

From Observation to Model to Fire Risk : The Need for Statewide Weather and Climate Data Enterprise

Lessons Learned From: Weather and Climate Informatics for the Electricity Sector: Sub-Daily Observations and the Predictability of Extreme Heat Event (EPC-15-036)

Wildfire Mitigation Workstream Meeting #1

September 23, 2020 - 3:39 to 3:45pm



Principle Investigators:

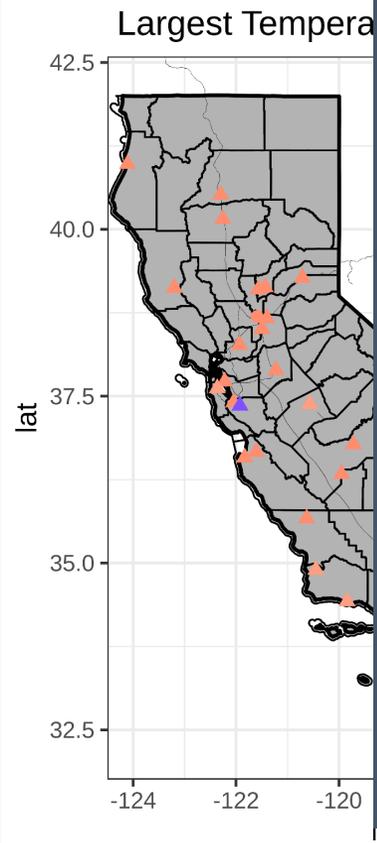
Owen Doherty
Eagle Rock Analytics
Sacramento, CA
Phone: (631)-766-7406
owen@eaglerockanalytics.com

Amato Evan
University of California, San Diego
La Jolla, CA
Phone: (858)-822-6882
aevan@ucsd.edu

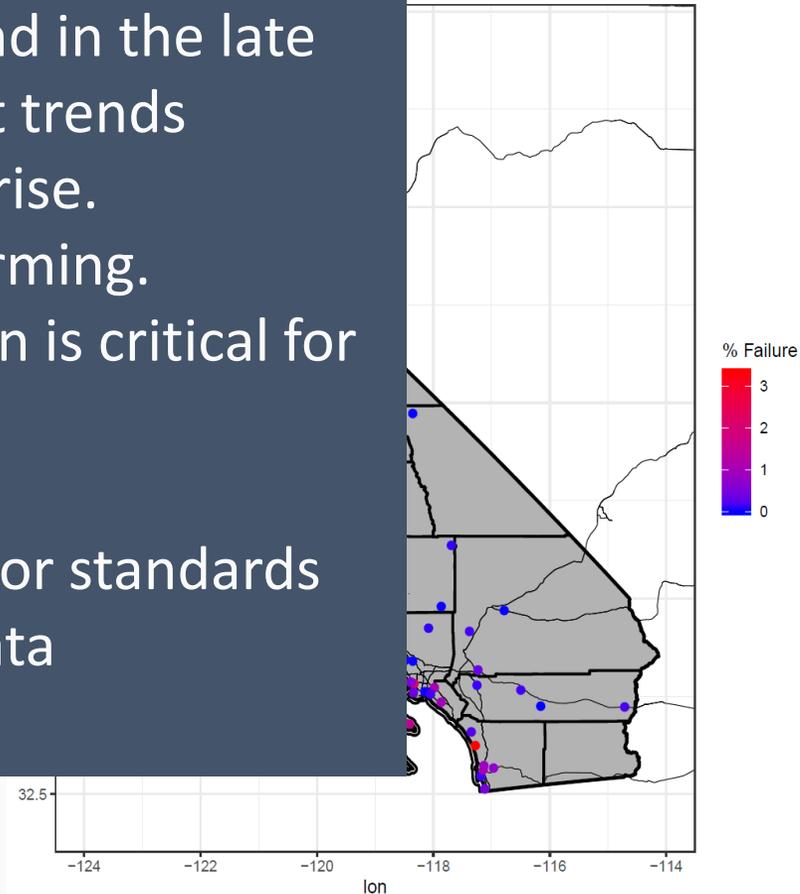


Key Results

- California is asymmetrically warming, with a strong warming trend in the late afternoon and the smallest trends occurring shortly after sunrise.
- Regional differences in warming.
- Hourly weather information is critical for long term planning.
- Problem: no unified vision or standards for weather and climate data
- Solution: holistic system



Produced in support of EPC-15-036



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Lessons Learned from EPC-15-036

- Disadvantaged & low-income communities poorly observed
- Weather and climate data are developed in silos
- Models and tools require interdisciplinary data
- A need for holistic vision for climate data for modeling efforts



Case Study: Onboarding Climate and Weather Data to Cal-Adapt

cal-adapt

PIR-17-014

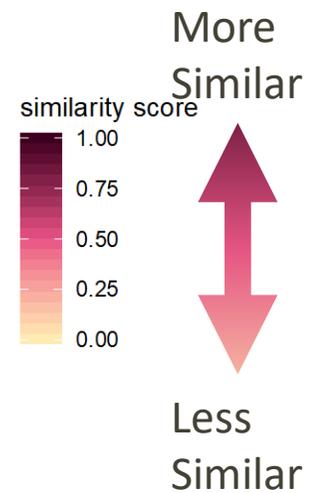
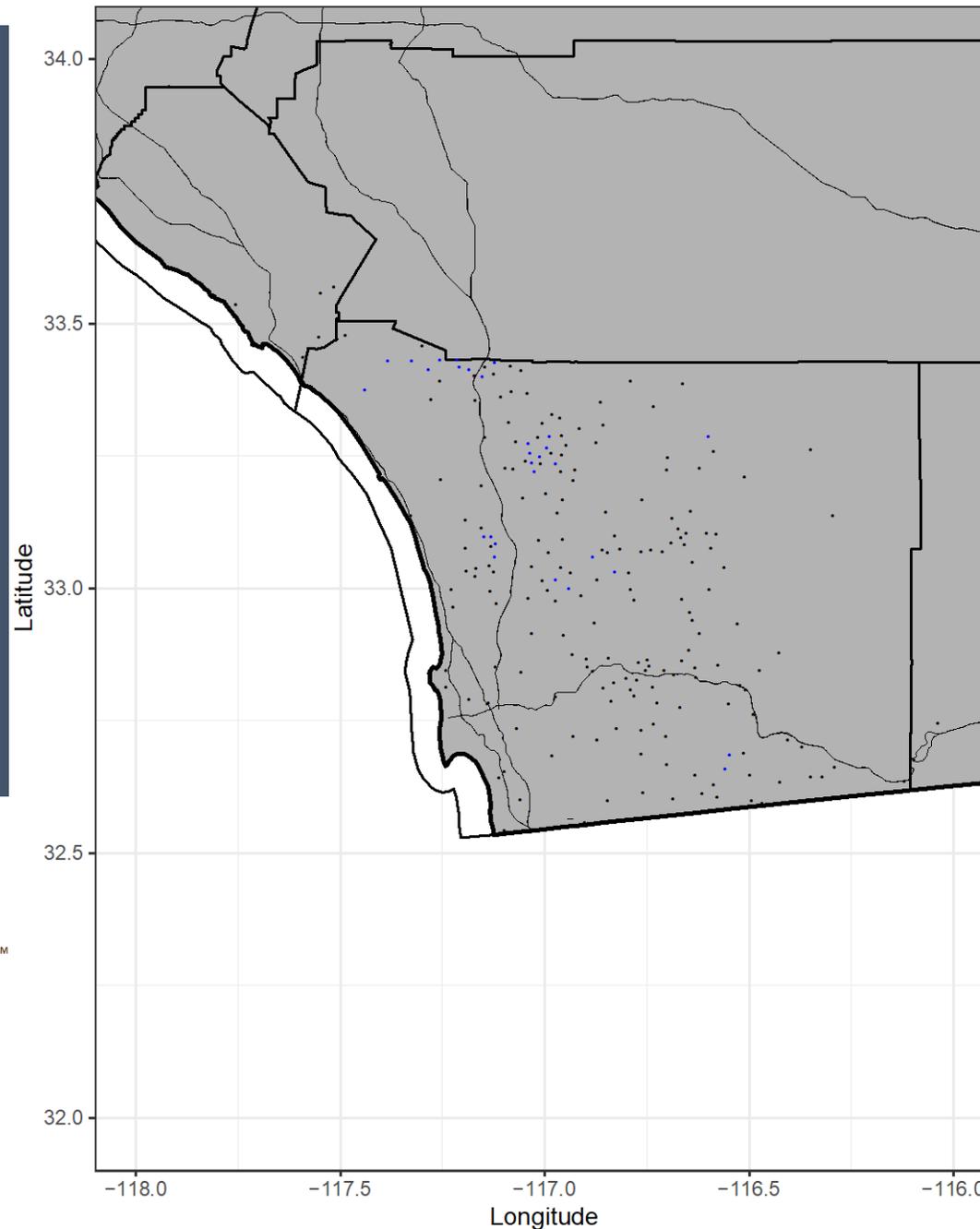


Case Study: Optimization Weather Stations



EPC-18-026

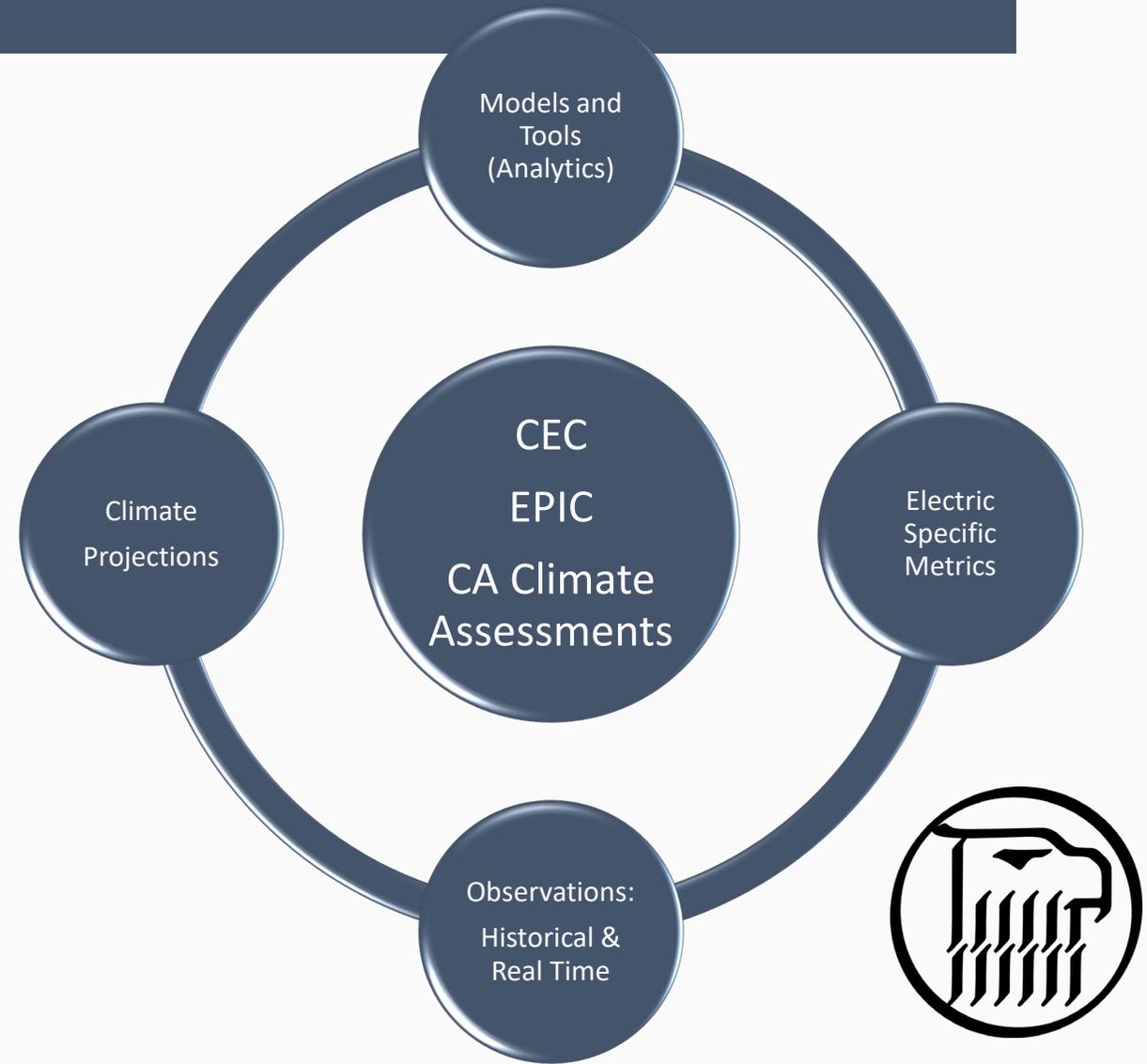
SDG&E Station Similarity



Solution: A California Climate Data Enterprise



Image Source: [NOAA](http://www.noaa.gov)



Contact and Acknowledgements

Contact Owen: owen@eagelrockanalytics.com

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Pyregence: David Saah (PI – USF/SIG), Shane Romsos (PM - SIG), Janice Coen (Team Lead - UCAR/USF)

Co-Production Engagement: Andy Jones (UCB/LLNL)

