



Opportunities for Collaborative Interdisciplinary Programs

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Outline

- Introduction: Motivation for the FCI
- Ongoing Projects
- Mechanisms
- Emerging Needs, Opportunities
- Closing Remarks



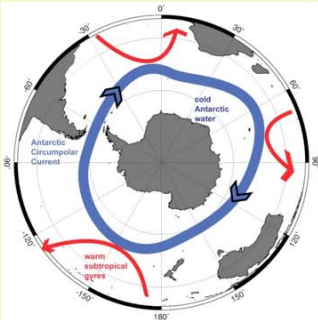
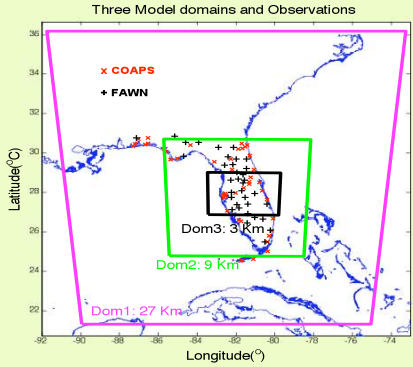


Introduction: Motivation for the FCI

- Science
- Societal Needs

Are We Successfully Adapting Science to Climate Change?
 BY KRISTEN AVERYT

anet is committed to a certain degree of be armed with the ability to break from t





Motivation for the FCI

- Address the complex issues and challenges associated with climate change, climate variability, sea level rise
- Target science to inform decision and policy responses
- ... We want the FCI to be known for both



Motivation for the FCI

- Targeting Science Opportunities
 - Climate or sector-driven science questions
 - New technologies, education
 - Regional, national, international opportunities
- Targeting societal needs (state & regional)
 - Engagement with Floridians, Florida issues (FCI)
 - Regional (SECC, others in & affiliated with FCI)
 - Research, extension, education, service



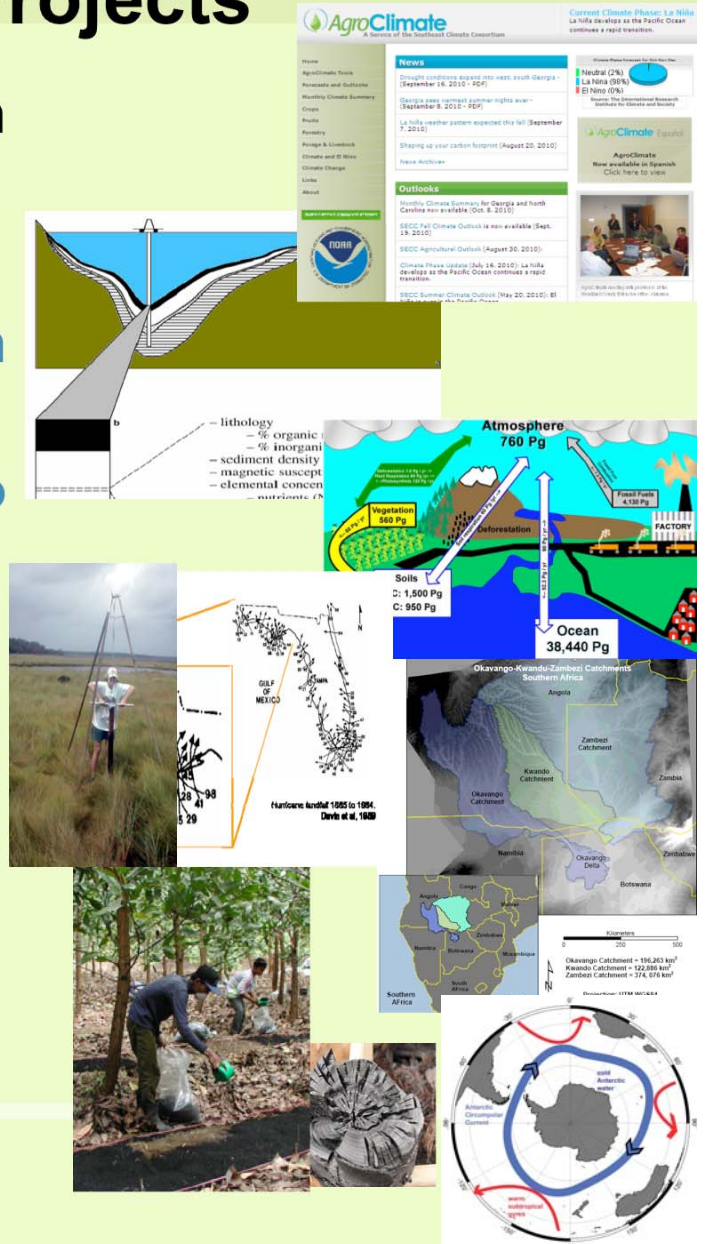
Mechanisms

- Interdisciplinary proposals written to federal agencies (research and education)
- Stakeholder climate working groups (involving scientists, agencies, private sector) to co-learn about issues, solutions
- Technical working groups (or task forces) to respond to stakeholder needs
- Other FCI activities (symposia, seminars, etc.)



There Are Many Ongoing Projects

- Open-source climate information & decision support for **agriculture & food production**
- Inferring **paleoclimate** from lake sediments
- Carbon sequestration: **Terrestrial Carbon** information system
- Analysis of sedimentary data to **create paleo records of hurricane landfalls in Florida**
- Predicting impacts of climate variability & change on **land use/land cover change in Southern Africa**
- Stability, chemistry and interactions of **pyrogenic C (Biochar)** with soil minerals and microbes
- **Ocean circulation and Antarctic ice sheet** development



Emerging Needs, Opportunities

- Meet state needs, engage Floridians
- Regional centers (i.e., USGS, NSF, ...)
- National Climate Services (NOAA)
- National Climate Assessment (USGCRP)
- International research, education opportunities



Meet State Needs

- Climate Working Groups (e.g., agriculture, water utilities; need to explore more)
- Technical Working Groups
 - Sea level rise?
 - Climate scenarios?
 - Local level (county or weather station scale)
 - Multiple time scales
 - Not only climate – population, land use, policy, ...

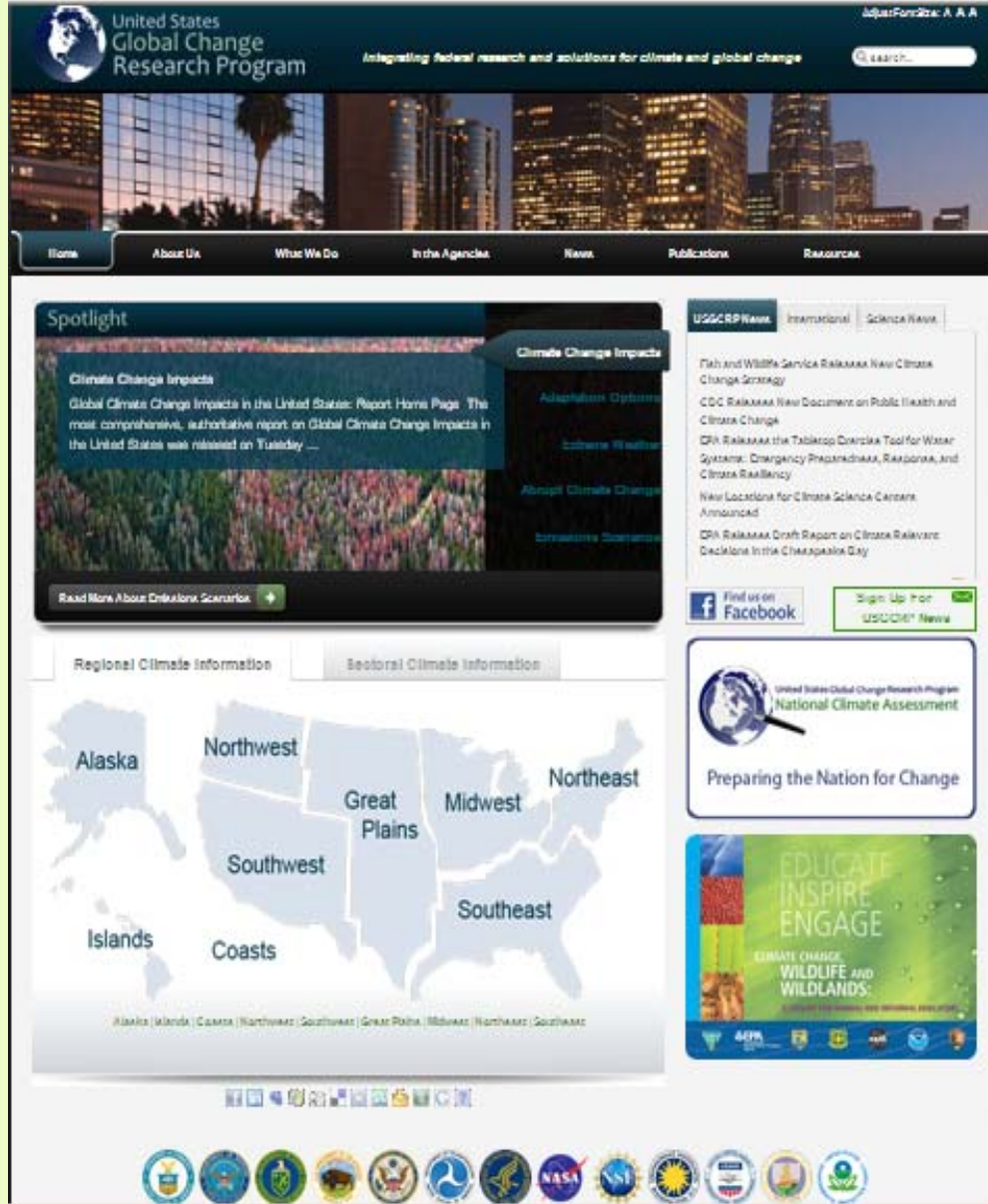
NOAA Climate Service (NCS)

The screenshot shows the NOAA Climate Services website. At the top, there is a navigation bar with links for NOAA HOME, WEATHER, OCEANS, FISHERIES, CHARTING, SATELLITE, CLIMATE, RESEARCH, COASTS, and CAREERS. Below this is the NOAA logo and the text "NOAA CLIMATE SERVICES" with "NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION" underneath. A "Prototype" label is visible on the right. Below the header, there are tabs for "ClimateWatch Magazine", "Data & Services", "Understanding Climate", and "Education". A search bar is located on the right side of these tabs. The main content area is divided into three sections: "Articles", "Videos", and "Images". The "Articles" section features a featured article titled "Watching Birds, Tracking Climate" by Zoe Hoyle, dated May 14, 2010, with a "Read More" link. The "Videos" section includes three video thumbnails: "2010 U.S. Hurricane Outlook", "State of the Climate in 2009", and "Does a Warmer World Make Hurricanes Stronger?". The "Images" section displays four image thumbnails, including maps and a landscape photo. At the bottom of the page, there are links to "Browse ClimateWatch Articles" and "Subscribe to ClimateWatch RSS".

Six Regions, SECC is a mechanism for engagement
Time Scales: 1-50+ years

Tom Karl is interim Director, Eileen Shea is Assistant Director, both of NCDC

National Climate Assessment



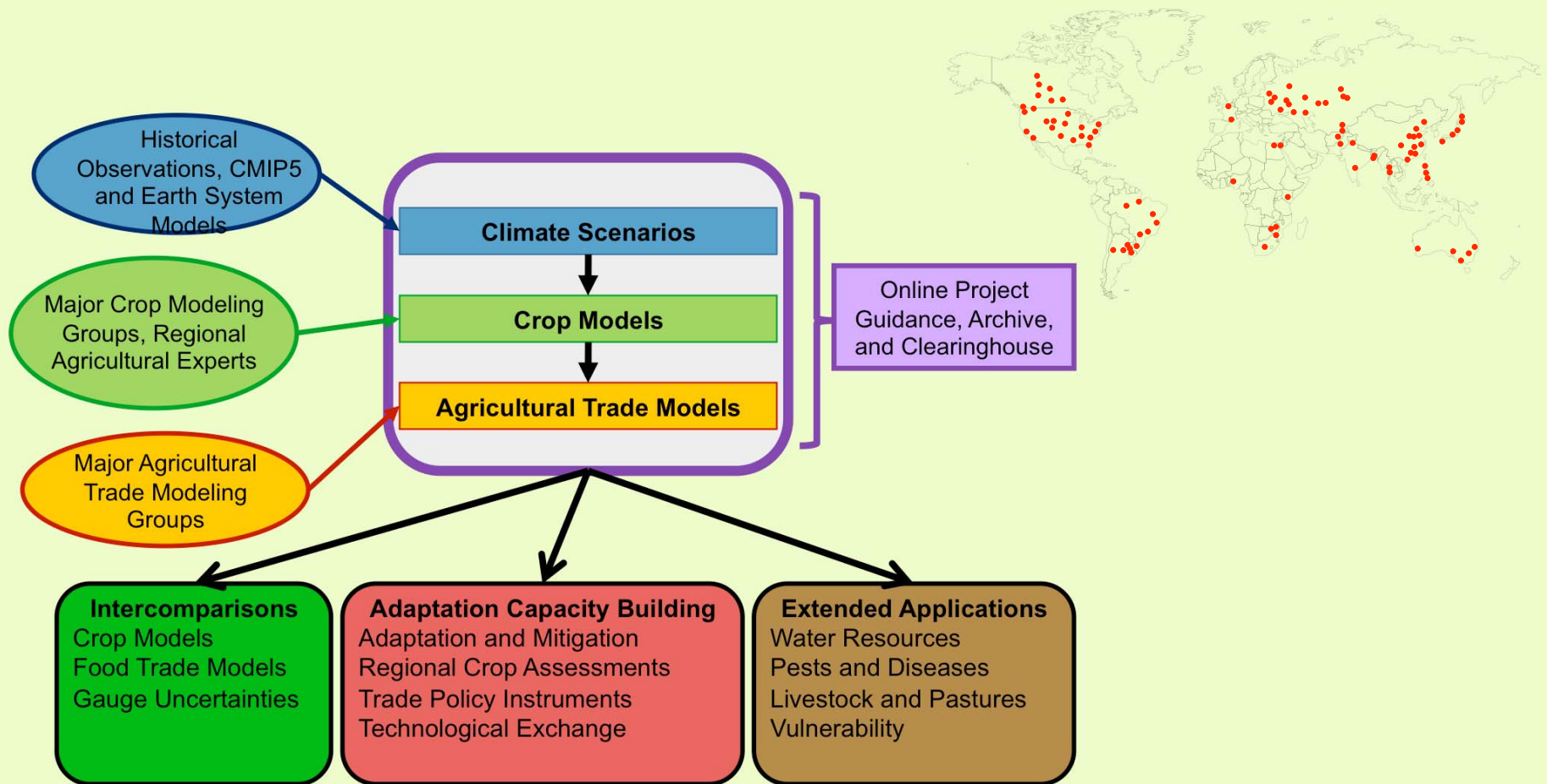
The screenshot shows the website for the United States Global Change Research Program. The header includes the program name and the tagline "Integrating federal research and solutions for climate and global change". A navigation menu is visible below the header. The main content area features a "Spotlight" section with a "Climate Change Impacts" article, a "Regional Climate Information" section with a map of the United States divided into regions (Alaska, Northwest, Southwest, Islands, Coasts, Great Plains, Midwest, Northeast, Southeast), and a "National Climate Assessment" section with the slogan "Preparing the Nation for Change". There are also social media links for Facebook and a sign-up for USGCRP News.

Kathy Jacobs, on assignment from the University of Arizona, is the Director of the National Climate Assessment



Regional assessments
Time Scales: 25 years, 50-100 years
BUT include all time scales

International Agricultural Modeling Intercomparison and Improvement Project (AgMIP) – Models and Outcomes



Led by C. Resenzweig, J. Jones, J. Hatfield

Closing Comments

