

DOCKETED

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California's Fourth Climate Change Assessment

4th Assessment Natural Resources Research

Jamie Anderson, Ph.D., P.E.

IEPR Workshop on Climate Adaptation and
Resilience for the Energy System

August 29, 2017

4th Climate Change Assessment



4th Climate Change Assessment



Linking Researchers and Decision Makers

State Agency Technical Manager



Each Fourth Assessment funded research team has a **Technical Manager** from a state agency to enhance the link between research and policy



Cal-Adapt & the 4th Assessment

- **Data source**, especially after upgrade to include netCDF format
- Visualize and communicate **regional impacts** of climate change
- Extremes and averages; extreme heat days, wildfire
- **Connect to the public**

“When I'm giving public talks, I often take a screen shot of the heat wave tool, selecting the local grid cell where I am giving the talk. That shows the local heat wave threshold and the future projections. ... The adjustment of the local threshold helps audiences connect.” David Ackerly UC Berkeley

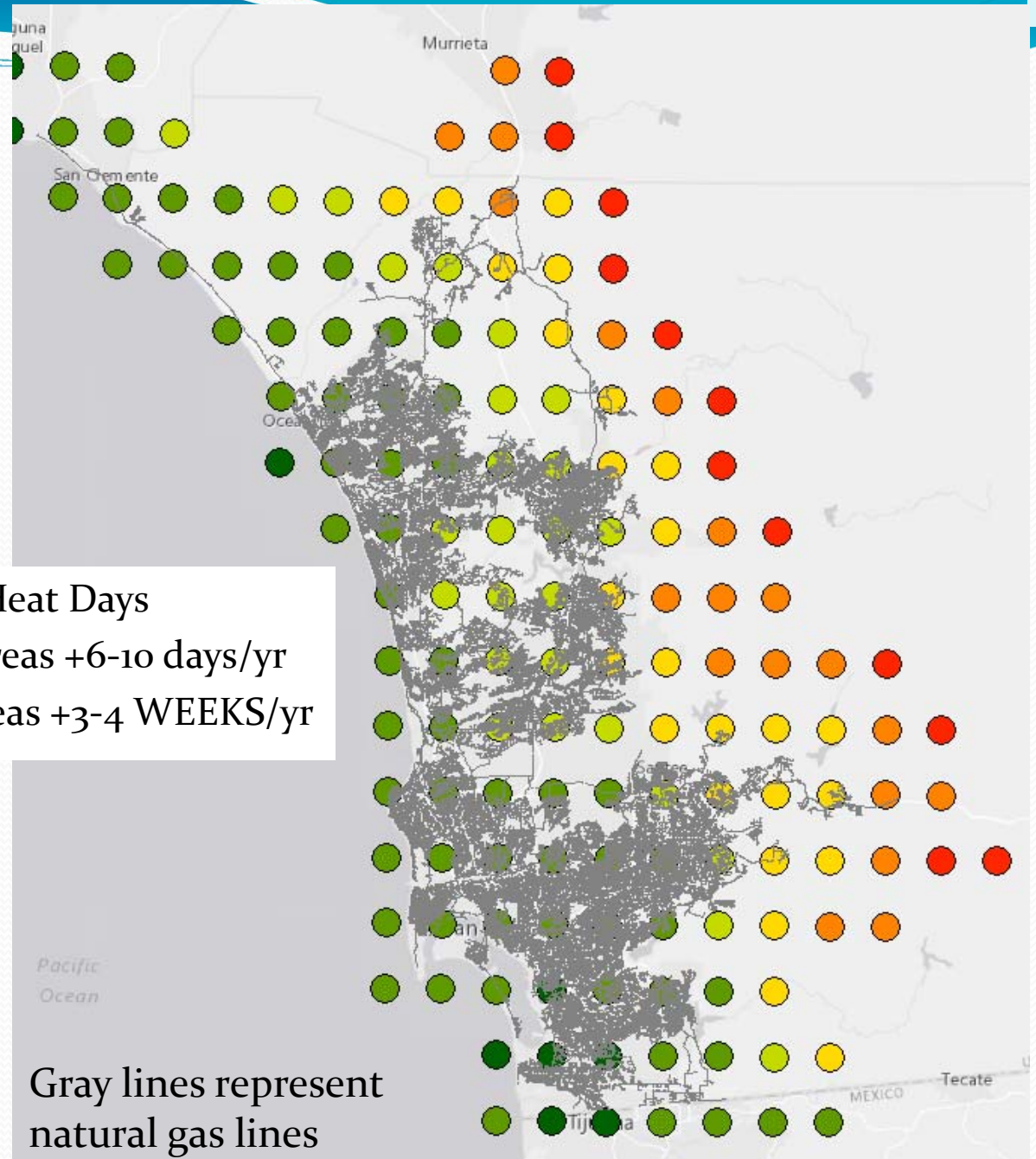
Number of *additional* extreme heat days by mid-century



Increase in Heat Days

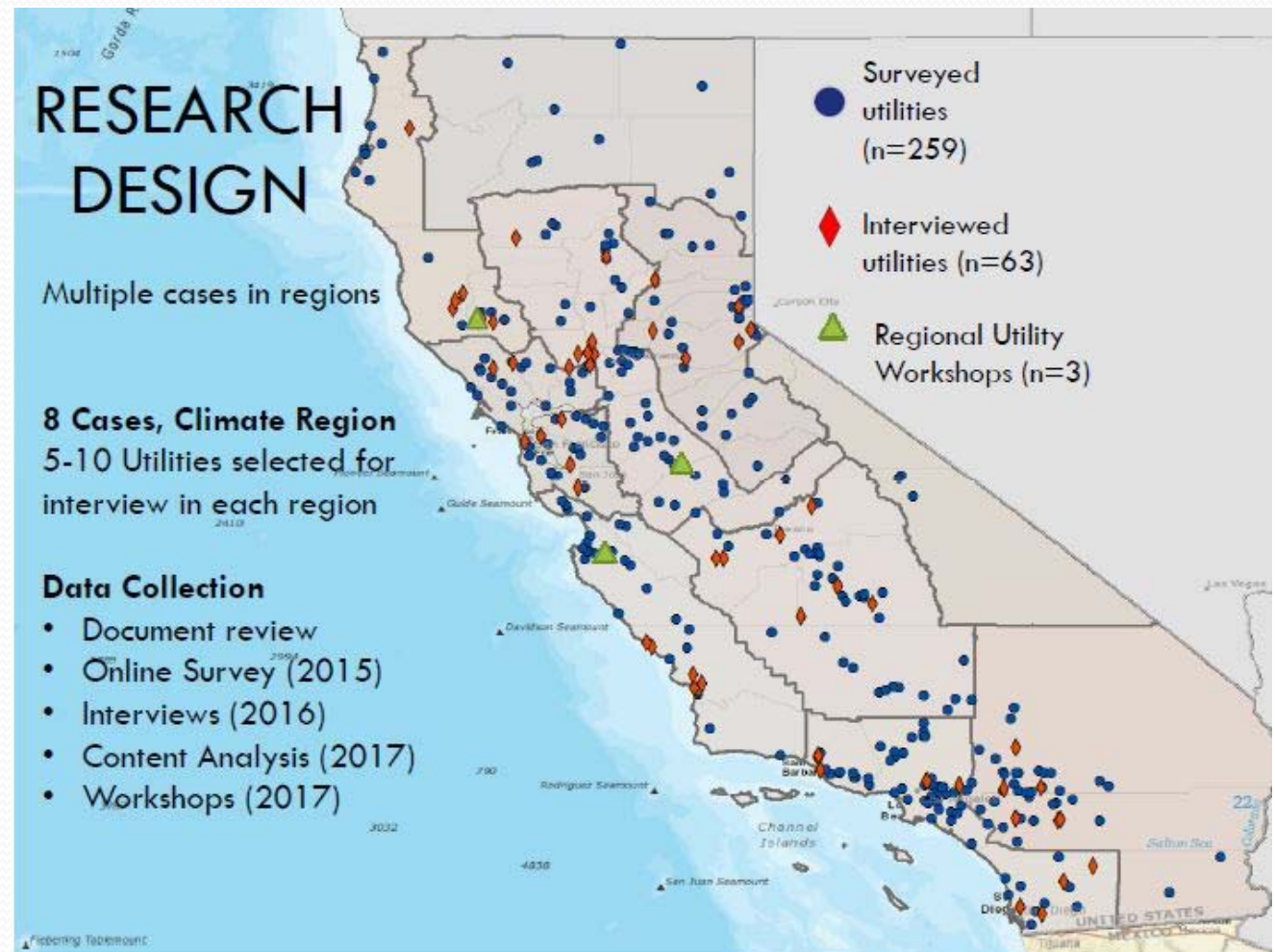
- Coastal areas +6-10 days/yr
- Inland areas +3-4 WEEKS/yr

Gray lines represent
natural gas lines



Drought Planning and Climate Adaptation of Small Self-Sufficient Water Utilities in California

- Lessons from drought
 - Strategies
 - Hindrances
- Climate change adaptation needs
- Next workshop/policy forum Sept 20 in Sacramento
 - Are the adaptation barriers for small drinking water utilities adequately addressed by existing policies?





Wildfire study

- Impact of Changing Wildfire Risk on the California Homeowners' Insurance Market
 - Two case studies
 - Los Angeles (wildfire risk more sensitive to population)
 - Sierra Nevada (wildfire risk more sensitive to climate change)
 - Insurance provides resiliency to communities with wildfire risks
 - Advise policy makers on potential changes in the wildfire insurance market due to urbanization, climate change and associated changes in wildfire risk

4th Assessment Timeline

- End of 2017 Research completed
- Spring 2018 Peer review of draft reports
- Fall 2018 Public release of 4th Assessment

