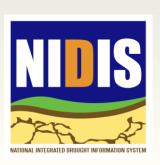
What's going on?

What is the National Integrated Drought Information System doing in the Carolinas?

Lisa Darby^{1,2},
Kirstin Dow³, Kirsten Lackstrom³, Amanda Brennan³
Paul Conrads⁴

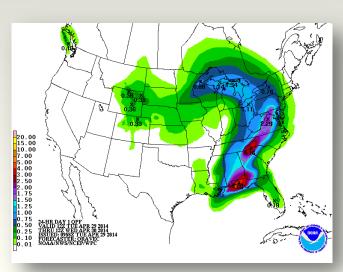
¹NOAA/NIDIS Program Office ²NOAA/ESRL/Physical Sciences Division ³Carolinas Integrated Sciences and Assessment ⁴USGS, South Carolina Water Science Center



National Integrated Drought Information System NIDIS

Outline

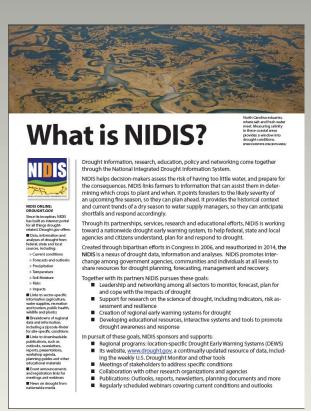
- What is NIDIS?
- Carolinas Coastal Ecosystems Drought Early Warning Information System
 - What we're currently working on
 - What we'd like to be working on in the future
 - What drought information...
 - do you need?
 - could you contribute?



National Integrated Drought Information System

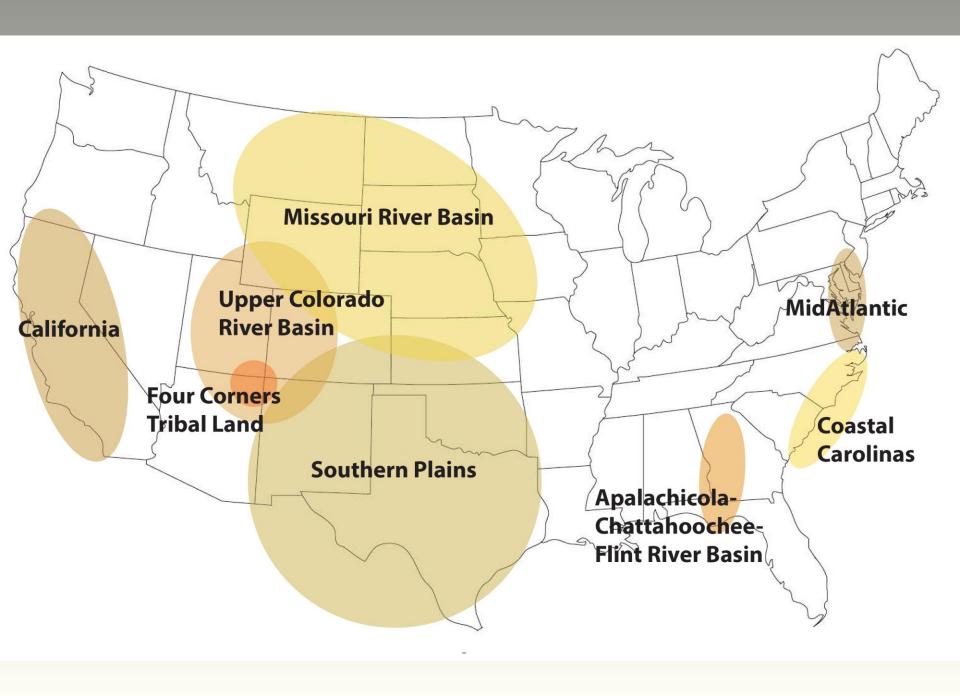
What is NIDIS?

- Established by Public Law 109-430 (The NIDIS Act of 2006), which was reauthorized by Congress in March, 2014!
- Multi-agency program
- Drought early warning
- Drought research
- Drought outlooks (regional and national)
- www.drought.gov



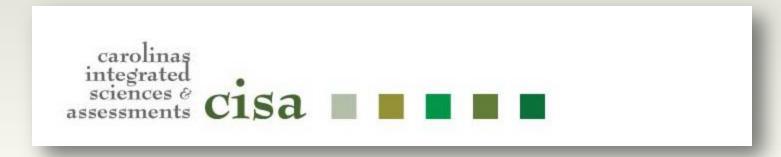
Pick up the NIDIS handout for more information

"Enable the Nation to move from a reactive to a more proactive approach to managing drought risks and impacts"



NIDIS Carolinas Coastal Ecosystems Drought Early Warning Information System

Kirstin Dow Kirsten Lackstrom Amanda Brennan



Carolinas Scoping Workshop Wilmington, NC July 31/Aug 1 2012

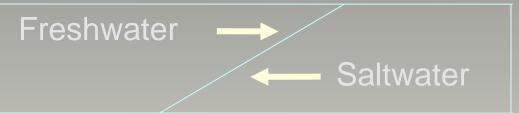


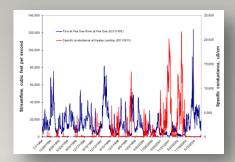
- Speaker presentations to discuss implications of drought in coastal ecosystems
- World Café style breakout sessions to brainstorm pilot project ideas
- Participants used the Turning Technologies
 Audience Response System to vote for pilot project ideas
- The original 4 projects
 - Drought indicators & indices
 - Seafood safety
 - Drought forecasting
 - Drought impact reporting
- Updates

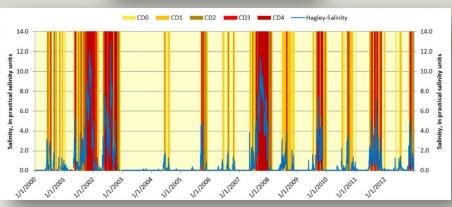
Evaluation of Drought Indicators & Indices

Project Goals

- Investigate the benefits and feasibility of creating a drought index based on realtime salinity data (Conrads)
- Relate coastal drought index to impacts (Tufford)
- Funding for "Assessment of Drought Indicators for Coastal Zone Fire Risk" (Boyles)
- Funding for "Forecasting S.C. Blue Crab Fishery using Real-time Freshwater Flow Data (Childress)
- Determine which current drought indicators and indices are appropriate for assessing drought in coastal ecosystems
- Collaborate with work being done on the North American Drought Indices and Definitions Study







Development of a salinity index based on real-time USGS data – Paul Conrads USGS

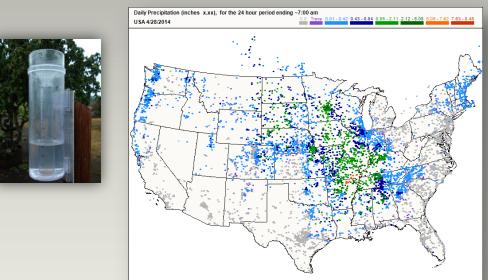
Drought Impact Monitoring

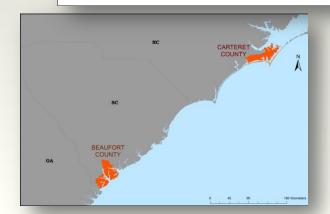
Condition Monitoring

To improve understanding of drought impacts in coastal ecosystems and connect with decision makers

Project Components:

- Citizen science 'condition monitoring' through the Community Collaborative Rain, Hail and Snow (CoCoRaHS) network
- Interviews with local business owners, commercial and recreation fishermen, and land/resource managers
- Project report is underway (CISA)
- Re-evaluate pilot goals based on what was learned in the interviews

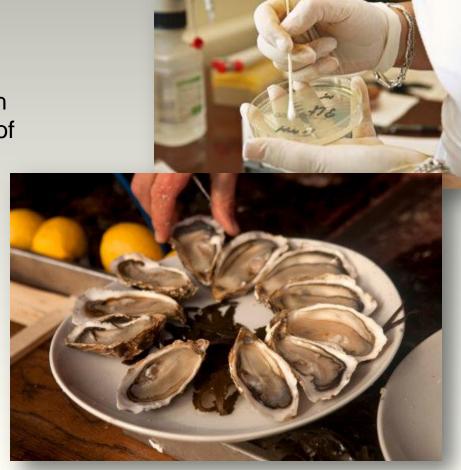




Open to more ideas

Original Project Goal

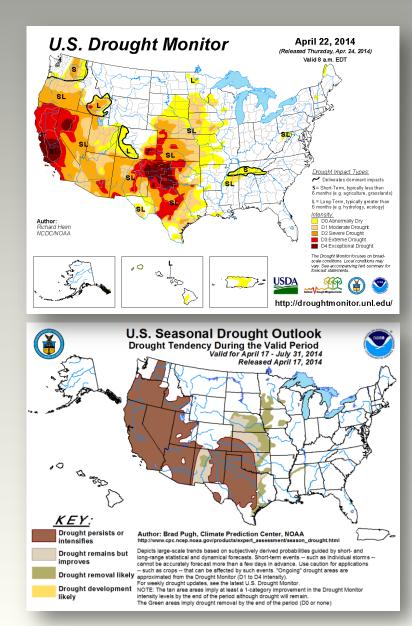
- Provide an early warning system for commercial, recreational and subsistence fishermen who harvest drought-sensitive seafood in both fresh and salt waters in the coastal regions of the Carolinas
 - Vibrio contaminates shellfish
 - HABs
 - "Drought buster" events
 - Outreach



Drought Forecasting Communications

Original Project Goals

- Introduce stakeholders to current products used for drought forecasting, step them through the process of how a drought outlook is prepared, and educate them on the caveats and uncertainties in the outlook
- Ascertain what additional drought forecasting products stakeholders need and what time scales are of most interest to them



NIDIS Carolinas Coastal Ecosystem Drought Early Warning Pilot

- ✓ Evaluation of drought indicators & indices
- ✓ Drought impact reporting/condition reporting
- Public health and water quality
- Drought forecasting communications

Thoughts, ideas, comments?

Thank you

Lisa Darby (lisa.darby@noaa.gov)



