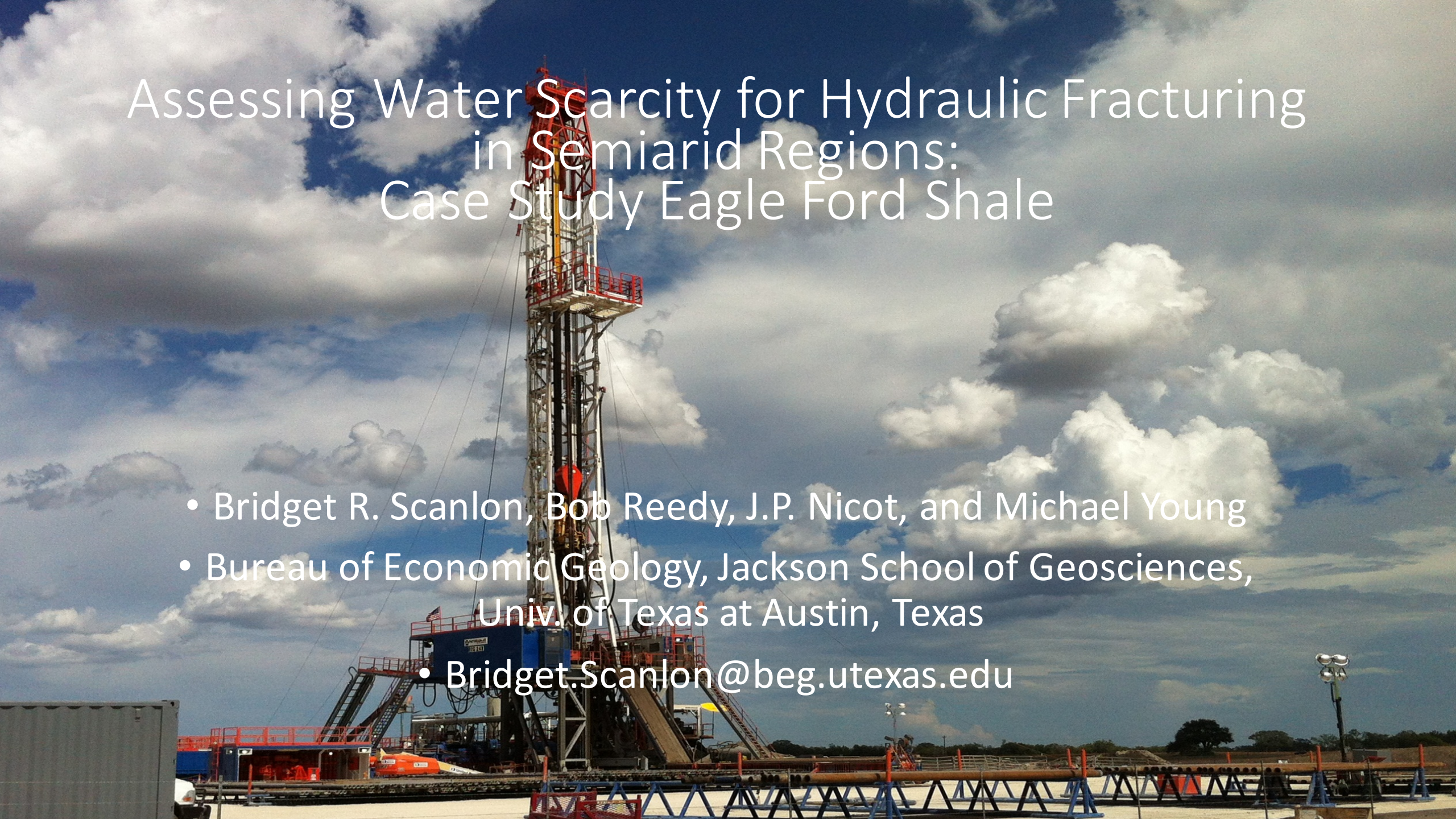
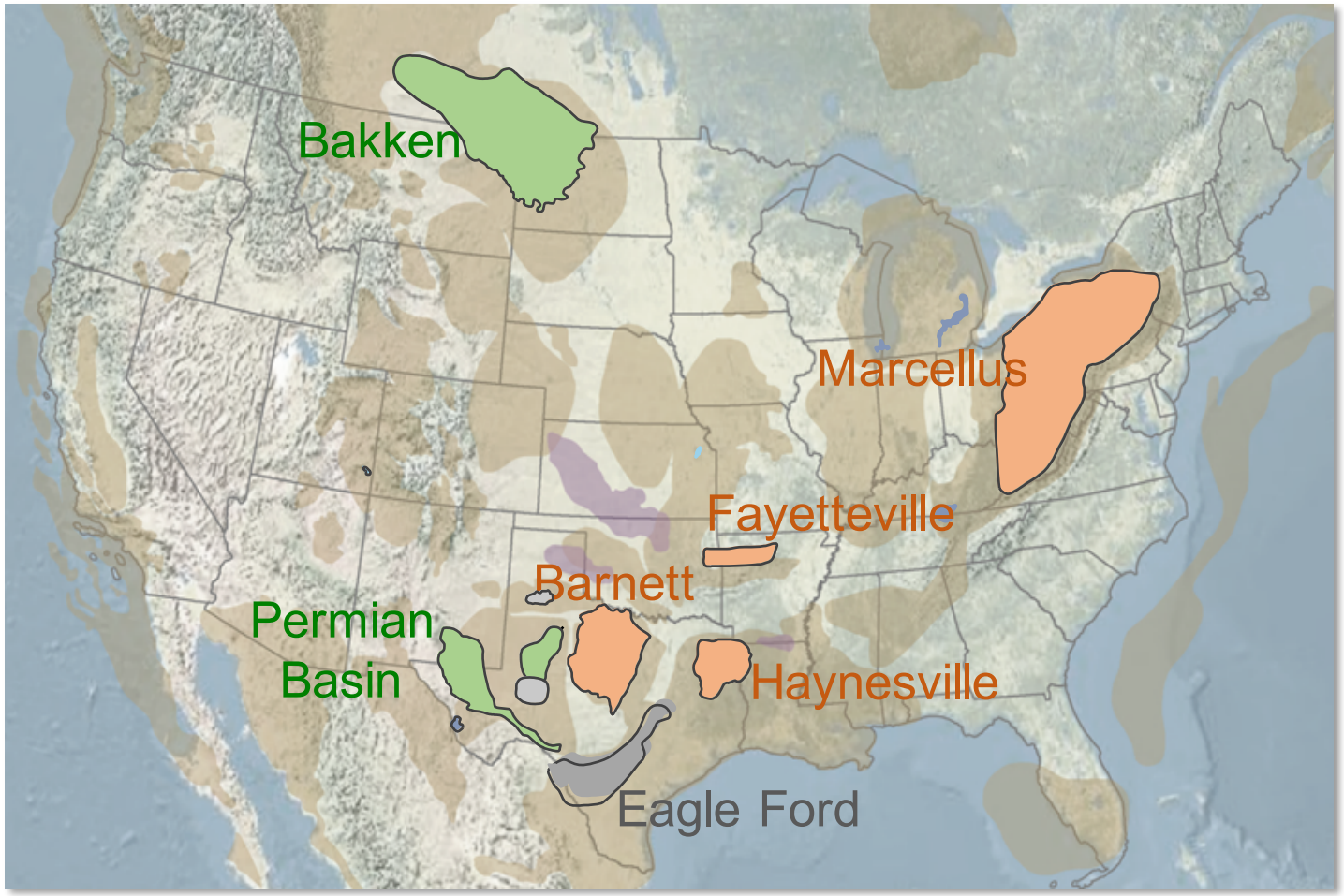


Assessing Water Scarcity for Hydraulic Fracturing in Semiarid Regions: Case Study Eagle Ford Shale

- Bridget R. Scanlon, Bob Reedy, J.P. Nicot, and Michael Young
- Bureau of Economic Geology, Jackson School of Geosciences, Univ. of Texas at Austin, Texas
- Bridget.Scanlon@beg.utexas.edu

Unconventional Resource Plays



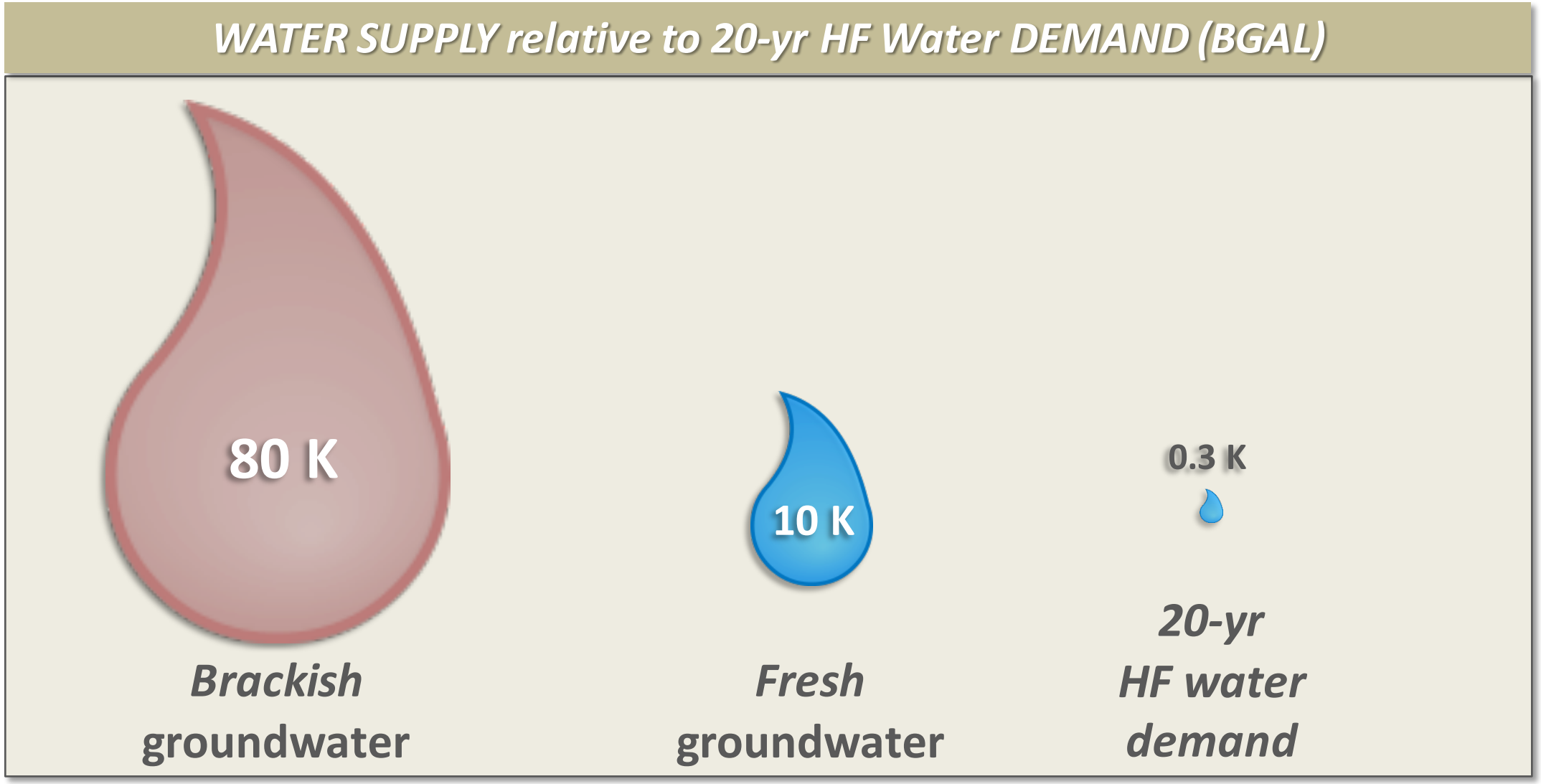
Mitchell Foundation: Permian Basin

Sloan Foundation: Marcellus, Fayetteville, Haynesville, Barnett, Eagle Ford, and Bakken

Water demand for hydraulic fracturing relative to water supplies
Produced water and related management

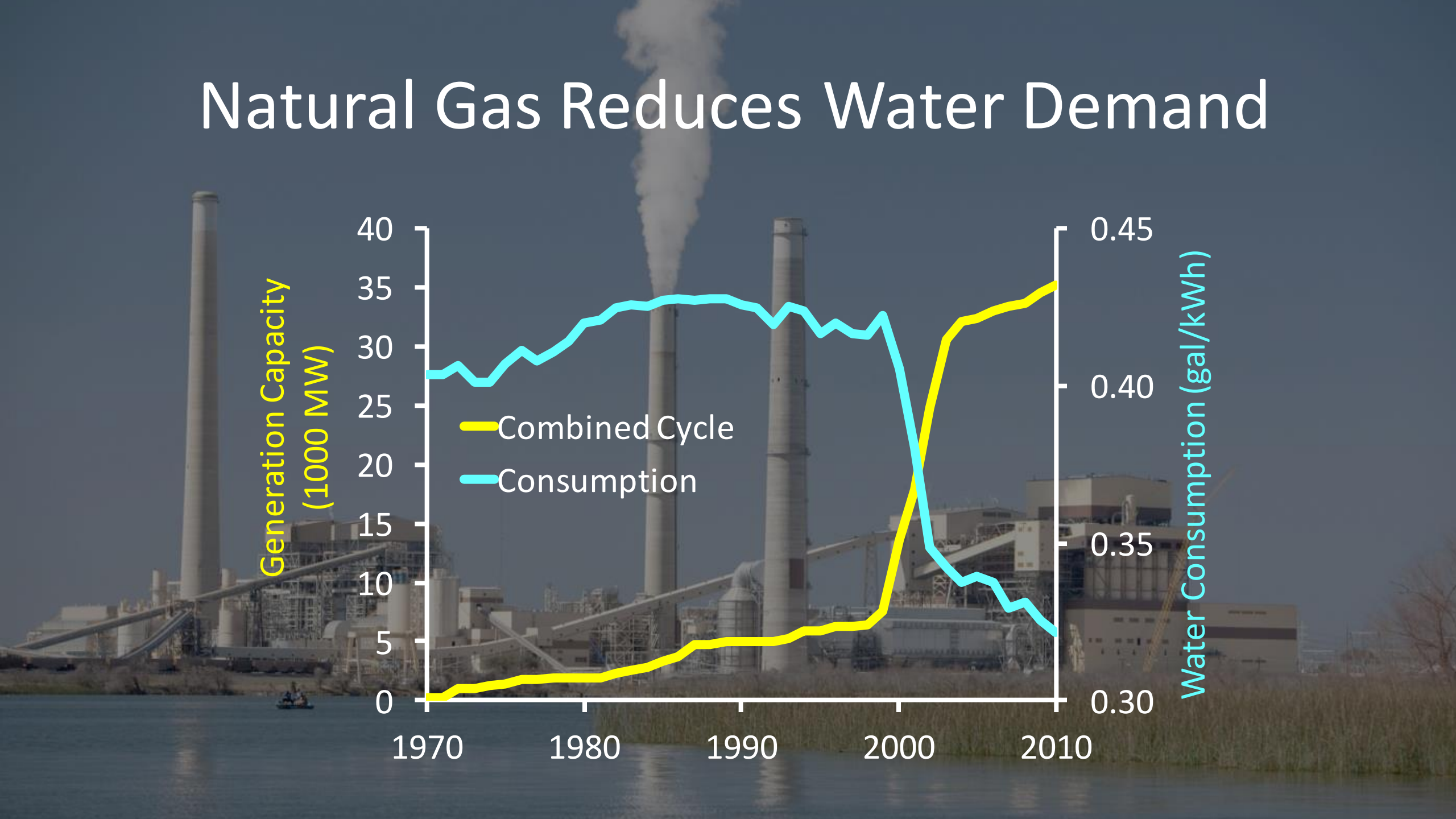
Bridget Scanlon, Univ. TX, 2016

Alternatives to Freshwater in the Eagle Ford Play: Brackish Groundwater

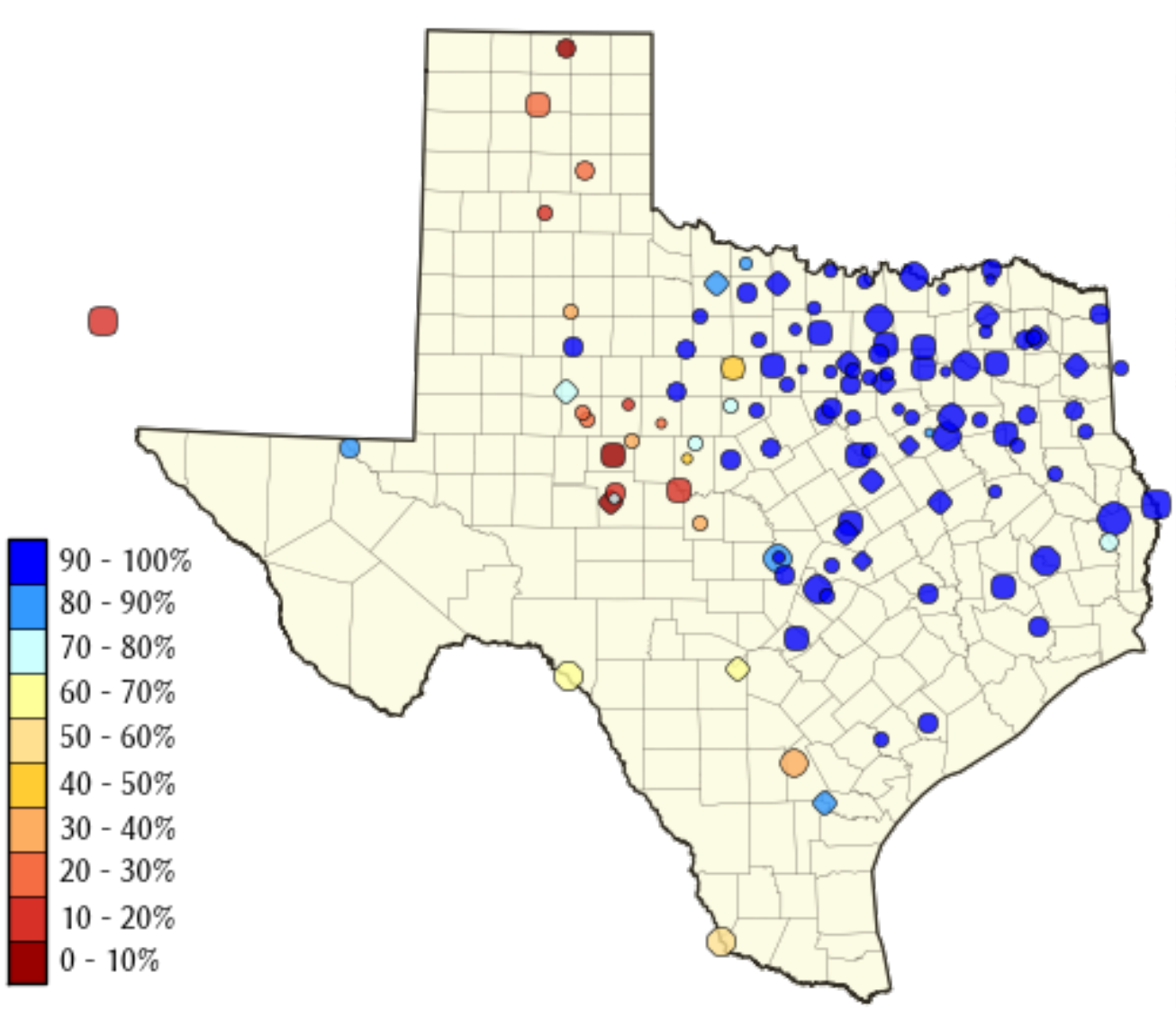


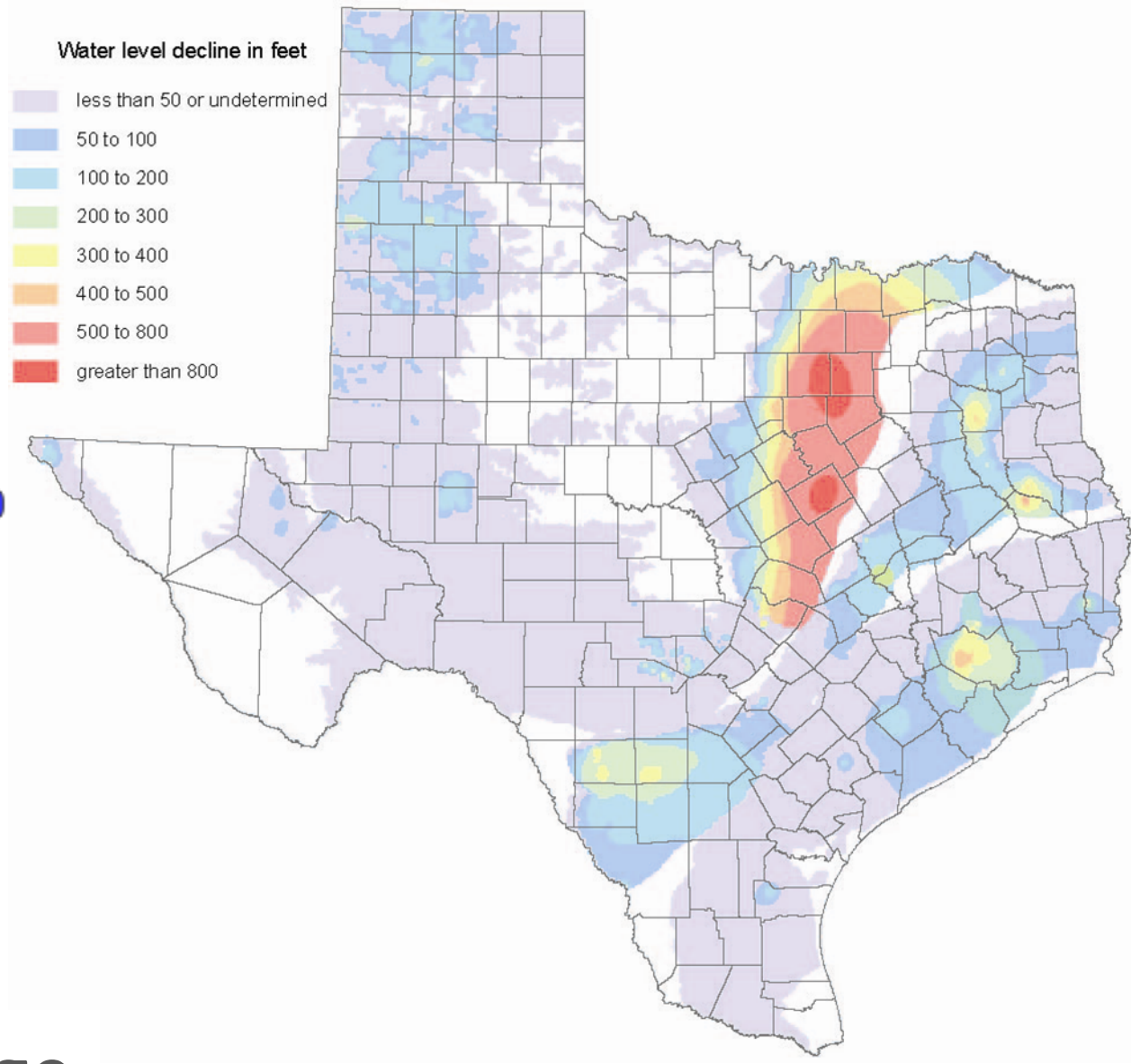
Scanlon et al., Env. Res. Lett. 2014

Natural Gas Reduces Water Demand



Managing water for droughts and floods





Using depleted aquifers for storage