

# SCIENTIFIC RESEARCH AND COLLECTING PERMIT



Grants permission in accordance with the attached  
general and special conditions

United States Department of the Interior  
National Park Service  
Cape Hatteras

Study#: CAHA-00105  
Permit#: CAHA-2016-SCI-0008  
Start Date: Dec 01, 2016  
Expiration Date: Dec 31, 2019  
Coop Agreement#:  
Optional Park Code:

**Name of principal investigator:**

Name: Alexandra Mash

Phone: 919-707-8088

Email: alexandra.mash@naturalsciences.org

**Name of institution represented:**

North Carolina Museum of Natural Sciences

**Co-Investigators:**

Name: Roland Kays

Phone: 919-707-8088

Email: Roland.Kays@naturalsciences.org

Name: Arielle Parsons

Phone: 919-707-8088

Email: Arielle.Parsons@naturalsciences.org

**Study Title:**

North Carolina's Candid Critters

**Purpose of study:**

The purpose of this study is to (1) engage North Carolina citizens of all ages with the wildlife of their state through camera trapping; and (2) collect wildlife data useful for management and conservation questions, especially: estimate deer recruitment through fawn/doe ratios; quantify the distribution and occupancy rates for coyote; and map the distribution and occupancy of numerous wild species including: bear, elk, weasels, fox squirrels, red squirrels, armadillos, woodrats, feral pigs, chipmunks and striped skunks.

**Subject/Discipline:**

Animal Communities / Wildlife  
Inventory Natural Resources  
Mammals

**Locations authorized:**

See attached map.

**Transportation method to research site(s):**

Volunteers will use vehicles where permitted and/or will hike to camera sites.

**Collection of the following specimens or materials, quantities, and any limitations on collecting:**

**Name of repository for specimens or sample materials if applicable:**

**Specific conditions or restrictions (also see attached conditions):**

Please read and understand enclosed NPS guidelines and park guidelines. Failure to submit an Investigator Annual Report (IAR) will result in the termination of this permit. Please address any questions or concerns to the address below. At conclusion of the study a copy of the final report including study locations, research methods, collected data, and results should be sent to:

Britta Muiznieks, Research Permitting Coordinator  
National Park Service - Buxton District Office  
PO Box 190  
Buxton, NC 27920  
Britta\_Muiznieks@nps.gov  
252-475-9625

**PARK SPECIFIC CONDITIONS**

- (1) Any commercial or for-profit activity is prohibited without the express permission of the Superintendent of the Outer Banks Group.
- (2) This permit does not authorize researcher activity behind closed gates or in resource closures unless authorized or accompanied by park staff.
- (3) This permit requires that specific information on rare or sensitive resources acquired during the course of research cannot be released without prior approval from the Outer Banks Group (see General Condition 8 for a definition of sensitive resources). Your

work at the Seashore makes you an agent of the National Park Service, and requires you to keep confidential any protected information that you develop or otherwise acquire as part of your work for the Park Service. This prohibition applies to inadvertent disclosure of such information through websites, maps, scientific articles, presentations and speeches.

(4) All collecting/research must be done away from roads, trails, and developments unless otherwise specified in the permit. Any collecting or research that will result in permanent changes or degradation of habitat is prohibited. Any disturbance in excess of one square meter shall be rehabilitated to the satisfaction of the Superintendent prior to completion of this project. Access trails shall be brushed in; natural contours shall be reestablished; soil scarified and mulched.

(5) If designated parking areas are not convenient, park in a safe place with plenty of sight distance for other traffic that does not cause any damage to the resources.

(6) As mandated by Cape Hatteras National Seashore's Off-Road Vehicle (ORV) Management Plan, everyone driving on the beach at the Seashore is required to have a beach driving permit, including those operating under a NPS research permit. In the event that you need to drive an ORV on the beach for your research, the park will provide this permit to you free of charge. To obtain an ORV permit, stop by one of our permit offices when you arrive, where you will need to present a valid driver's license, vehicle registration, and your current research permit. After watching a 7-minute orientation video, staff will provide you with a temporary permit in the form of a hang-tag to put on your rear-view mirror for the duration of your visit. If you will be making multiple visits to the Seashore throughout the year, you will need to stop by an office each time to pick up a new temporary permit, though you will not be required to go through the orientation again.

(7) Investigators may use temporary markers which shall be indelibly stamped or marked with researcher's name, project name, and year-date. Unmarked plot markings are routinely removed by park personnel roving an area. Markers, when used, shall be located in areas not readily visible to visitors. All plot markings shall be removed at the conclusion of the study.

(8) No chemicals that result in the death of the specimen or which would permanently alter the habitat will be permitted, unless specimens are to be preserved for a collection or future dissection.

(9) No species collected from outside the park is permitted to be introduced or reintroduced into the park.

(10) Permittee shall indemnify, save and hold harmless, and defend the United States against all fines, claims, damages, losses, judgments, and expenses arising out of, or from, any act or omission of the research permittee, its employees or representatives, arising out of or in any way connected to activities authorized pursuant to this Agreement. This obligation shall survive the termination of this permit.

(11) Permittee shall cooperate with the NPS in the investigation and defense of any claims that may be filed with the NPS arising out of the activities of the cooperator, its agents and employees.

Recommended by park staff (name and title):

R. D. Smith (BIOTECH)

Reviewed by Collections Manager:

Yes  No

Approved by park official:

M. A. [Signature]

Date Approved:

July 5, 2016

Title:

Deputy Superintendent

I Agree To All Conditions And Restrictions Of this Permit As Specified  
(Not valid unless signed and dated by the principal investigator)

[Signature]  
(Principal investigator's signature)

19 July 2016  
(Date)

**THIS PERMIT AND ATTACHED CONDITIONS AND RESTRICTIONS MUST BE CARRIED AT ALL TIMES WHILE CONDUCTING RESEARCH ACTIVITIES IN THE DESIGNATED PARK(S)**