

WEST COAST REGIONAL CARBON SEQUESTRATION PARTNERSHIP
westcarb.org



WESTCARB Annual Business Meeting

Getting Down to Business— WESTCARB Executive Director's Overview

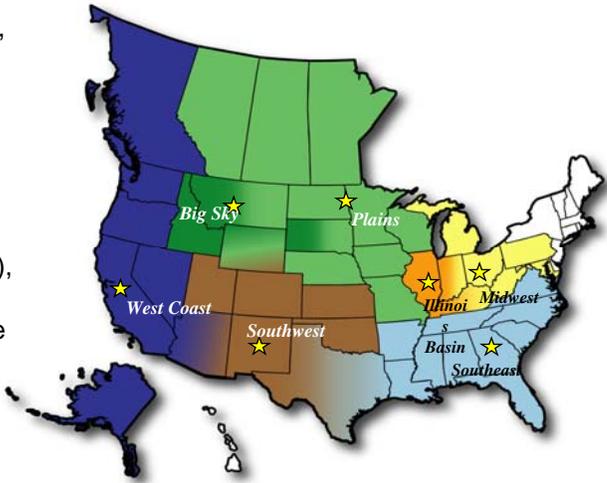
Martha Krebs
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California Energy Commission
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*Phoenix, AZ
November 8, 2006*



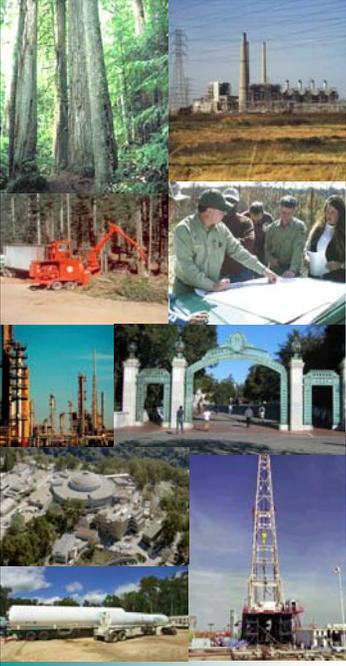
WESTCARB Is One of Seven DOE Regional Carbon Sequestration Partnerships

- In Phase I (2004–05), partnerships evaluated geologic and terrestrial sequestration opportunities and costs
- In Phase II (2006–09), partnerships are conducting pilot-scale validation tests and refining regional characterizations
- Phase III (2008–2016), deployments



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WESTCARB Features Strong and Diverse Set of Partners; Robust Cost Share

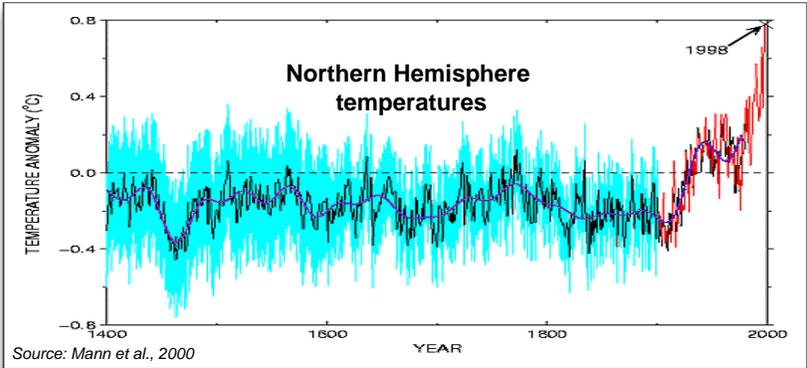
- More than 70 organizations comprising:
 - Resource management and environmental protection agencies
 - National laboratories and research institutions
 - Energy and pipeline companies
 - Forest-product and ranching interests
 - Conservation nonprofits
 - Climate project standards organizations
 - Colleges and universities
 - Trade associations and policy coordinating bodies
- Represents world-class technical expertise
- Funded by U.S. Department of Energy, California Energy Commission, and partners

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Why We Are Here?

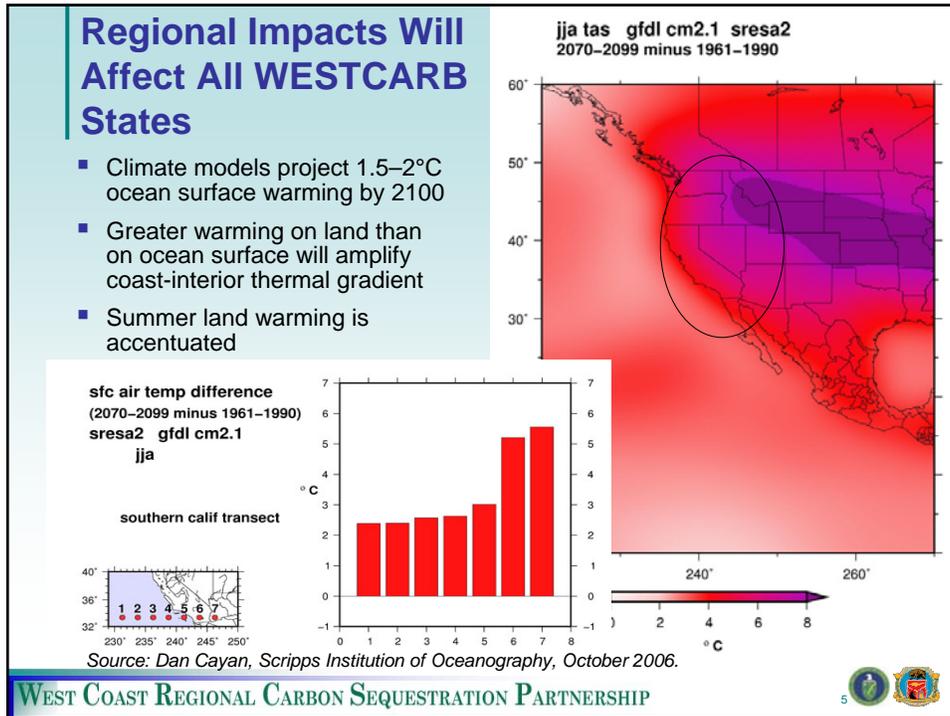
- The Earth is warming
- Growing scientific consensus on humans' fingerprint on CO₂ build-up and associated climate change



Source: Mann et al., 2000

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There's No "Silver Bullet" for Global Climate Change

A Portfolio of Solutions Is Needed to Slow, and Ultimately Reverse, the Buildup of CO₂ in the Atmosphere

Energy Efficiency

Renewable Energy

Carbon Sequestration

- Terrestrial
- Geologic

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Policy Response Is Occurring Throughout WESTCARB Region

- Examples of non/bi-partisan action by state and local policymakers throughout WESTCARB region
 - Gov. Napolitano Executive Order
 - Gov. Schwarzenegger Executive Orders
 - California Global Warming Solutions Act and related legislation
 - Oregon Solutions
- Interstate coordination—WGA Clean and Diversified Energy Initiatives, West Coast Governors Global Warming Initiative, CA–RGGI Cooperation, Southwest Climate Change Initiative, and more
- Substantial corporate policy development
- Growing recognition that climate solutions must be regional and involve many economic sectors

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Phase II “Technology Validation” Pilots

- Pilot activities, representative of the best regional sequestration options, have commenced in four WESTCARB states
- Pilots involve site-specific focus for:
 - Testing technologies
 - Defining costs
 - Assessing environmental risks
 - Assuring safety
 - Gauging public acceptance
 - Testing regulatory requirements
 - Validating monitoring methods



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What Will Our Pilot Tests Show?

- CO₂ can successfully be stored in suitable geologic formations and in stands of trees
- We understand the states of knowledge and uncertainty with respect to technical viability, cost, CO₂ measurement and monitoring capabilities, suitability of regulatory processes, and long-term environmental interactions
- Co-benefits can accrue to sequestration project developers, such as enhanced natural gas production and reduced risk of severe forest fires

Public Outreach Is Critical to Success of WESTCARB Activities

- Increasingly important as pilots unfold and states take legislative/executive initiatives
- Fundamental strategy has been “bottom up” for pilots (from landowners/community to county/state officials and media) with overall partnership outreach to legislators/regulators, media, and affiliated professionals
- Website (www.westcarb.org) and handouts available; public meetings under way; Energy Commission Media Office and partners engaged
- Terrestrial and geologic sequestration each pose unique outreach challenges

