

**Project Summary**  
**Rocky Mountains Cooperative Ecosystem Studies Unit**

**Task Agreement #:** G20AC00465

**Project Title:** Using a Multi-Scale Approach to Synthesize Measurements and Models of C4 Photosynthesis

**Discipline:** Natural

**Type of Project:** Technical Assistance/Research

**Funding Agency:** United States Geological Survey

**Other Partners/Cooperators:** University Of Colorado

**Student Participation:** No

**Effective Dates:** 10/01/2020 09/30/2022

**Funding Amount:** \$100,000.00

**Investigators and Agency Representative:**

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**Project Abstract:**

Project goals: The goal of this research is to organize, synthesize, and integrate available C4 photosynthesis and stomatal conductance observations to improve the representation of C4 traits in models, expanding the knowledge of how C4-dominant ecosystems will respond to future environmental change

Project objectives: The objectives of this project are to:

- 1) Organize, synthesize, and integrate available C4 photosynthesis and stomatal conductance observations to evaluate the representation of C4 traits in models.
- 2) Update the ecophysiological logic used for computing C4 photosynthesis in leaf-, regional and global-scale models.