



Climate Change in Southern California

Addressing our Era's Extraordinary Challenge

October 14, 2015

Jonathan Parfrey □ Climate Resolve





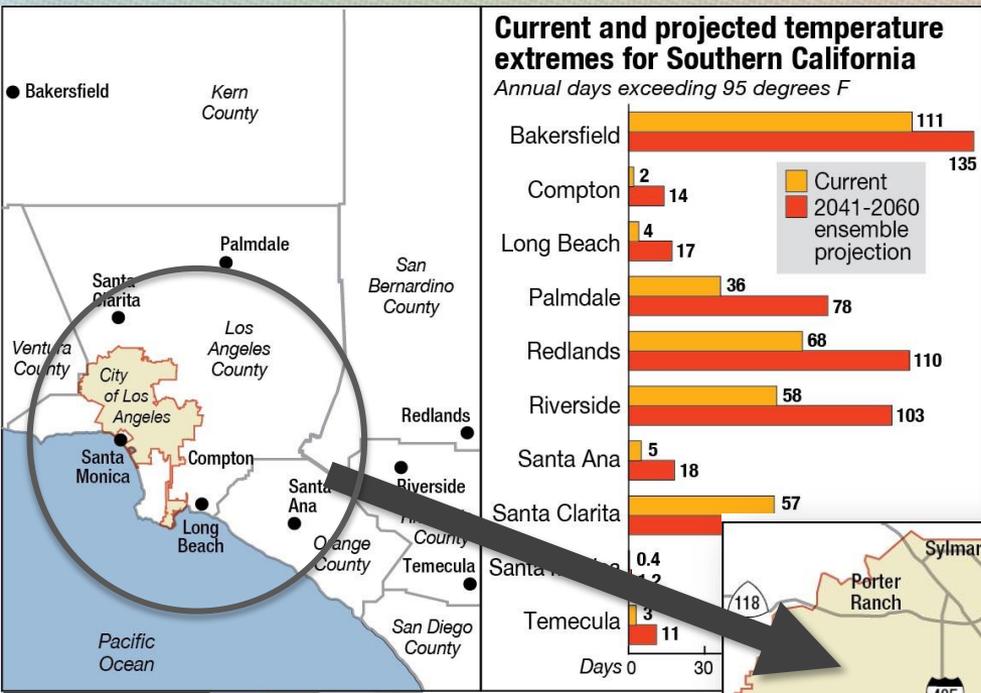




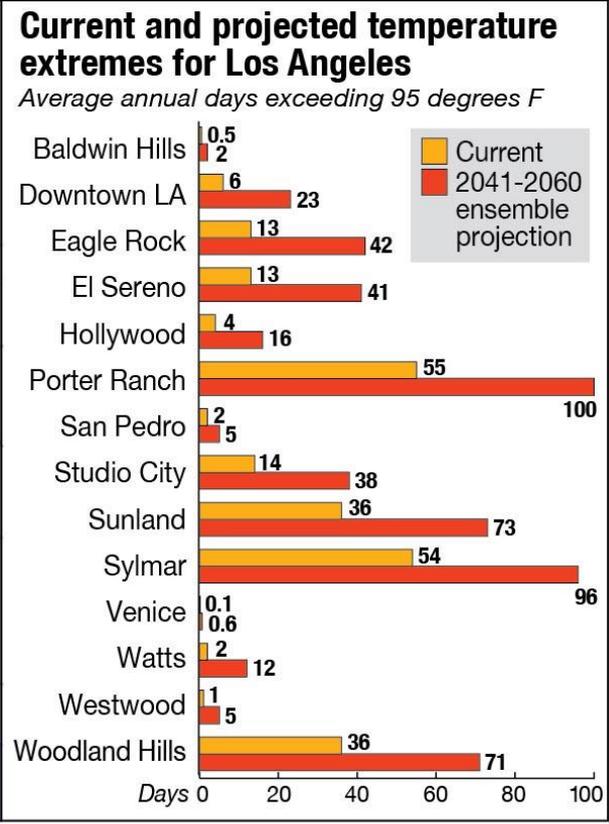


SoCal Temperature • 2041-2060





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



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Rain & Snow in Southern California





PREDICTED SNOWFALL IN 2050



Wind & Wildfire



Wildfire 2041-2060

UC Davis, UC Irvine, UCLA, JPL, USFS

September 2015

- **Two kinds of wildfire**
 - Santa Ana fires (October to April)
 - Summer fires (June to September)
- More intense (but not more frequent) Santa Ana wind events
- Area burned by Santa Ana fires will increase by 64%
- Area burned in summer fires will increase by 77%, mainly due to an increase in temperature.



Sea Level Rise & Storm Surges



USC Sea Grant – January 2014 study on a 10-year storm

- sanitation pipes
- flooding in Venice
- property damage in Wilmington and San Pedro
- next study: other coastal cities

An aerial photograph of a city, likely Los Angeles, showing a complex multi-level highway interchange with several overpasses and ramps. A large, circular stadium is visible in the middle ground. The city is densely packed with buildings and greenery. The image has a halftone or dithered texture. A blue rectangular box is overlaid on the image, containing the text.

ACHIEVING CLIMATE SOLUTIONS

Cool California





Green outdoor space and community gardens at schools



TREEPEOPLE



El Sereno - Public Street Plaza near Food 4 Less



My Figueroa: Complete street improvements



My Figueroa - Multi-Modal Connections



Permeable street surfaces replenish ground water



LA River - "greening" of sections through Canoga Park



LA River: Terraced seating and native wildlife habitat



LA River - cantilevered greenway trail

CLIMATE CHANGE L.A.

A PROJECT OF CLIMATE RESOLVE



L.A. Climate Studies



Do Something



Future Possibilities

ABOUT CLIMATE CHANGE IN LOS ANGELES

How climate change is affecting Southern California – and what we can collectively do to ensure a bright future -- is what's behind the partnership between KCET and Climate Resolve, a Los Angeles-based nonprofit dedicated to creating real, practical solutions to meet the climate challenge. Here, you'll find groundbreaking climate science from UCLA's Institute of the Environment and Sustainability (IoES) that came from collaborative effort with Climate Resolve and Los Angeles leaders to show the local impacts of climate change. With the science guiding us, we can plan local actions to build better communities. To that end, you'll find resources, news, success stories, and practical solutions we can all take.

See the latest study: [Wildfire](#)

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Revitalizing the L.A. River will transform our city's quality-of-life. River trails will be a visible commitment to L.A.'s future.

- Carol Armstrong, PhD
Los Angeles River Project Office

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9 Things to Know



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Q&A: Aaron Paley, Co-



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Commentary: Leading on Climate Means

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