Climate Change Projections for the Mid-21st Century in the Crown of the Continent



Summary of a Climate Change Studies Internship with USDA Forest Service, Northern Region

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Gridded Climate Datasets

- Forest Service Partnership with University of Washington's Climate Impacts Group (CIG)
- CIG Publicly Available Gridded Data
 - 5x5 km grid cell size
 - Historic (1916-2006)
 - Mid-Century Projection (2030-2059)
 - Ensemble Mean GCM (10-model average)
 - Change between Projected and Historic
- Crown of the Continent Variables Analyzed:
- -Average Temp (Seasonal & Annual)
- -Minimum Temp (Seasonal)
- -Maximum Temp (Seasonal)
- -Average Precip. (Seasonal & Annual)



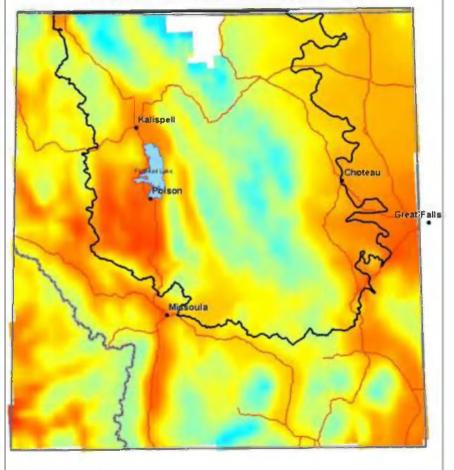


CLIMATE

- -Combined Flow (Seas.)
- -Snow-Water Equivalent
- -Snowpack Vulnerability

Historic Average Annual Temperature (1916-2006)

Mid-Century (2030-2059) Ensemble Mean Projected Average Annual Temperature

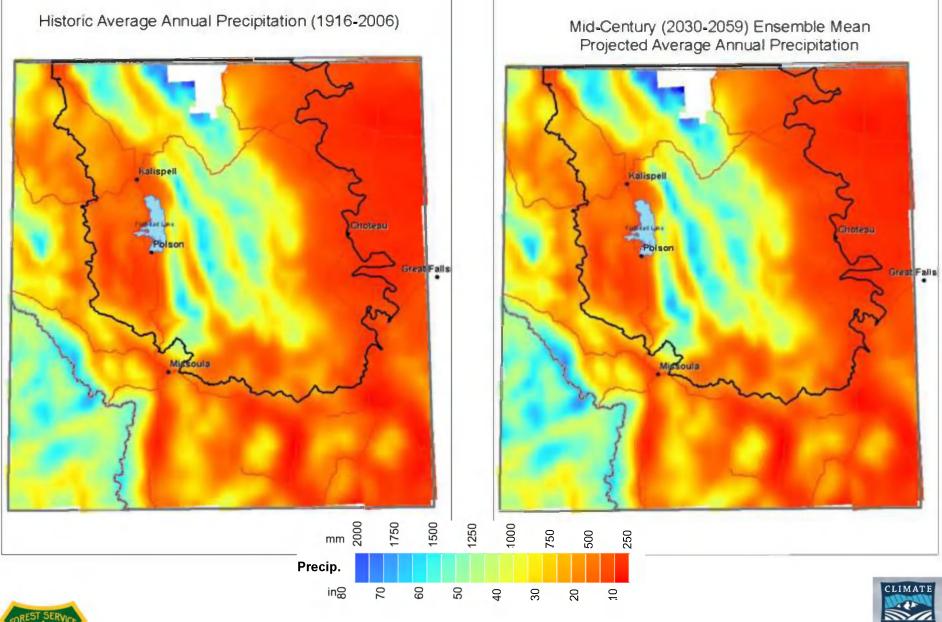






Climate models project increases in surface air temperatures in the COC for the mid-21st century.

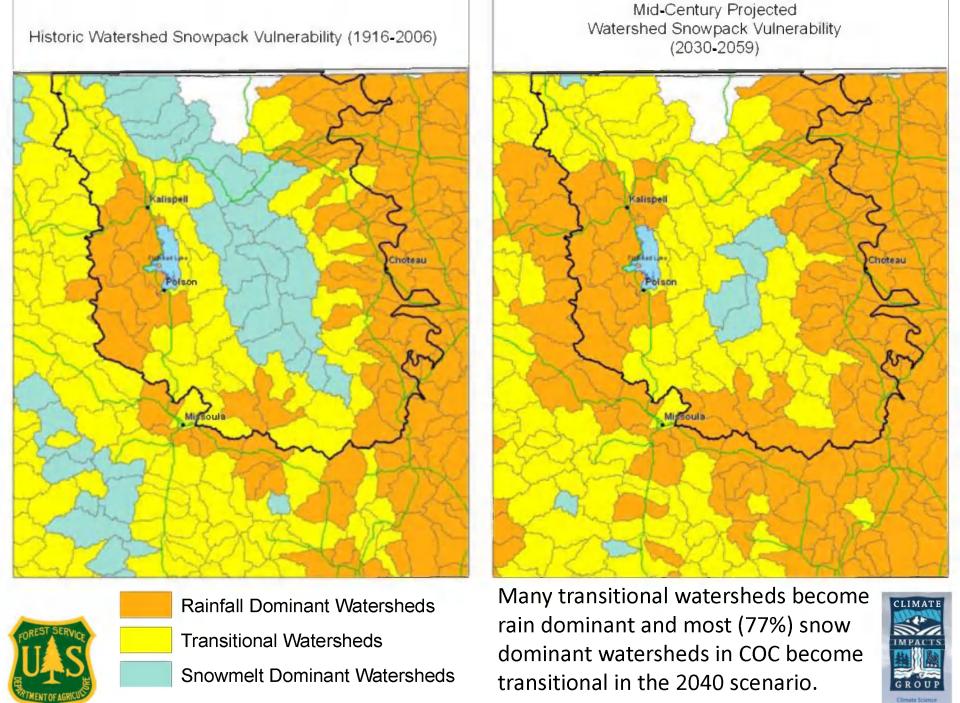






Climate models project increases in average annual precipitation, mainly in mid- to high-elevation areas of the COC.







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Jim Morrison
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