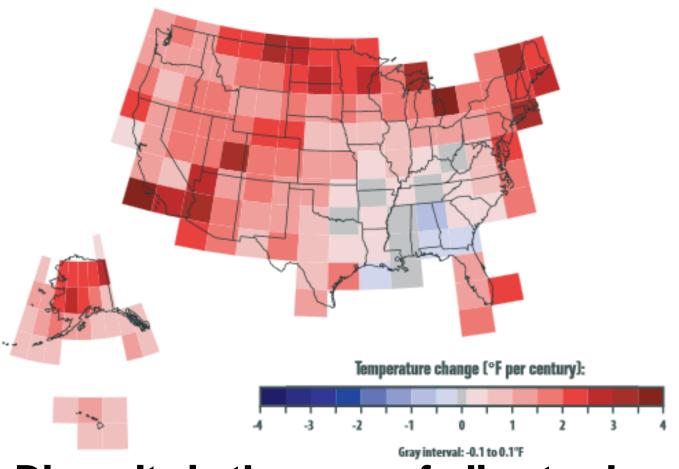


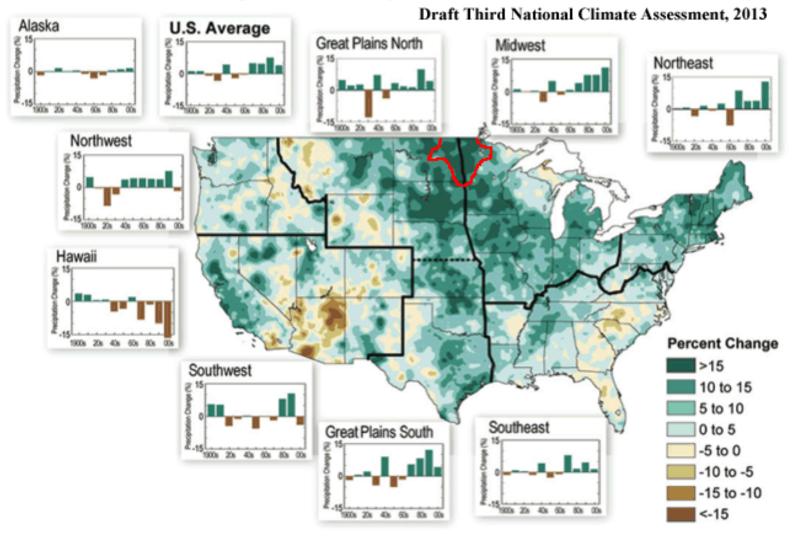
Figure 3. Rate of Temperature Change in the United States, 1901–2008

This figure shows how average air temperatures have changed in different parts of the United States since the early 20th century (since 1901 for the lower 48 states, 1905 for Hawaii, and 1918 for Alaska).



Disparity in the pace of climate change and the response to it

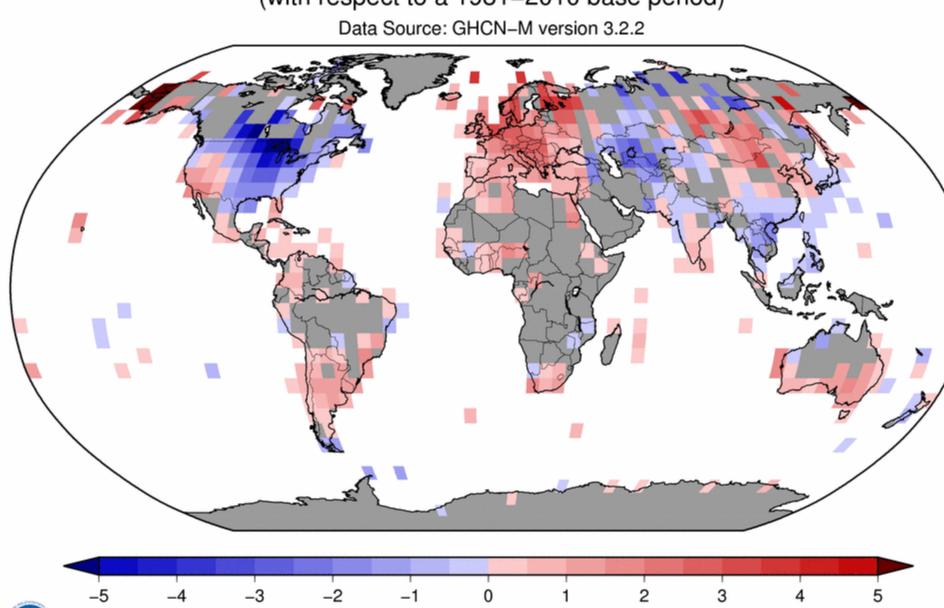
Observed U.S. Precipitation Change, 1991-2011 vs. 1901-1960 Average



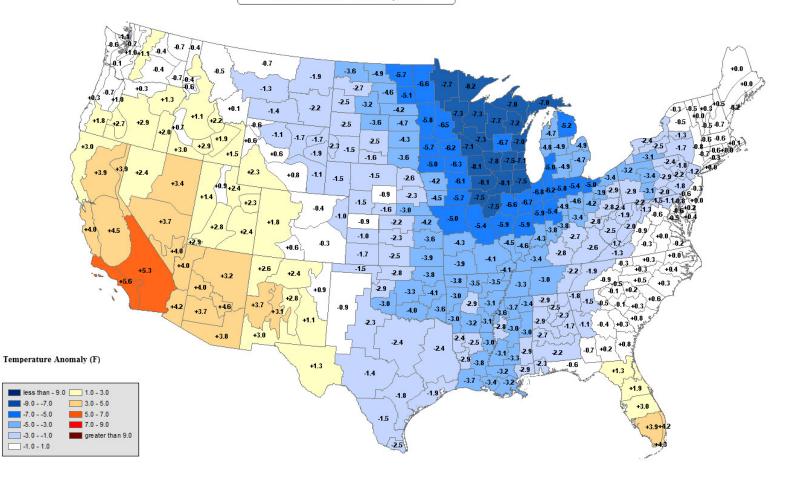
Geographic Disparity in Precipitation Change-IPCC 2013

Land-Only Temperature Anomalies Dec 2013-Feb 2014

(with respect to a 1981–2010 base period)

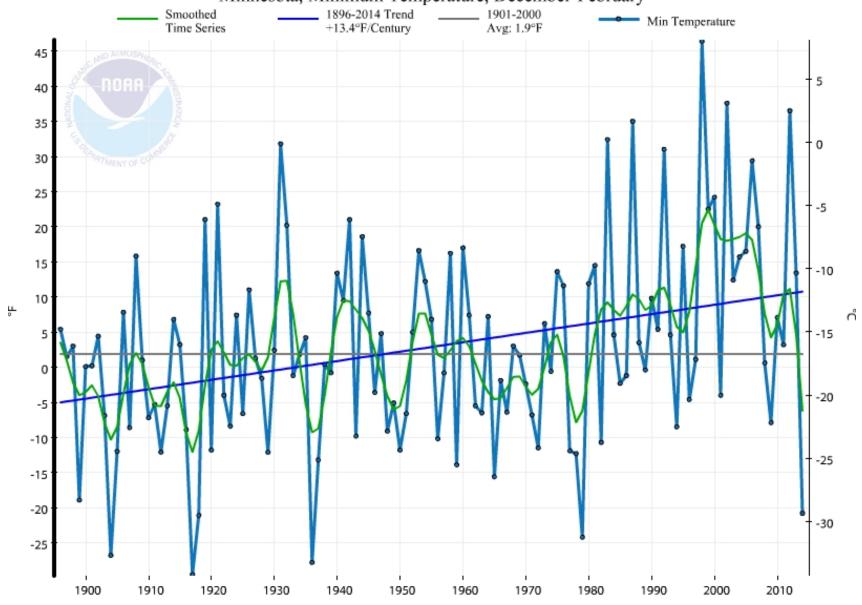


Divisional Average Temperature Anomalies December 2013 - February 2014





Minnesota, Minimum Temperature, December-February



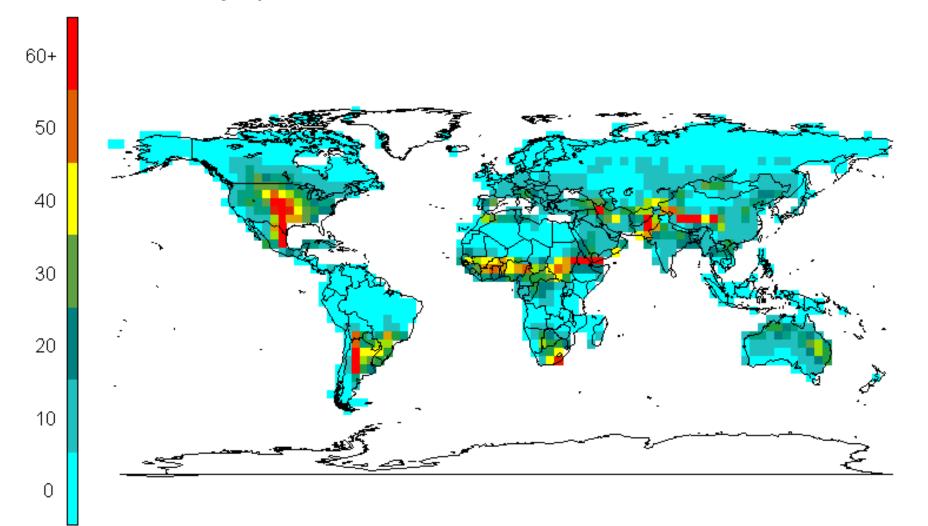
RECENT SIGNIFICANT CLIMATE TRENDS IN MINNESOTA AND THE WESTERN GREAT LAKES

•<u>TEMPERATURE</u>: WARM WINTERS AND HIGHER MINIMUM TEMPERATURES

•<u>DEWPOINTS</u>: GREATER FREQUENCY OF TROPICAL-LIKE ATMOSPHERIC WATER VAPOR

• MOISTURE: AMPLIFIED PRECIPITATION SIGNAL, THUNDERSTORM CONTRIBUTION

Days per Year with Favorable Severe Parameters



from Brooks et al, NOAA-SSL, 2012

