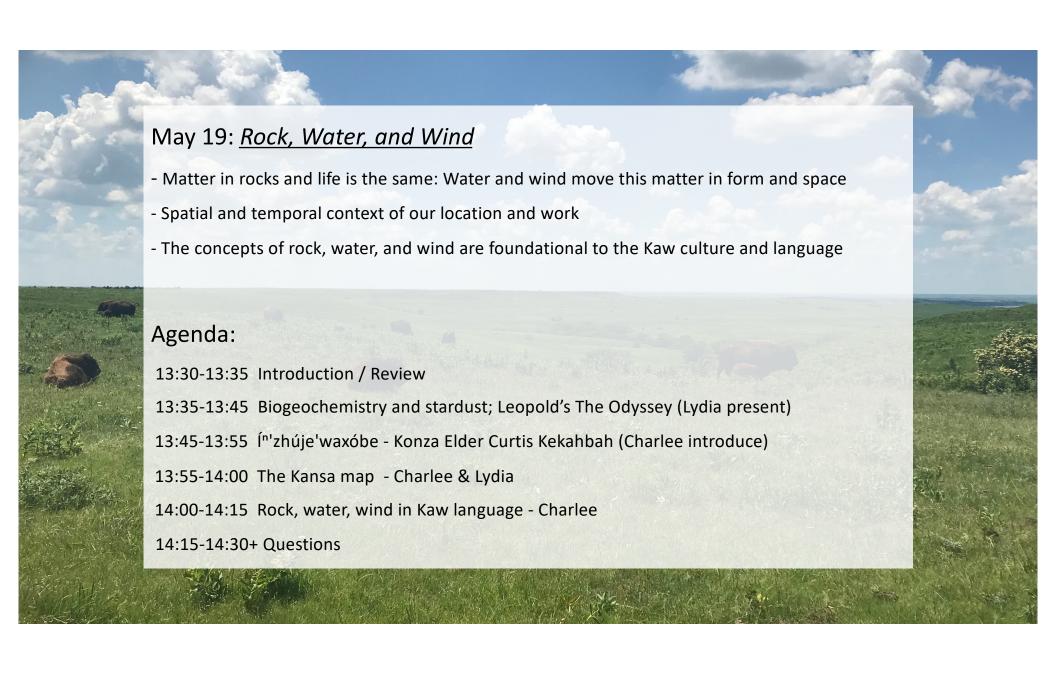


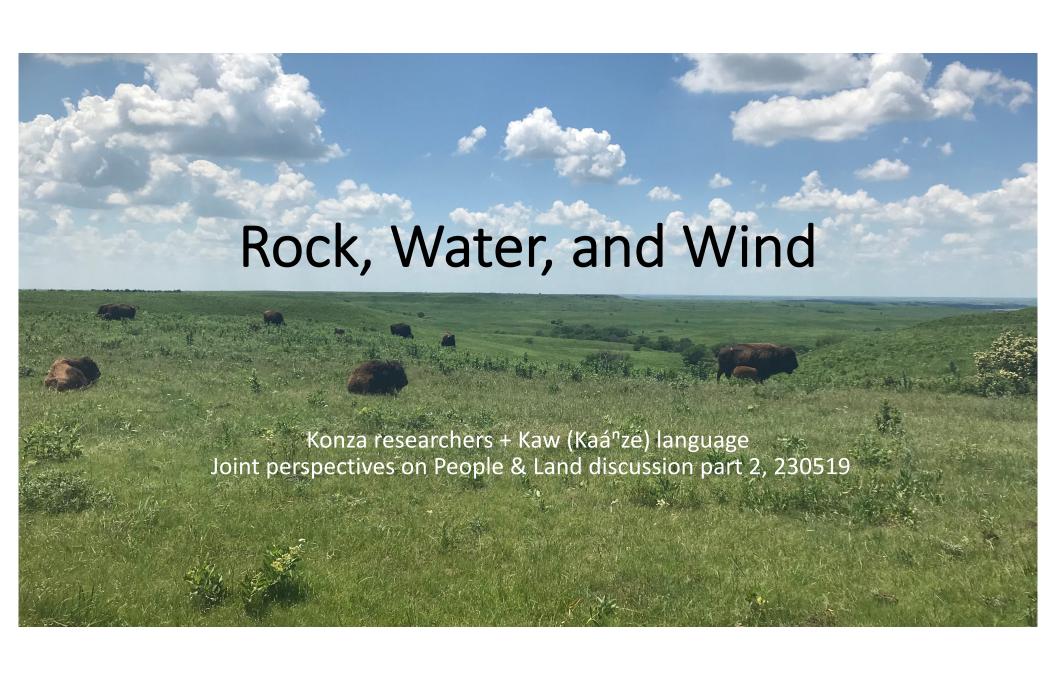
Land and Name Acknowledgement

The grasslands on which Konza Prairie LTER research is focused have been a home to people for thousands of years, including many named and unnamed peoples who lived and hunted here prior to European settlement. Indigenous people of the Kaw (Kanza) Nation inhabited and stewarded this area until their forced removal between 1846 and 1872, when they were relocated to a small reservation in what is now Oklahoma. The depopulated Kaw land was subsequently used to finance the Land-Grant University system under the Morrill Act of 1862, including Kansas State University, which administers the Konza Prairie LTER Program. Our LTER research program operates under a name, "Konza", that is derived from the name of the Kaw, or "Kaáⁿze", People.

The Konza Prairie LTER acknowledges the immemorial connection of Indigenous peoples with these lands, and we pledge to respect and honor the past and current legacy, cultural history, and knowledge of the Kaw Nation. Through our professional capacity as scientists and educators, we will work to increase our knowledge of the human legacy of these lands, and in turn, will teach this history to others. The beauty of this land inspires our work to understand the tallgrass prairie and support conservation of this ecosystem. However, this inspiration also serves as a reminder of the Indigenous human history that has shaped the modern landscape, and the influence that our current actions will have on the prairie of the future.









Ecology:

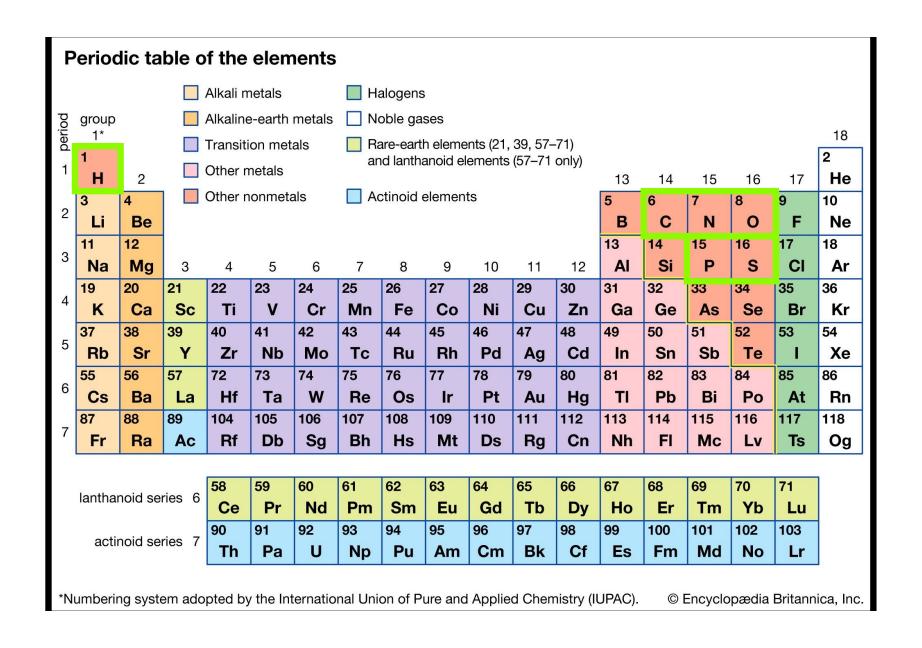
study the interactions between organisms and their environment

Ecosystem ecology:

study the *flow of energy and matter* between organisms and
their environment

Biogeochemistry:

study the chemical links between biotic and abiotic realms of an environment





We are in fact made of the same stuff as stars ©

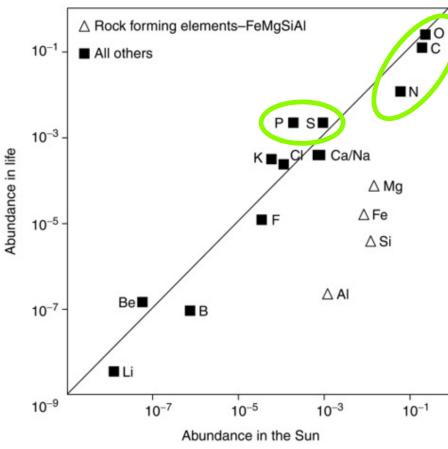


Figure 2.2. Relative abundance of elements in living tissue versus abundance in the Sun. Data from Langmuir and Broecker (2012) with data identified following Asplund et al. (2009). Graph from Schlesinger and Bernhardt, **Biogeochemistry** 4th ed., 2020.



Long-term Ecological Research (LTER) Program

From the International Biological
Program (late 1960s-70s)
National Science Foundation
Ecosystem Studies 1970s
LTER program begins 1980

Goals of understanding linkages between material, energy, primary producers, consumers, at wholesystem scales (watershed or lake)

Our research is borne from these ambitious efforts.

A Sand County Almanac and Sketches Here and There by Aldo Leopold

Oxford University Press 1949

Odyssey

X had marked time in the limestone ledge since the Paleozoic seas covered the land. Time, to an atom locked in a rock, does not pass.

The break came when a bur-oak root nosed down a crack and began prying and sucking. In the flash of a century the rock decayed, and X was pulled out and up into the world of living things. He helped build a flower, which became an acorn, which fattened a deer, which fed an Indian, all in a single year.

From his berth in the Indian's bones, X joined again in chase and flight, feast and famine, hope and fear. He felt these things as changes in the little chemical pushes and pulls that tug timelessly at every atom. When the Indian took his leave of the prairie, X moldered briefly underWISCONSIN

ground, only to embark on a second trip through the bloodstream of the land.

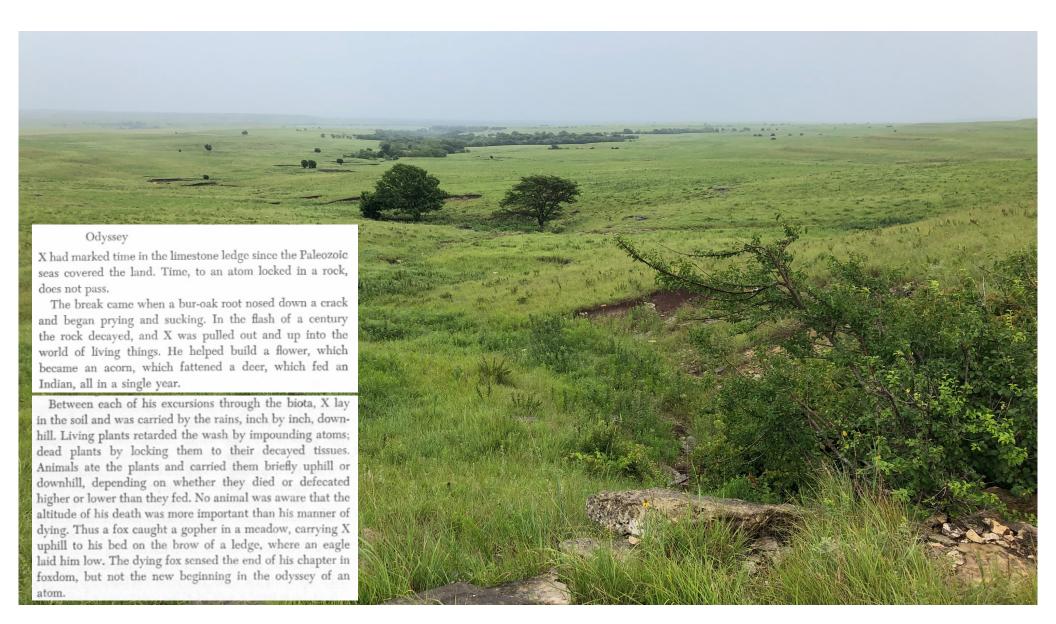
This time it was a rootlet of bluestem that sucked him up and lodged him in a leaf that rode the green billows of the prairie June, sharing the common task of hoarding sunlight. To this leaf also fell an uncommon task: flicking shadows across a plover's eggs. The ecstatic plover, hovering overhead, poured praises on something perfect: perhaps the eggs, perhaps the shadows, or perhaps the haze of pink phlox that lay on the prairie.

When the departing plovers set wing for the Argentine, all the bluestems waved farewell with tall new tassels. When the first geese came out of the north and all the bluestems glowed wine-red, a forehanded deermouse cut the leaf in which X lay, and buried it in an underground nest, as if to hide a bit of Indian summer from the thieving frosts. But a fox detained the mouse, molds and fungi took the nest apart, and X lay in the soil again, foot-loose and fancy-free.

Next he entered a tuft of side-oats grama, a buffalo, a buffalo chip, and again the soil. Next a spiderwort, a rabbit, and an owl. Thence a tuft of sporobolus.

All routines come to an end. This one ended with a prairie fire, which reduced the prairie plants to smoke, gas, and ashes. Phosphorus and potash atoms stayed in the ash, but the nitrogen atoms were gone with the wind. A spectator might, at this point, have predicted an early end of the biotic drama, for with fires exhausting the nitrogen, the soil might well have lost its plants and blown away.

But the prairie had two strings to its bow. Fires thinned its grasses, but they thickened its stand of leguminous herbs: prairie clover, bush clover, wild bean, vetch, lead-plant, trefoil, and Baptisia, each carrying its own bacteria housed



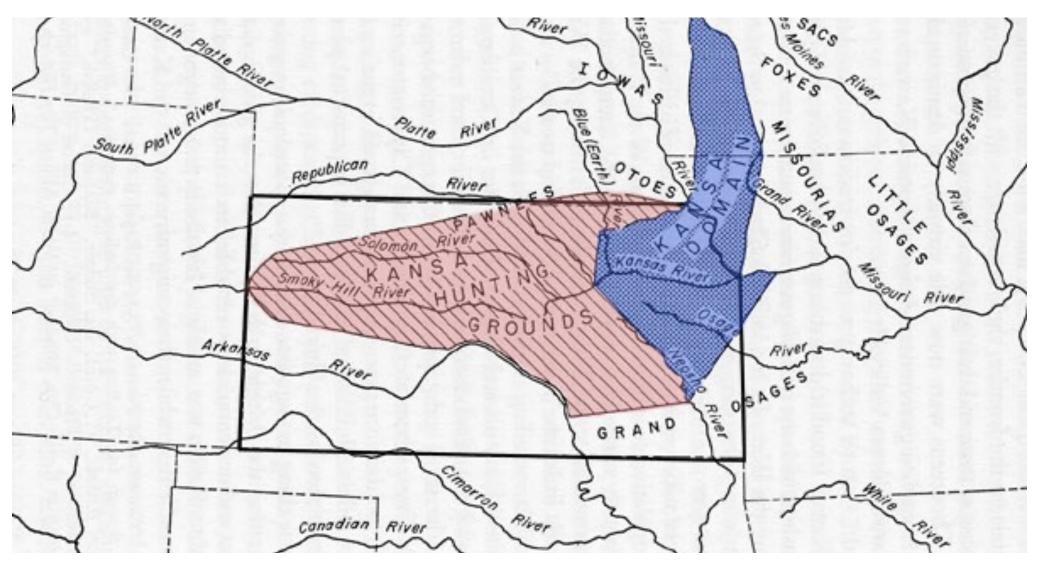
Íⁿ'zhúje'waxóbe

The Sacred Red Rock

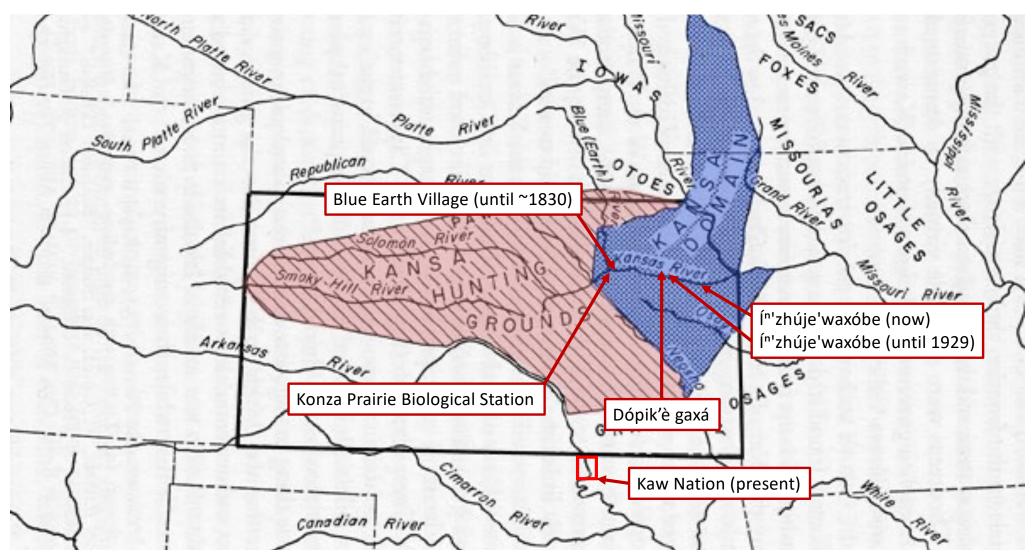
https://www.robinsonpark1929.com/curriculum



Kanza Elder Curtis Kehkahbah tells Íⁿ'zhúje'waxóbe's story to Kanza youth (recorded March 9, 2021).



https://www.kawmission.org/places/kawmission/lethalkanzareservations.htm; https://sites.google.com/site/kanzalanguageandlandscape/home?authuser=0



https://www.kawmission.org/places/kawmission/lethalkanzareservations.htm; https://sites.google.com/site/kanzalanguageandlandscape/home?authuser=0

