

# A Fire Weather Intelligence Portal for the Southeast US

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# Background

- 2005ish: Discussions began between SCO and NC Forest Service
- Goal: A real-time monitoring tool for weather and fire risk info.



*Evans Road fire, from US F&WS*



# Portal History

- 2011: Portal development began
  - Iterative design process with NCFS
  - Adding NC stations to WIMS Database
- June 2013: Portal officially released for NC
- Since then: Maintenance supported by NCFS



# Portal Successes

- One-stop shop for weather and fire risk information
- Established a strong relationship between SCO, NCFS
- North Carolina became a pioneer for providing this sort of information
  - “How can I get this for my state?!”



# Portal Expansion

- Funding from SERCH to add data for the 13-state southern region
- Rebuild of the Portal backend
  - Reduce load times
  - Add mobile compatibility
  - Use latest mapping technology



# Portal Demo

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<https://climate.ncsu.edu/fwip>





# New Datasets

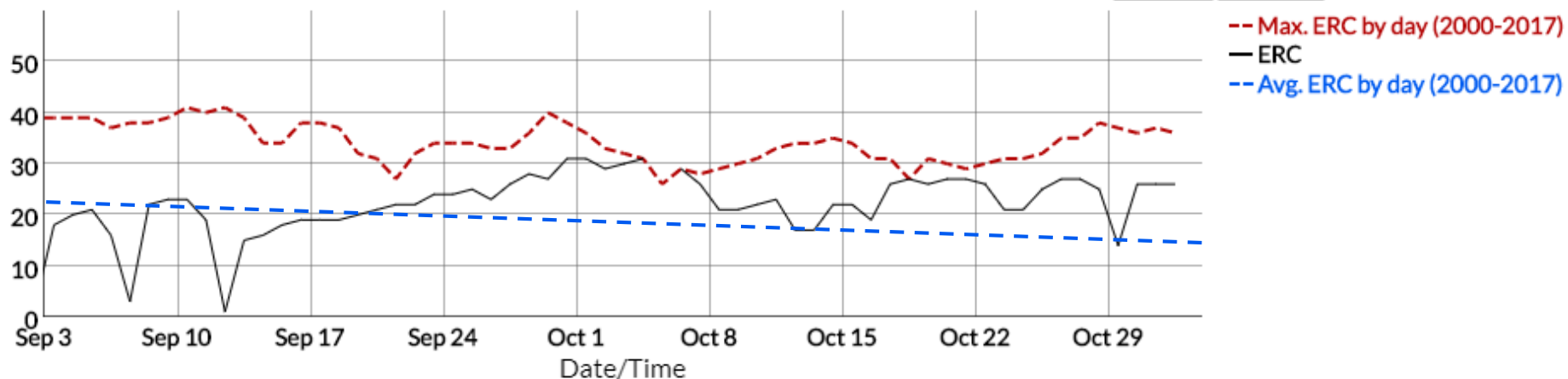
- CPC outlook, WPC QPF, US Drought Monitor overlays
- Regional/national fire and smoke products
  - Ventilation rate, Burning Category, ADI
- NFDRS2016 data
  - Including gridded datasets



# Added Features

- Retrieving gridded values and point histories on click
- More historical context for meteograms

Meteogram options: Energy Release Component ▾ for a period of 60 ▾ days ending Nov ▾ 2 ▾ 2017 ▾ [Display](#) [Remove](#)





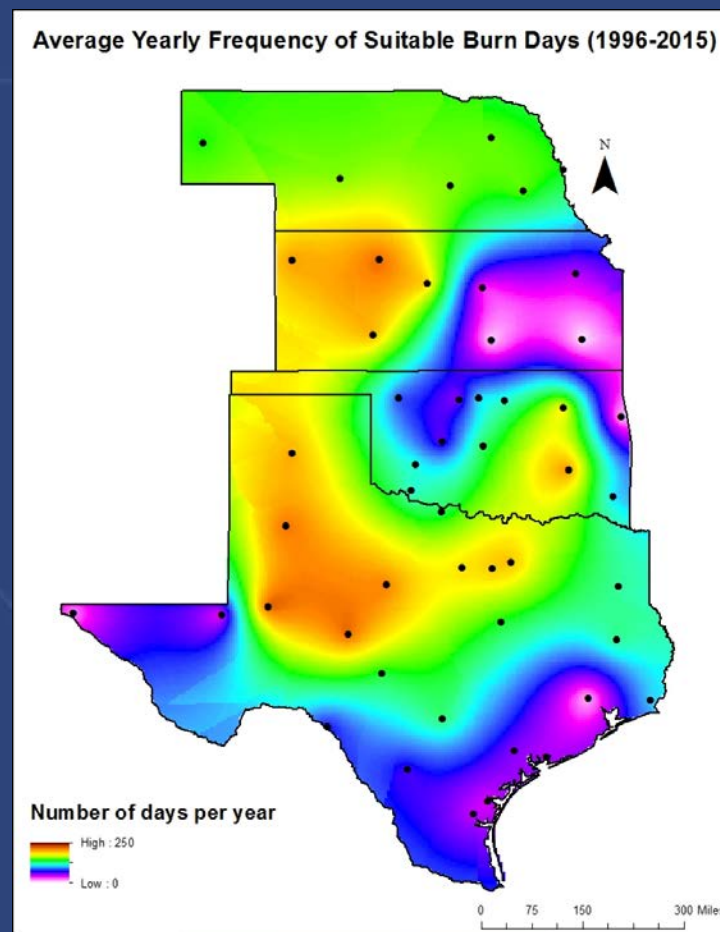
# Alerts

- Portal data will be incorporated into **SERCH LIGHTS**
  - Currently for monthly drought outlooks, cattle heat stress index
- KBDI alert is in development
- Eventually, other gridded fire risk parameters



# Fire Research

- Prescribed burn day climatology and future projections
  - Similar to climatological analysis by Southern Climate Impacts Planning Program



# Questions or Suggestions?

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