

# CALIFORNIA CLIMATE CHANGE SYMPOSIUM 2015

USING CLIMATE SCIENCE TO PLAN FOR A RESILIENT FUTURE  
AUGUST 24-25, 2015  
SACRAMENTO CONVENTION CENTER

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## ABOUT CALIFORNIA CLIMATE CHANGE SYMPOSIUM 2015

California Climate Change Symposium 2015 is the premier forum for the sharing of cutting-edge research address the impacts of climate change on the state. This research informs the state's strategies and policies to reduce greenhouse gas emissions and to develop programs to safeguard California from a changing climate. California Climate Change Symposium 2015 is convened by the California Natural Resources Agency, the California Environmental Protection Agency, the Governor's Office of Planning and Research, and the Intergovernmental Panel on Climate Change (IPCC).

Note: The conference size is limited to 450 participants.

## GOALS



- Facilitate the production, adoption and application of climate science with respect to California policy and local governance
- Provide a forum for sharing recent science and practical applications relevant to climate change impacts and vulnerability
- Foster the translation of regional climate change research into policy solutions
- Expand support for climate science research with applications to California’s environment, public health and economy
- Facilitate collaboration across scientific research fields and public policy silos

## PROGRAM

[PLAN](#)
[CALENDAR](#)
[GOALS](#)
[PROGRAM](#)
[POSTERS](#)

The draft program, subject to change, is below. A poster session and reception will provide an opportunity for networking and sharing of scientific research results, as well as case studies of adaptation efforts.

### MONDAY, AUGUST 24

9:00 - 9:50 Opening Plenary Session

9:50 - 10:00 Coffee Break

#### CONCURRENT SESSION A

10:00 - 11:55 Comprehensive Climate Change Projections to Support Multisectoral Analyses

Moderator: Elissa Lynn (DWR)

|               |  |                    |
|---------------|--|--------------------|
| 10:00 - 10:20 | Regional Climate Change Projections for California: State of the Science | Guido Franco (CEC) |
|---------------|--|--------------------|

#### CONCURRENT SESSION B

10:00 - 11:55 Greenhouse Gas Inventory Methods for California

Moderator: Annalisa Schilla (ARB), invited

|               |   |                      |
|---------------|---|----------------------|
| 10:00 - 10:20 | California's Greenhouse Gas Inventory: State of the Science | Richard Bodley (ARB) |
|---------------|---|----------------------|

|                  |   |   |                  |   |                     |
|------------------|---|---|------------------|---|---------------------|
| 10:20 -<br>10:40 | Using dynamic regional climate models for California's 4th Climate Change Assessment              | Alex Hall (UCLA)                                    | 10:20 -<br>10:40 | California ecosystem carbon changes, wildfire, and climate change                             | Patrick Gonz (NPS)  |
| 10:40 -<br>11:00 | High-resolution climate change and hydrological projections                                       | Alan Flint (USGS)                                   | 10:40 -<br>11:00 | Quantification of California Greenhouse Gas Emissions at State, Regional, and Facility Scales | Marc Fischer (LBNL) |
| 11:00 -<br>11:20 | Probabilistic estimates for California climate changes using downscaled CMIP5 climate projections | Dan Cayan (Scripps)                                 | 11:00 -<br>11:20 | Agricultural practices and N2O emissions: modeling and observations in California             | William Sala (UCD)  |
| 11:20 -<br>11:40 | Cal-Adapt as a tool for visualizing climate scenarios and supporting decision-making              | Nancy Thomas (Geospatial Innovations Facility, UCB) | 11:20 -<br>11:40 | The Megacities Carbon Project: Monitoring urban-scale carbon emissions                        | Riley Duren (NASA)  |
| 11:40 -<br>11:55 | <b>Q&amp;A</b>  | <i>moderated</i>                                    | 11:40 -<br>11:55 | <b>Q&amp;A</b>  | <i>moderated</i>    |

12:00 - 1:10 Lunch and Keynote Presentation

Anthony Barnosky + Elizabeth Hadly (of Maintaining Humanity's Life Support Systems, produced at Governor Brown's request)

### **CONCURRENT SESSION A**

1:15 - 2:50 Future Climate Impacts and Adaptation Options for Natural and Managed Ecosystems  
Moderator: Whitney Albright (CDFW)

|            |   |                             |
|------------|---|-----------------------------|
| 1:15 -1:35 | Climate impacts and adaptation options for natural and managed ecosystems in California: State of the Science | David Ackerly (UC Berkeley) |
|------------|---|-----------------------------|

### **CONCURRENT SESSION B**

1:15 - 2:50 Water Resources in California: Drought, Extreme Events, and Management Options  
Moderator: Kristin Ralff Douglas (CPUC), invited

|            |   |                       |
|------------|---|-----------------------|
| 1:15 -1:35 | What does climate change mean for atmospheric rivers and water resources in California? | Michael Dettinger (U) |
|------------|---|-----------------------|

|             |   |  |             |  |                                   |
|-------------|---|--|-------------|--|-----------------------------------|
| 1:35 - 1:55 |   | LeRoy<br>Westerling (UC<br>Merced)   | 1:35 - 1:55 | Climate change and<br>California's current<br>drought                                  | Noah<br>Diffenbaugh<br>(Stanford) |
| 1:55 - 2:15 | Conserving Nature's<br>Stage: Geospatial<br>resilience mapping to<br>identify priorities for<br>land protection     | Dick Cameron<br>(TNC)  | 1:55 - 2:15 | Climate change and<br>extreme hydrologic<br>events: Links to the<br>California Drought | Peter Gleick<br>(Pacific Instit   |
| 2:15 - 2:35 | Climate<br>considerations,<br>adaptation, and<br>prioritizing state-<br>funded levee<br>investments in the<br>Delta | Nidhi Kalra<br>(RAND with<br>David Groves<br>(RAND) & Cindy<br>Messner (Delta<br>Stewardship<br>Council) | 2:15 - 2:35 | Managing water<br>resources in a<br>changing climate                                   | Ellen Hanak<br>(PPIC)             |
| 2:35 - 2:50 | <b>Q&amp;A</b>  | <i>Moderated</i>   | 2:35 - 2:50 | <b>Q&amp;A</b>   | <i>Moderated</i>                  |

2:50 - 3:05                      Coffee Break

**CONCURRENT SESSION A**

3:05 - 5:00 Future Climate Impacts and Adaptation  
Options for Human Systems  
Moderator: Sonya Ziaja (CEC)

|             |   |                           |
|-------------|---|---------------------------|
| 3:05 - 3:25 | Climate impacts and<br>adaptation options<br>for human<br>infrastructure in<br>California: State of<br>the Science            | Michael<br>Hanemann (ASU) |
| 3:25 - 3:45 | Sea level rise, storm<br>surge, and flooding in<br>the San Francisco<br>Bay and Delta: Risks<br>to Critical<br>Infrastructure | John Radke<br>(UCB)       |
| 3:45 - 4:05 | California's surface  | Deb Niemeier              |

**CONCURRENT SESSION B**

3:05 - 4:45 Future Climate Impacts and Adaptation  
Options for Coastal Resources  
Moderator: Abe Doherty (OPC)

|             |  |                        |
|-------------|--|------------------------|
| 3:05 - 3:25 | Impacts and<br>adaptation options<br>for California's<br>coastal resources:<br>State of the Science                        | Gary Griggs<br>(UCSC)  |
| 3:25 - 3:45 | Using the Coastal<br>Storm Modeling<br>System (CoSMoS) to<br>support decision-<br>makers in the Bay<br>Area (and So. Cal?) | Patrick Barn<br>(USGS) |
| 3:45 - 4:05 | Coastal resilience in<br>Ventura County:   | tbd (TNC)              |

|             |  |                      |             |  |                       |
|-------------|--|----------------------|-------------|--|-----------------------|
|             | transportation system: vulnerabilities, resilience options, and research needs | (UCD)                |             | Applying state-of-the-art science to coastal protection  |                       |
| 4:05 - 4:25 | Potential impacts of prolonged droughts for California's agricultural sector   | Richard Howitt (UCD) | 4:05 - 4:25 | Ocean hypoxia and acidification (talk title forthcoming) | tbd, invited          |
| 4:25 - 4:45 | Microgrids and community resilience  | TBD                  | 4:25 - 4:45 | tbd  | Letitia Greni invited |
| 4:45 - 5:00 | <b>Q&amp;A</b>   | <i>Moderated</i>     | 4:45 - 5:00 | <b>Q&amp;A</b>   | <i>Moderated</i>      |

5:00 - 6:30 Poster Session and Networking Reception (no-host bar)

Welcome: Secretary Laird (CNRA), Chair Weisenmiller (CEC), and/or Jonathan Parfrey (Climate Resolve)

## TUESDAY, AUGUST 25

### CONCURRENT SESSION A

8:30 - 10:05 Public Health, Environmental Justice, and Climate Change

Moderator: Paul English (CDPH)

|             |   |                                     |
|-------------|---|-------------------------------------|
| 8:30 -8:50  | Climate Change and Human Health: State of the Science                     | Linda Rudolph (Public Health Inst.) |
| 8:50 - 9:10 | Climate change: Environmental justice and community impacts in California | Seth Shonkoff (UCB), invited        |
| 9:10 - 9:30 | Heat-related morbidity and mortality in California                        | Rupa Basu (OEHHA)                   |
| 9:30 - 9:50 | Investing in disadvantaged communities, SB 535,                           | Shankar Prasad (OEHHA)              |

### CONCURRENT SESSION B

8:30 - 10:05 Integration of Mitigation and Adaptation California

Moderator: Louis Blumberg (TNC)

|             |  |                           |
|-------------|--|---------------------------|
| 8:30 -8:50  | Integration of mitigation and adaptation in California: State of the Science | Louise Bedsworth          |
| 8:50 - 9:10 | Managing forests for both mitigation and adaptation                          | Emily Moran (UCM), invite |
| 9:10 - 9:30 | Managing California's rangelands for carbon sequestration and adaptation     | Whendee Sil (UCB)         |

|              |                     |                  |              |   |                                |
|--------------|---------------------|------------------|--------------|---|--------------------------------|
|              | and CalEnviroScreen |                  | 9:30 - 9:50  | DRECP and DataBasin: Practical tools to integrate habitat protection with mitigation strategies | Scott Flint (w Jim Strittholt) |
| 9:50 - 10:05 | <b>Q&amp;A</b>      | <i>Moderated</i> |              |   |                                |
|              |                     |                  | 9:50 - 10:05 | <b>Q&amp;A</b>  | <i>Moderated</i>               |

10:05 - 10:20 Coffee Break

**CONCURRENT SESSION A**

10:20 - 12:00 Federal Support for Climate Change Science in California

Moderator: Ben DeAngelo (USGCRP), invited

**CONCURRENT SESSION B**

10:20 - 12:00 Regional Climate Resilience Activities in California

Moderator: Jonathan Parfrey (Climate Resolve)

|               |   |   |               |  |                                     |
|---------------|---|---|---------------|--|-------------------------------------|
| 10:20 - 10:40 | California collaborations with federal entities on climate change science: Overview | Fred Lipschultz (USGCRP)                  | 10:20 - 10:40 | Planning and implementing climate-related strategies at the regional level in California | Kate Meis (ARCCA)                   |
| 10:40 - 11:00 | The Southwest Climate Science Center  | Glen MacDonald (UCLA)                     | 10:40 - 11:00 | The need for energy and water data for GHG emissions reductions                          | Stephanie Pincetl (LARI)            |
| 11:00 - 11:20 | The California Landscape Conservation Cooperative                                   | Rebecca Fris (DoI/CA LCC)                 | 11:00 - 11:20 | tbd  | Bruce Riordc (Elmwood Consulting)   |
| 11:20 - 11:40 | USDA Regional Climate Change Hubs: Southwest Sub-Hub                                | Kerri Steenwerth or Amber Kerr (USDA/UCD) | 11:20 - 11:40 | tbd  | Kerri Timmer (Sierra Busin Council) |
| 11:40 - 12:00 | <b>Q&amp;A</b>  | <i>Moderated</i>                          | 11:40 - 12:00 | <b>Q&amp;A</b>   | <i>Moderated</i>                    |

12:00 - 1:05 Lunch + Keynote Presentation: Susanne Moser on Translating Climate Change Science into Effective

Action

1:10 - 2:45 PLENARY PANEL UNDER DEVELOPMENT: Forging and Facilitating Adaptation Policy in California

Moderator: Secretary Laird

10:05 - 10:20

Coffee Break

3:00 - 4:15 PLENARY PANEL UNDER DEVELOPMENT: Conversation about International Adaptation Activities and Potential Opportunities for Coordination/Collaboration

Moderator: Secretary Rodriguez (invited)

## **POSTERS**

Call for posters! The California Natural Resources Agency invites researchers, local governments, private sector stakeholders, and other groups working to support climate resilience to submit abstracts for posters for the California Climate Change Symposium 2015. Posters should present current scientific research projects or implementation of strategies to promote climate resilience. A dedicated poster session will offer an excellent opportunity for networking concurrent with a reception and no-host bar. Additionally, posters will be on display throughout the symposium.

**Examples of potential topics include, but are not limited to:**

- New scientific findings related to regional climate change science and resilience
- Private sector adaptation efforts
- Environmental justice and climate change

- Climate partnerships between scientists, community-led groups, and/or local government
- Regional and local climate change activities  
Funding and implementation of adaptation measures
- Economics of climate change policies



**Poster Content:**

- Brief and clearly organized
- Simple, with an obvious theme
- Easy to read from 4 to 6 feet away

**Poster Guidance:**

- Illustrations, labels, etc., must be attached to the poster board with thumbtacks, which will be available in the poster area
- Do not write on the poster boards
- Please leave space in the top portion for a title sign

**Poster Set-up and Removal:**

- Set-up on Monday, August 24, 2015
- Remove on Tuesday, August 25, 2015 by 5 p.m.

**Poster Submissions:**

To submit a poster, you must be registered for the symposium. please e-mail the following information to [symposiumposters@resources.ca.gov](mailto:symposiumposters@resources.ca.gov) by 5 PM on August 7, 2015:

- A proposed title for your poster
- A brief summary/abstract of the project that will be presented in your poster (one page maximum)
- Your name, e-mail address, and current phone number



You will be notified by e-mail regarding acceptance no later than August 14, and provided further instructions about poster dimensions at that time.

## CALIFORNIA CLIMATE CHANGE SYMPOSIUM 2015



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August 24-25, 2015  
Sacramento Convention Center


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