

COOPERATIVE ECOSYSTEM
STUDIES UNITS
NATIONAL NETWORK



PR Number: 0020047335

Award Number: P14AC00501

Project Number: UNM-98

CFDA #: 15.945

Park/NPS Unit: Grand Canyon-Parashant National Monument

Title of Project: Grand Canyon-Parashant National Monument Mobile App Additions

Administered through the: Colorado Plateau Cooperative Ecosystem Studies Unit Cooperative Agreement Number H1200-09-0005

CESU Partner:

PROJECT CONTACTS:

Principal Investigator: Dr. Diana E. Northup, Biology Department, 1 University of New Mexico, MSC03-2020, 167 Castetter, Albuquerque, NM 87131, [TEL:505-277-5232](tel:505-277-5232), [FAX 505-277-6318](tel:505-277-6318), dnorthup@unm.edu

Co-Investigator (if appropriate): Dr. Kenneth Ingham, 161 Rita Dr. NE, Albuquerque, NM 87106-1127, 505-480-7621, ingham@i-pi.com

Partner Administrative Contact: Brenda Rene Baker, Senior Contract & Grant Administrator, MSC01 1247, 1700 Lomas NE, Suite 2200, Albuquerque, NM 87131, [TEL 505-277-234](tel:505-277-234), [FAX 505-277-4185](tel:505-277-4185), brbaker@unm.edu

NPS Certified ATR: Jennifer Fox, Ecologist, Grand Canyon-Parashant National Monument, 345 E. Riverside Dr., St. George, UT 84790, [TEL 435-688-3376](tel:435-688-3376), Jennifer_Fox@nps.gov

NPS Technical Expert (if appropriate): Amber Franklin, Park Ranger, 345 E Riverside Dr. St. George, UT 84790, Phone (435) 688-3298, Fax (435) 688-3388, amber_franklin@nps.gov

FUNDING INFORMATION:

Amount Funded:7500.00 **NPS Account Numbers (amounts in parentheses):** PPWPARA00 PPMVSIE1Z.DP0000

Fund Source (e.g., ONPS, FLREA, CRPP, CESU, etc.): ONPS

NPS Funding

Is this funded using a reimbursable account number? If yes, IMR contracting needs a copy of the Interagency Agreement.

PROJECT DATES:

Start Date: May 23, 2014

NOTE: This Task Agreement will become effective on the date of final signature or the effective date of the Award document, whichever is later.

End Date: March 31, 2016

NPS Administrative Contacts

CESU Coordinator: Judy Bischoff, National Park Service/CPCESU, NAU P.O. Box 5765, Flagstaff, AZ 86011, 928-523-6638, Fax: 928-523-2014; judy_bischoff@nps.gov

Intermountain Region Administrative Contact: Kelly Adams, Grants and Agreements Specialist, National Park Service, 12795 West Alameda Pkwy, Lakewood, CO 80228. Phone: 303-969-2303 Fax: 303-969-2992 Email: Kelly_adams@nps.gov

FEDERAL FINANCIAL REPORTS AND DRAWDOWN SCHEDULE:

Federal Financial Reports (Check as required for project based on spending plan, period of performance, risk, cooperator history, etc.)

{ } Quarterly

{ } Semi-annually

{x} Annually

{X} Final

PROJECT SCHEDULE AND TECHNICAL REPORT DEADLINES:

List all technical reports and products in sequential order as required in the scope (more lines and milestones can be added as needed):

Project Start Date – May 23, 2014

Technical progress reports – {x} Quarterly {} Semi-annually {} Annually

(Check as needed from PI to monitor progress of specific project. Content should be addressed in the scope.)

August 31, 2014, November 30, 2014, February 28, 2015, May30, 2015, August 30, 2015, November 30, 2015, February 28, 2016

Investigator's Annual Report (IAR) – December 31, 2014, December 31, 2015

Database, Collections/Specimens, Archives, and Maps provided to the NPS Technical Expert –Photographs-60 days after each photo shoot

Preview of the mobile app – September 30, 2014, March 31, 2015, and September, 30, 2015

Draft of mobile app – November 30, 2015

Draft Final Report – December 31, 2015

Finished Mobile App – January 31, 2016

Final Report – March 1, 2016

Project End Date – March 31, 2016

Final SF425 FFR must be submitted within 90 days of project end date

PAYMENTS

2 CFR PART 215.22: Cash advance (drawdown) to recipient organization shall be limited to the minimum amounts needed and be timed to be in accordance with the actual immediate cash requirements of the recipient organization in carrying out the purpose of the approved program or project. The timing and amount of cash advances shall be as close as is administratively feasible to the actual disbursements by the recipient organization for direct program or project costs and the proportionate share of any allowable indirect costs.

2 CFR PART 215.25 (8)(e)(1): Incur pre-award costs 90 calendar days prior to award or more than 90 calendar days with the prior approval of the Federal awarding agency. All pre-award costs are incurred at the recipient's risk. (i.e. the Federal awarding agency is under no obligation to reimburse such costs if for any reason the recipient does not receive an award or if the award is less than anticipated and inadequate to cover such costs.)

CESU REQUIRED PRODUCTS (may be different from those products required by the ATR – See Statement of Work for Products required by the NPS unit):

The Principal Investigator will prepare a brief report abstract suitable for public distribution and two hard copies and an electronic version (in PDF file format) of the final report and mail all to Judy Bischoff, National Park

Service, CPCEUS, NAU P.O. Box 5765, Flagstaff, AZ 86011. Please be sure to include the project number (e.g.; NAU-###, UMT-###, UAZDS-###) and the P number on the cover page of the final report.

PROJECT ABSTRACT:

Grand Canyon-Parashant National Monument spans over 1 million acres of remote and rugged terrain and remains one of the most remote areas within the 48 contiguous states. To travel anywhere in the monument except its outermost edges requires slow driving over rough terrain, often in a high clearance, four-wheel drive or off-highway vehicle. No towns or communities lie within its boundaries, the nearest towns being at least two hours' drive away. The purpose of the mobile application is to provide a means of conveying information about ecological, geological and cultural aspects of the intersection of the Mojave Desert and Colorado Plateau. The app will provide sights and sounds of a transition zone that can be accessed and enjoyed by those who do not have the inclination, wherewithal, or the ability to come to this part of the world. The ADA accessibility component will allow all of the public to appreciate the resource to the extent of their own abilities. Although the original 20 highlights (Agreement H1200-09-0005) will be effective in interpreting a portion of the Mojave Desert-Colorado Plateau transition zone, it has been determined by PARA Interpretation staff that there are too few highlights to effectively describe the history, geology and ecology of the zone. Additional points of interest and app capabilities that will be added to the already existing app will enable the finished product to provide a more complete interpretation of the area and will make the mobile app ADA accessible.

SCOPE OF WORK:

Introduction

Under CPCEUS Agreement H 1200-09-0005 Grand Canyon-Parashant National Monument (PARA) initiated a GPS driven mobile application ("app") that allows remote users to access content from 20 highlights of the Monument as well as offering field trip options for physical visitors.

It was determined that the original app content did not provide enough breadth to adequately describe the Mojave Desert Colorado Plateau transition zone history, geology and ecology. The information conveyed in the expanded app will include recollections of homesteading families with descendants that live outside of the monument, the formation of the Colorado Plateau and Basin and Range geologic provinces, and the differing flora and fauna of the Great Basin, Mojave Desert, Colorado Plateau and Sonoran Desert ecological provinces. Historical information can be used by historians and genealogists for locating decedents, creating timelines and family histories, and determining where families were living at a given time. The app will provide examples of geologic features and flora and fauna that may be used as supplemental examples in educator's lesson plans. These examples will provide a microcosm for in depth study and exploration of topics such as adaptations, edge effects, environmental limitations, climate change, community structure, competition, population dynamics, and landscape ecology. The increased use of the app through web access will enhance the perceived value of the resource to the public.

The app will provide sights and sounds of a transition zone that can be accessed and enjoyed by those who do not have the inclination, wherewithal, or the ability to come to this part of the world. The ADA accessibility component will allow all of the public to appreciate the resource to the extent of their own abilities.

Statement of Work

Extension of Mobile Application component from Agreement H1200-09-0005: Additional key components will be added to the framework app by Co-PI including captioning, audio-description and video capabilities making the app ADA compliant. Guidance for ADA compliancy provided on section508.gov will be followed.

New highlights of the monument will be determined with consultation between CO-PI and PARA staff. Co-PI will travel to PARA to acquire appropriate images through Agreement H12000-09-0005. PARA will provide transportation within the Monument to the new highlights to capture onsite data.

The CO-PI will photograph and process the photos for delivery to the monument. The images will be delivered as either TIFF or JPEG format with a native resolution of at least 600 dpi for reporting and archiving, and at a resolution of 72 dpi for posting on the web. The Co-PI will provide the images via a webpage maintained by Co-PI.

All images used for the app will be selected by PARA from those provided by Co-PI and PARA photo library. All audio, video, written content and graphics will be edited and provided by PARA to the Co-PI for populating the app. A color scheme will be developed for the app by PARA staff, Images will be selected for the app based on clarity, color, and content by PARA to best illustrate appropriate messaging.

A broader set of examples of the transition zone areas between PARA gateway cites and the monument, primarily the Colorado Plateau and Mojave Desert, will also be included in the content of the app. All content for these additional areas will be provided by PARA to the CO-PI for populating the mobile app.

The draft app provided by Co-PI will be tested online and in the field by PARA to determine robustness and accuracy prior to release to the public. Internet hosting of the app will be the responsibility of the monument. The app will support HTML5 media, including still images, audio and video. All updates to the app coding will be provided by the Co-PI to the monument free of charge for the lifetime of the app.

A users manual for the use and troubleshooting of the app will be created by the CO-PI with the assistance of PARA interpretation staff.

Co-PI will develop unpopulated framework apps for iOS and Android separately from the task agreement and will maintain ownership of these unpopulated framework apps. The final Parashant National Monument app will be released by the Co-PI with a perpetual, non-exclusive license to the monument for unlimited copies that can be made available for public access via internet sources. All PARA onsite app content that is accrued through this agreement will remain under the ownership of the US Government.

The Co-PI grants the United States of America a royalty-free, non-exclusive and irrevocable license to publish, reproduce and use, and dispose of in any manner and for any purpose without limitation, and to authorize or ratify publication, reproduction, or use by others, of all copyrightable images first produced or composed under this Agreement by the cooperator, its employees, or any individual or concern specifically employed or assigned to originate and prepare such material. The photographer will retain commercial copyright of the images, and the monument will credit the photographer whenever the monument uses the photos.

COOPERATIVE AGREEMENTS OR TASK AGREEMENTS INVOLVING COOPERATORS WORKING ON-SITE

Background

In cooperative agreements or task agreements with universities where the university utilizes interns, student employees, research associates (RAs) or cooperators on-site (hereafter called "cooperator personnel"), these cooperator personnel sometimes work on government sites in close proximity to federal employees. It is illegal (without specific statutory authority) for federal employees to directly supervise the cooperator personnel or any university employees or for the students or other university employees to supervise federal employees. When cooperator personnel are working on an NPS site, it is important that there is a clear distinction between students and federal employees.

Office Environment and Vehicles

- The office space of the cooperator personnel and NPS personnel should be clearly labeled (Name and NPS or University affiliation on office or cubicle space).
- Cooperator personnel should be listed separately from NPS personnel in telephone lists, other identification or organizational rosters, and publication credits.
- Cooperator personnel should not receive "all-employee" e-mail or other communications intended for NPS personnel (unless it relates directly to the work the cooperator is doing for the NPS). When the e-mail does relate to the work being done, a copy of the same e-mail message should be sent to the University or cooperator's supervisor.
- Cooperator personnel may use NPS e-mail systems when the communication relates directly to the work the cooperator is doing for the NPS. The e-mail addresses of the cooperator personnel must include a label associated with their NPS e-mail address that identifies the cooperator's status (i.e., "Linda Webb, Cooperator" would be the label associated with the e-mail address, linda_webb@contractor.nps.gov). Doing so clearly identifies this individual each time they send an e-mail message using the NPS system, and it identifies their status as a research associate, student intern or student employee in the e-mail directory.
- Unless stipulated in the agreement, cooperator personnel should not drive government vehicles.
- Unless stipulated in the agreement, cooperator personnel should not ride as a passenger in a government vehicle. When this is planned as part of the agreement, an appropriate amount of liability insurance should be negotiated.
- Prior written approval by the Park Superintendent or Center Manager must be obtained in order for a task to allow cooperator personnel to drive or ride in government vehicles.

Supervision and Scheduling

- Each task must specify the university's/cooperator's supervisor for the cooperator personnel.
- Unless stipulated in the agreement, NPS staff should not set hours for cooperator personnel, specify where the work should be done, or conduct performance appraisals. National Park Service staff may give performance feedback to the cooperator personnel supervisor.
- Cooperator personnel should report leave, scheduling, and other related issues to the university or cooperator's supervisor, not to NPS employees. The supervisor of the cooperator personnel should then communicate with the NPS. National Park Service employees cannot directly supervise cooperator

personnel on a day-to-day basis. Work should be given to the cooperator personnel (via the cooperator's supervisor) on a "task basis." Cooperators should work without NPS supervision to accomplish each task, although technical consultations and cooperation is permissible.

- The Cooperator will be responsible for any disciplinary action needed to correct student employee conduct or performance problems. The NPS agreements technical representative will inform the university/cooperator's supervisor of any conduct or performance problems.
- The Cooperator will remove student employees from their positions if they fail to improve performance or address conduct issues.
- The NPS will review and provide feedback to students or interns regarding work assignments.
- The NPS will inform the cooperator of conduct or performance problems with cooperator personnel so that the university can counsel employees and correct the performance problems.
- The NPS will recommend to the cooperator dismissal of cooperator personnel based on conduct or performance issues.
- The Cooperator will hire students, interns or RAs to work on NPS tasks identified in the agreement. Hiring will be conducted in consultation with the NPS Agreements Technical Representative (ATR).
- The Cooperator will: pay students, interns or RAs for hours they have worked in support of the agreement.

Representation and Communication

- Cooperator personnel cannot in any way represent themselves to the public as NPS employees.
- Cooperator personnel are required to wear visible identification at all times.

Other Issues

- Cooperator personnel should not list an NPS affiliation on publications, but rather should list the cooperative agreement under which the work was performed.
- Cooperator personnel should not be invited to official NPS "social" events.
- Cooperator personnel will follow the local policy of the facility when federal facilities are closed due to early release for holidays, snow days, etc.

PRODUCTS: (DELIVERABLES)

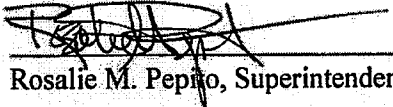
- A minimum of 75 unique images that will be of acceptable quality and type to PARA interpretive staff for populating the mobile app and general use.
- Photographs processed and available for PARA staff to view within 60 days of the original photo-shoot date.
- App must maintain Section 508 compatibility for all current and future add-ins and updates.
- A preview of the mobile app containing all information made available to CO-PI that shows GPS sites where content maybe added will be available for PARA to view by September 30, 2014, March 31, 2015, and September 30, 2015.
- A users manual will be produced by the CO-PI with instructions for the use and troubleshooting of the app.

BUDGET: *(You may create your budget in a spreadsheet and attach it as a separate document when you submit your project coversheet and Justification for Use of Financial Assistance.)*

Item	Rate	Unit	Number of Units	Total
Salaries				
Dr. Diana E. Northup, PI	100.00	Day	1	100.00
Dr. Kenneth Ingham CO-PI	675.00	Day	9	6075.00
Benefits				
PI Fringe	4000	.002 FTE	1	8.00
Travel				
Per diem	20.00	Day	10	200.00
Equipment				
				0
Supplies				
				0
Total Direct Costs				6383.00
Total Indirect Costs (17.5%)	1117.00			1117.00
GRAND TOTAL				7500.00

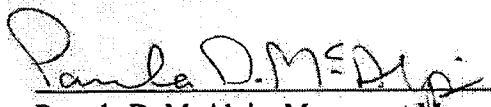
Travel from New Mexico to Parashant for Co-PI will be combine with Agreement H1200-09-0005. The per diem in this agreement is for the new additional services outlined in this agreement. No new equipment or supplies are need for this agreement.

I, Rosie Pepito and Pamela McAlpin, do hereby grant the cooperators in this agreement, PI Diana Northup and Co-PI Kenneth Ingham and staff, permission to ride in government vehicles in furtherance of this agreement.



Rosalie M. Pepito, Superintendent

5-12-2014
Date



Pamela D. McAlpin, Monument Manager

5/12/2014
Date