



Climate Change in Southern California
Addressing our Epoch's Extraordinary Challenge
February 22, 2017
Jonathan Parfrey □ Climate Resolve





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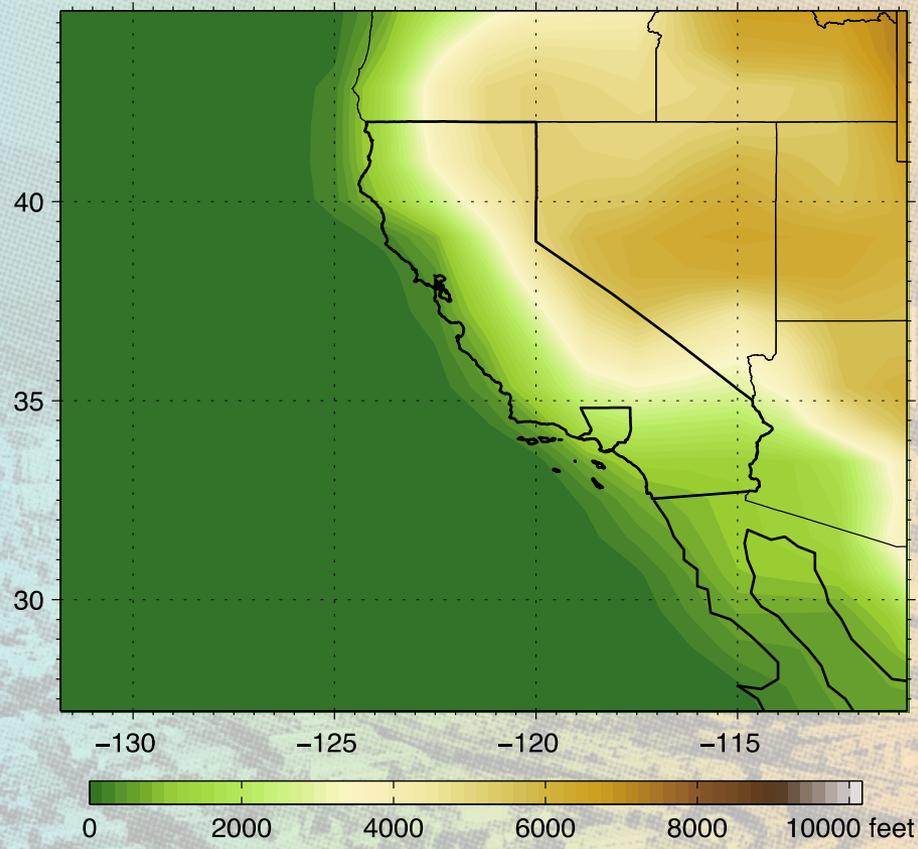




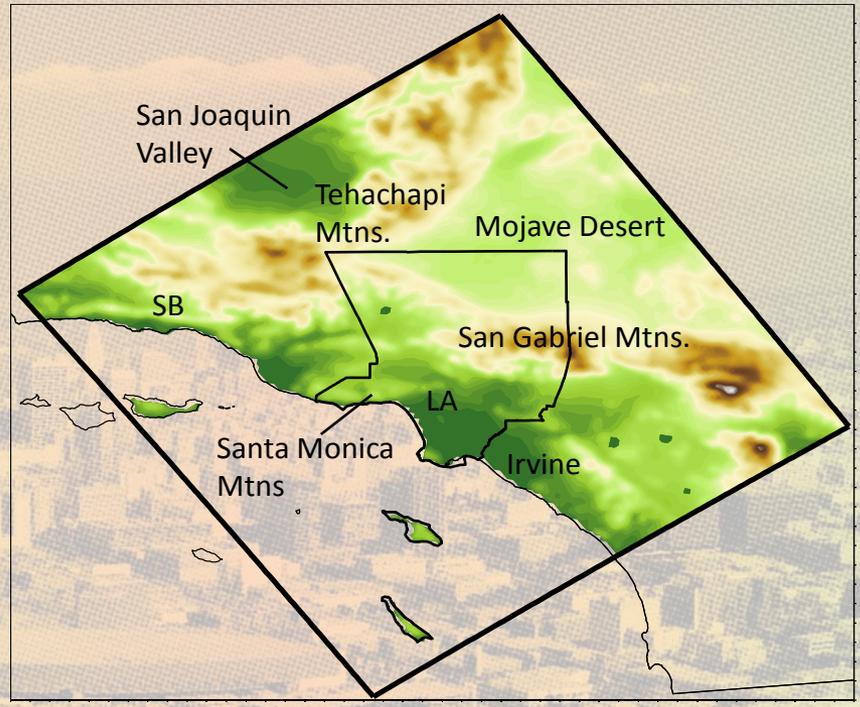


L.A. Future Temperature • 2041-2060

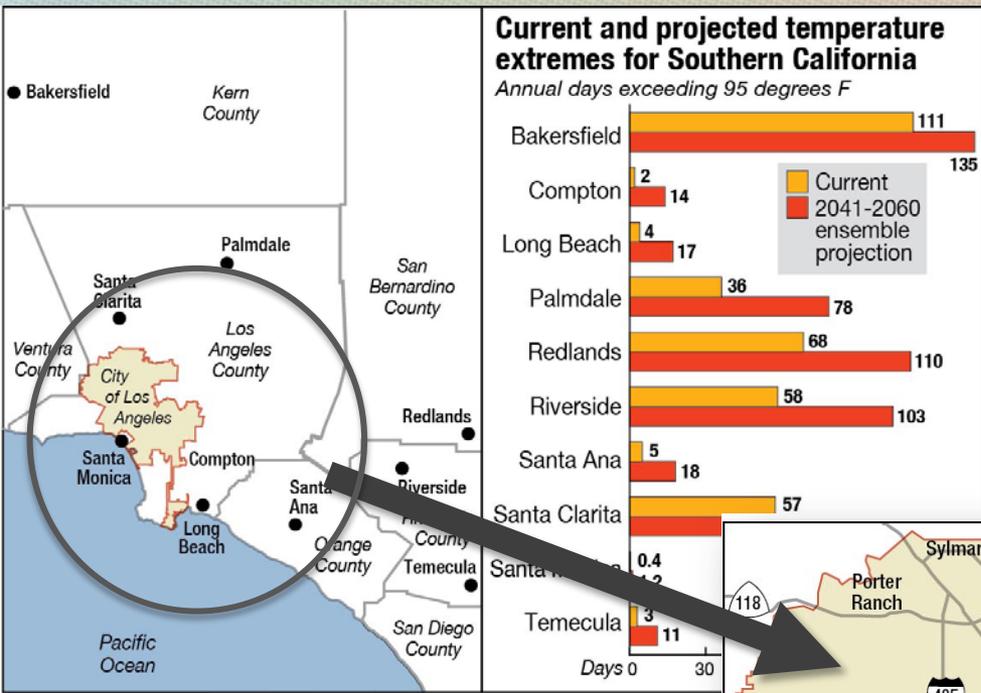




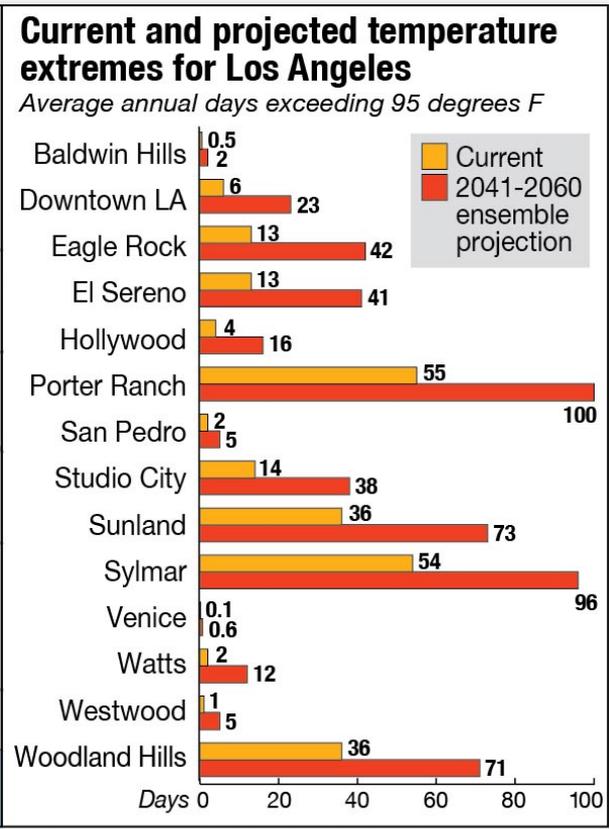
Topography from a typical global climate model (100-200 km)



Topography and coastline are very well represented in the 2 km resolution innermost domain of the regional climate model



Source: UCLA LARC study, 2012; chart based on the mean/average projected by the 18 climate models



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Los Angeles Temperature, 2041-2060

- **Coastal areas – 3-4°F**
- **San Fernando & San Gabriel valleys – 4-4.5°F**
- **Mountains and Deserts - 4.5-5.5°**
- **Doubling, tripling or quadrupling extreme heat days**

Rain & Snow in Los Angeles





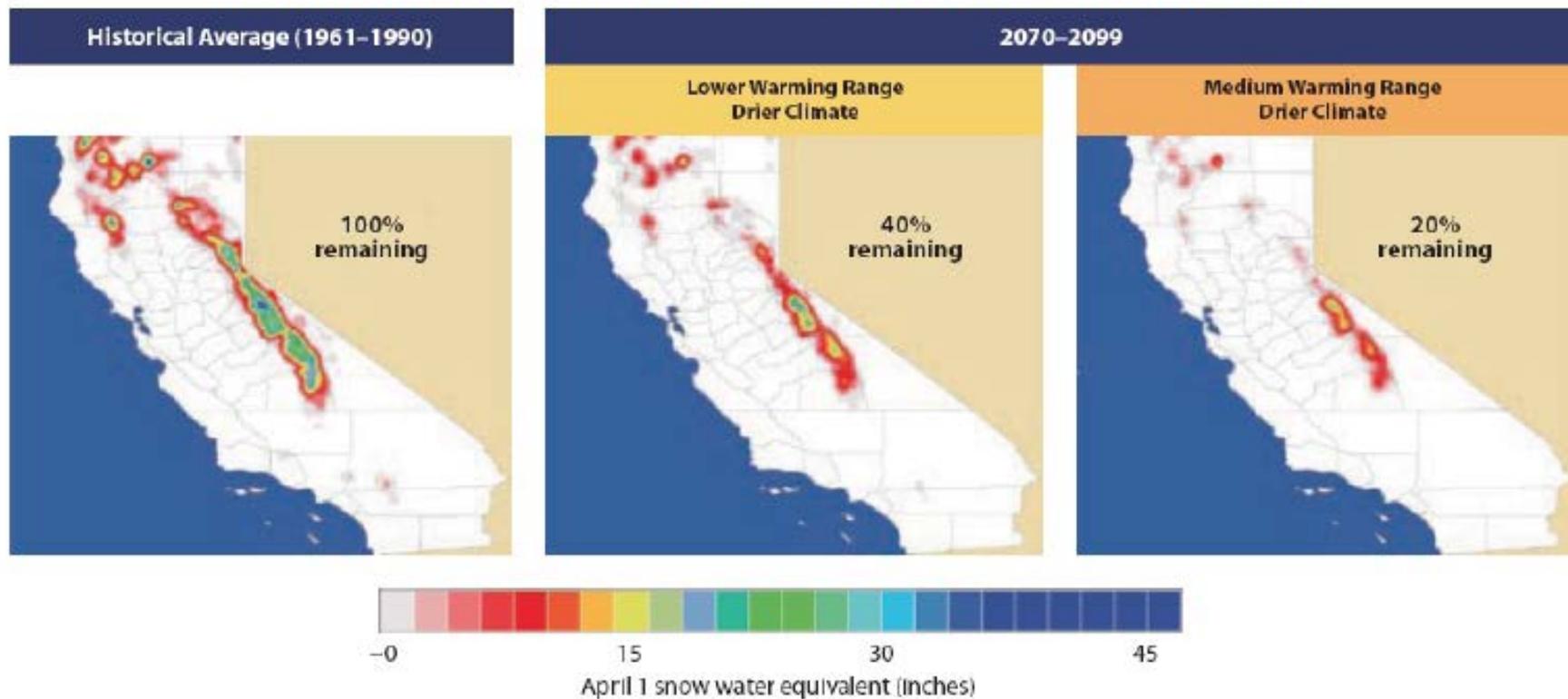






Decreasing California Snowpack

Snow pack acts as a natural reservoir for summer and fall water supply. Its capacity is projected to decrease significantly in a warmer climate.





PREDICTED SNOWFALL IN 2050



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