

Project Summary

Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Soil Resources Inventory Geospatial Enhancements

Discipline: Natural

Type of Project: Technical Assistance

Funding Agency: National Park Service

Other Partners/Cooperators: University of Colorado at Denver

Effective Dates: 6/1/2007- 12/30/2009

Funding Amount: \$38,112

Investigators and Agency Representative:

NPS Contact: Pete Biggam, Soils Program Coordinator, National Park Service, Geologic Resources Division, PO Box 25287, Denver, CO 80225; 303-987-6948, pete_biggam@nps.gov

Investigator: Dr. Rafael Moreno, Assistant Professor Department of Geography, Campus Box 172, P.O. Box 173364, Denver, CO 80217-3364, 303-352-3762, Rafael.Moreno@cudenver.edu

Project Abstract: The purpose of this project is to create the resource data management and information framework or infrastructure and the analytical tools that will enable the NPS to fulfill its mission of ensuring that park resources remain unimpaired for the enjoyment of both present and future generations. This research is intended to enable the NPS to analyze and manage soil resources in parks. Information and data will be collected, stored, archived, analyzed, and disseminated to foster temporal and spatial analysis at all levels of the NPS. Questions that could be answered will vary depending on the level of analysis. For example, a park may utilize the Soil Resources Inventory database (SRI) to determine priorities for restoring disturbed lands. Program Offices may use the data on soils to assist in the development of Desired Future Conditions (DFC), or within the concepts of Resource Stewardship plans. Soil interpretations may also be used to determine potential damage to soil resources from visitor impacts and planned park development activities. To answer these types of questions (and their many variants) the data and information must be current, accurate, accessible, and properly formatted for the analytical tools.

There will be two products of this project: (1) Development of identified geospatial enhancements for Rocky Mountain National Park (ROMO), Dinosaur National Monument (DINO), Agate Fossil Beds National Monument (AGFO), Crater Lake National Park (CRLA), Tallgrass Prairie National Preserve (TAPR), San Juan Islands National Historical Park (SAJH), Florissant Fossil Beds National Monument (FLFO), and Sand Creek Massacre National Historic Site (SAND), and (2) Metadata development and archives of enhanced Soil Resource Inventories for selected NPS units to the NPS Data Store.

Outcomes with Completion Dates: Due by end of 2009

Development of identified geospatial enhancements for Rocky Mountain National Park (ROMO), Dinosaur National Monument (DINO), Agate Fossil Beds National Monument (AGFO), Crater Lake National Park (CRLA), Tallgrass Prairie National Preserve (TAPR), San Juan Islands National Historical Park (SAJH), Florissant Fossil Beds National Monument (FLFO), and Sand Creek Massacre National Historic Site (SAND) Soil Resource Inventories as well as metadata development and archival of Soil Resource Inventories for selected NPS units.

Keywords: soil resource inventory, geospatial enhancements, ROMO, DINO, AGRO, CRLA, TAPR, SAJH, FLFO, SAND, Geologic Resources Division, University of Colorado at Denver

For Administrative Use Only:

Date Annual Report Received:

Date Final Report Received:

Publications, etc. on file: