













SPARC structure and goals



SPARC Project

- Funded by National Science Foundation as part of "Decision making under uncertainty" component
- Roger Pielke Jr., Dan Sarewitz, PIs (+other cols)
- 5-year project, US \$2.4M total, Started 9/04
- Years 1-2, case studies on smaller programs
- Years 3-5, apply methods to Climate Change Science Program as a whole









SPARC Partners

- University of Colorado, Boulder (Co-PI)
- Arizona State University (Co-PI)
- Colorado State University
- American Meteorological Society
- Colorado School of Mines
- Swedish Institute for Climate Science and Policy Research







Emerging
Partners in:
-China
-Germany









SPARC Goal

SPARC will conduct research and assessments, outreach, and education aimed at helping climate science policies better support climate-related decision making in the face of fundamental and often irreducible uncertainties.











What is the connection between the two?

- In the U.S., a program of scientific research on climate has been funded for more than 15 years to provide "usable information on which to base policy decisions relating to global change."
- In other words, one of the major societal responses to climate-related problems has been to fund scientific research, in the hope that it will support decision making.









Each day, in the face of deep uncertainty, millions of decisions are made that respond to and influence the behavior of climate. How does the nation's multi-billion dollar investment in climate research affect those decisions? How can the societal value of this scientific investment be enhanced?









Driving Question:

In this context, how do we know what science is "the right science" to do to address societal problems, and how do we make that science "usable"?









SPARC components

- Research
 - Sensitivity Analysis
 - Reconciling Supply and Demand
 - Cross-cutting activities
- Outreach
- Education (mainly leveraging)



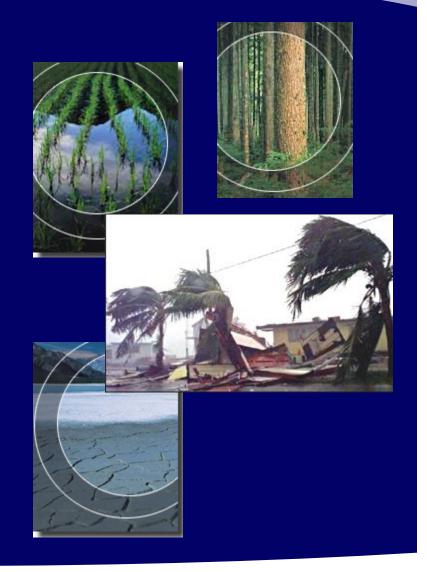






SPARC: Sensitivity Analysis

- Ecosystem function (Dan, Netra, Mark)
 - investigate the relative magnitude of various causes of environmental change
- Extreme events (Roger)
 - investigate the relative magnitude of various causes of the growing societal impacts of weather and climate extremes
 - To be phased out of SPARC support this year





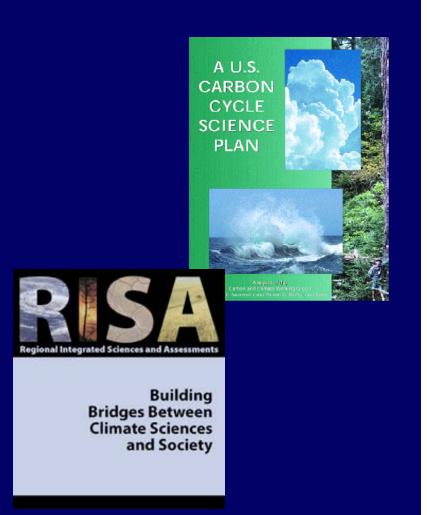






SPARC: Reconciling Supply and Demand

- Carbon cycle science (Lisa, Nat)
 - Improve the ability of supply to meet demand by developing practical ways for setting priorities, directing science activities and building institutional capability
 - To be phased out of SPARC support this year
- Regional Integrated Sciences and Assessment (RISA) (Bets)
 - Harvesting lessons from a program deliberately aimed at connecting decision making needs with the research prioritization process











Emerging Foci in 2007 (mid-way through SPARC)

- RSD- Climate Change Science Program (Ryan, Genevieve, Lisa)
- RSD- ADAM project (Eva, Roger)
- SA- Climate change responses in Developing Countries (Myanna)
- Outreach plan for larger, CCSP-related workshop in 2 years? To discuss tomorrow...









Outreach (Ami)

- Website
- Events and workshops
- Special sessions
- Listserve?
- Newsletters?









Highlights of accomplishments so far:

- Ranking of stressors on water resources (Netra)
- Climate change and disaster losses (Roger)
- RISA Science Policy and RSD (Dan or Roger)
- "Usable" carbon science workshop (Lisa)
- ESP special issue on RSD (Roger or Dan)







