Project Summary
Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Wildlife sensory ecology research

Discipline: Interdisciplinary
Type of Project: Technical Assistance/Research
Funding Agency: National Park Service
Other Partners/Cooperators: Colorado State University
Student Involvement: Yes, student researchers
Effective Dates: 09/01/2015 – 12/31/2017
Funding Amount: $494,705

Investigators and Agency Representative:
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Project Abstract:
This project will pursue research to measure the responses of wildlife to noise and light pollution, and to develop and apply methods to extract environmental information from acoustical recordings. The effects of artificial light at night on wildlife will be pursued through support for a postdoctoral researcher. The environmental acoustic investigations will be pursued through support for the undergraduate “Listening Laboratory” that was created under a previous agreement. This Listening Laboratory offers opportunities for undergraduate honors students to participate in research and data analysis related to National Park soundscapes. The Listening Laboratory is led by a second postdoctoral researcher, who oversees student research projects and originates other field research. This project serves a public purpose by supporting the development and application of new technologies and new delivery (i.e., the listening laboratories) of NPS data to researchers and the public.

Outcomes with Completion Dates:
Final Report – December 31, 2017

Keywords:
Colorado State University, Listening Laboratory, soundscapes, wildlife sensory ecology, noise pollution, light pollution