Project Summary
Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Continuation of Geographic Information Systems, Remote Sensing, Global Positioning Systems, and Mobile Mapping Research and Development for the NPS GIS Program

Discipline: Natural
Type of Project: Technical Assistance
Funding Agency: National Park Service
Other Partners/Cooperators: Colorado State University
Effective Dates: 9/1/2008 - 9/30/2010
Funding Amount: $285,000 ($130,000 added in FY09)

Investigators and Agency Representative:

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Project Abstract:

The CSU cooperators will work with NPS to provide R&D and implementation support for integration of web mapping services required by partner GIS project components, such as Federal Lands to Parks, Wild and Scenic Rivers, and National Trails geospatial features and sites of interest with dynamically linked attribute databases, digital images, and documents into a common, web services-based system. Assistance with this project will include focused stakeholder and workflow requirements analyses, workflow documentation, and research, development, and implementation of related spatial and non-spatial metadata, data, and applications. CSU research associates will also compile, integrate, test, and provide training support for managing geospatial data by a wide variety of subject matter experts that often do not have any GIS knowledge or experience (esp. Federal Lands to Parks, Wild and Scenic Rivers, and National Trails programs). This effort will investigate research, develop, test, and document user and software requirements and applications for capturing and transferring thematic geospatial data from multiple (often disparate) sources to enterprise geodatabases running on centralized servers. Data and software development and testing will be a significant part of this work but will require substantial input and interaction with NPS personnel. Data that are captured via these systems will be ported to various GIS, image services, and other database applications.

Outcomes with Completion Dates: Research reports and recommendations, user and stakeholder requirements, project plans, application extension(s), computer program code, a variety of analog and digital mapping products, and detailed user and technical documentation, due by September 30, 2010.

Keywords: GIS, geographic information system, geospatial data, web mapping, National Trails, Wild and Scenic Rivers, Colorado State University