

## **Project Summary**

### **Rocky Mountains Cooperative Ecosystem Studies Unit**

**Project Title:** CSU Participation in USGS-NASA Habitat Modeling Activities

**Discipline:** Natural  
**Type of Project:** Research  
**Funding Agency:** USGS  
**Other Partners/Cooperators:** Colorado State University  
**Effective Dates:** 8/1/2014 - 7/31/2015  
**Funding Amount:** \$35,307

**Investigators and Agency Representative:**

USGS Contact: Catherine Jarnevich, USGS Fort Collins Science Center, 2150 Center Ave Bldg C, Fort Collins, CO 80526; 270-226-9439; jarnevichc@usgs.gov

Investigator: Sunil Kumar, Colorado State University, Fort Collins, CO 80526; 970-491-2302; Sunil.Kumar@colostate.edu

**Project Abstract:** The goal of this research is to make progress in connecting climate drivers to biological responses through habitat niche modeling.

The results of this project will allow for the integration of:

- cutting-edge data sources available through NASA's Terrestrial Observation and Prediction System (TOPS)
- high-performance computational resources available through NASA Earth Exchange at ARC
- VisTrails provenance-enabled scientific workflow middleware developed at the University of Utah with NSF and DOE funding.

**Outcomes with completions dates:** July 31, 2015

**Keywords:** climate change, biological responses, habitat modeling, USGS, Colorado State University