

**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**

Glacier Bay NP & PRES

Study#: GLBA-00206
Permit#: GLBA-2013-SCI-0002
Start Date: May 01, 2013
Expiration Date: Dec 31, 2017
Coop Agreement#: n/a
Optional Park Code: n/a

Name of principal investigator:

Name: Christopher Sergeant **Phone:** 9073641591 **Email:** christopher_sergeant@nps.gov

Name of institution represented:

National Park Service, Southeast Alaska Network

Co-Investigators:

Name: Bill Johnson	Phone: 907-364-2624	Email: bill_johnson@nps.gov
Name: Lewis Sharman	Phone: 907.697.2623	Email: lewis_sharman@nps.gov
Name: Michael Bower	Phone: 907-364-	Email: michael_bower@nps.gov
Name: Steve Hoekman	Phone: 206-547-1721	Email: fnsth1@aurora.uaf.edu

Project title:

Development and implementation of a monitoring protocol for Kittlitz's murrelets

Purpose of study:

Under a cooperative (CESU) agreement with the University of Alaska-Fairbanks, we will be conducting a field test of critical components of monitoring designs. The field work will feed back into the office-based protocol development process. The final monitoring protocol will be completed in 2013.

**** The purpose of this updated Research Permit is to 1) replace the original PI (Moynahan) with the new PI (Sergeant); 2) extend the valid period of the Permit to 5 years; 3) incorporate language allowing close shoreline approach to areas in Whale Waters, close approach to harbor seals in Johns Hopkins Inlet, and limited motorized access to Hugh Miller Inlet non-motorized waters - all as minimally necessary to achieve survey objectives and as closely defined in the project proposal; and 4) authorize a one-year (2013) supplemental study focused on improving the ability of observers to distinguish between Kittlitz's and marbled murrelets, as described in an accompanying proposal. ****

Subject/Discipline:

Birds / Ornithology

Locations authorized:

Glacier Bay proper

Transportation method to research site(s):

Boat-based surveys aboard the R/V Fog Lark

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

No collections are authorized.

Name of repository for specimens or sample materials if applicable:

n/a

Specific conditions or restrictions (also see attached conditions):

**** This Scientific Research and Collecting Permit provides authorization, in lieu of a Waiver to Park Regulations, for project vessels to navigate transects (as minimally necessary to achieve research/monitoring objectives and as described in the project proposal and final protocol) closer than one nautical mile from shore within seasonally/temporarily-designated Whale Waters [exemption from 36 CFR 13.1174(c)(1)] following *advance* consultation with park whale biologists (contact Chris_Gabriele; 907-697-2664; christine_gabriele@nps.gov). In such cases, the project leader will contact the VIS immediately prior to initiating a near-shore transect in whale waters, and will similarly contact the VIS upon completion of the transect (beyond one mile from shore). If it is more efficient to provide notification for a series of consecutive repeated shoreline close approaches, the VIS may allow such an arrangement on a daily basis if they deem it suitable (VIS will be advised of duration during the day and geographic area of shoreline by project personnel). Furthermore, this Permit authorizes the survey vessel to approach within 1/4 mile of harbor seals as necessary to achieve survey objectives during transects within Johns Hopkins Inlet [exemption from 36 CFR 13.1178(f)] following *advance* consultation with the park pinniped biologist (Jamie Womble; 907-364-1577; jamie_womble@nps.gov). Project personnel will observe and log all such close approaches, recording group size, apparent age class, whether in water or on ice, distance first sighted, and distance of flushing response (if any) by seals on ice to vessel approach. A brief report containing these observations will be submitted to the park (Research Coordinator) within 60 days of the end of fieldwork. Finally, this Permit authorizes project vessels, for purposes of occupying survey transects as directed by the project sampling protocol, to enter the seasonally motorless waters of Hugh Miller Inlet [exemption from 36 CFR 13.1180(a)(3)] for a period of up to four hours on a single day during July 1-15 of every year for which this Permit is valid. As before, the VIS will be notified immediately upon entering and again upon departing motorless waters. Annually, within 60 days of the end of fieldwork, the project leader will formally notify the park (Research Coordinator) of any motorized access to non-motorized waters for that year. No other exemptions from park regulations are authorized. ****

The project leader is directed to the park website (<http://www.nps.gov/glba/naturescience/obtaining-a-scientific-research-permit.htm>) for general information about conducting scientific research in Alaskan national park wilderness, as well as National Park Service (NPS) general and park-specific conditions for and restrictions to conducting research in the park's backcountry. The website also provides a Vessel Regulation Guide (map). Much (not all) of the below is contained there but is repeated here for emphasis.

For your safety and to protect park resources and values, prior to the start of field operations in Glacier Bay in each calendar year, all operators of project vessels (including non-motorized craft such as sea kayaks) will attend a Boater Orientation at the Visitor Information Station (VIS). Advance arrangements can be made by contacting the VIS directly (phone 907-697-2627 or 907-697-2608; email margaret_hazen@nps.gov). If overnight camping or extended periods ashore will occur, all project personnel will additionally attend a Camper Orientation.

In order for the visiting public and park staff to identify you and your activities, all project motorized vessels will prominently display a RESEARCH flag, obtainable from the VIS. The flag(s) must be returned upon the vessel's departure from Glacier Bay. If supported by a NPS vessel, that vessel will be clearly marked as such.

The project leader is required to file daily float plans with the VIS, and in consultation with the VIS will arrange periodic check-ins as necessary to keep the park apprised of project activities and locations. These projects are responsible for having a reliable means of communication with the VIS (marine VHF radio when in range of the VIS radio; otherwise a satellite telephone, park radio, or other effective means).

All motorized vessel use will be carefully planned and implemented for optimal efficiency and sensitivity in order to minimize impacts to park resources and values including fuel consumption, air and water pollution, above- and below-water noise pollution, and visual impact.

When onshore, and especially when camping, project personnel will adopt and practice Leave No Trace concepts, in particular the Seven Principles (<http://lnt.org/learn/7-principles>).

Whenever moving between locations in the park, project personnel will carefully clean clothing and equipment in order to prevent the introduction/spread of the seeds/propagules of non-native invasive organisms (principally and invertebrate animals) both terrestrial and aquatic.

If s/he has not already done so within the last three years (for ongoing multi-year projects), the project leader will provide the park with at least three (but no more than ten) representative high-resolution digital images, with captions, illustrating the project. These images will become public domain and may be used by the park to communicate the research in

summary form to a variety of audiences. They are due to the Research Coordinator (Lewis Sharman; phone 907-697-2623; email lewis_sharman@nps.gov) by December 31, 2013.

If s/he has not already done so within the last three years (for ongoing multi-year projects), the project leader will provide the park with an up-to-date digital educational "poster" of the project (printable/readable in 11" x 17" folio format) for inclusion in an interpretive binder for viewing by the general public. Please ensure the technicality of the poster is appropriate for that audience. Please send to the Research Coordinator, as above, by December 31.

While physically present in the park, the project leader is requested to give an informal "live" presentation of the project to park staff and/or the general public. Again, please appropriately match level of technicality to the target audience. Contact the Research Coordinator for assistance with scheduling, venue, audience, notification, etc.

In addition to the Investigator's Annual Report (IAR, due March 31 in each year following project initiation - the project leader will automatically receive an electronic notification/reminder), the project leader will annually submit to the park (Research Coordinator) a formal Project Report (same due date). For single-year project components (such as the 2013 Schaefer study), within one year of completion of field work the project leader will additionally submit a formal Final Report. The detailed Project and Final Reports will include analyzed data and findings, as well as synthesis with past/other data, a summary interpretation in historical and subject-area context, and any appropriate recommendations to management. The intent here is for the park to receive timely and substantive reporting of project activities and findings. Please communicate to the Research Coordinator any concerns regarding the sharing of report contents with audiences outside the park. Expected future out-year prospective theses/dissertations and peer-reviewed publications are not a substitute for this annual reporting requirement. Upon their completion/publication, copies of such academic products and formal publications deriving from research in the park are additionally to be delivered to the park in a timely fashion.

Research Permits for additional work may be jeopardized by failure of the project leader to provide all the above products to the park in a timely fashion.

Although very rarely acted upon, the NPS reserves the right to obtain raw data, field notes, photographs, sketch maps and other geospatial data, audio/video files, databases/spreadsheets, etc. generated by the project. The project leader agrees to provide these at any time if requested.

Finally, the NPS reserves the right to terminate this Research Permit at any time due to violation of any of the above conditions, violation of park regulations, or poor/non-performance. In addition, the NPS may decline future Permit extension or renewal, or to modify the above conditions, or commitments of park support of the project, if park priorities and/or management guidance/regulations change and evolve.

Recommended by park staff(name and title):

Reviewed by Collections Manager:

Yes _____ No _____

Approved by park official:

Date Approved:

Title:

Superintendent

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

(Principal investigator's signature)

(Date)

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