

Project Progress/Completion Report, FY11 RM-CESU small projects Rocky Mountains Cooperative Ecosystem Studies Unit (RM-CESU)

PROGRESS REPORT:

Project Title: Create GIS database for archeological and historic resources at Bighorn Canyon NRA, University of Wyoming and Northwest College

Project Code: P11AT10283 UWY-148

Type of Project: Technical Assistance

Funding Agency: National Park Service

Partner Agency/University: University of WY/Northwest College

NPS Agreement Technical Representative (with complete contact information):

Cassity Bromley, Chief of Resources, 20 Highway 14A East, Lovell WY 82431, (307) 548-5416, cassity_bromley@nps.gov

Principal Investigator (with complete contact information):

Principal Investigator: Dr. Robert L. Kelly, Department of Anthropology, University of Wyoming, Laramie WY 82071, (307) 766-3135, rlkelly@uwyo.edu

Co-Investigator: John Campbell, Professor of Biology, Northwest College, 231 West 6th Street, Powell WY 82435, (307) 754-6140, john.campbell@northwestcollege.edu

Start Date of Project: 6/1/2011

End Date of Project: 3/31/13

Funding Amount: \$5000

Project Summary, including descriptions of products, work accomplished and/or major results. If the information is restricted (e.g. location of endangered species or cultural resources), indicate the title and location of the final report. Also add web sites where project-related information may be found.

The purpose of this agreement is to have a student assistant to create a number of GIS layers associated with different cultural resource information at Bighorn Canyon NRA, such as but not limited to archeological sites, isolates, survey area, historic resources, NAGPRA. UWY/Northwest college will provide an intern to create a coherent and comprehensive GIS data management plan and implement it through the creation of a GIS database consisting of cultural resource data (eg: archeological sites, isolates, survey area, historic resources, NAGPRA). This would need to happen in accordance with NPS GIS standards and direction from BICA cultural resource staff; BICA shall coordinate directly with the Intermountain Region GIS office, Darcee Killpack during early stages of the work.

Once these layers are created, the student will begin to populate those layers with information from various sources including, but not limited to: site records, project files, project reports, old GIS data. The intern would also be responsible for creating an index to the different layers for management purposes. The student intern will gain valuable professional experience in the NPS and the integration of geospatial technology into NPS missions and activities. The student will also gain essential experience in the geospatial technology profession to support career goals.

Products

(a) A coherent and comprehensive GIS data management plan will be created and implemented.

(b) Metadata (eg. Layers) that can be utilized in GIS databases (eg: ArcMap) will be created for existing cultural resource data at BICA, including an index

(c) The database will be populated with data from the cultural resource paper files and older existing metadata. This will occur for known documented archaeological sites (georeferenced site and artifact attribute data, stone circle program, NRHP status) and Class III inventoried project areas.

Priority will be for tasks a and b, with partial completion of c acceptable.

Project Status: NPS staff is working with John Campbell at Northwest College to locate an interested student for the Spring/Summer of 2012 to work on the project. NPS staff has contacted Darcee Killpack at the IMR regional office for advice on NPS standards.

Number of students participating in this project: undergraduates, graduate students, degrees conferred. One student will be working on the project.

Lessons Learned from this project. None as of yet.

When final products will be received. 3/31/2013