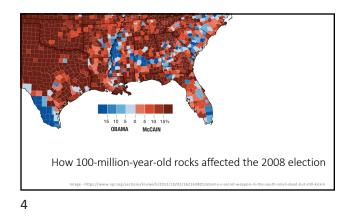


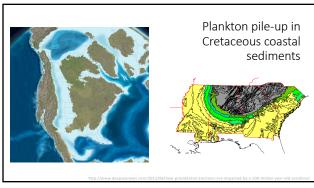


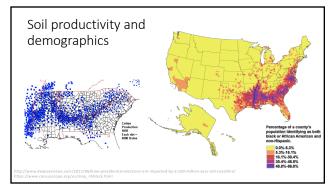
2

Fertile crescent

Highway of grass Wedge of silty sand





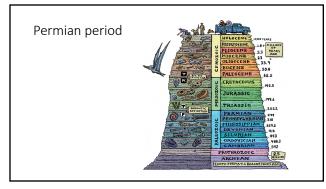


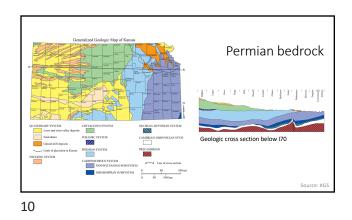


Fertile crescent Highway of grass Wedge of silty sand

7







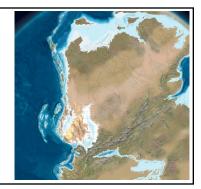


Permian bedrock in the Flint Hills

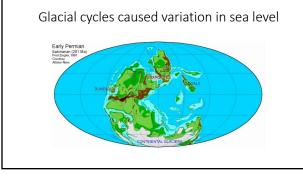




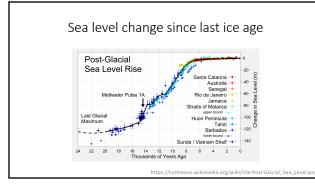
What was happening during the Permian?



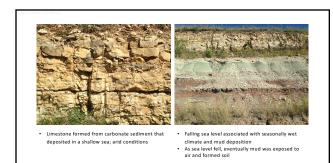






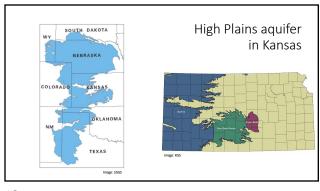




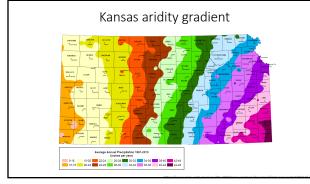


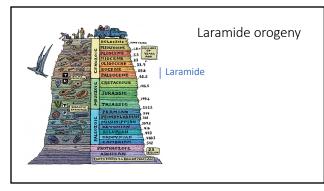
Fertile crescent Highway of grass Wedge of silty sand



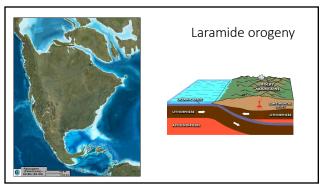




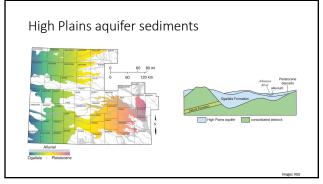


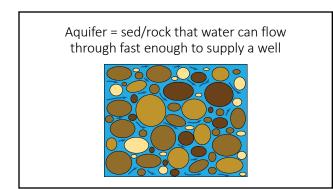


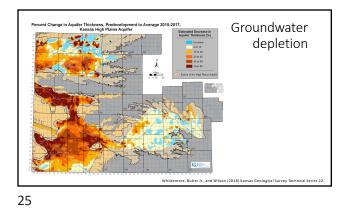




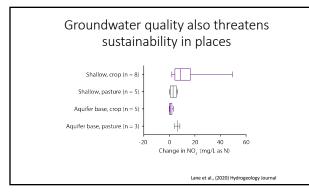












Concluding remarks

- Geology, climate, and land use are interwoven controls on life
- We discussed examples of impacts to human activities, but it goes far beyond that (from $\mu organisms$ on up)
- These interactions are changing with climate and as a result of unsustainable land-use practices