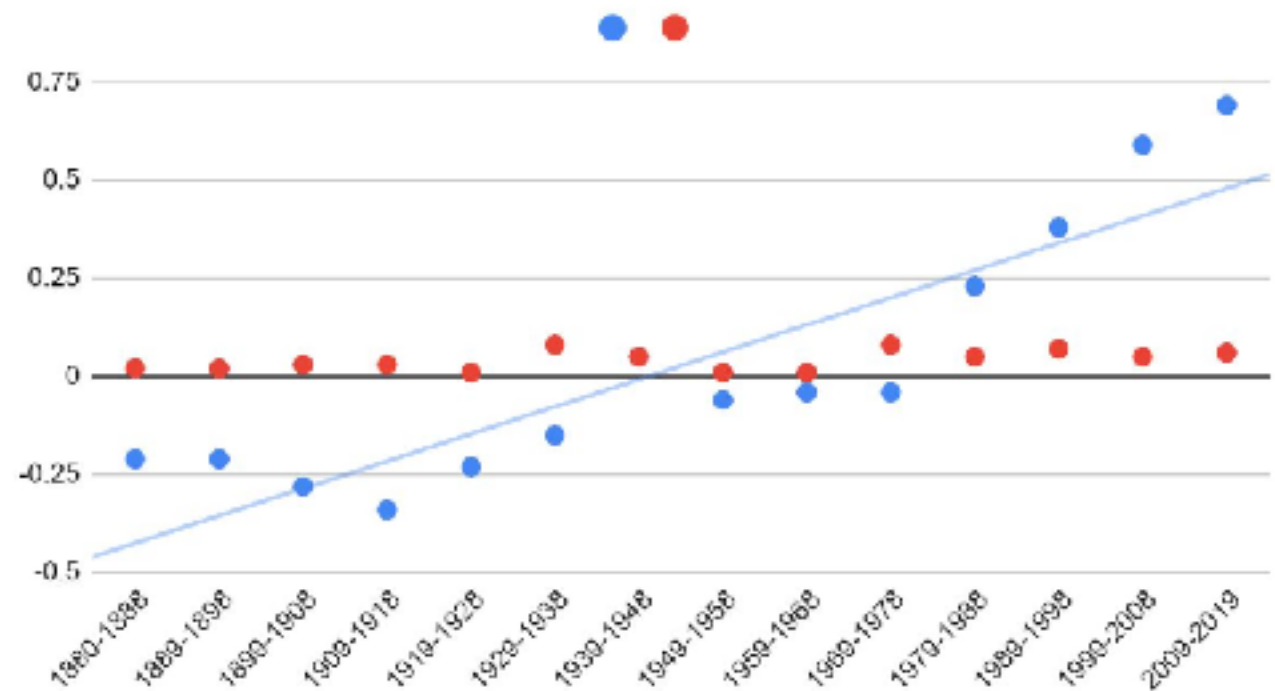
Decades vs. Averages



Average and Standard deviation

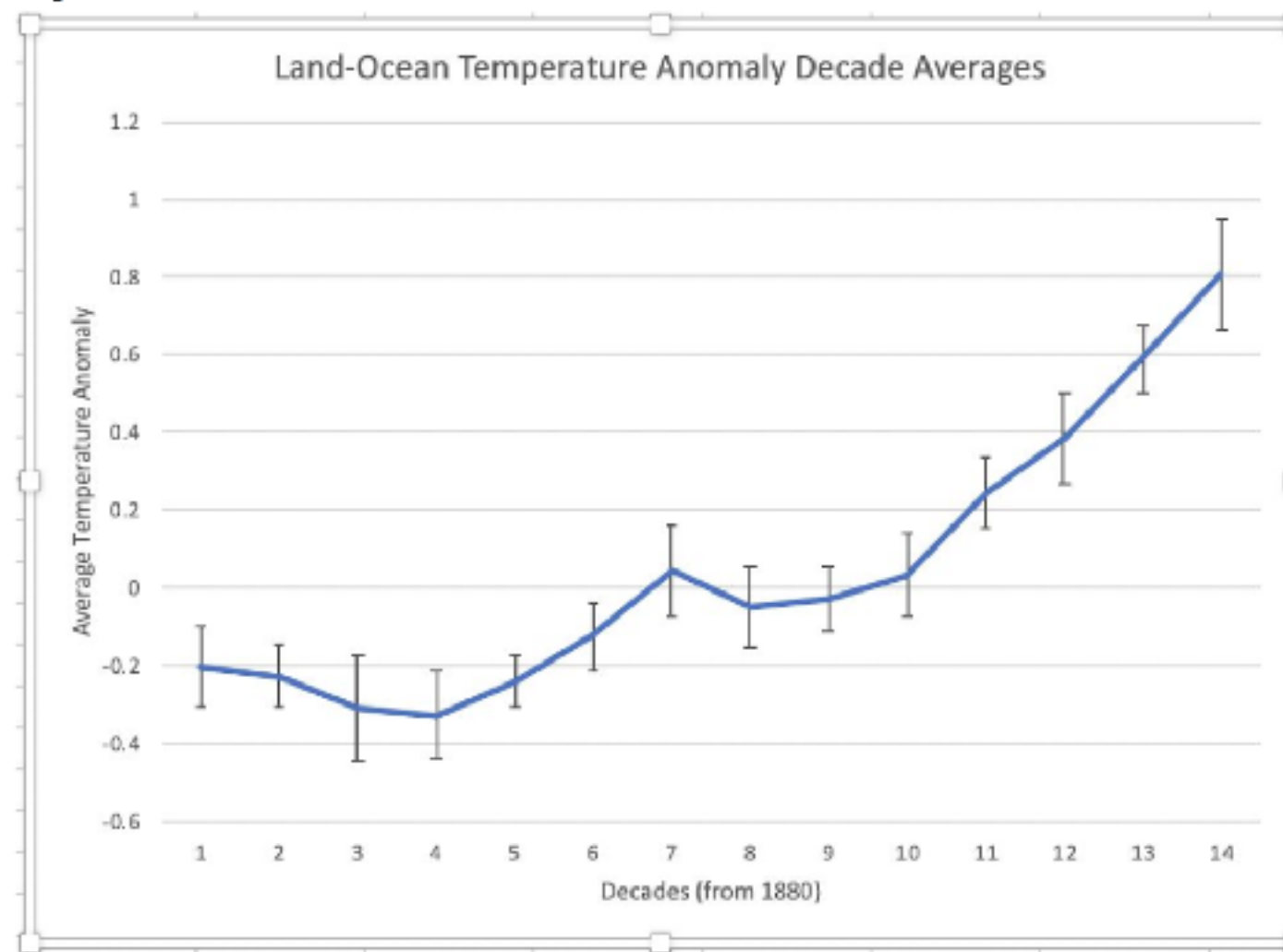


Land-Ocean Temp Index (Decade Averages)



Blue: anomaly values
Red: Standard deviations

Step 8



10 Year Average Temperature Anomalies

