

# Coastal Carolinas DEWS

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[https://www.drought.gov/drought/dews/  
coastal-carolinas](https://www.drought.gov/drought/dews/coastal-carolinas)

# Coastal drought



## The Impact of Drought on Coastal Ecosystems in the Carolinas

Executive Summary January 2012

Steve Gilbert, US Fish & Wildlife Service and National Oceanic and Atmospheric Administration (retired)

Kirsten Lackstrom, University of South Carolina, Department of Geography, Carolinas Integrated Sciences & Assessments

Dan Tufford, Ph.D., University of South Carolina, Department of Biological Sciences, Carolinas Integrated Sciences & Assessments

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- Causes
  - Lack of rainfall in the coastal region
  - Lack of freshwater inflow from upstream
  - Interactions with tidal regimes
- Direct effects
  - Water quality conditions, increasing salinity levels and fluctuations
  - Availability and timing of freshwater to support animals, plants, and habitats

# Coastal Salinity Index

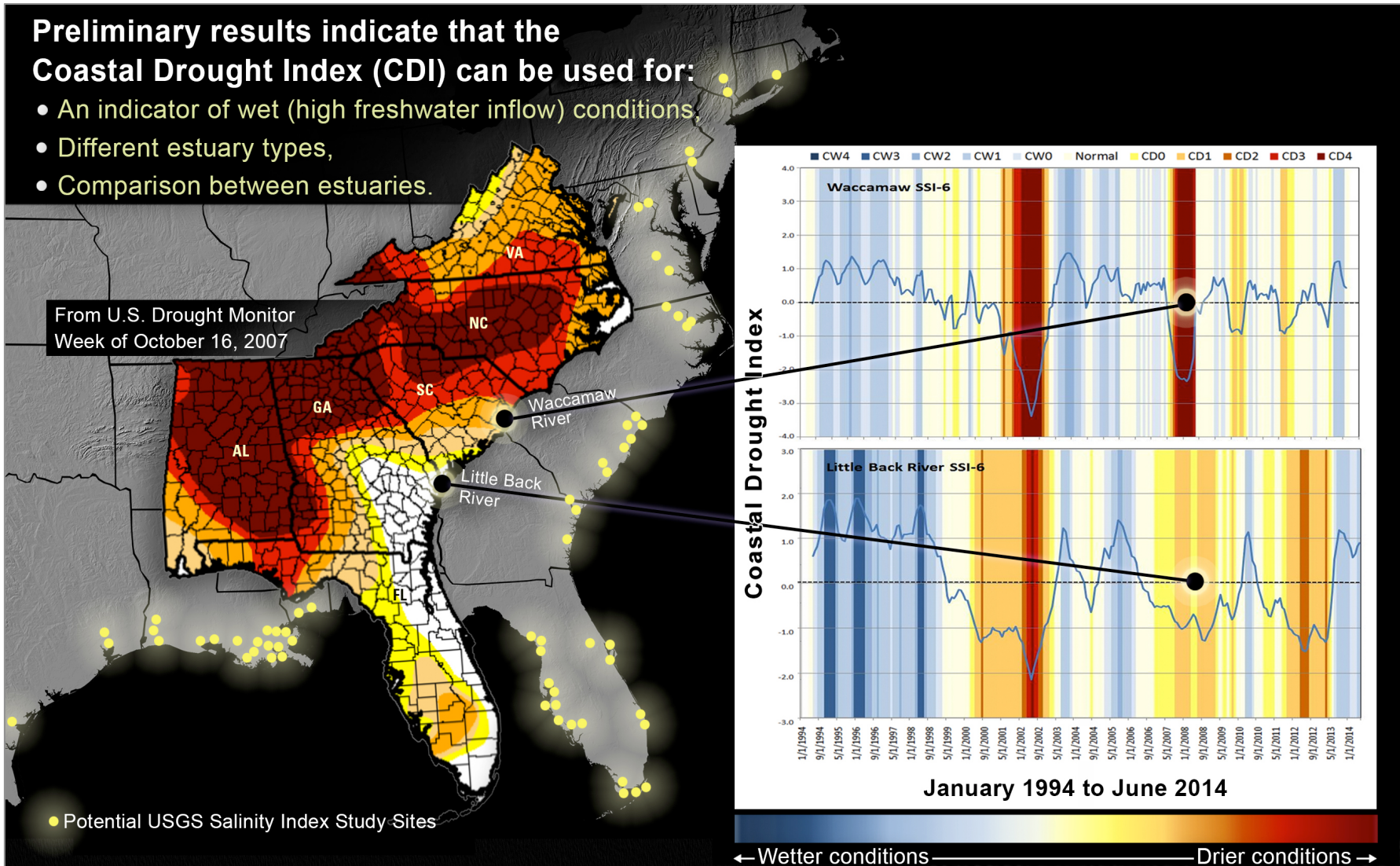
Lead: Paul Conrads, USGS South Atlantic Water Science Center

<http://sc.water.usgs.gov/drought/coastal-drought/>

**Preliminary results indicate that the Coastal Drought Index (CDI) can be used for:**

- An indicator of wet (high freshwater inflow) conditions.
- Different estuary types,
- Comparison between estuaries.

From U.S. Drought Monitor  
Week of October 16, 2007



# CoCoRaHS Condition Monitoring

Leads: Amanda Brennan and Kirsten Lackstrom, CISA

<http://www.cisa.sc.edu/cocorahs.html>



# CoCoRaHS Condition Monitoring Report Form

| Condition Monitoring Report Form                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                       |                       |                       |                       |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Station Number : SC-RC-51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       |                       |                       |                       |                       |
| Station Name : Columbia 6.6 SE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                       |                       |                       |                       |                       |
| <p>Condition monitoring reports are submitted on a regular (weekly, biweekly, monthly) basis to share information about the effects of local precipitation on the environment and society. By submitting reports on a regular basis, you create a baseline to see change through time, such as seasonal differences or changes caused by more or less precipitation. Please refer to the <a href="#">Condition Monitoring training slide show</a> for more information.</p> <p><i>* indicates required field</i></p>                                                                                                                                                                                                                                                                                   |                       |                       |                       |                       |                       |                       |
| Report Date *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                       |                       |                       |                       |                       |
| 4/22/2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                       |                       |                       |                       |                       |
| <div>Condition Scale Bar <a href="#">More information on the scale bar</a> <span>Clear Scale Bar</span></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                       |                       |                       |                       |                       |
| Severely Dry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Moderately Dry        | Mildly Dry            | Near Normal           | Mildly Wet            | Moderately Wet        | Severely Wet          |
| <input type="radio"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                       |                       |                       |                       |                       |
| <p>Please provide a description of how dry, normal or wet conditions are affecting you, your livelihood, your activities, etc. *</p> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                       |                       |                       |                       |                       |
| <div>Report Categories</div> <p>Please check at least one report category. If you check a category, please provide supporting information in the description. <a href="#">More information on condition monitoring categories</a>.</p> <ul style="list-style-type: none"><li><input type="checkbox"/> General Awareness</li><li><input type="checkbox"/> Agriculture</li><li><input type="checkbox"/> Business And Industry</li><li><input type="checkbox"/> Energy</li><li><input type="checkbox"/> Fire</li><li><input type="checkbox"/> Plants And Wildlife</li><li><input type="checkbox"/> Relief Response</li><li><input type="checkbox"/> Society And Public Health</li><li><input type="checkbox"/> Tourism And Recreation</li><li><input type="checkbox"/> Water Supply And Quality</li></ul> |                       |                       |                       |                       |                       |                       |
| <div>Submit Data</div> <div>Reset</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                       |                       |                       |                       |                       |

# Condition Monitoring Web Map

(available May 2016, [www.cisa.sc.edu/webmap](http://www.cisa.sc.edu/webmap))

