1. **Shifting Ranges: Northern Expansion and Predation Escape in the Barnacle *Tetraclita rubescens***  
D. Swezey (UC Santa Barbara), S. Gaines (UC Santa Barbara), and E. Sanford (UC Davis)

2. **Conservation of Pacific Salmon in a Changing Climate**  
Peter Miller (UC Berkeley)

3. **Climate Change and the Fate of California’s Endemic Flora**  
S. Loarie (Stanford University), B. Carter (Cal Poly San Luis Obispo), K. Hayhoe (Texas Tech University), C. Knight (Cal Poly San Luis Obispo), and D. Ackerly (UC Berkeley)

4. **Adapting to Climate Change through Smart Growth and LEED-ND**  
C. Pyke (U.S. EPA), J. Scharfenberg (ICF International), S. Shapiro (ICF International), R. Freed (ICF International), W. Schroer (ICF International), and E. Allen (Criterion Planners Inc.)

5. **The Cost of Uncertainty on CO₂ Emissions Regulations**  
Dalia Patiño-Echeverri (Carnegie Mellon University)

6. **Greenhouse Gas Emission Consequences of a Transition to Low-quality and Synthetic Petroleum Resources**  
Adam R. Brandt and Alexander E. Farrell (UC Berkeley)

7. **Least Cost Distributed Energy Resources Carbon Mitigation**  
Ryan Firestone and Chris Marnay (LBNL)

8. **Technology-Policy Driven Decarbonization Scenarios for California**  
Frank Ling and Dan Kammen (UC Berkeley)

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10. **Potential for Alternatives in Farm Management to Reduce Soil Greenhouse Gas Emissions**  
C. Kallenbach, W. Horwath, Z. Kabir, D. Rolston, and J. Mitchell (UC Davis)

11. **Assessing Seasonal Greenhouse Gas Emissions and Belowground C and N Processes under Different Fire Frequencies in Soils of Sierra Nevada Chaparral Shrublands**  

W. Salas (Applied Geosolutions, LLC), C. Li (University of New Hampshire), and P. Green (Applied Geosolutions, LLC)

13. **Field Scale Greenhouse Gas Emissions in a Furrow-irrigated Field under Standard and Minimum Tillage**  

14. **Detection of Climate Change in California and Attribution of Causes**  
C. Bonfils (UC Merced/LLNL), P.B. Duffy (LLNL), B.D. Santer (LLNL), D.B. Lobell (LLNL), and T.M.L. Wigley (NCAR)

15. **California Temperature-trends in Cooling-coastal and Warming-inland Air Basins**  
B. Lebassi (Santa Clara University), J. E. González (Santa Clara University), D. Fabris (Santa Clara University), E. Maurer (Santa Clara University), R. Bornstein (San Jose State University), and N. Miller (LBNL)

16. **Development of Climate Monitoring Indices for California**  
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17. **Paleoclimate Teleconnections, Fire, and Erosion During Holocene Abrupt Climate Change Events, Northern Sierra Nevada, California**  
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18. **Sierra Nevada Speleothems (stalagtites and stalagmites): Potential as High-resolution Archives of Changes in Atmospheric Circulation over California**  
Jessica Öster (UC Davis)
19. Changes in California Irrigation Since 1889 and Its Impact on Temperatures
David Lobell (LLNL) and Celine Bonfils (UC Merced/LLNL)

20. Climate, Extreme Heat, and Energy Demand
N.L. Miller (LBNL), K. Hayhoe (Texas Tech University), J. Jin (LBNL), and M. Auffhammer (UC Berkeley)

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22. Validation of Regional Climate Model Output Using Bayesian Statistical Methods
M.A. Snyder, B. Sansó, and L.C. Sloan (UC Santa Cruz)

23. Opportunities for Low-Cost CO2 Mitigation in Electricity, Oil, and Cement Production
G.H. Rau (UC Santa Cruz/LLNL), K.G. Knauss (LLNL), K. Caldeira (Carnegie Institution), and J. Friedmann (LLNL)

24. Modeling the Effects of Gas-Phase CO2 Intrusion on Soil Biogeochemistry
Andrew Altevogt (Princeton University)

25. Future Climate Alters VOC Reactivity and Potential Ozone Control Strategies in Central California
A.L. Steiner (UC Berkeley), S. Tonse (LBNL), R. Cohen (UC Berkeley), A.H. Goldstein (UC Berkeley), and R.A. Harley (UC Berkeley)

26. Progress on Incorporating Climate Change into Management of California’s Water Resources
Jamie Anderson and Francis Chung (California Department of Water Resources)

27. Monitoring Monthly Hydrologic Data to Detect Climate Change in California
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28. Climate Change and the Colorado River Basin: Implications of the FAR Scenarios for Hydrology and Water Resources
Niklas Christensen and Dennis P. Lettenmaier (University of Washington)

29. Observed Changes in Spring Snowpack in California and the Role of Global Warming
Philip Mote (University of Washington)

30. Detectability of Trends Towards Earlier Streamflow in the Sierra Nevada
E.P. Maurer (Santa Clara University), I.T. Stewart (Santa Clara University), C. Bonfils (UC Merced/LLNL), and P.D. Duffy (LLNL)

31. Climate Change and the Probability of Persistent Drought
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32. Adaptability of California’s Hydropower System to Climate Warming
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