

Appendix B. Regional Maps

Section B.1 through B.10 provides regional maps of annual and seasonal temperature, and seasonal precipitation illustrating the USGCRP data discussed and tabulated in Section 3 of the report. The precipitation maps were constructed using one-decimal-point-finer precision than that provided in the tables. This information is based on a new analyses of the CMIP3 database of the climate model integrations compiled by Michael Wehner of the Lawrence Berkeley National Laboratory used in the USGCRP (2009) report and is relative to a 1961-1979 baseline. See Section 2 and Appendix A of the report for further details of the methodology.

Section B.11 illustrates projected mean annual and seasonal temperature anomalies relative to the 1971 to 2000 baseline based on the average of statistically downscaled projections from 16 global climate models. Section 2 and Appendix A of this report provide further details of the methodology used in developing these maps.

B.1 National Maps of Projections

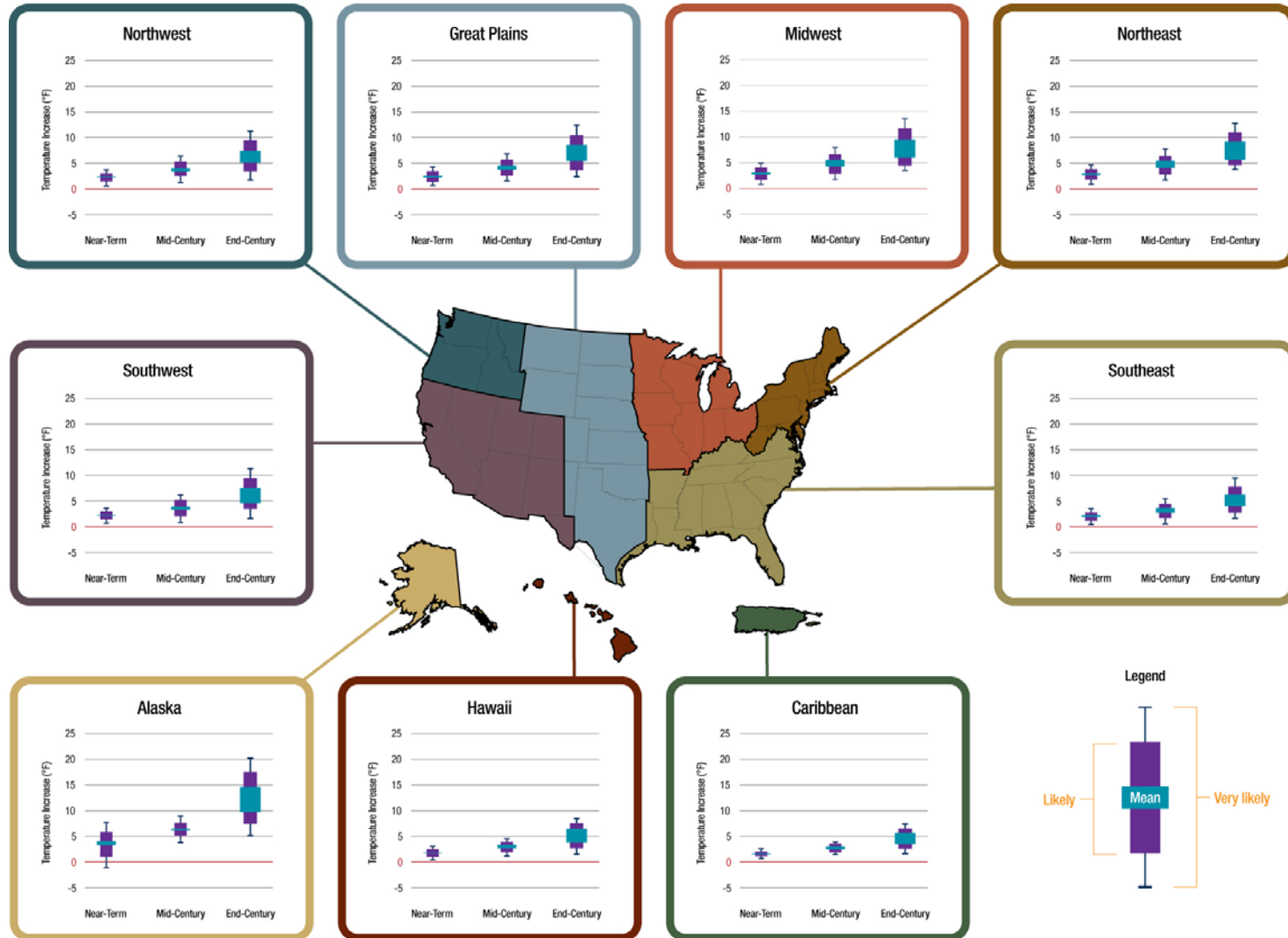
B.1.1 Projected Increases in Annual Temperature

Projected Increases in Annual Temperature



B.1.2 Projected Increases in Winter Temperature

Projected Increases in Winter Temperature



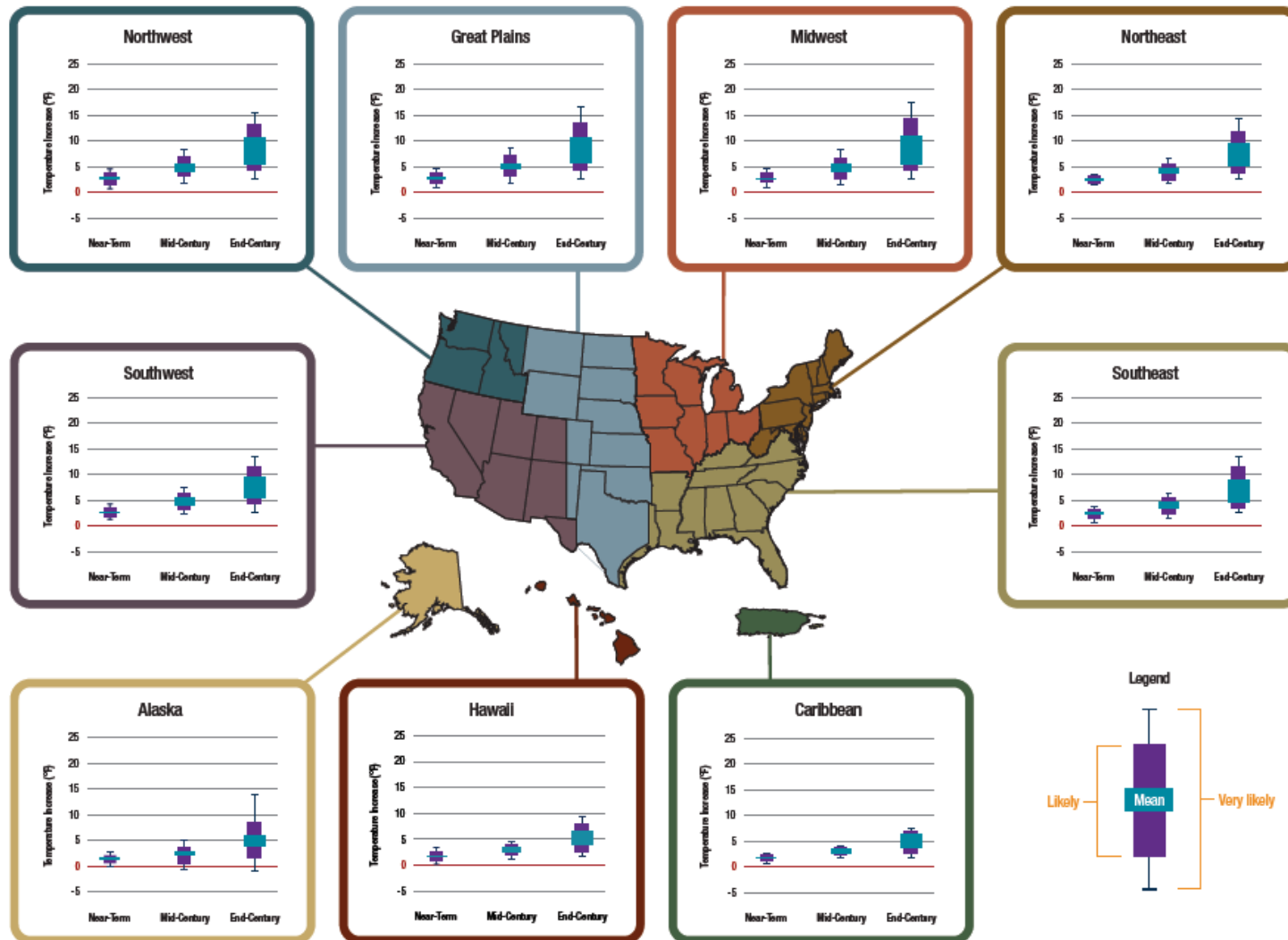
B.1.3 Projected Increases in Spring Temperature

Projected Increases in Spring Temperature



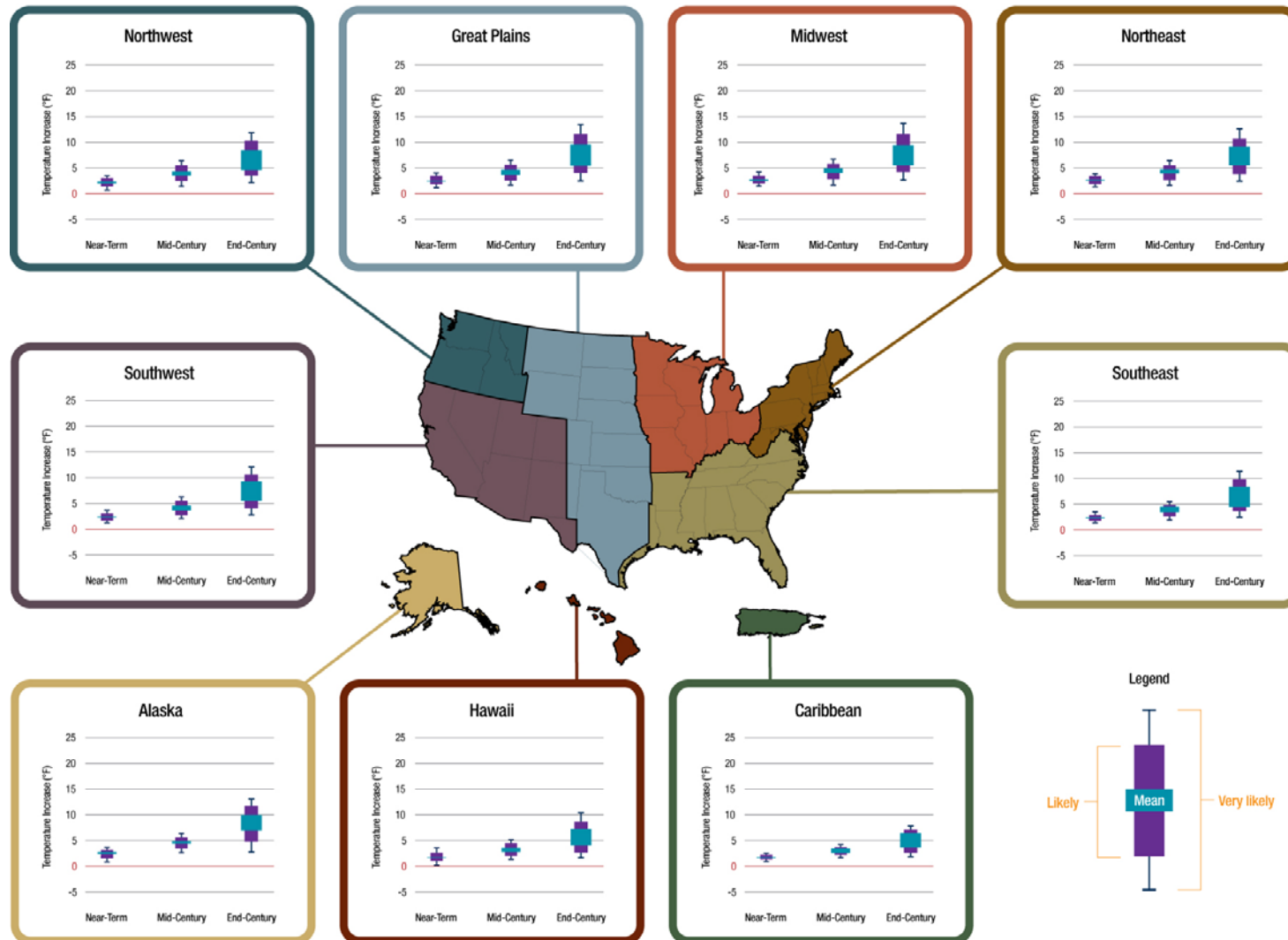
B.1.4 Projected Increases in Summer Temperature

Projected Increases in Summer Temperature



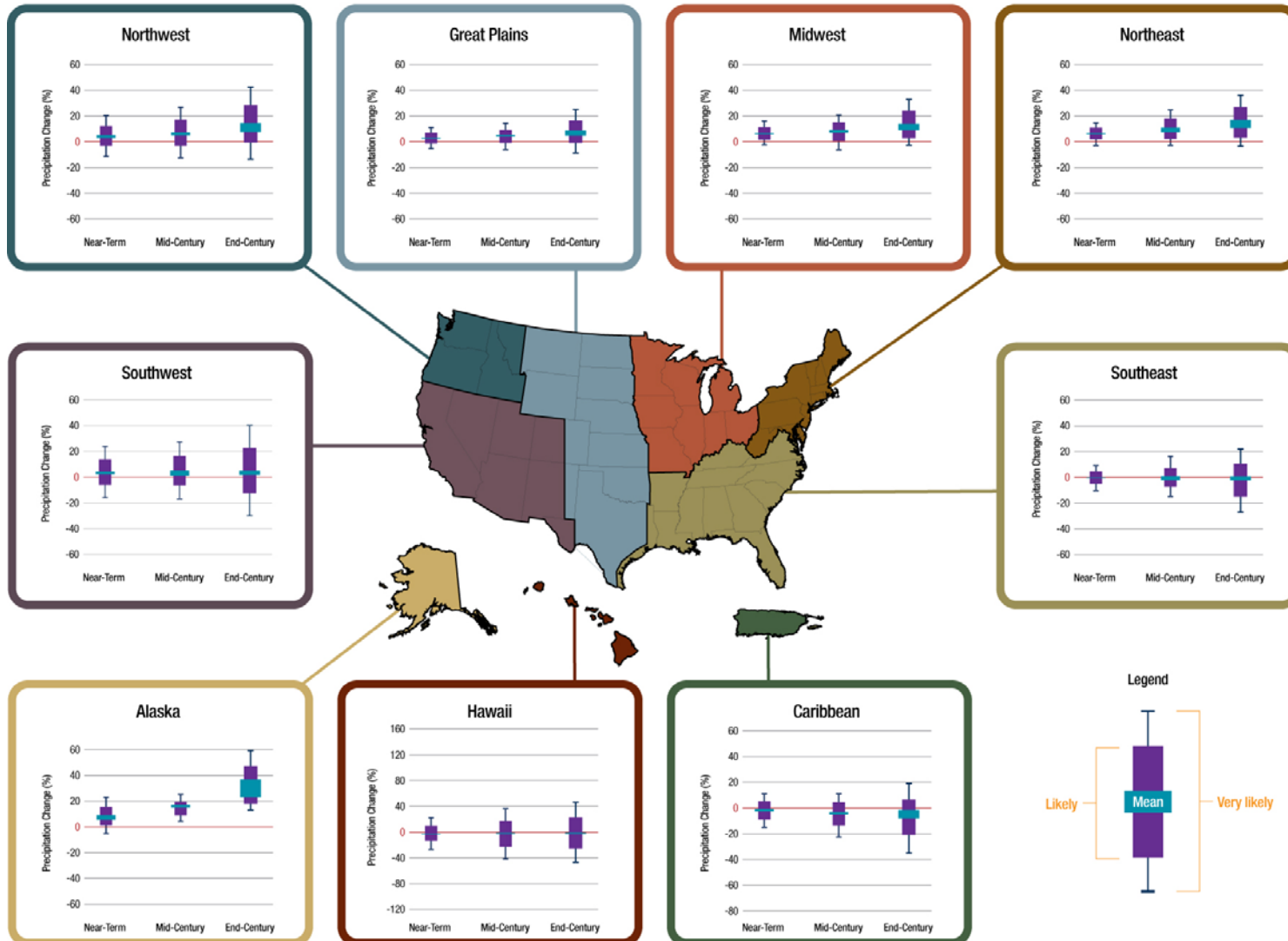
B.1.5 Projected Increases in Fall Temperature

Projected Increases in Fall Temperature



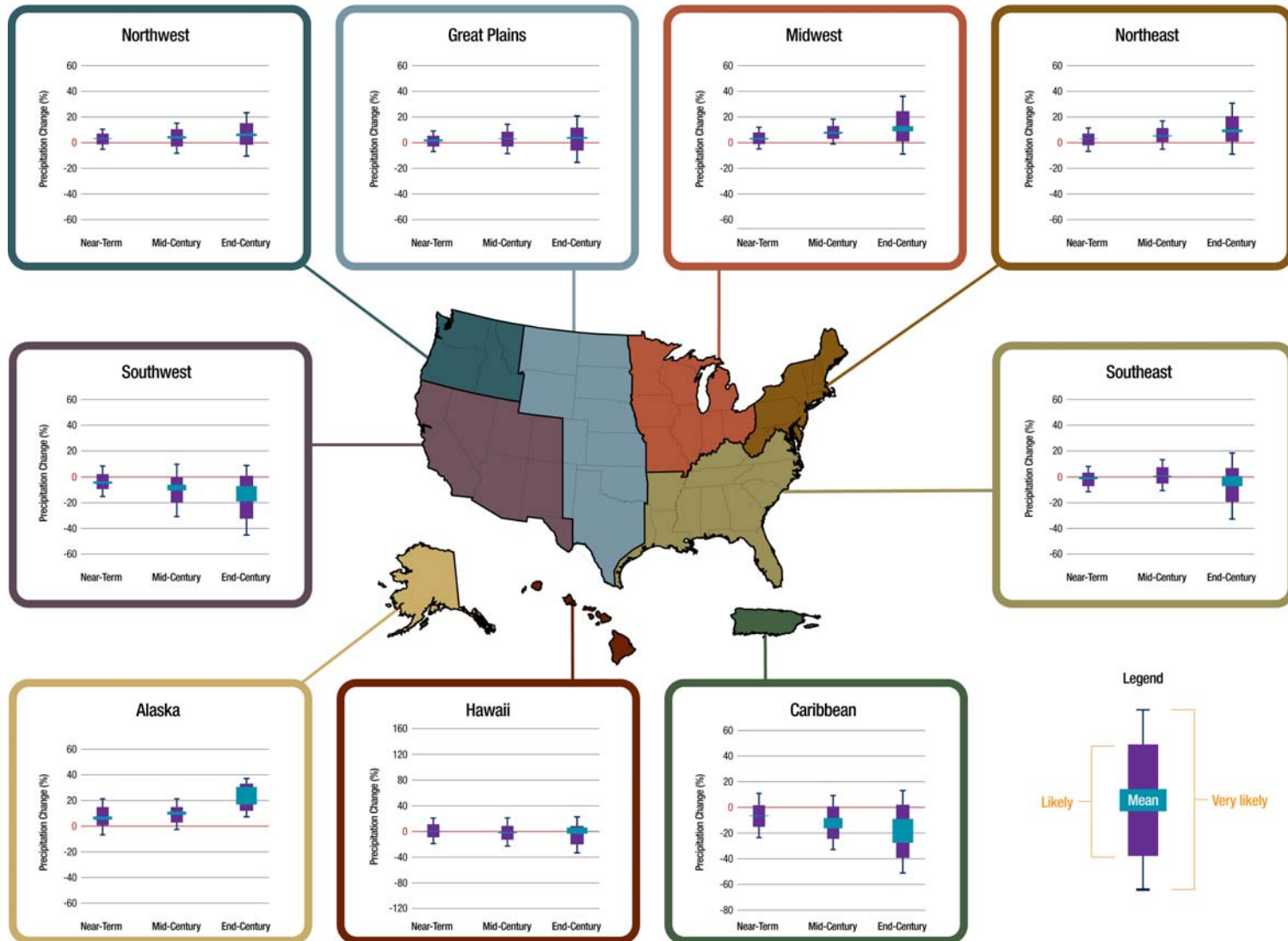
B.1.6 Projected change in Winter Precipitation

Projected Changes in Winter Precipitation



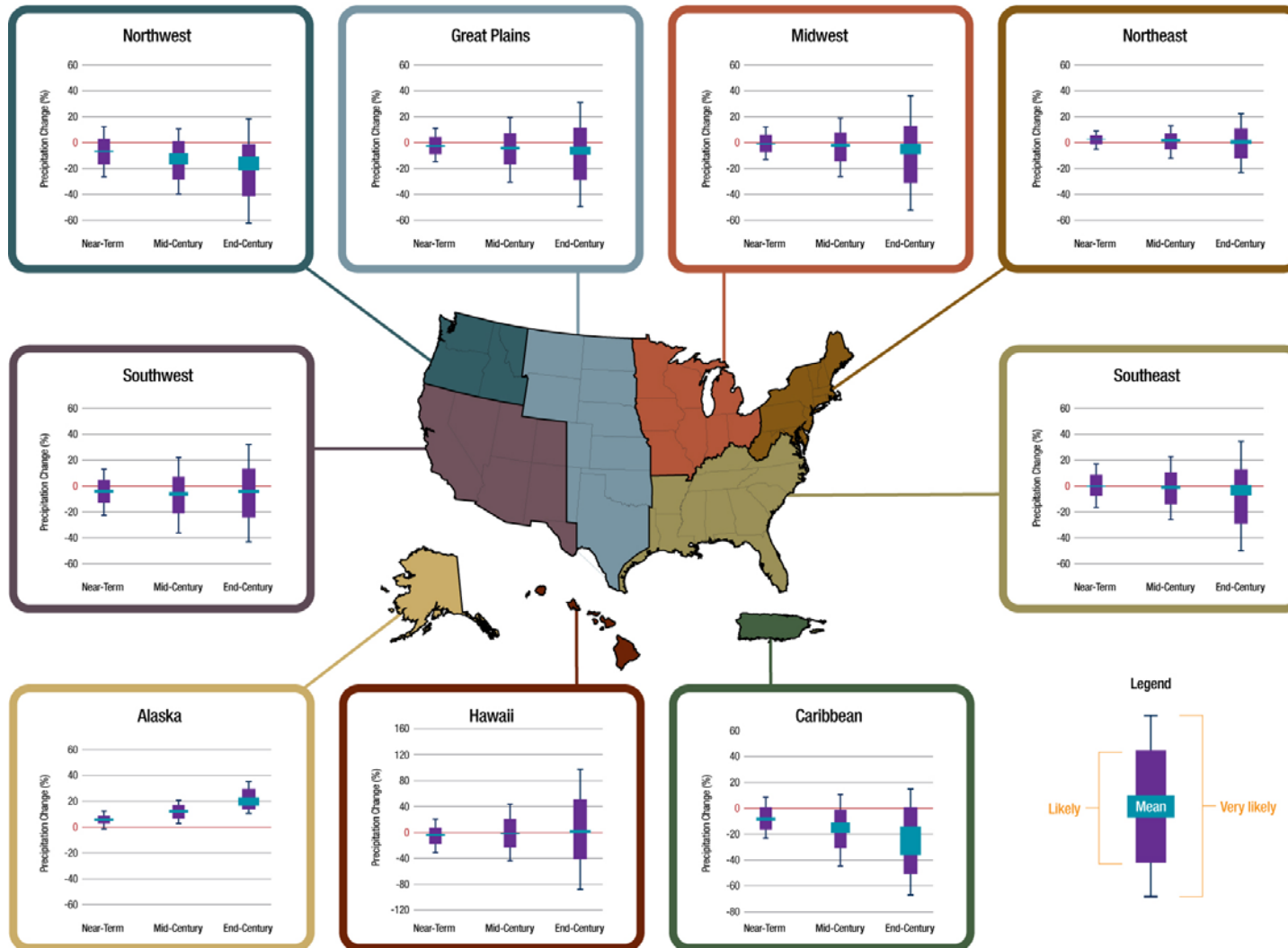
B.1.7 Projected change in Spring Precipitation

Projected Changes in Spring Precipitation



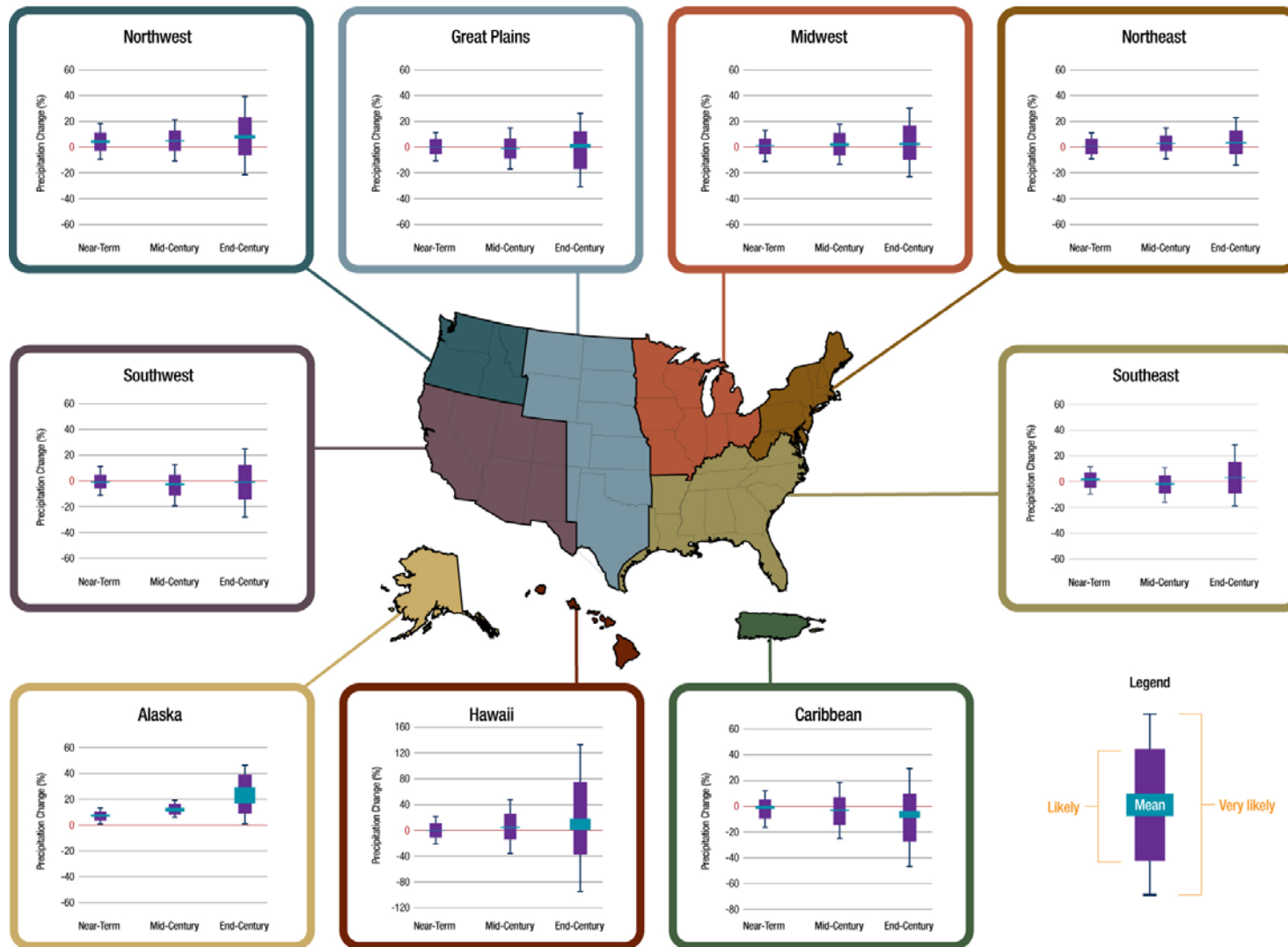
B.1.8 Projected change in Summer Precipitation

Projected Changes in Summer Precipitation



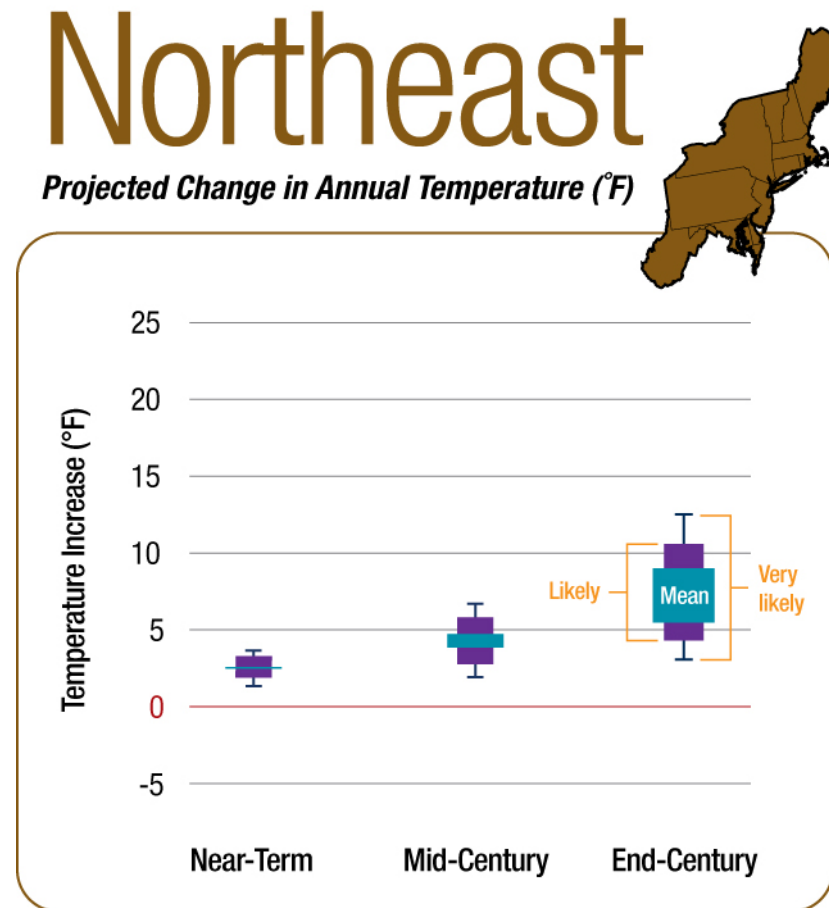
B.1.9 Projected change in Fall Precipitation

Projected Changes in Fall Precipitation



B.2 Northeast Projections

B.2.1 Projected Increases in Annual Temperature

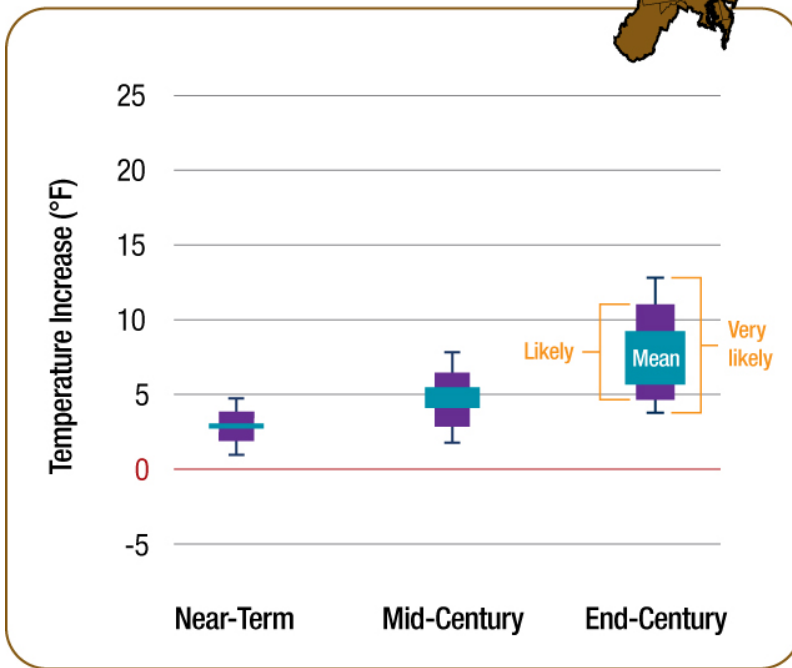


B.2.2 Projected Increases in Seasonal Temperature

Northeast



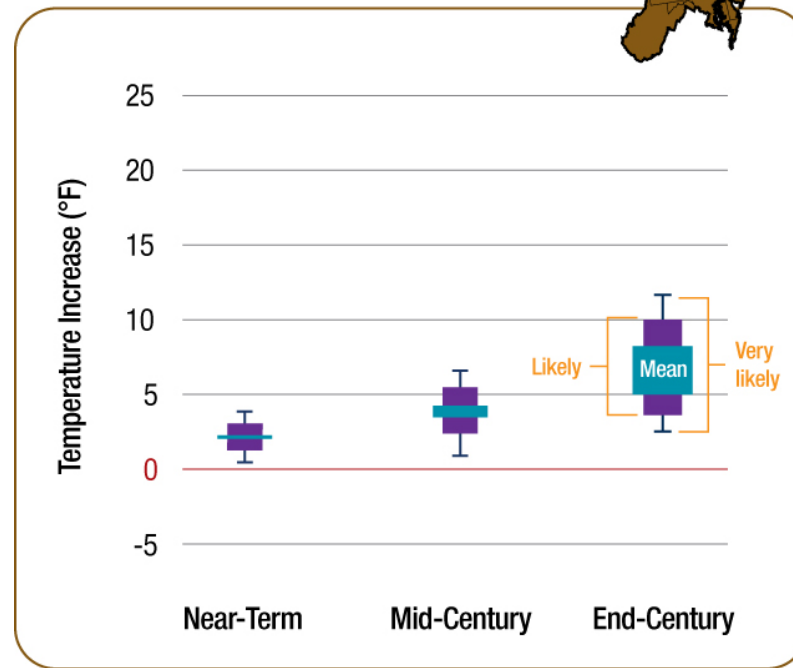
Projected Change in Winter Temperature (°F)



Northeast



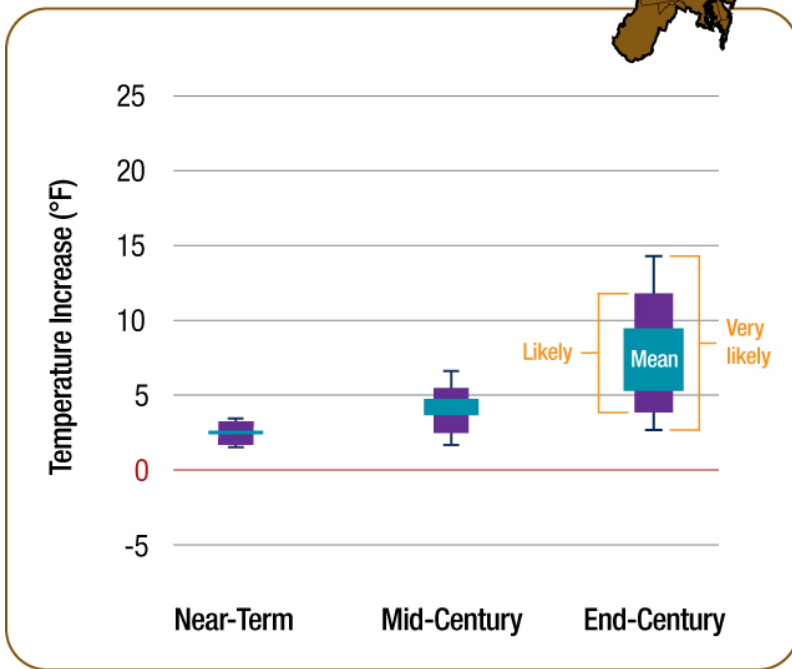
Projected Change in Spring Temperature (°F)



Northeast



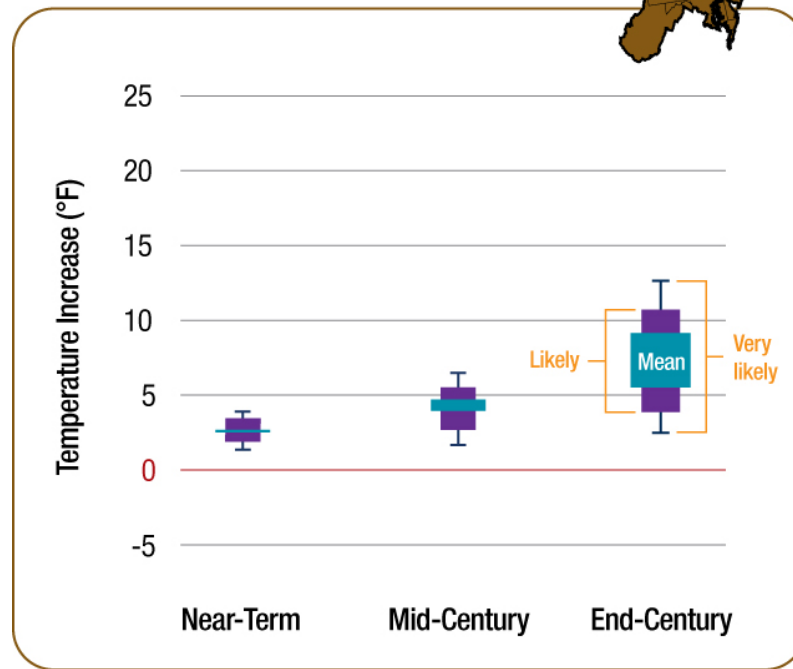
Projected Change in Summer Temperature (°F)



Northeast



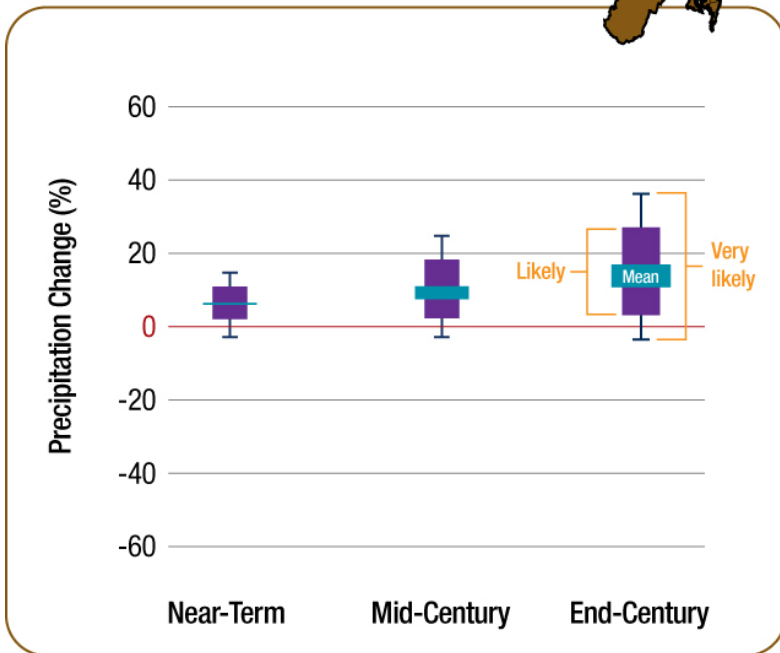
Projected Change in Fall Temperature (°F)



B.2.3 Projected change in Seasonal Precipitation

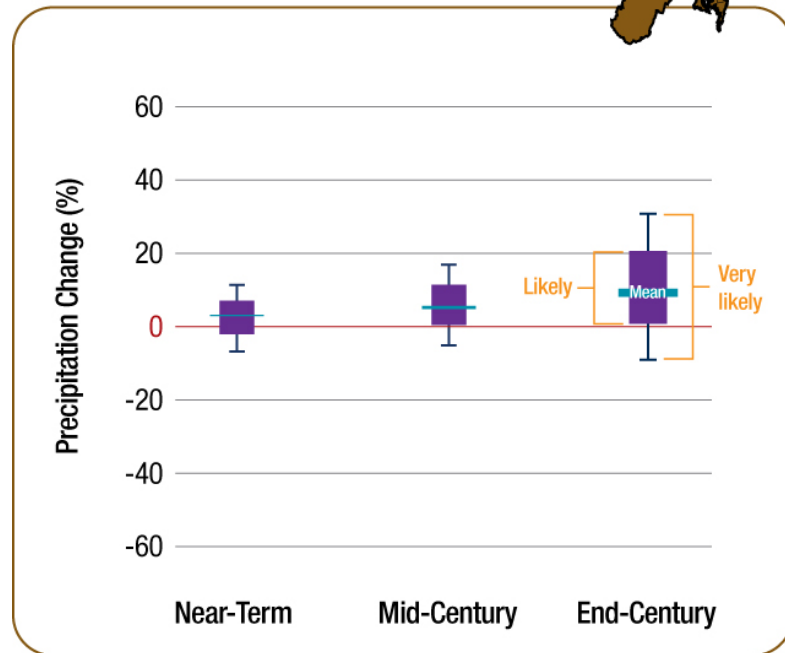
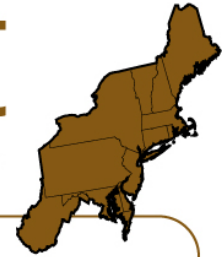
Northeast

Projected Change in Winter Precipitation (%)

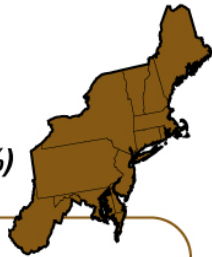


Northeast

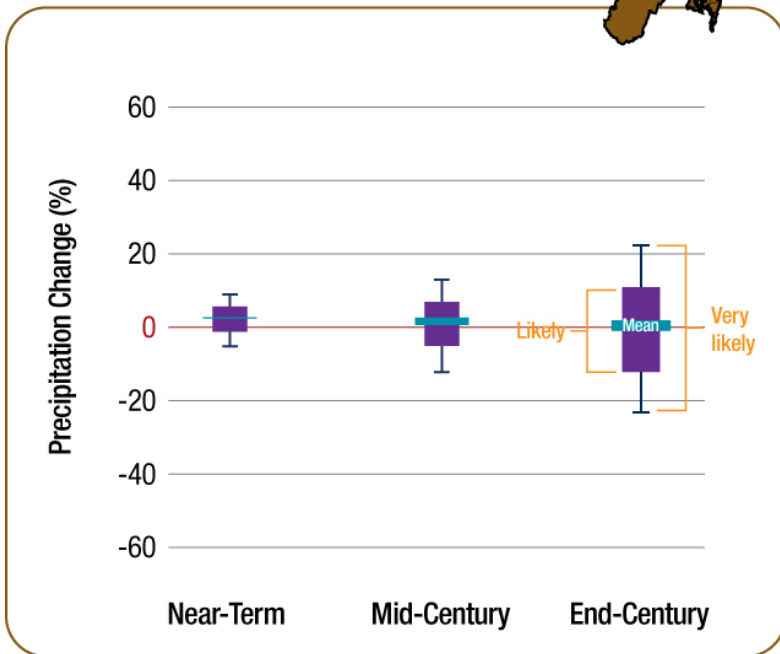
Projected Change in Spring Precipitation (%)



Northeast



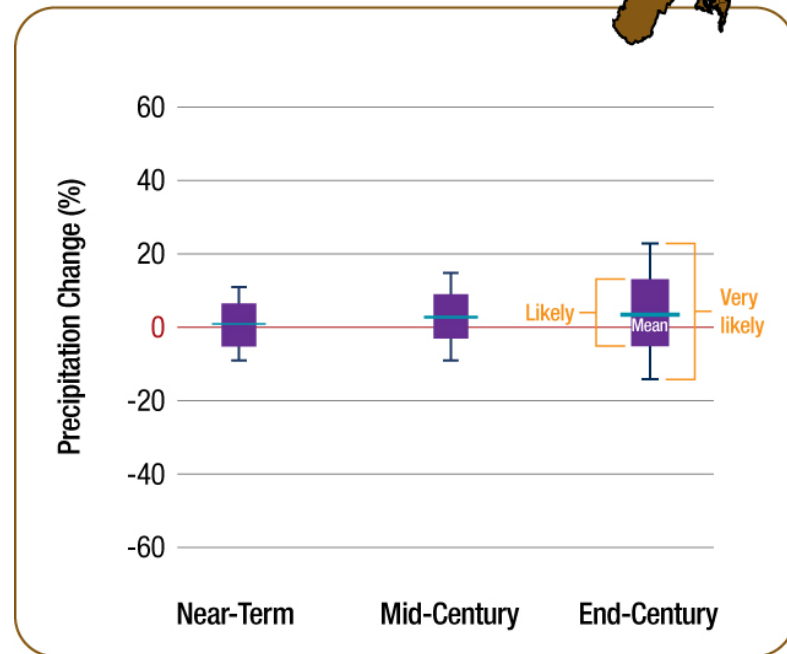
Projected Change in Summer Precipitation (%)



Northeast

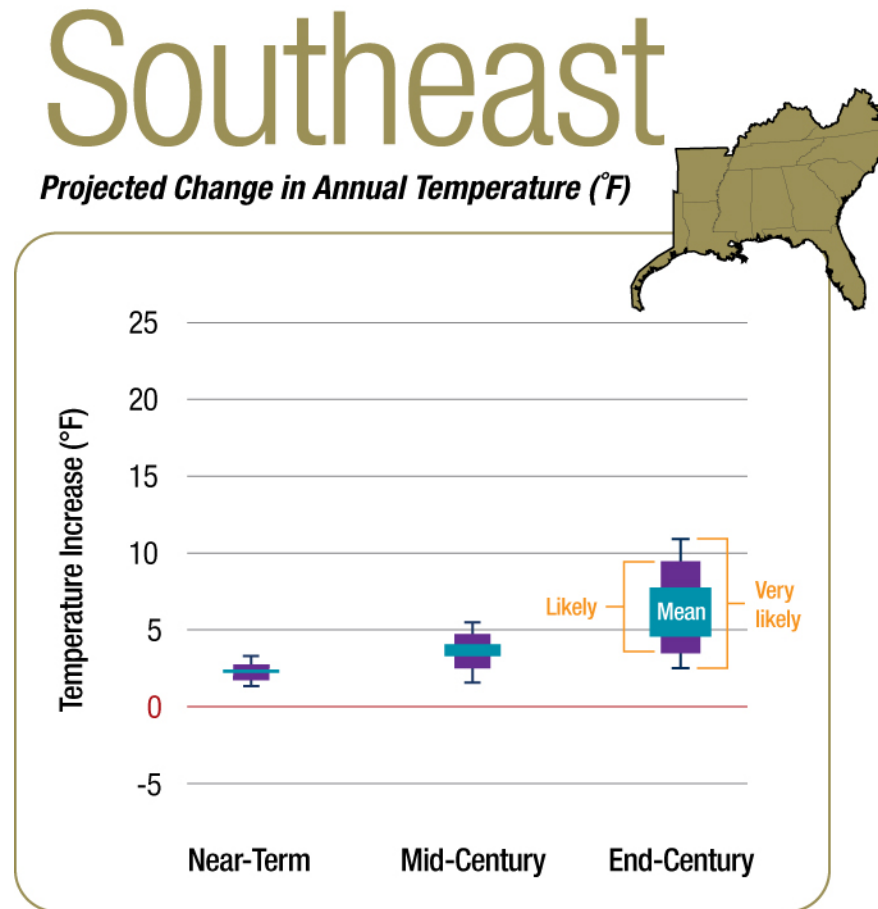


Projected Change in Fall Precipitation (%)



B.3 Southeast Projections

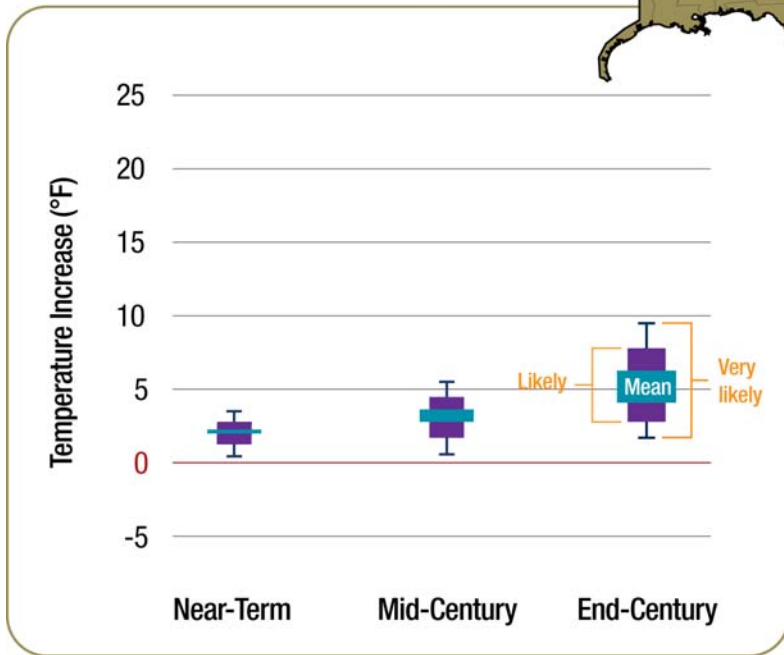
B.3.1 Projected Increases in Annual Temperature



B.3.2 Projected Increases in Seasonal Temperature

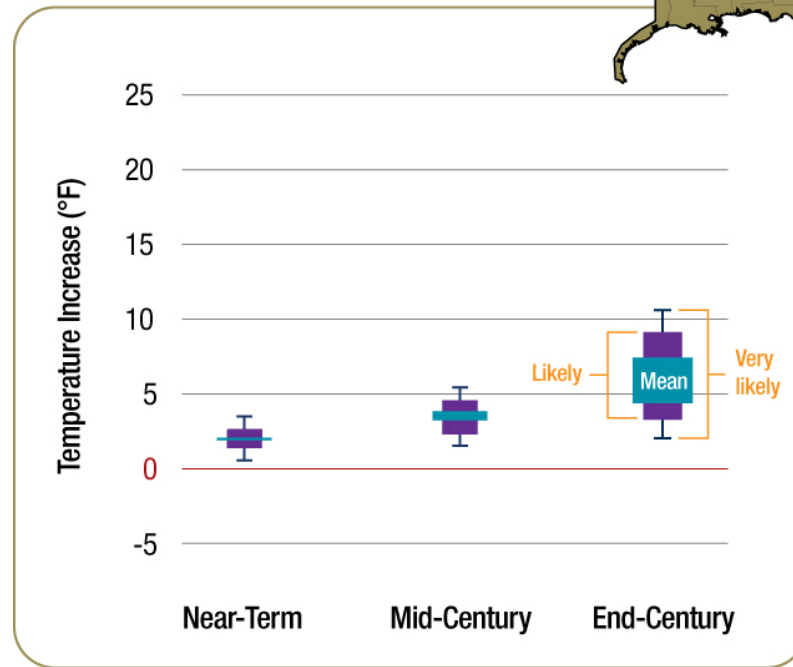
Southeast

Projected Change in Winter Temperature (°F)



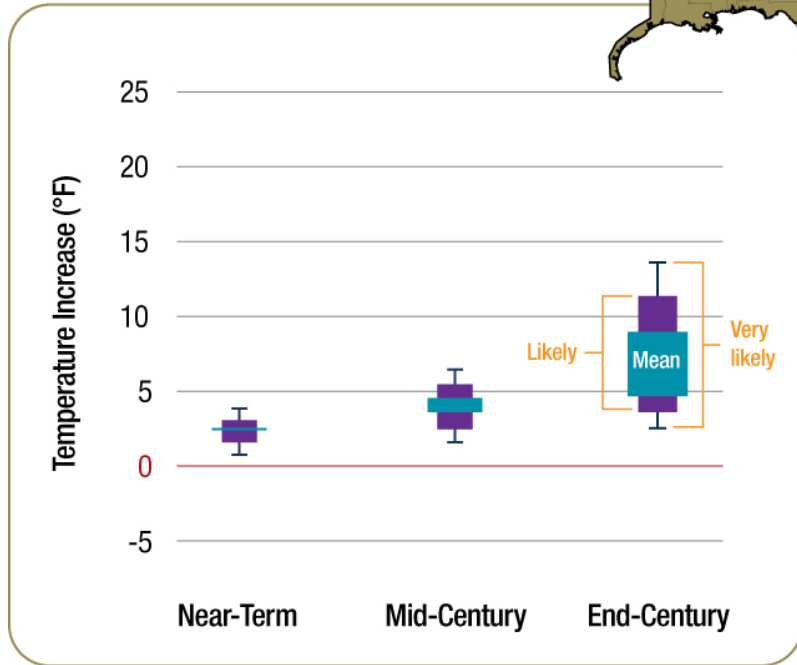
Southeast

Projected Change in Spring Temperature (°F)



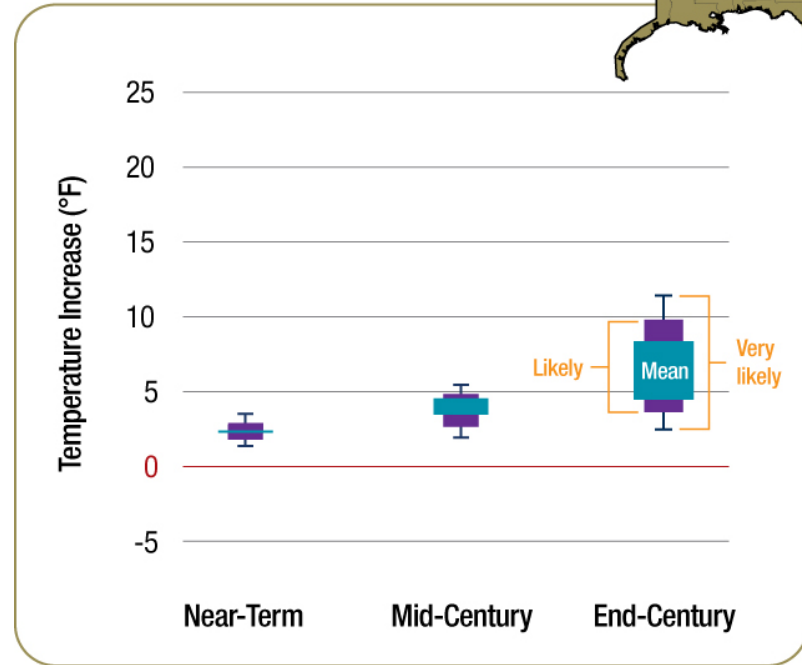
Southeast

Projected Change in Summer Temperature (°F)



Southeast

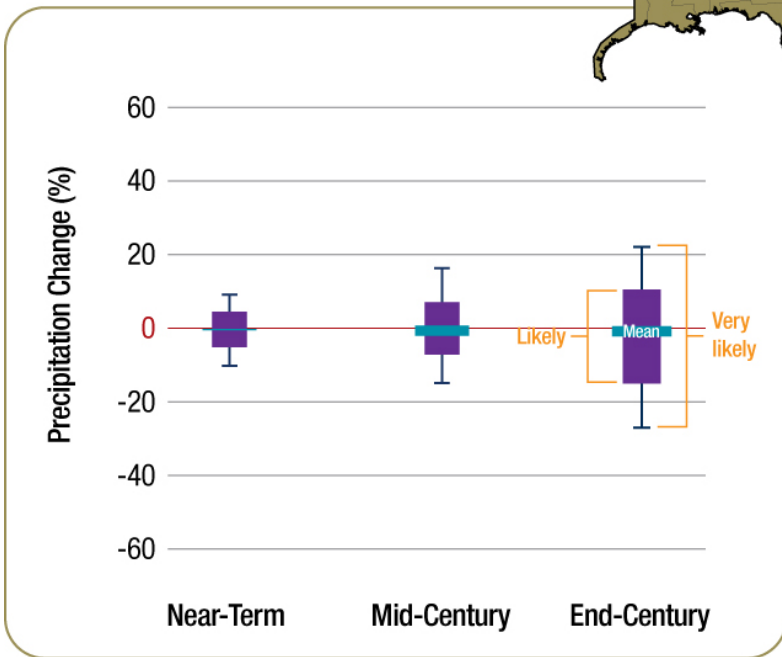
Projected Change in Fall Temperature (°F)



B.3.3 Projected change in Seasonal Precipitation

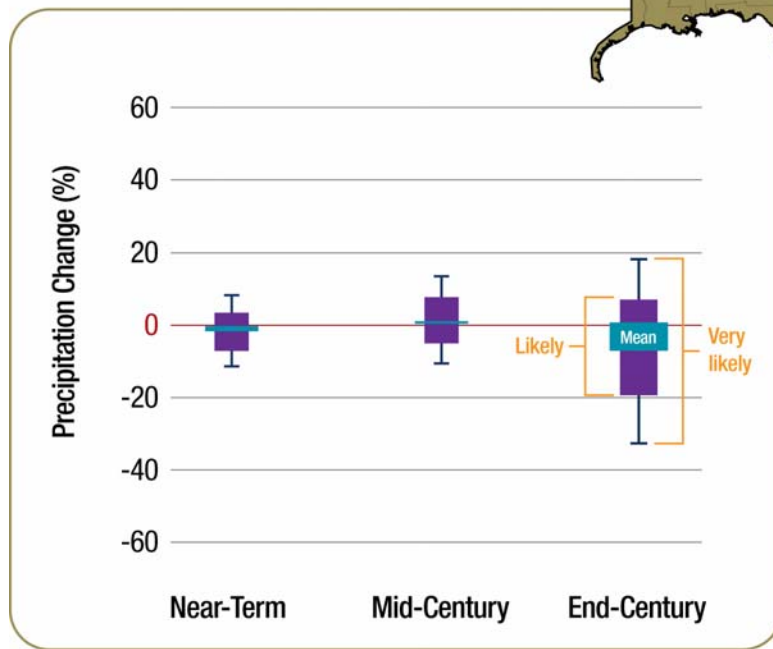
Southeast

Projected Change in Winter Precipitation (%)



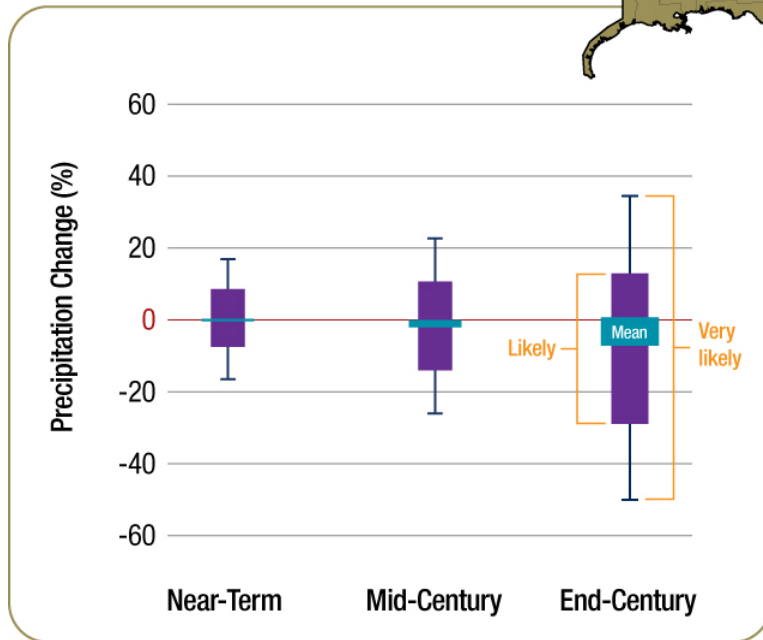
Southeast

Projected Change in Spring Precipitation (%)



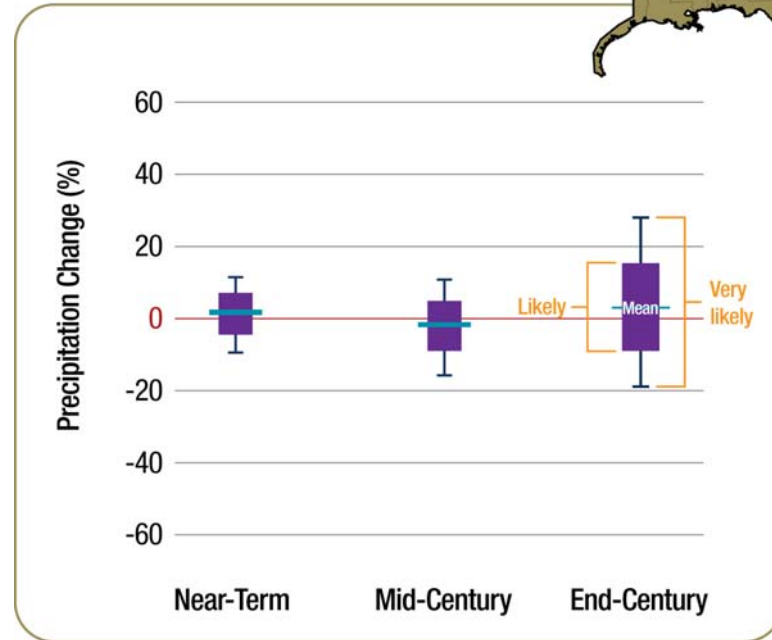
Southeast

Projected Change in Summer Precipitation (%)



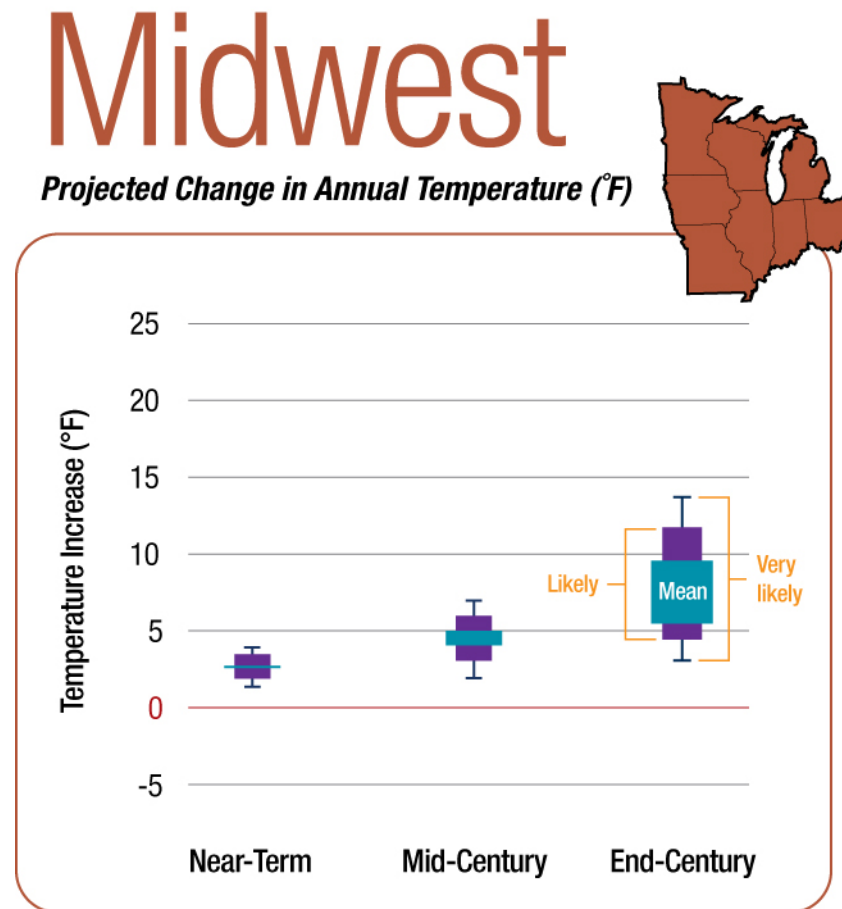
Southeast

Projected Change in Fall Precipitation (%)



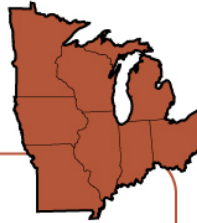
B.4 Midwest Projections

B.4.1 Projected Increases in Annual Temperature

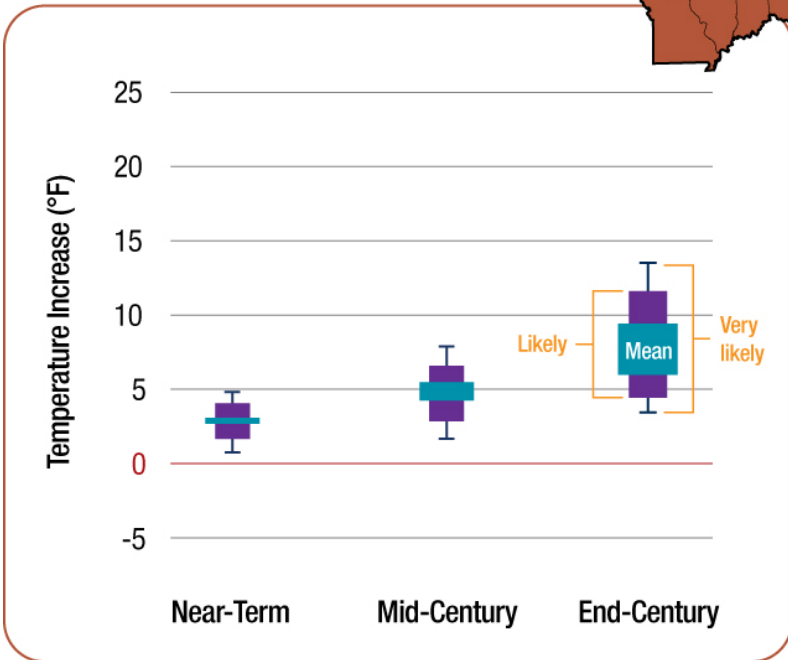


B.4.2 Projected Increases in Seasonal Temperature

Midwest



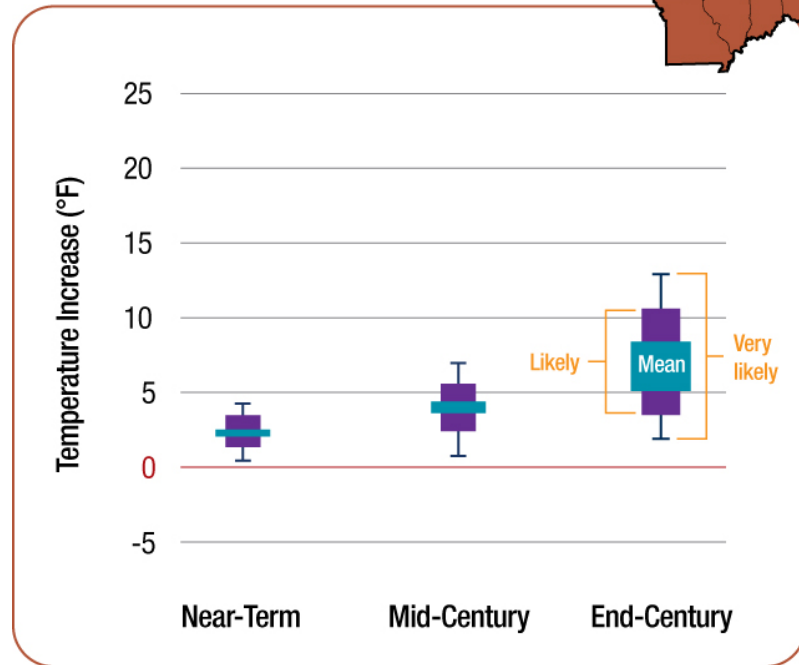
Projected Change in Winter Temperature (°F)



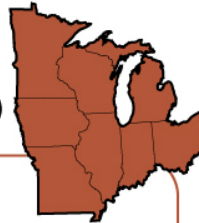
Midwest



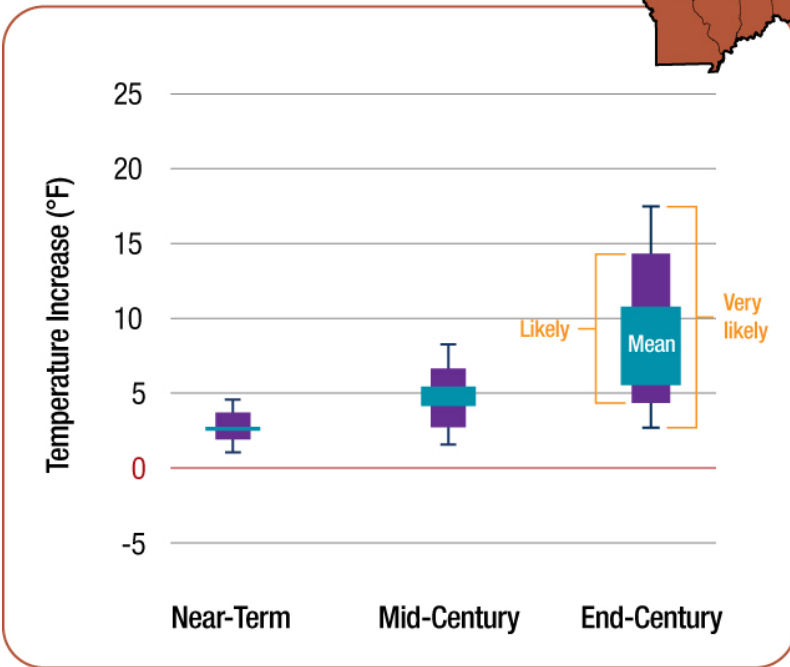
Projected Change in Spring Temperature (°F)



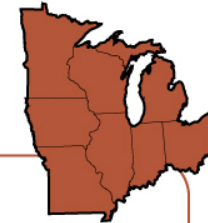
Midwest



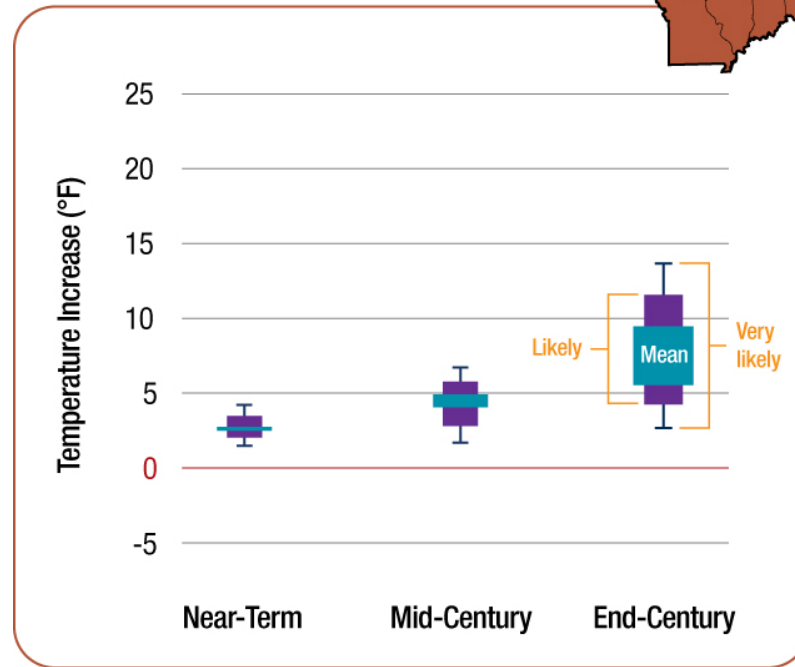
Projected Change in Summer Temperature (°F)



Midwest



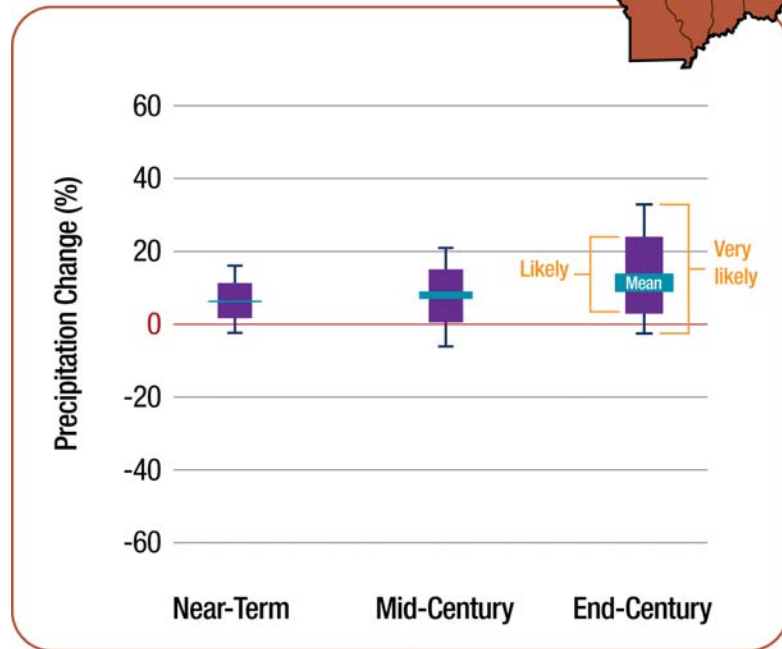
Projected Change in Fall Temperature (°F)



B.4.3 Projected change in Seasonal Precipitation

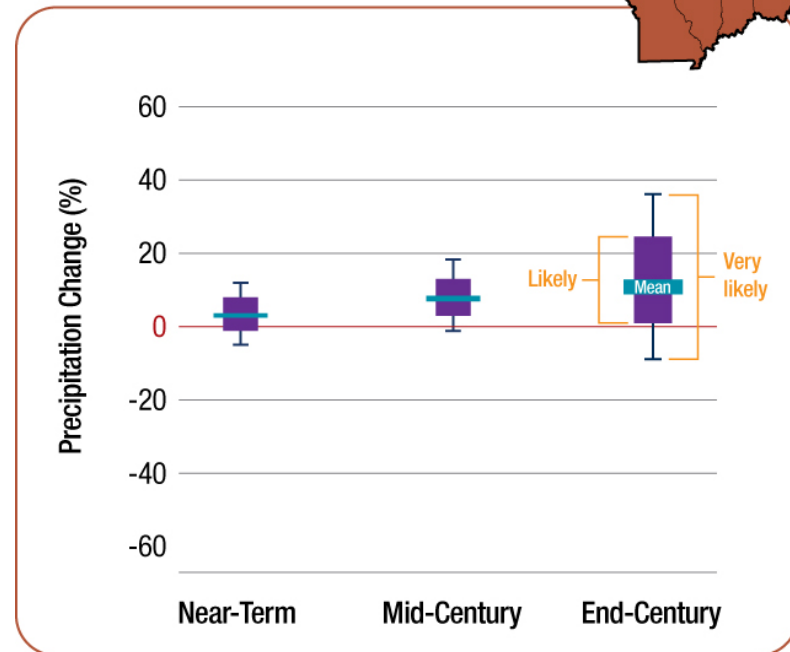
Midwest

Projected Change in Winter Precipitation (%)



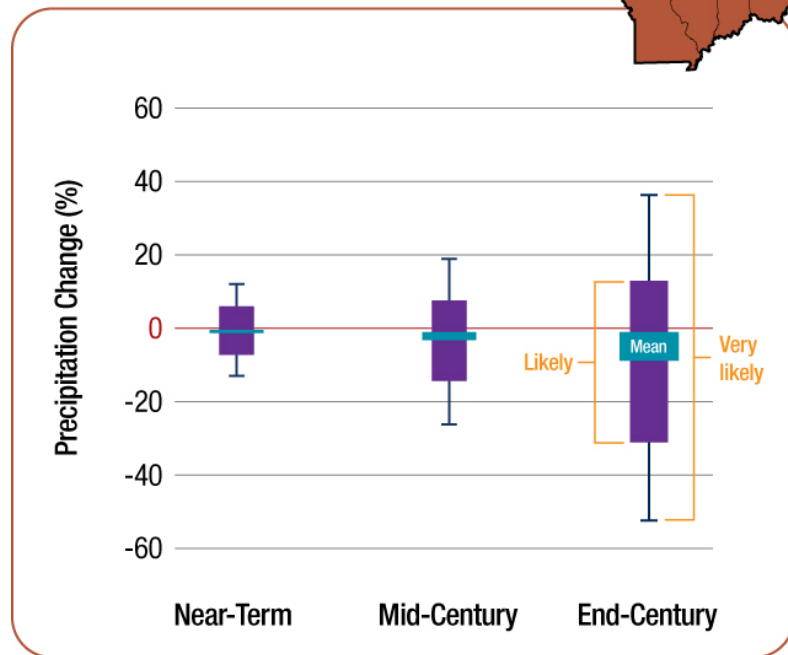
Midwest

Projected Change in Spring Precipitation (%)



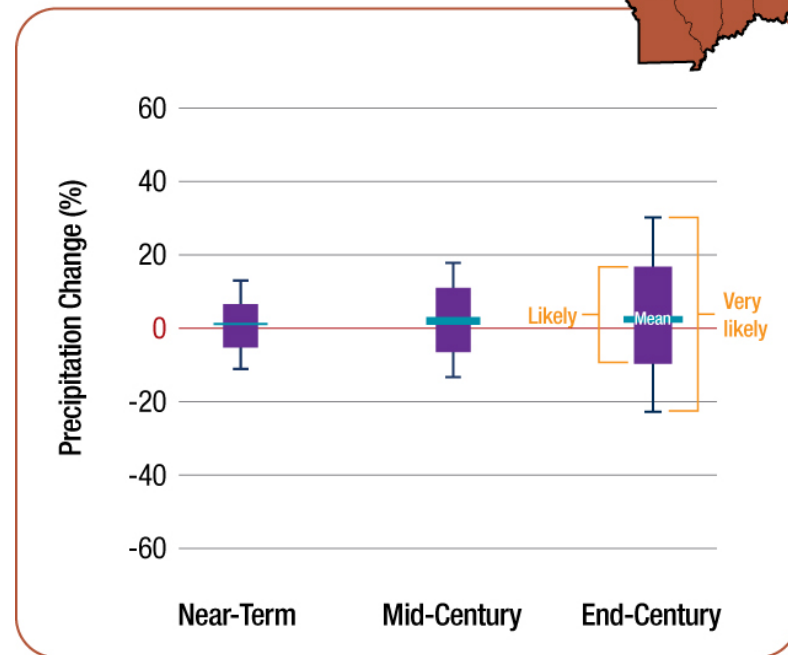
Midwest

Projected Change in Summer Precipitation (%)



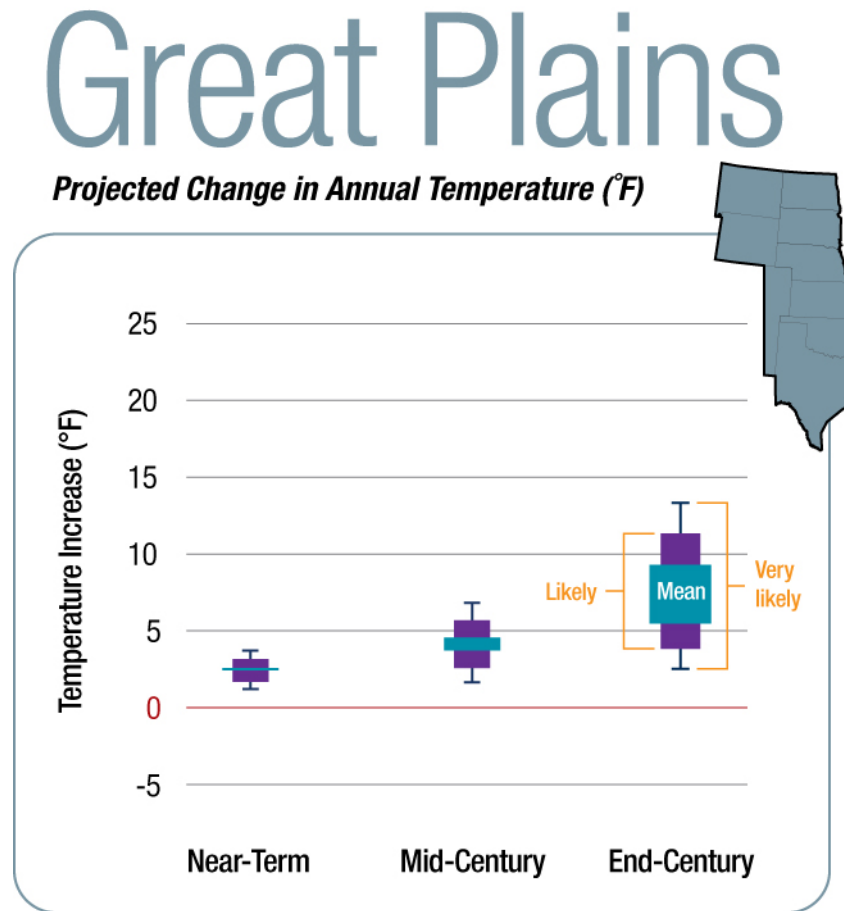
Midwest

Projected Change in Fall Precipitation (%)



B.5 Great Plains Projections

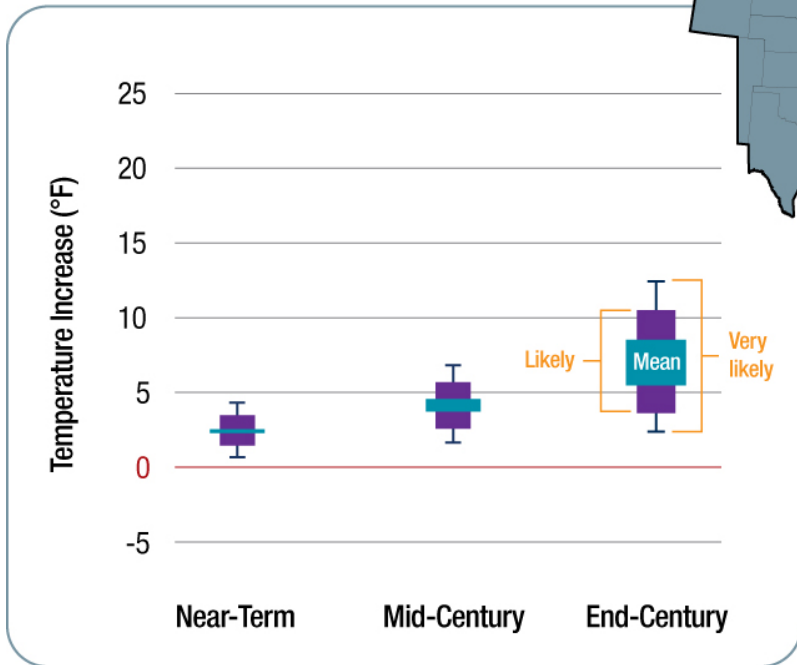
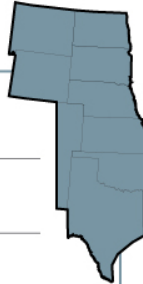
B.5.1 Projected Increases in Annual Temperature



B.5.2 Projected Increases in Seasonal Temperature

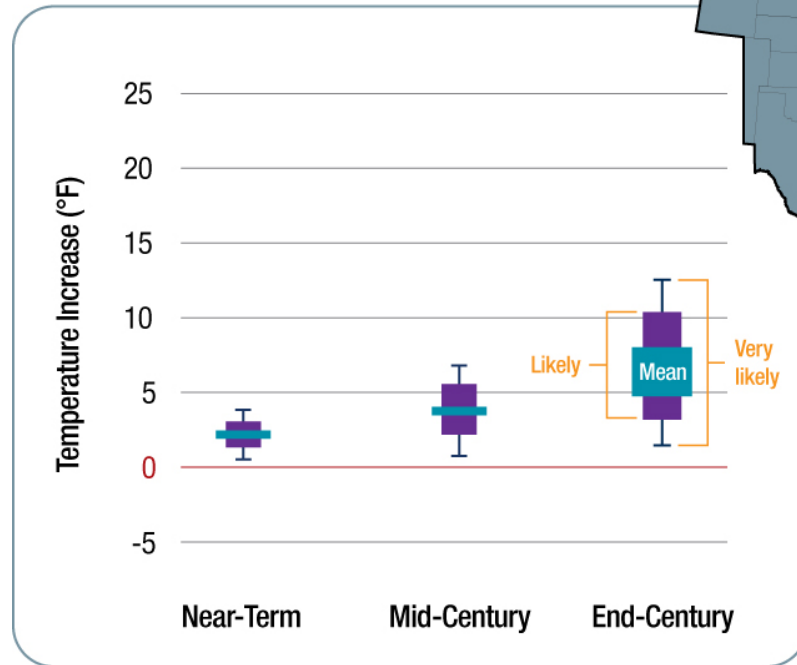
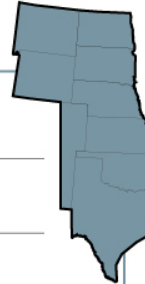
Great Plains

Projected Change in Winter Temperature (°F)



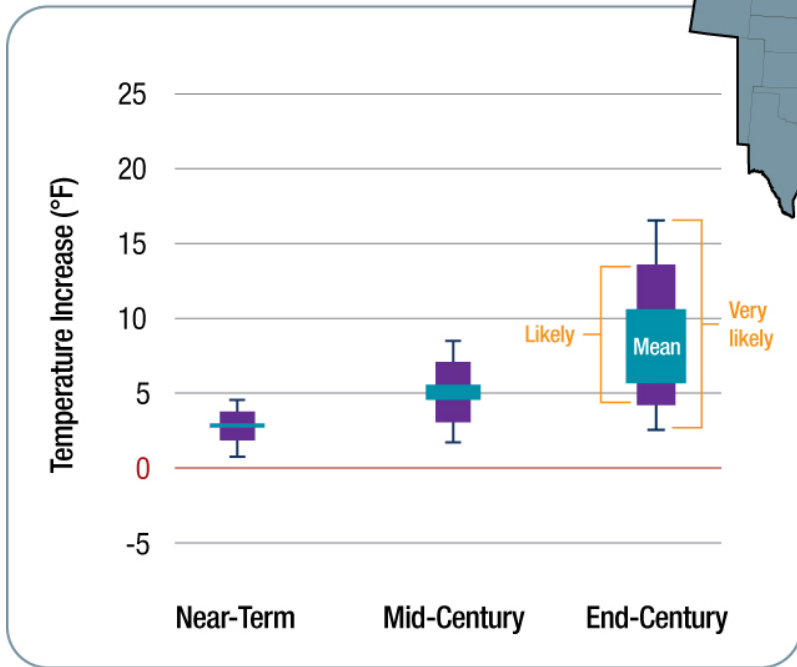
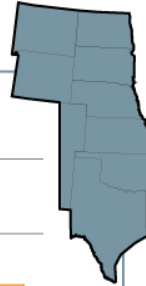
Great Plains

Projected Change in Spring Temperature (°F)



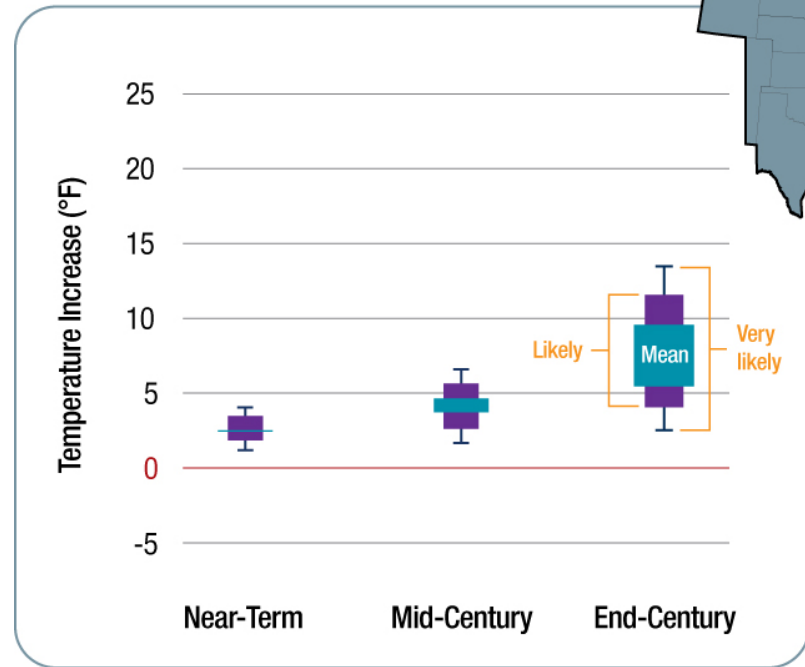
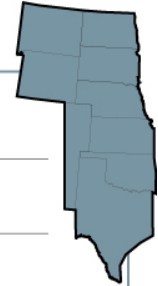
Great Plains

Projected Change in Summer Temperature (°F)



Great Plains

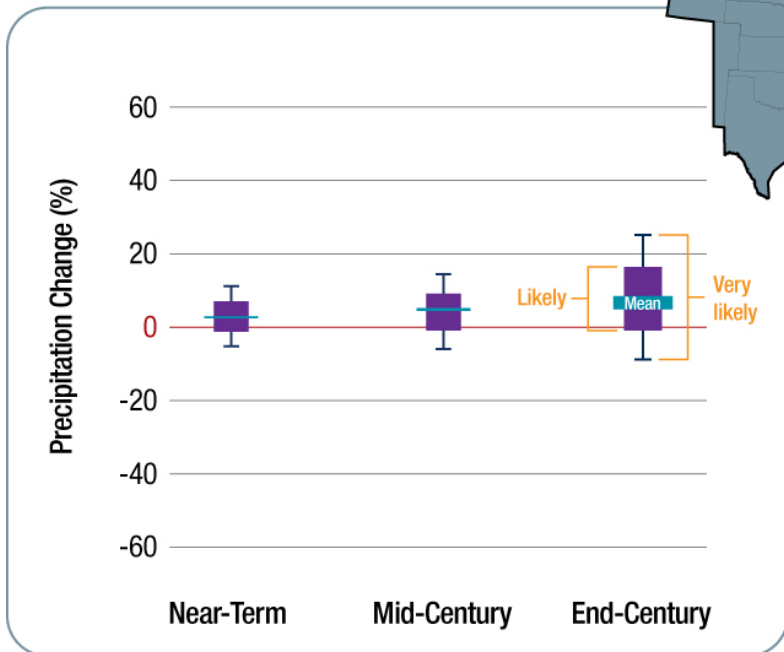
Projected Change in Fall Temperature (°F)



B.5.3 Projected change in Seasonal Precipitation

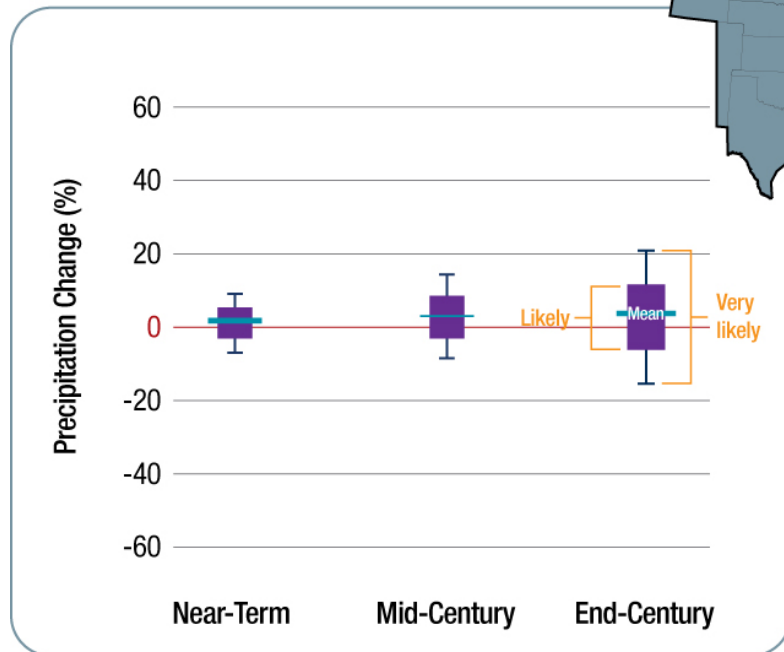
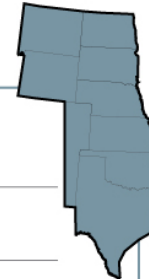
Great Plains

Projected Change in Winter Precipitation (%)



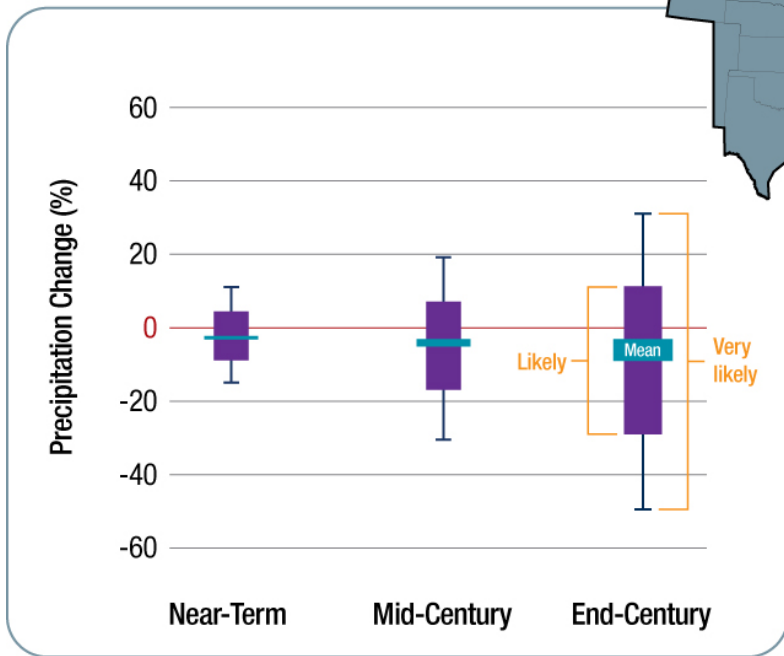
Great Plains

Projected Change in Spring Precipitation (%)



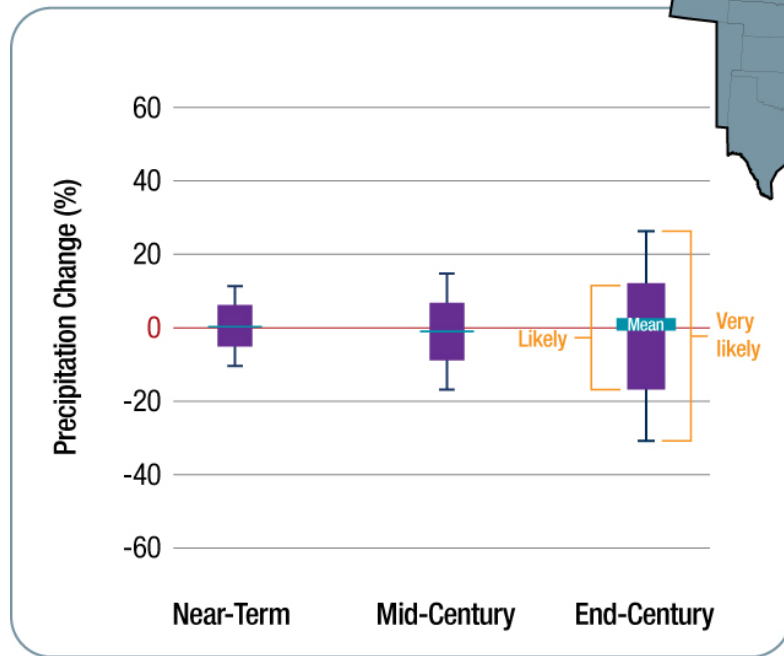
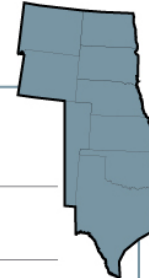
Great Plains

Projected Change in Summer Precipitation (%)



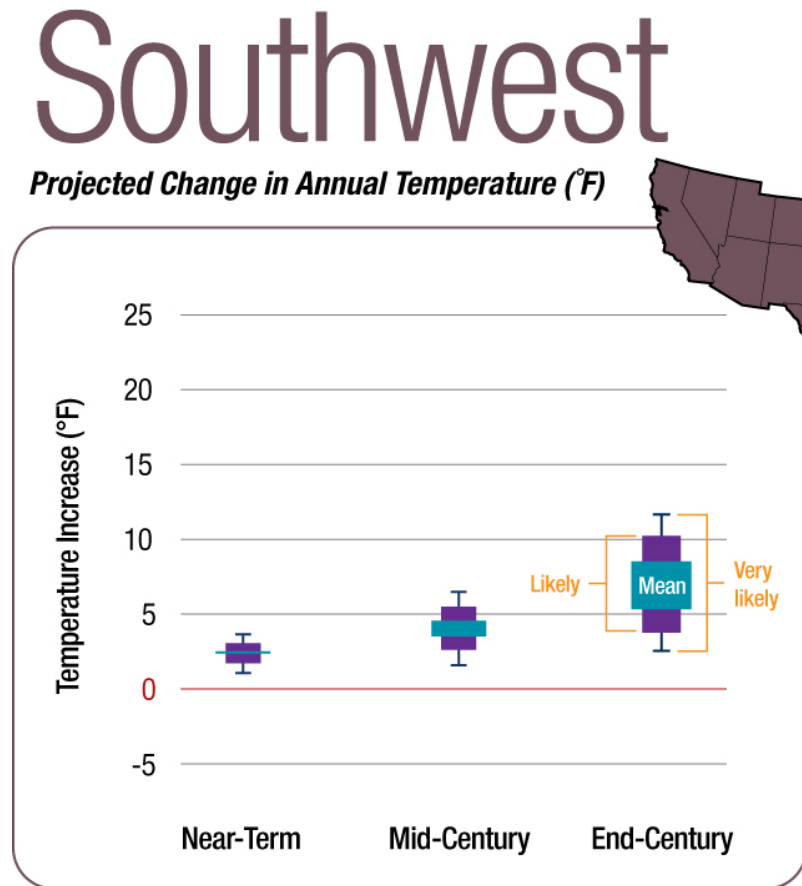
Great Plains

Projected Change in Fall Precipitation (%)



B.6 Southwest Projections

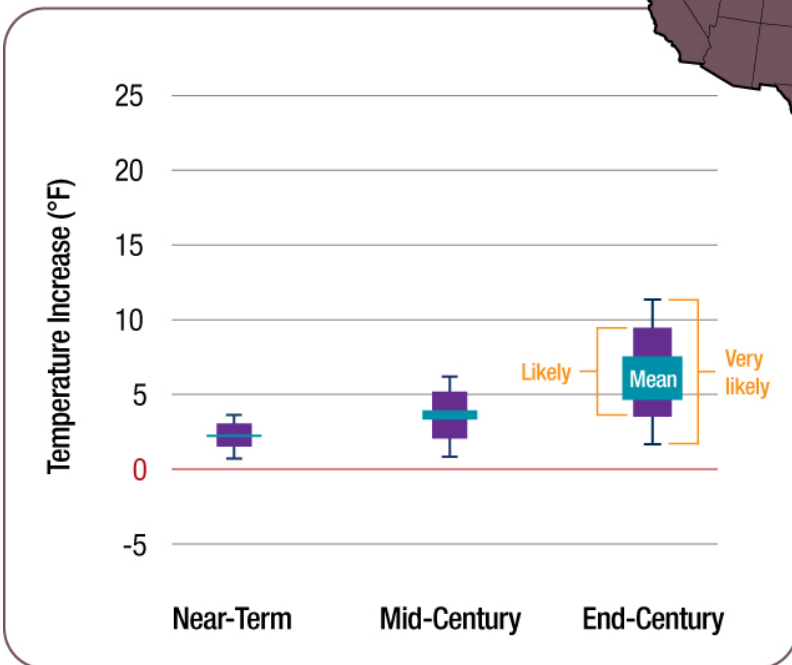
B.6.1 Projected Increases in Annual Temperature



B.6.2 Projected Increases in Seasonal Temperature

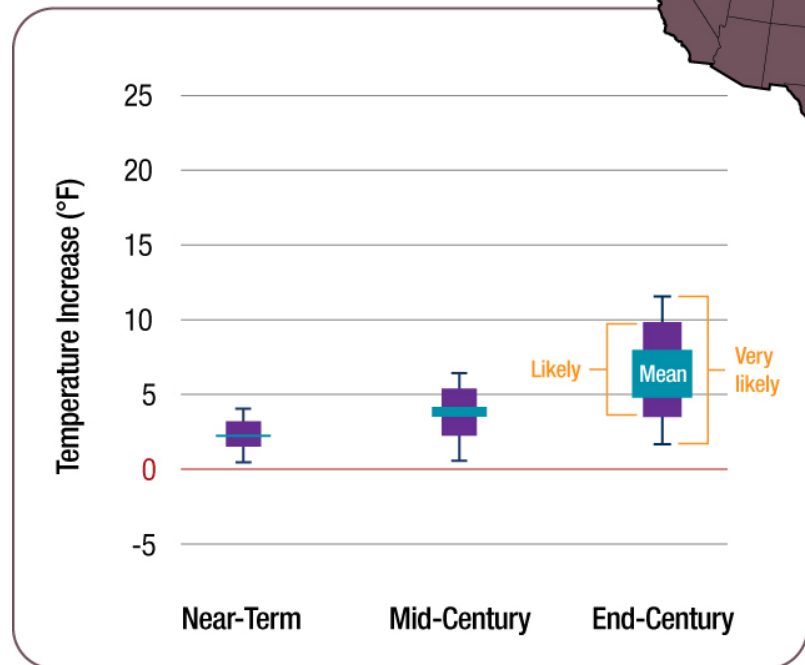
Southwest

Projected Change in Winter Temperature (°F)



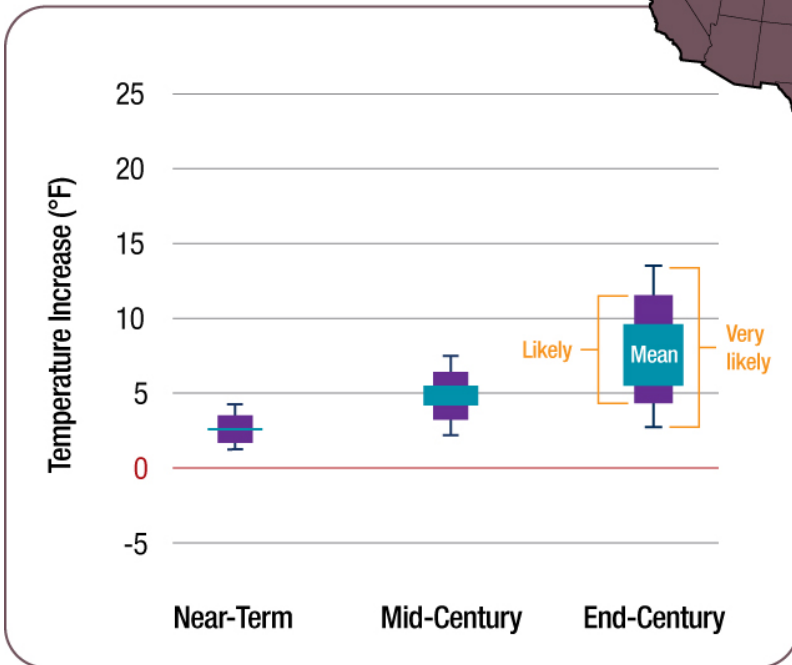
Southwest

Projected Change in Spring Temperature (°F)



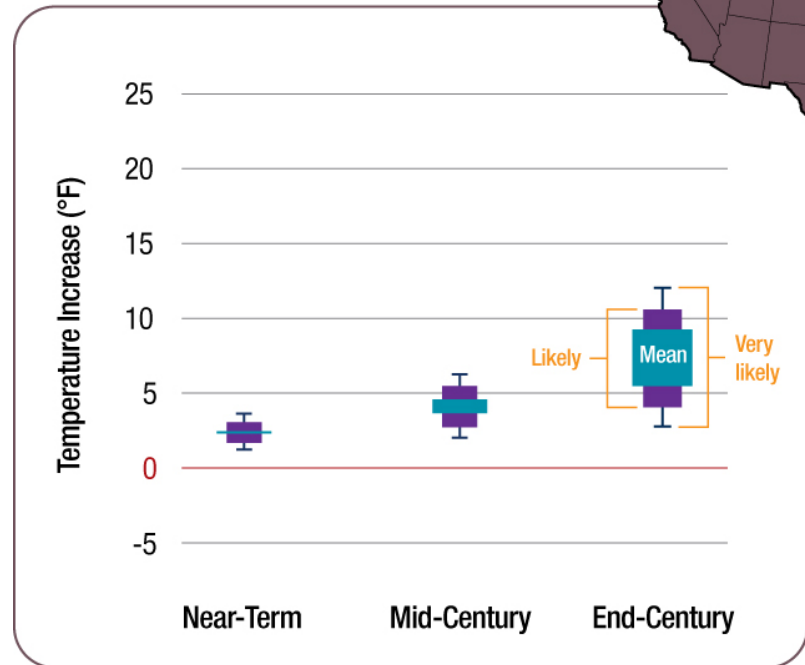
Southwest

Projected Change in Summer Temperature (°F)



Southwest

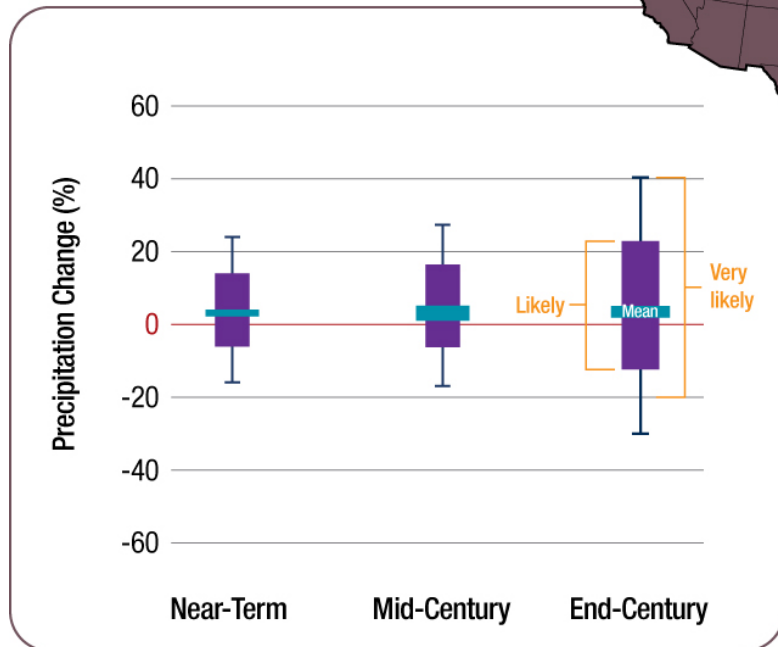
Projected Change in Fall Temperature (°F)



B.6.3 Projected Change in Seasonal Precipitation

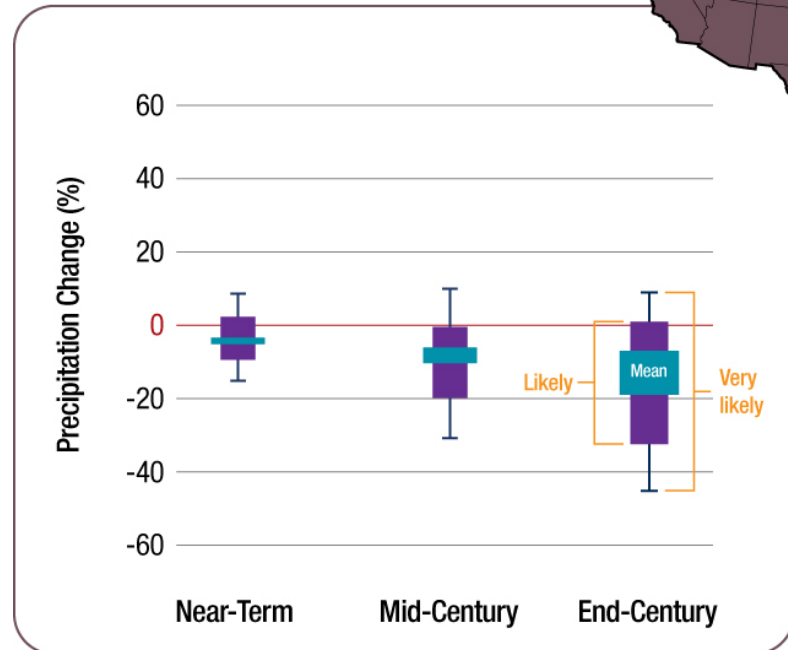
Southwest

Projected Change in Winter Precipitation (%)



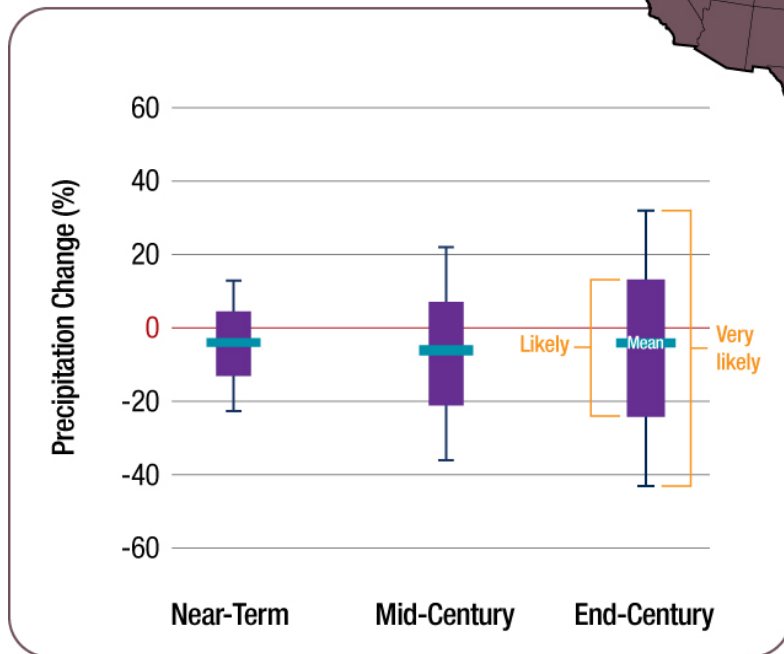
Southwest

Projected Change in Spring Precipitation (%)



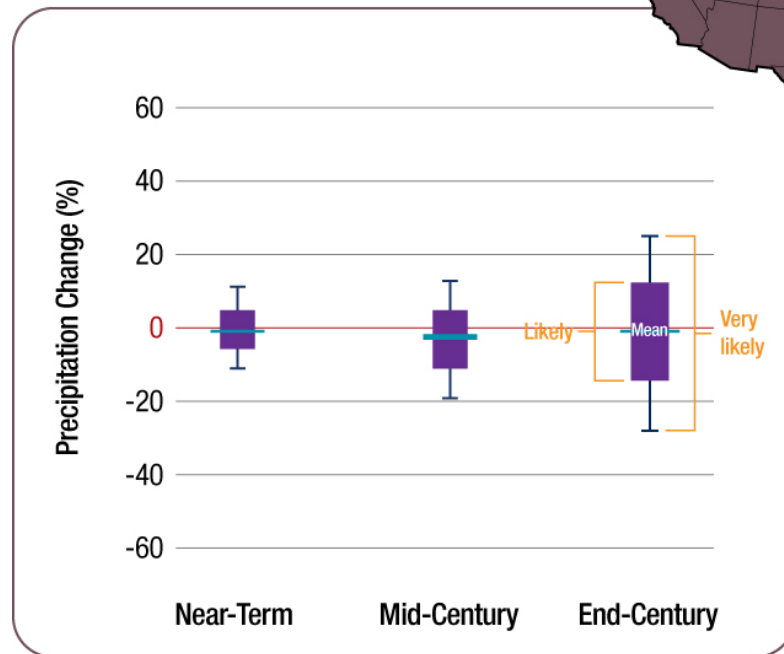
Southwest

Projected Change in Summer Precipitation (%)



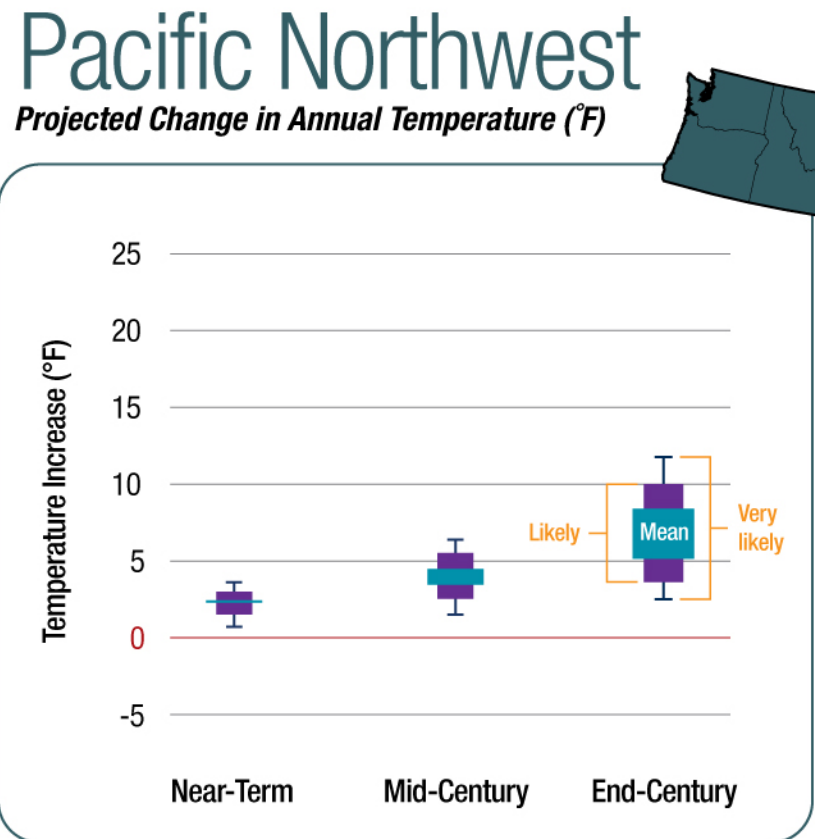
Southwest

Projected Change in Fall Precipitation (%)



B.7 Northwest Projections

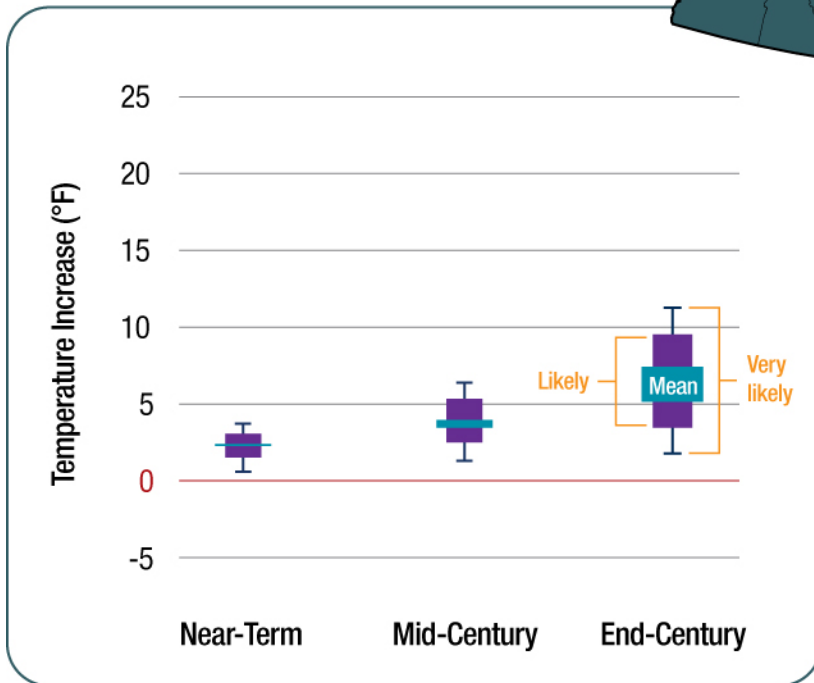
B.7.1 Projected Increases in Annual Temperature



B.7.2 Projected Increases in Seasonal Temperature

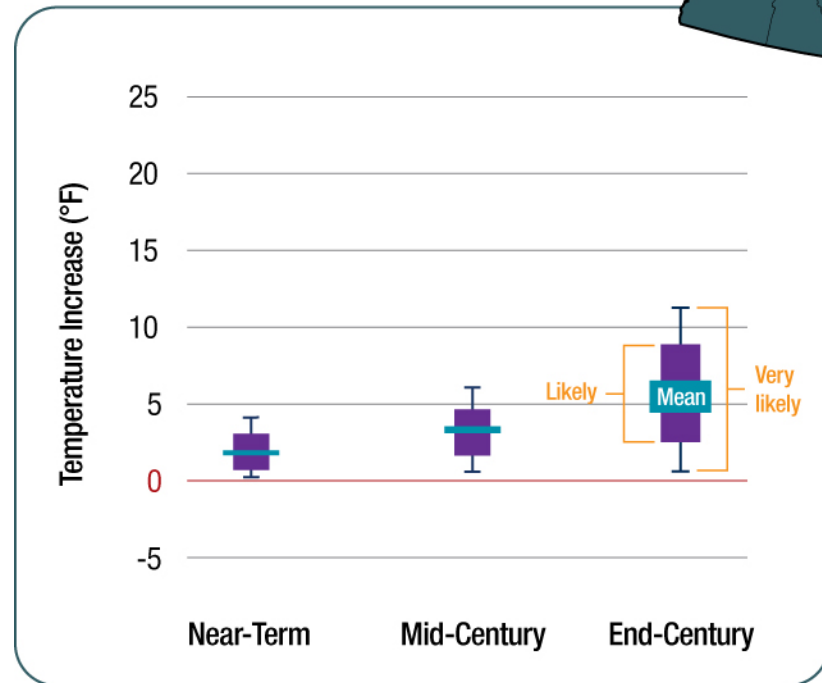
Pacific Northwest

Projected Change in Winter Temperature (°F)



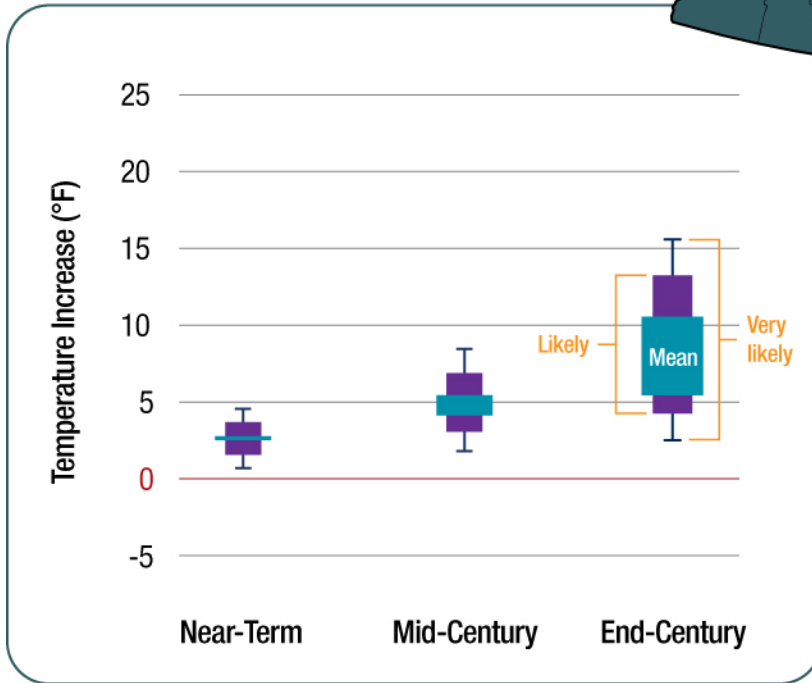
Pacific Northwest

Projected Change in Spring Temperature (°F)



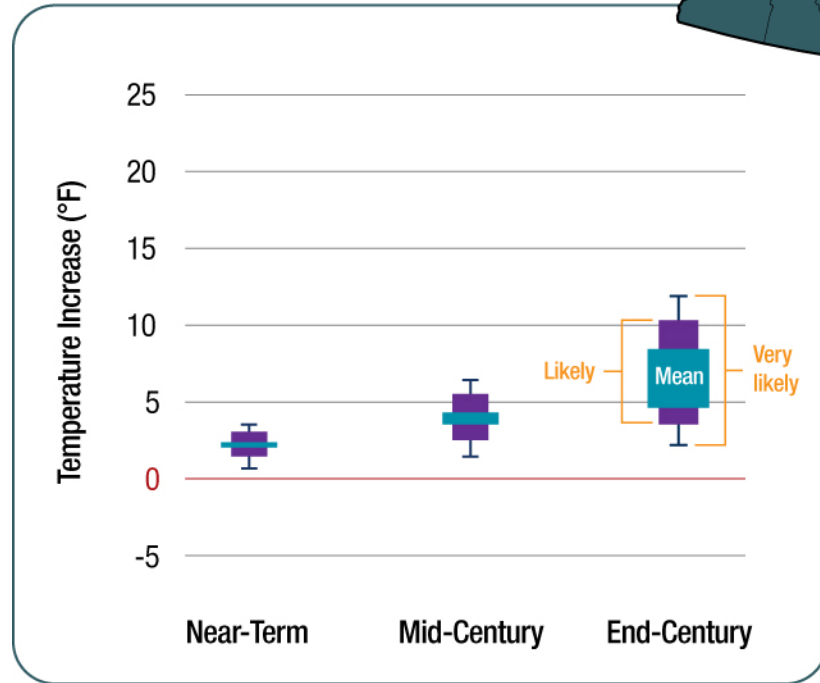
Pacific Northwest

Projected Change in Summer Temperature (°F)



Pacific Northwest

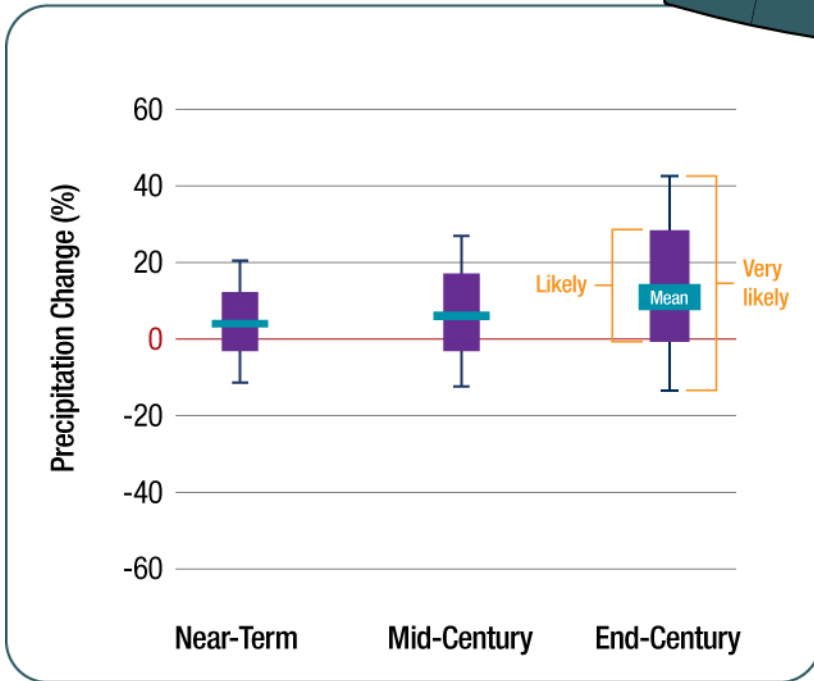
Projected Change in Fall Temperature (°F)



B.7.3 Projected Change in Seasonal Precipitation

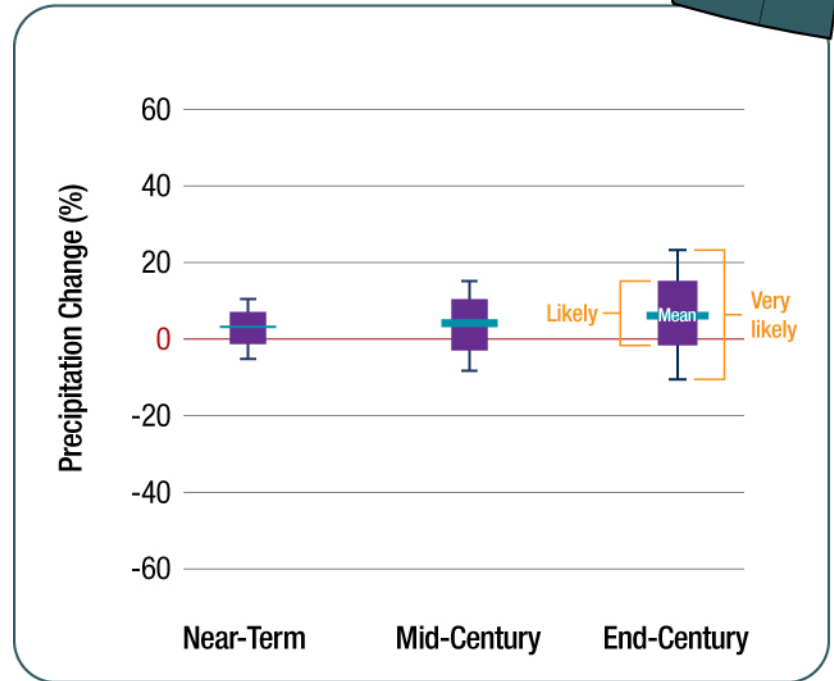
Pacific Northwest

Projected Change in Winter Precipitation (%)



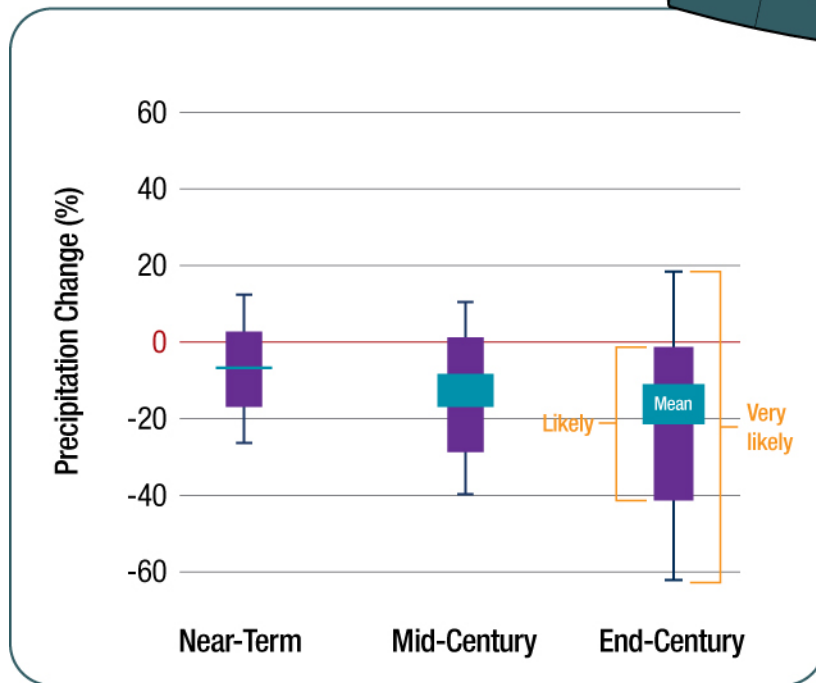
Pacific Northwest

Projected Change in Spring Precipitation (%)



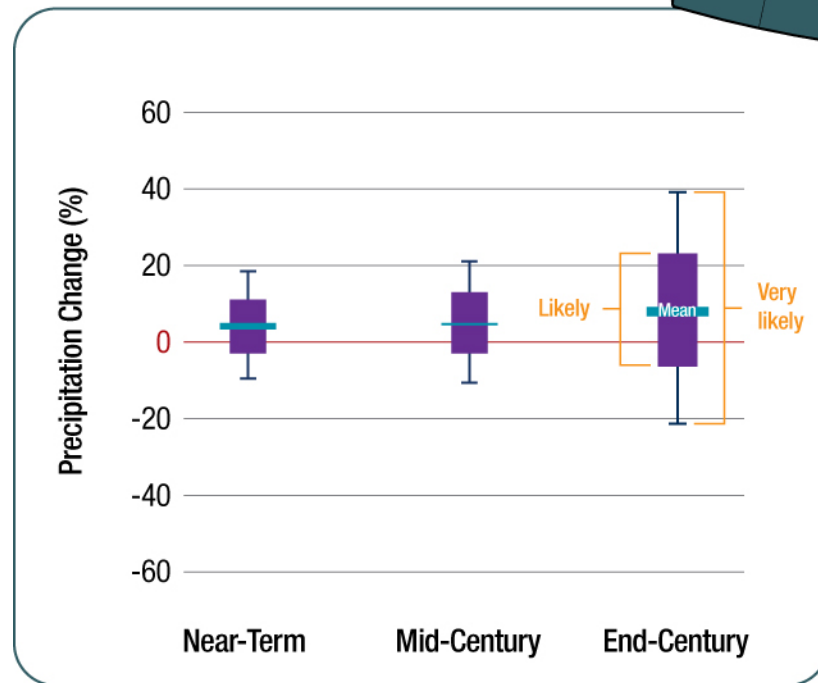
Pacific Northwest

Projected Change in Summer Precipitation (%)



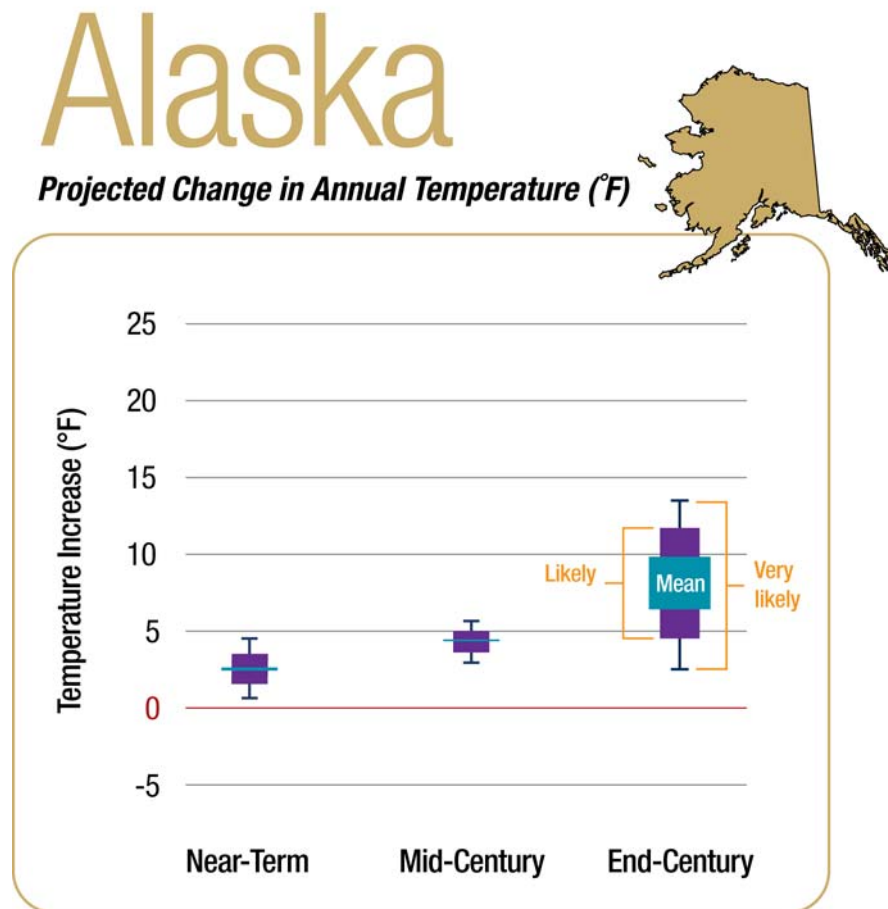
Pacific Northwest

Projected Change in Fall Precipitation (%)



B.8 Alaska Projections

B.8.1 Projected Increases in Annual Temperature

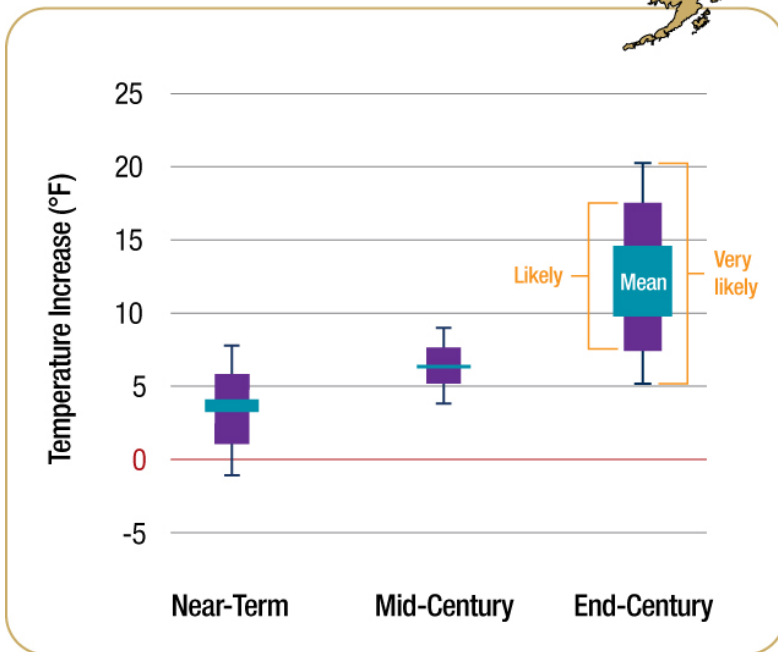


B.8.2 Projected Increases in Seasonal Temperature

Alaska



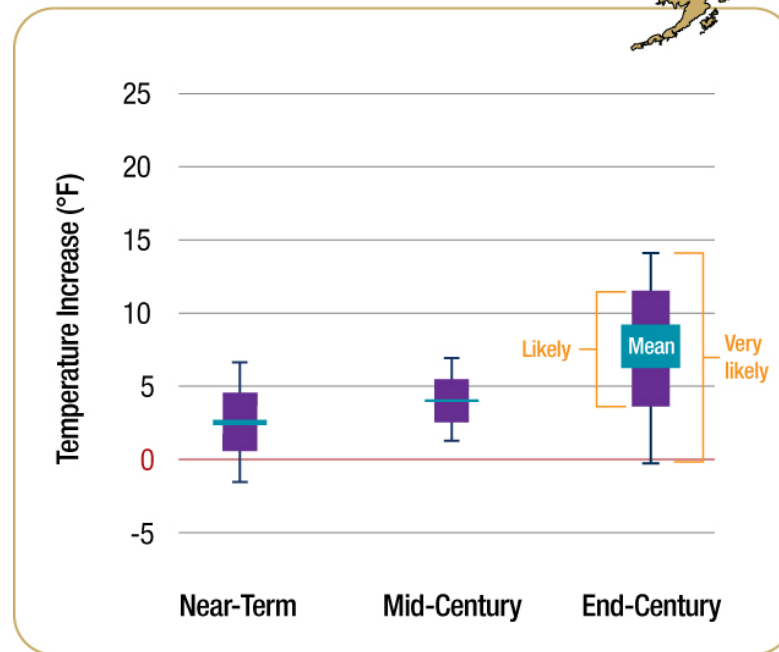
Projected Change in Winter Temperature (°F)



Alaska

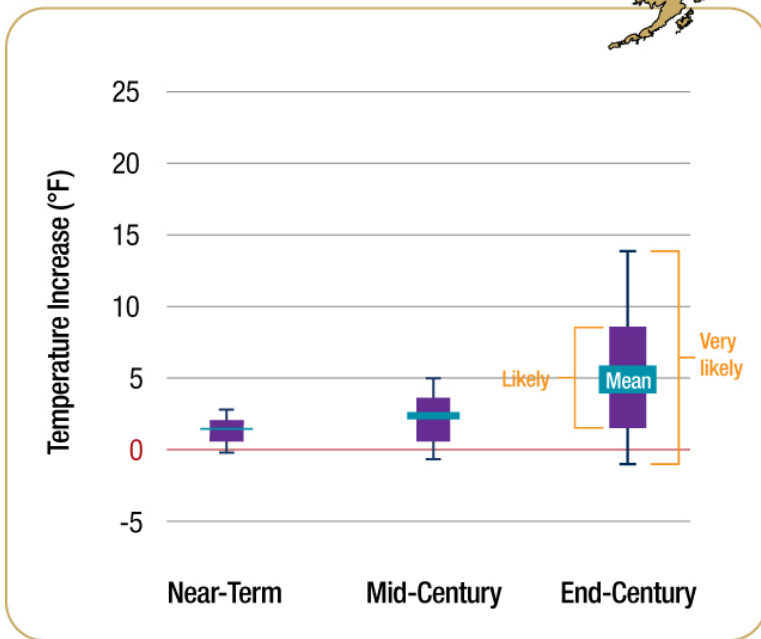


Projected Change in Spring Temperature (°F)



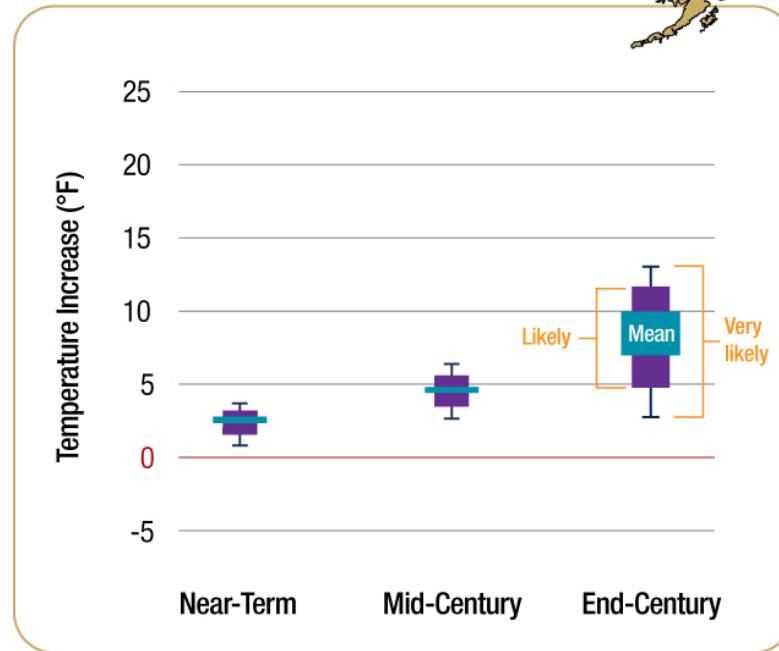
Alaska

Projected Change in Summer Temperature (°F)



Alaska

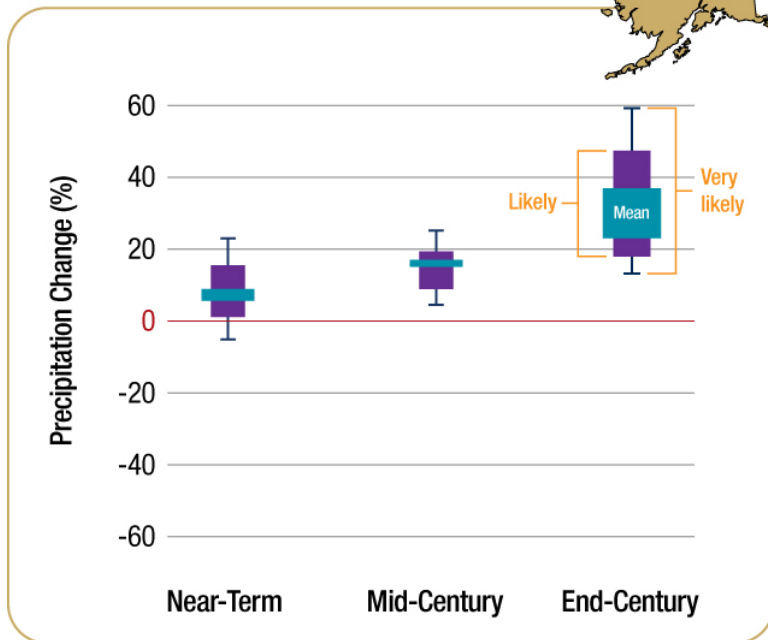
Projected Change in Fall Temperature (°F)



B.8.3 Projected Change in Seasonal Precipitation

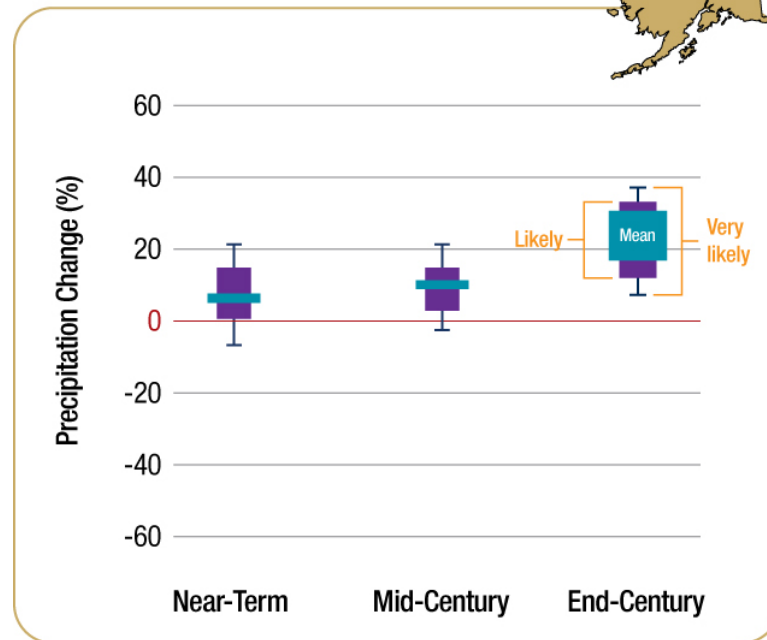
Alaska

Projected Change in Winter Precipitation (%)



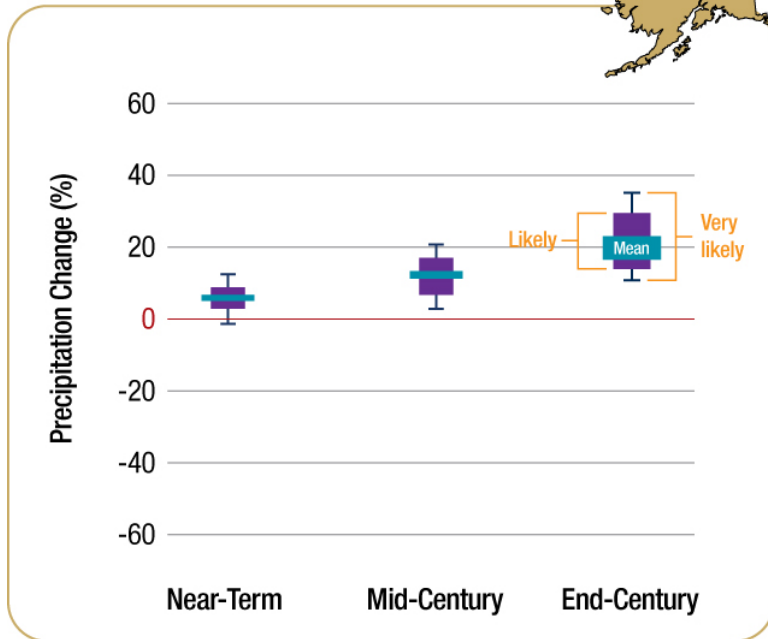
Alaska

Projected Change in Spring Precipitation (%)



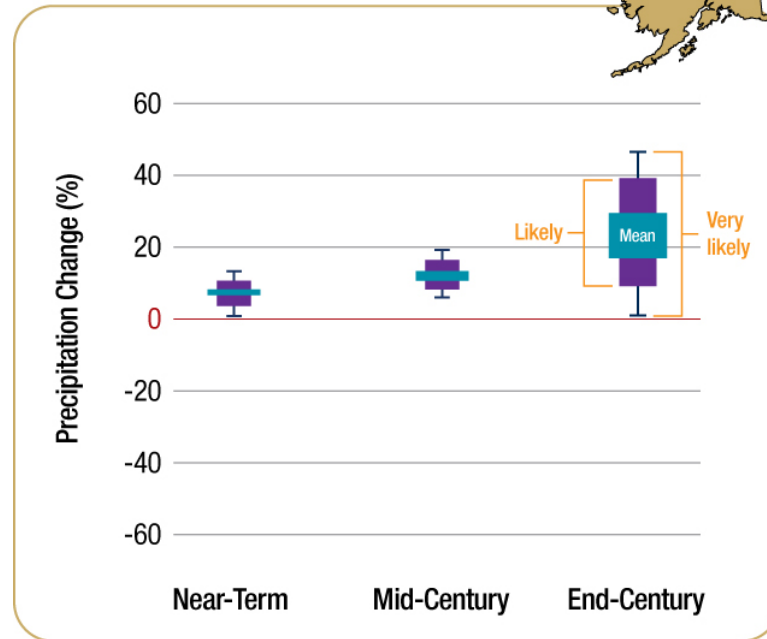
Alaska

Projected Change in Summer Precipitation (%)



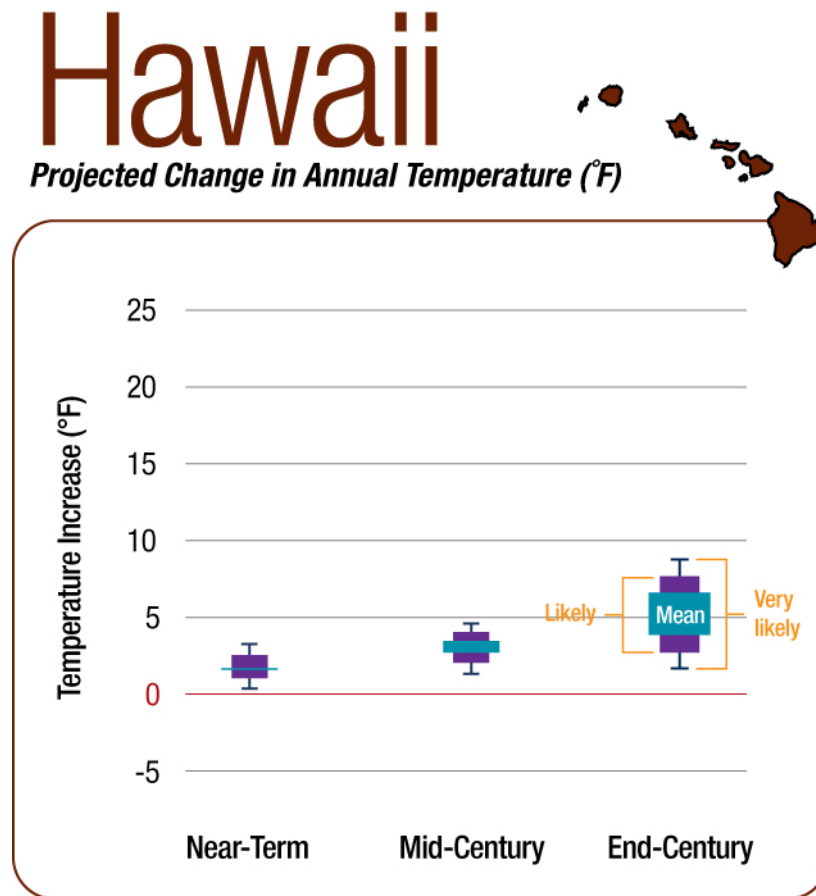
Alaska

Projected Change in Fall Precipitation (%)



B.9 Hawaii Projections

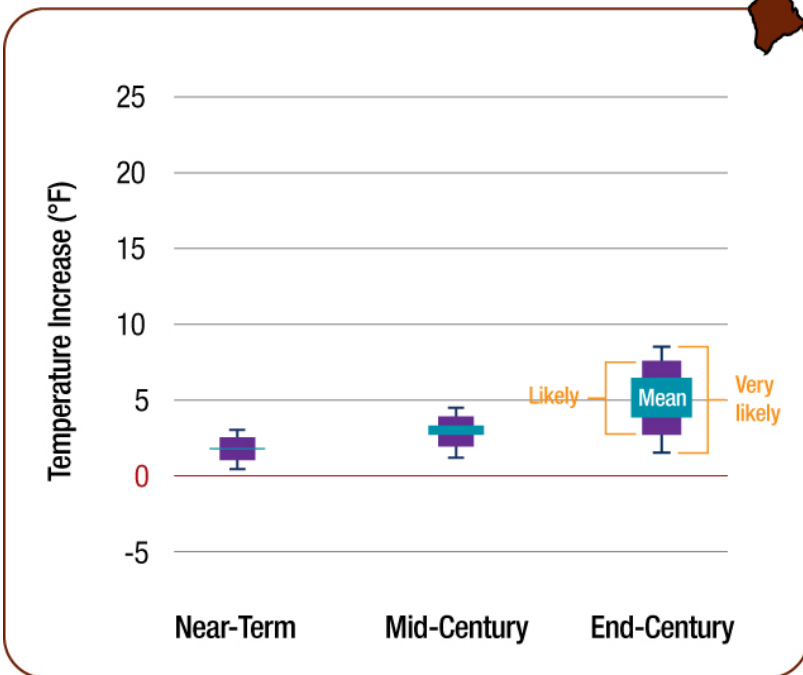
B.9.1 Projected Increases in Annual Temperature



B.9.2 Projected Increases in Seasonal Temperature

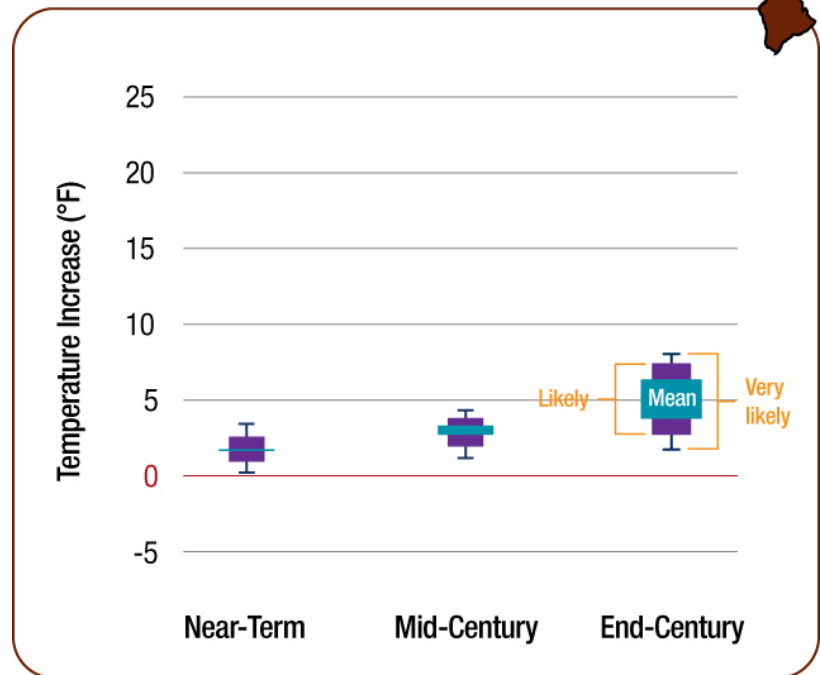
Hawaii

Projected Change in Winter Temperature (°F)



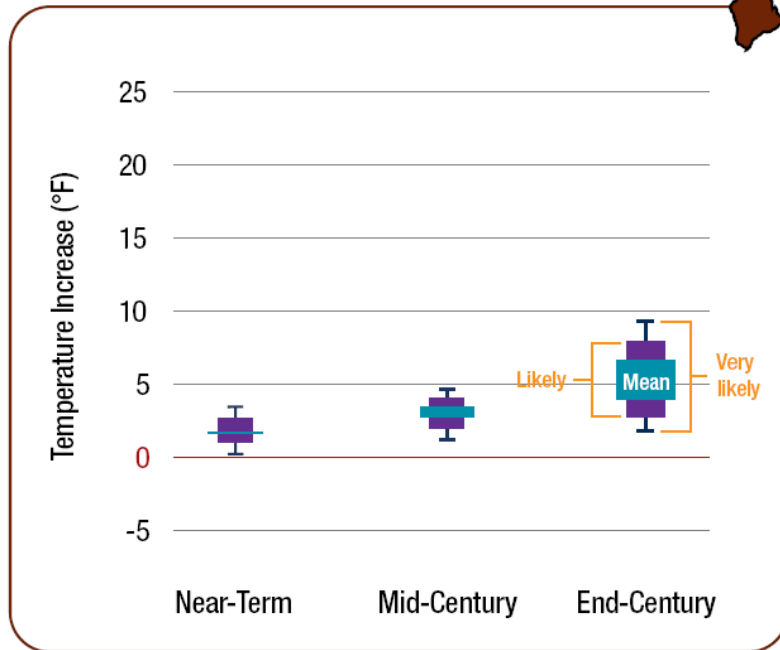
Hawaii

Projected Change in Spring Temperature (°F)



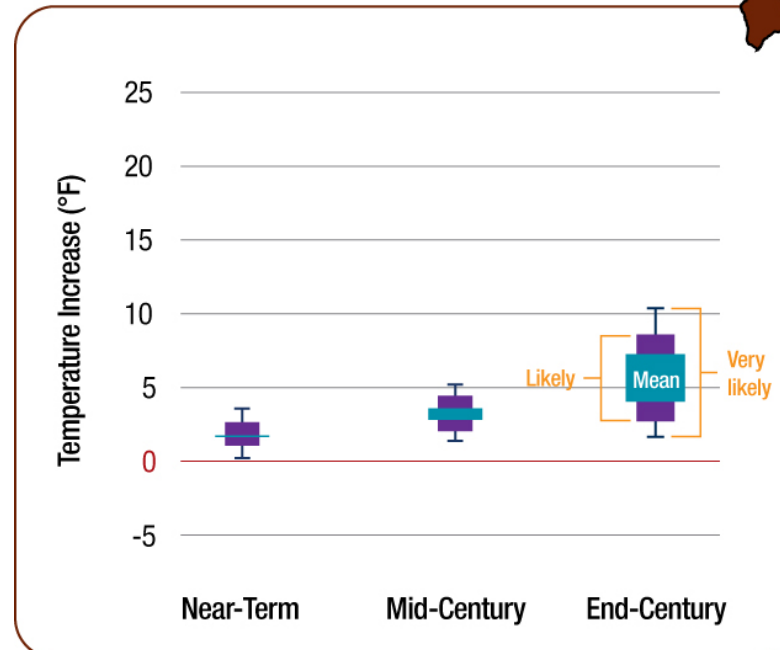
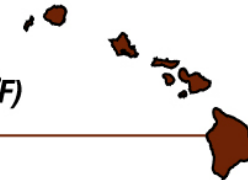
Hawaii

Projected Change in Summer Temperature (°F)



Hawaii

Projected Change in Fall Temperature (°F)

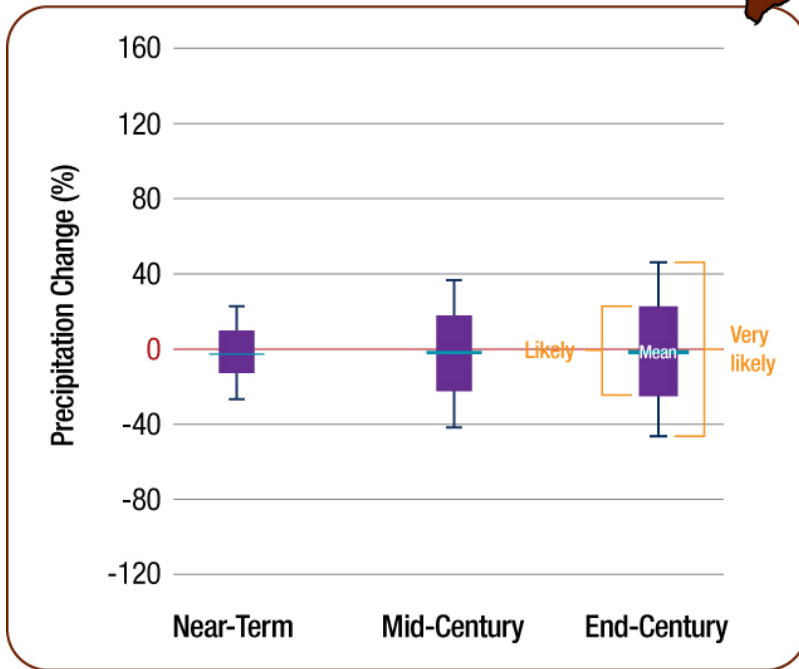


B.9.3 Projected Change in Seasonal Precipitation

Hawaii



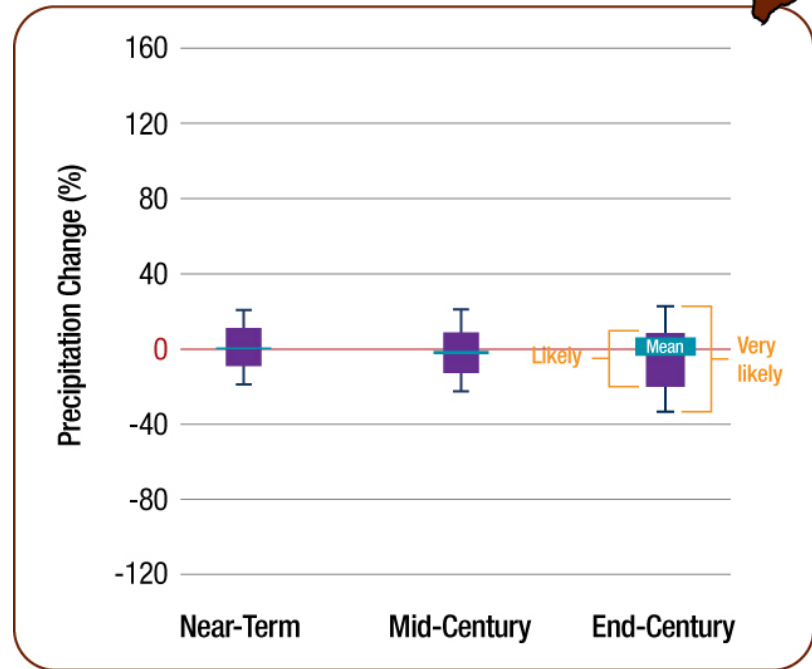
Projected Change in Winter Precipitation (%)



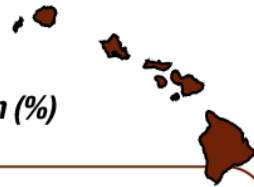
Hawaii



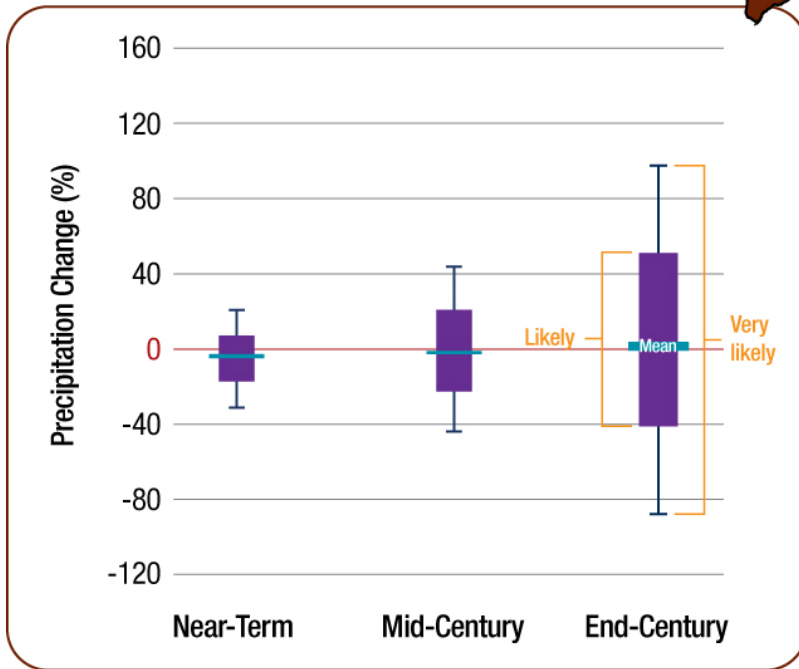
Projected Change in Spring Precipitation (%)



Hawaii



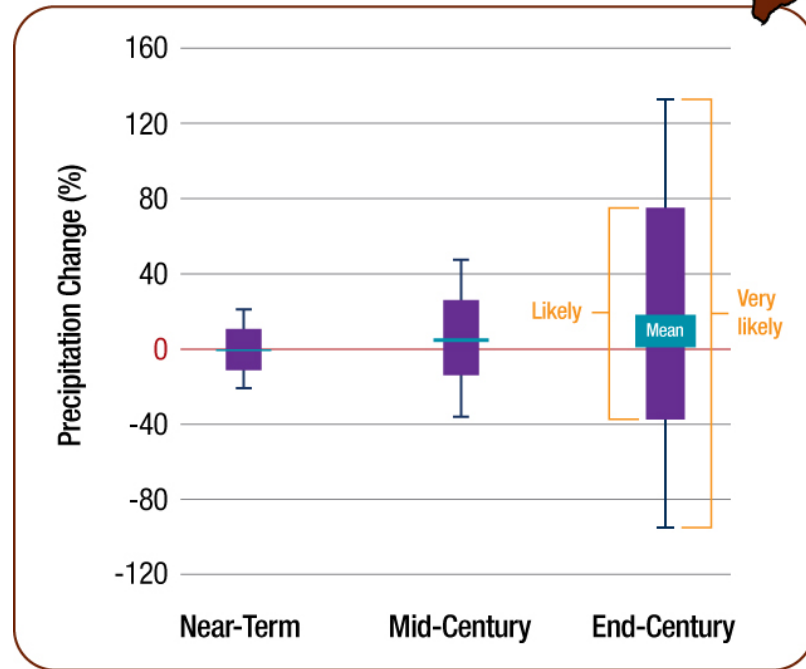
Projected Change in Summer Precipitation (%)



Hawaii



Projected Change in Fall Precipitation (%)

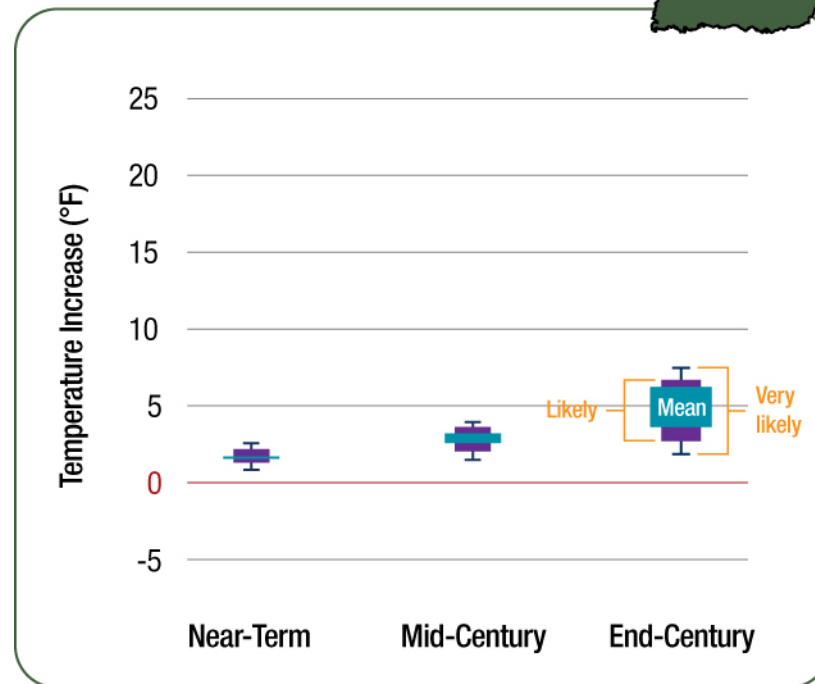


B.10 Puerto Rico Projections

B.10.1 Projected Increases in Annual Temperature

Caribbean

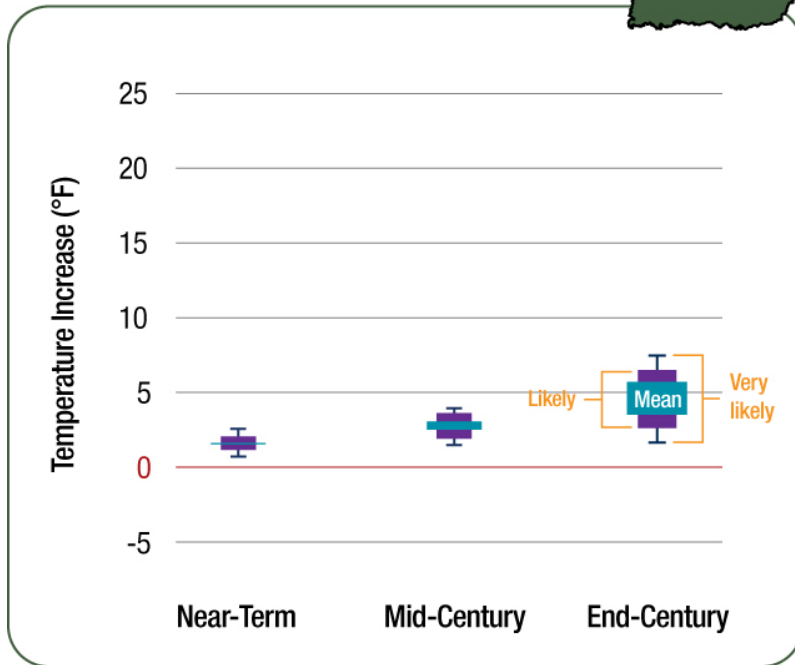
Projected Change in Annual Temperature (°F)



B.10.2 Projected Increases in Seasonal Temperature

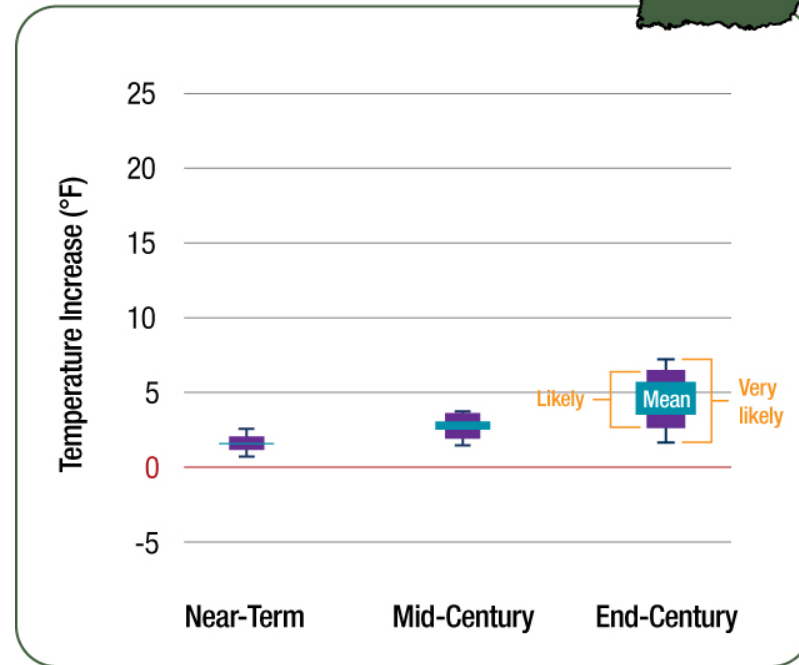
Caribbean

Projected Change in Winter Temperature (°F)



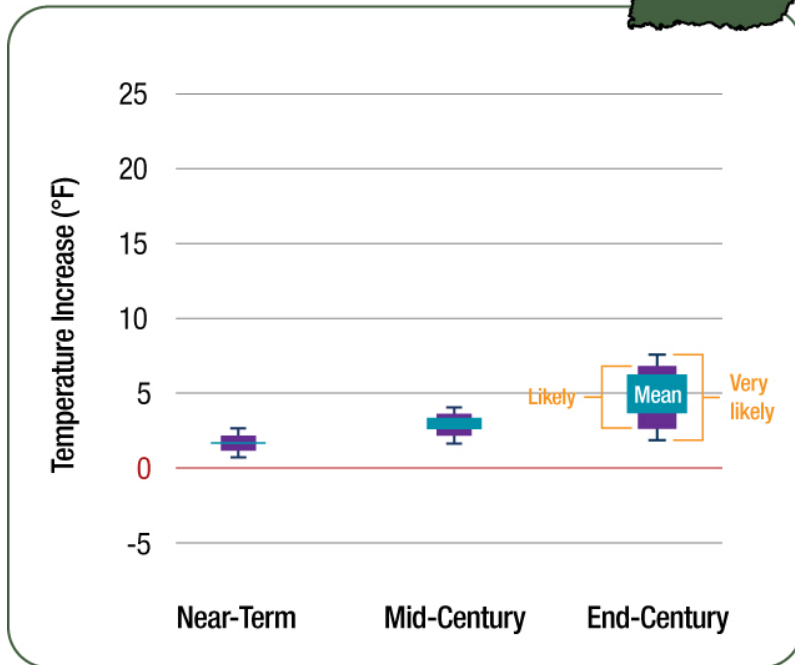
Caribbean

Projected Change in Spring Temperature (°F)



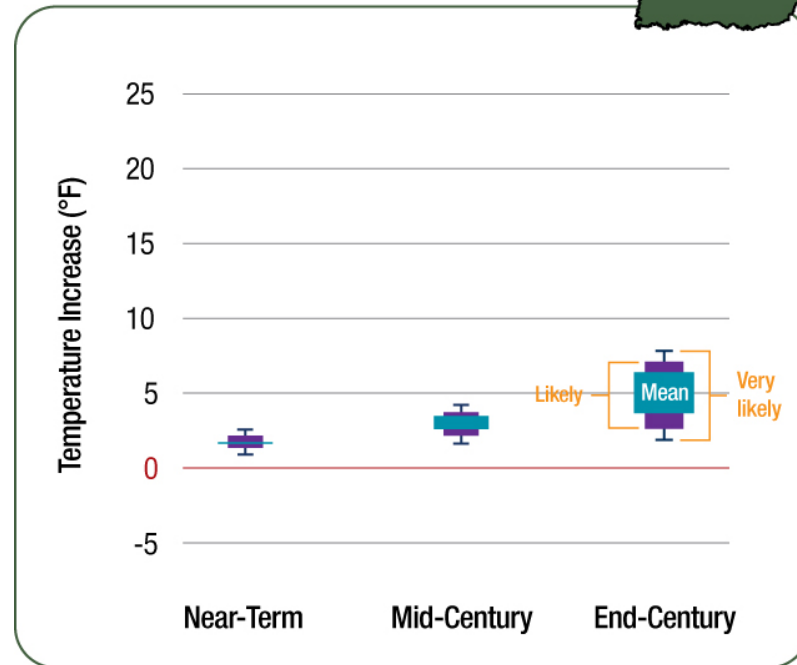
Caribbean

Projected Change in Summer Temperature (°F)



Caribbean

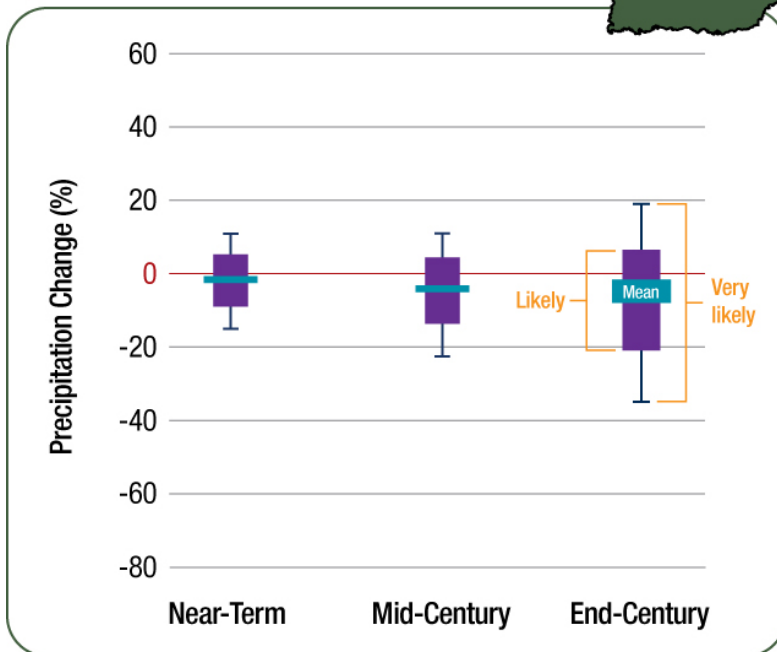
Projected Change in Fall Temperature (°F)



B.10.3 Projected Change in Seasonal Precipitation

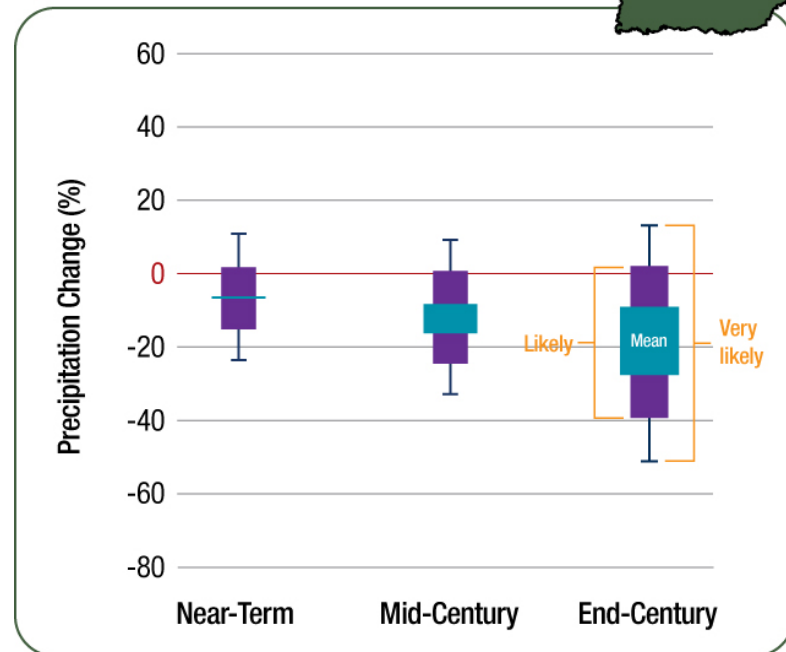
Caribbean

Projected Change in Winter Precipitation (%)



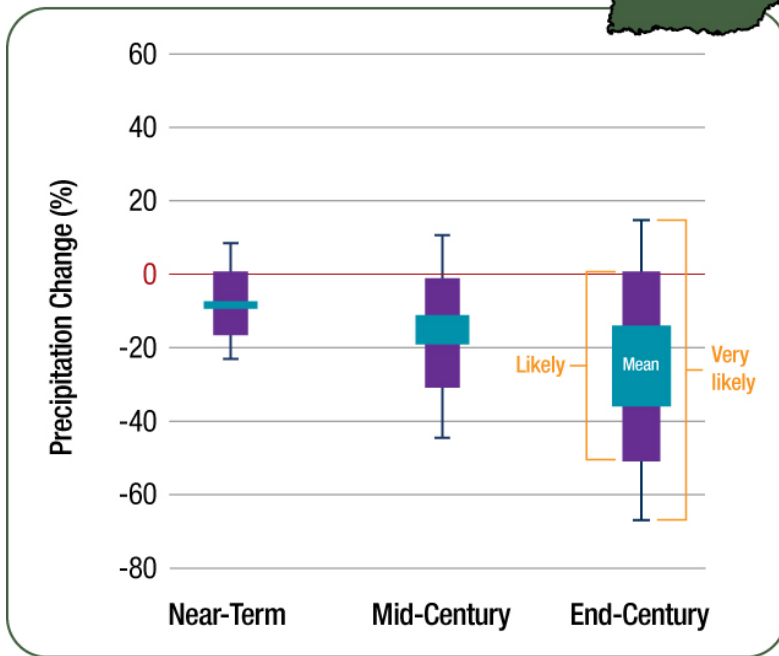
Caribbean

Projected Change in Spring Precipitation (%)



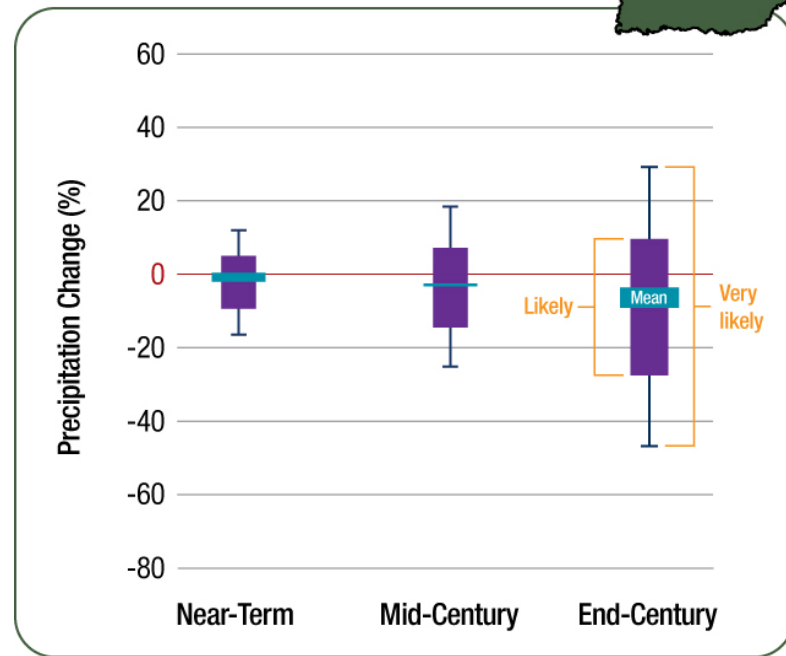
Caribbean

Projected Change in Summer Precipitation (%)



Caribbean

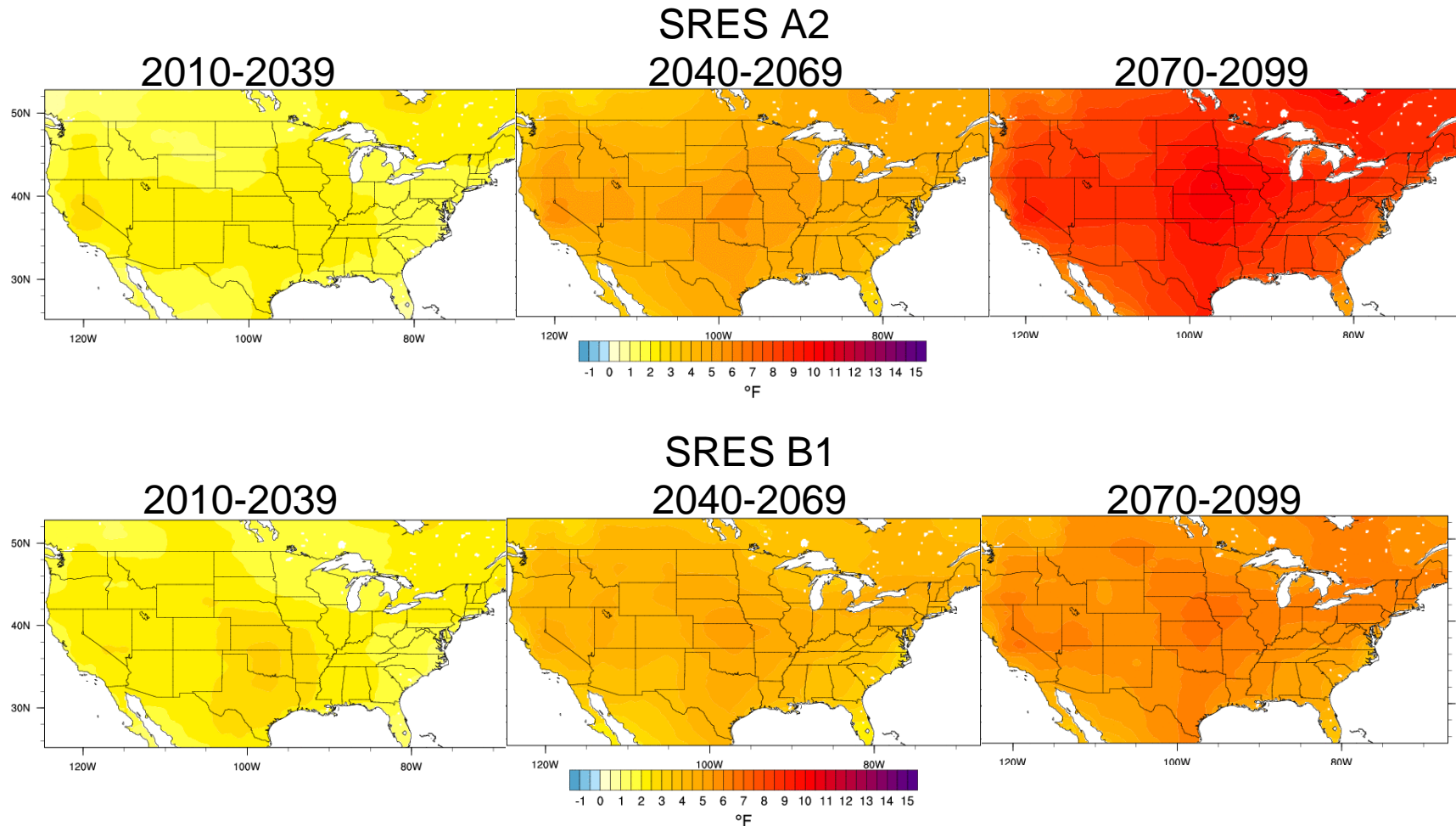
Projected Change in Fall Precipitation (%)



B.11 Temperature Projections from Downscaled Data

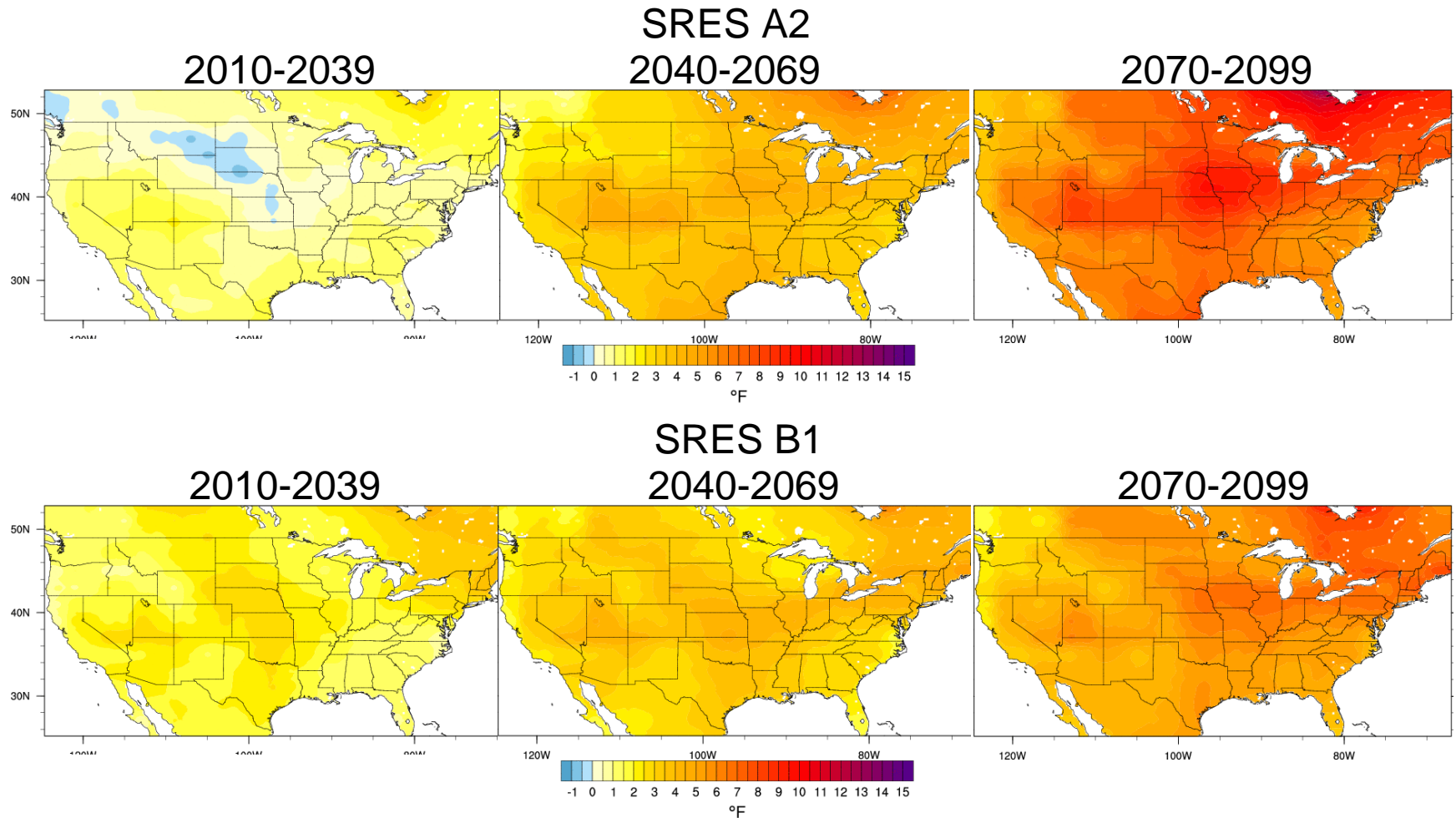
B.11.1 Projected Annual Temperature Anomalies

ANNUAL TEMPERATURE CHANGE



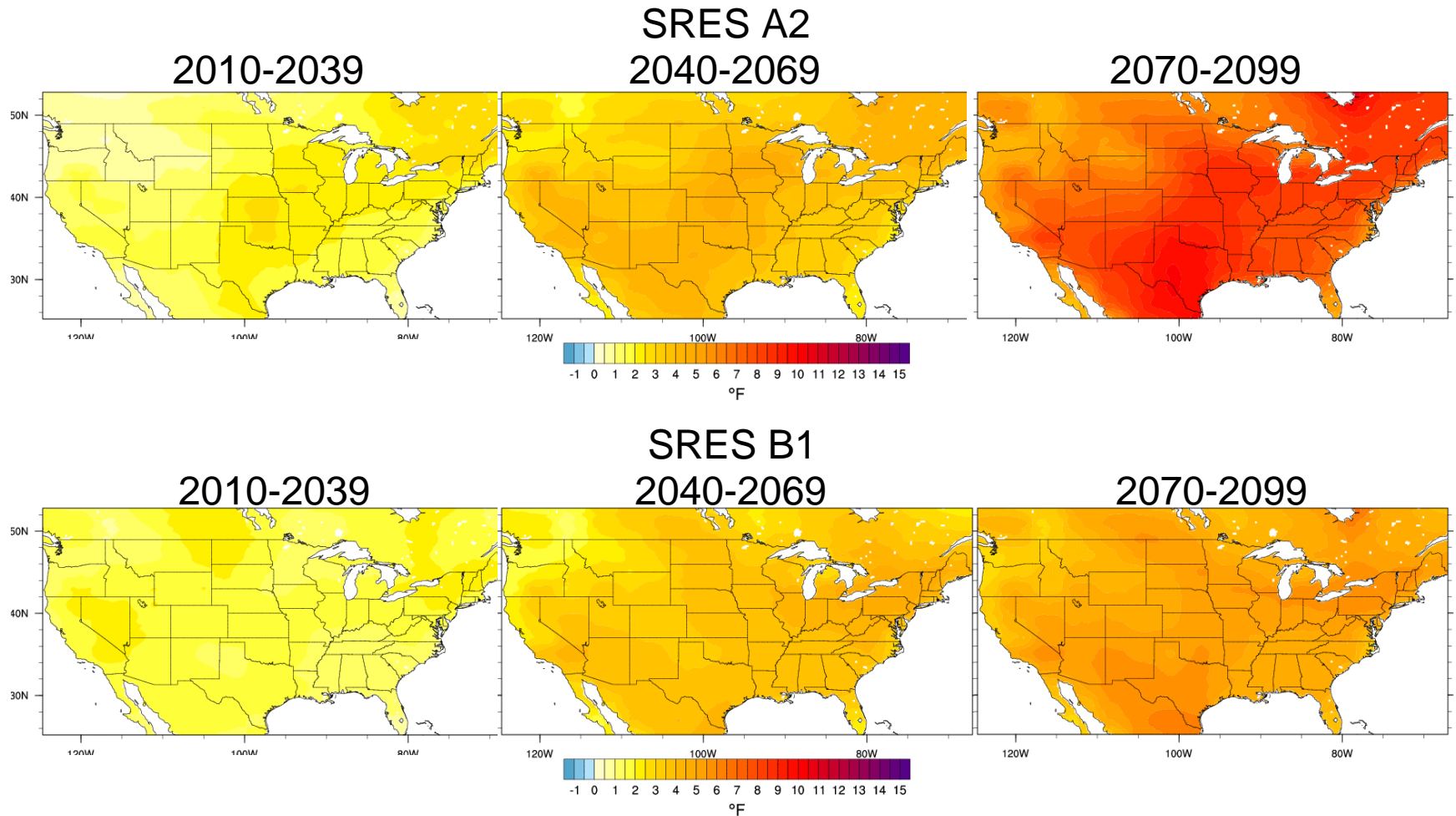
B.11.2 Projected Winter Temperature Anomalies

WINTER (DJF) TEMPERATURE CHANGE



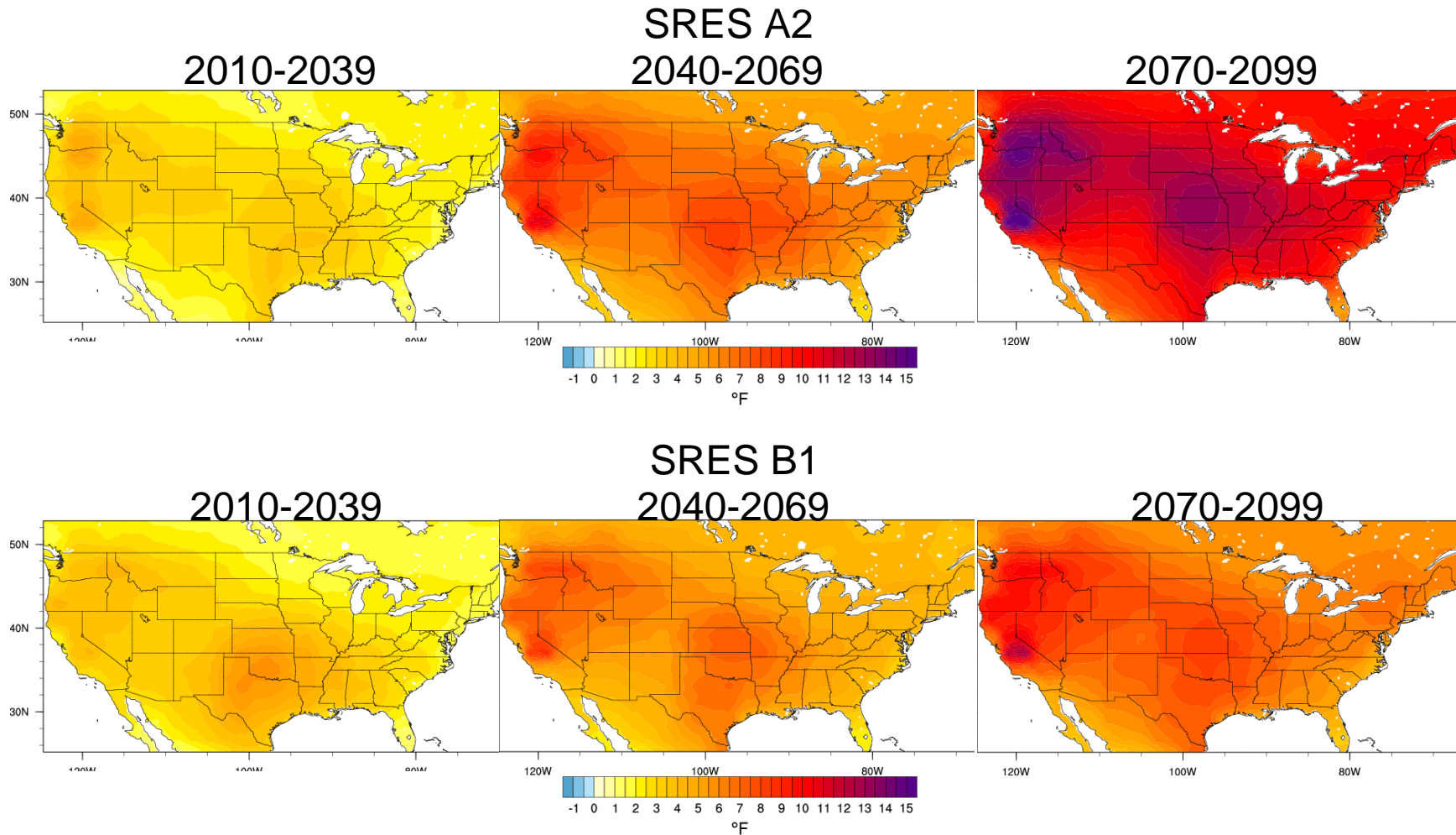
B.11.3 Projected Spring Temperature Anomalies

SPRING (MAM) TEMPERATURE CHANGE



B.11.4 Projected Summer Temperature Anomalies

SUMMER (JJA) TEMPERATURE CHANGE



B.11.5 Projected Fall Temperature Anomalies

FALL (SON) TEMPERATURE CHANGE

