

Jeffrey Basara

University of Oklahoma

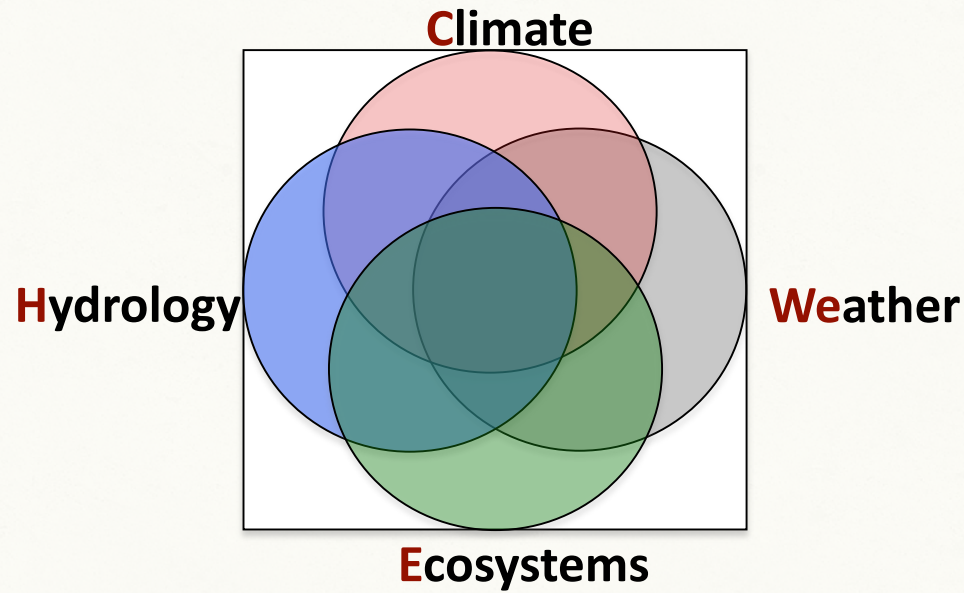
- *Associate Professor, School of Meteorology*
- *Associate Professor, School of Civil Engineering and Environmental Science*
- *Executive Associate Director, Hydrology and Water Security Program*
- *Director, Kessler Atmospheric and Ecological Field Station*





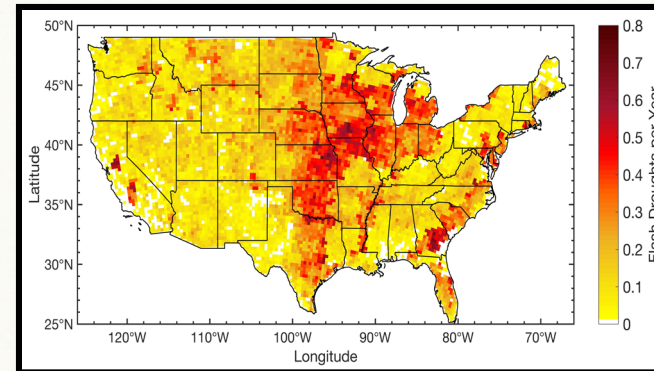
CHEWe Research Group:

Interdisciplinary Research Focus



Dr. Jeffrey Basara

- Leads and directs an 7-member research group (**CHEWe**): **3 PhD** students, **3 MS** students, **1 Research Affiliate** (Dr. Brad Illston).
- Multiple OU, National, and International collaborations
- The Research Group works on a variety of critical topics with impacts spanning **local to global** including:
 - Excessive Precipitation and Flooding
 - Drought development, intensification, and persistence
 - Surface/PBL Fluxes of Heat, Water Vapor, Carbon Dioxide, and Methane
 - Surface-Atmosphere Coupling (rural/urban)



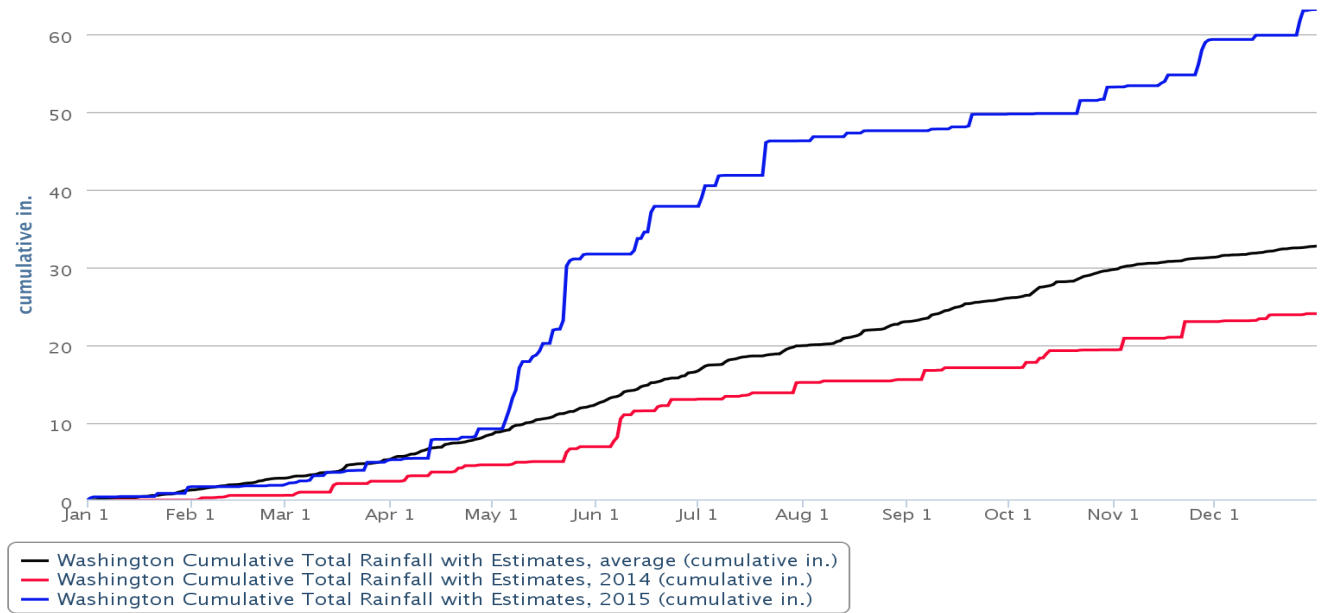
October 2014



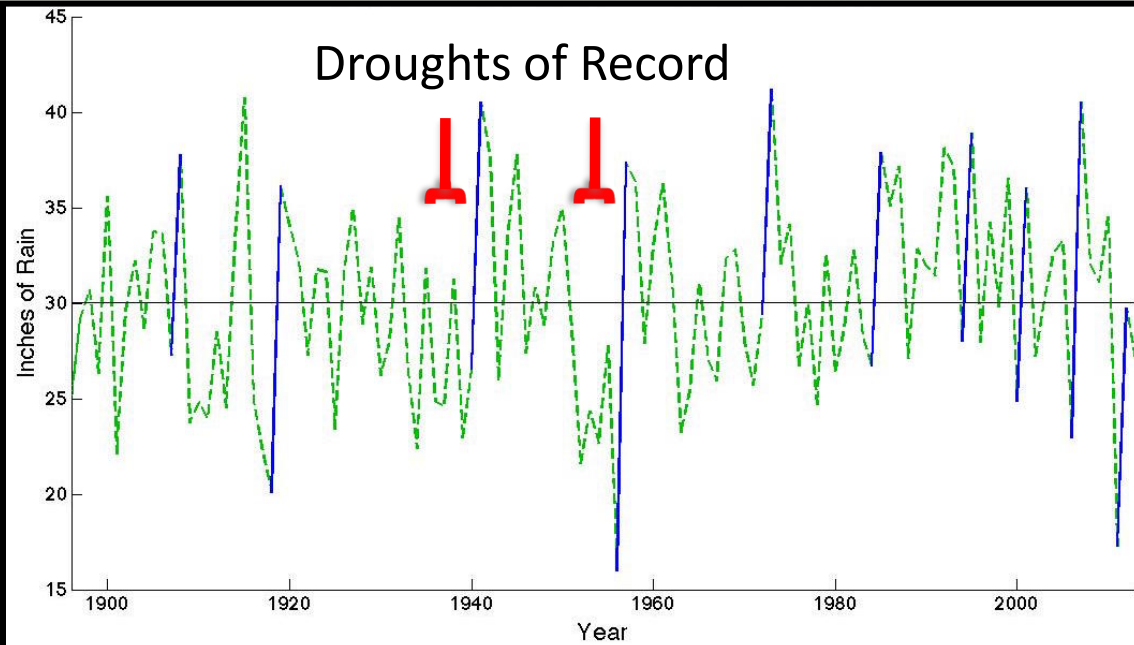
May 2015



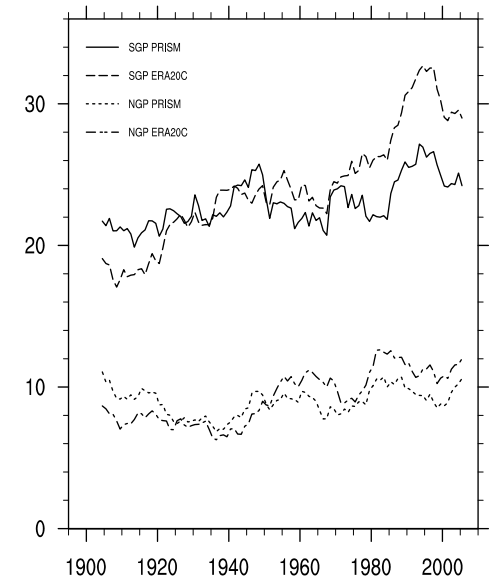
Long-Term Averages



Droughts of Record



10 Year Running Mean Precipitation Standard Deviation

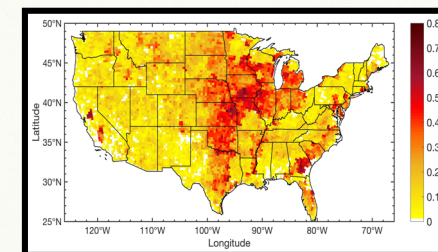
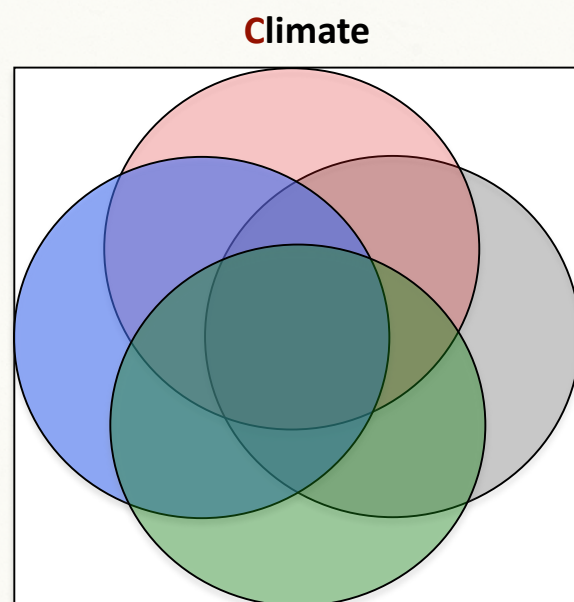




Questions?

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<http://hydrometeorology.oucreate.com>



HYDROLOGY & WATER SECURITY PROGRAM
The UNIVERSITY of OKLAHOMA

Ecosystems

CHEWe Research Group - Interdisciplinary Research Focus