

EurekaAlert! Science Reporting for Kids, Part B

Lesson Title: Simulating Climate Change Research in Grasslands

Page 1 of 2

Name: _____



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More time tells a different story about plants and climate change (Part B)

Over the first two years of the field experiment, the changed conditions increased production and diversity. In the first two years the plants, insects and spiders loved the extra water and thrived. In the second year the grasses began to thrive.

Then, annual grass production soared and its litter suppressed regrowth of flowering plants. By the five year mark, plant species richness had fallen to half that of the control plots and the production of plants insects could eat plummeted. As grasses took over, food for grasshoppers disappeared, then as grasshoppers died, the spiders soon followed.

Researchers suggest that short term studies do not provide an accurate picture of the long-term effects. They are continuing the study to see what happens in the even longer-term.

Climate change affects all organisms and this study gives us a different picture of what the future may hold, Suttle explained. "For example, if you are a fish that is going to be favored by higher water temperatures, that does not mean you'll be more favored, because it is not just about how climate change affects you. It is also about how it affects the things that compete with you."



About the Scientist:

Blake Suttle grew up in Connecticut and studied biology in college because he thought he wanted to be a doctor. After college he volunteered on animal research projects in the West because he had always been fascinated by wolves and predators. The projects were studying wolves in Yellowstone National Park, mountain lion hunting behavior at Sawtooth National Forest and bald eagles in Idaho.

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Page 2 of 2

Name: _____

From those experiences "I knew that field research and ecology was what I wanted to do with my life," he said. "Ecology is the science that examines the distribution of species and abundance on Earth."

Suttle went to graduate school at the University of California Berkeley and began working on this large research project three and on-half hours away from the university. "I spent months living at the field site setting up an irrigation system for watering the plants. The project is based on an area of thousands of acres of preserved land."

"I spent every summer there and taught classes in the fall," Suttle said. The rest of the year I spent a lot of time in the field collecting data."

[The full story is found at <http://www.eurekaalert.org/features/kids/2007-02/aaft-mtt012607.php>.]