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-00212
Permit#: GLBA-2013-SCI-0009
Start Date: Jun 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: Chad Soiseth	**Phone:** 907-697-2659	**Email:** chad_soiseth@nps.gov
Name: Craig Murdoch	**Phone:** 907-697-2644	**Email:** craig_murdoch@nps.gov
Name: Lewis Sharman	**Phone:** 907-697-2623	**Email:** lewis_sharman@nps.gov
Name: William Johnson	**Phone:** 907-364-2624	**Email:** bill_johnson@nps.gov

Project title:

Contaminants Assessment and Monitoring of Intertidal Resources in Southeast Alaska National Parks

Purpose of study:

As part of a long-term monitoring effort to assess marine contaminants, the Southeast Alaska Network (SEAN) of the National Park Service has been collecting mussels (Mytilus trossulus) from the marine shorelines of Glacier Bay National Park and Preserve and Sitka National Historical Park every two years since 2007. These mussels are analyzed for common classes of environmental pollutants such as polycyclic aromatic hydrocarbons, metals (e.g., mercury), and persistent organic pollutants in accordance with the National Oceanographic and Atmospheric Administration's Mussel Watch Program. Recent data have demonstrated that park shorelines in Southeast Alaska are generally very clean, but continuing this monitoring effort will allow parks to potentially identify emerging sources of pollution, confirm the current status of marine contaminants in the event of future catastrophic events such as an oil spill, and continue to serve as a baseline for determining whether future marine intertidal conditions within Southeast Alaska national parks are approaching impairment.

Subject/Discipline:

Contaminants / Hazardous Materials

Locations authorized:

Marine intertidal zones at five locations:

E. of Russell Island, Lat: 58.91107 Long: -136.69620

W. Hazelton Camp, Lat: 58.99271 Long: -136.99306

Ripple Cove, Lat: 58.45086 Long: -136.08684

Bartlett Cove, Lat: 58.44984 Long: -135.89995

Lower Excursion Inlet, Lat: 58.38483 Long: -135.46693

Transportation method to research site(s):

Shorelines will be accessed by boat, most likely the R/V Capelin or R/V Fog Lark.

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

At the five sites identified, 80 mussels greater than 1.25 cm or 160 mussels less than 1.25 cm will be collected in August or September every two years, starting with 2013.

Name of repository for specimens or sample materials if applicable:

Repository type: Will be destroyed through analysis or discarded after analysis
Objects collected:
Organism: Bay mussel (Mytilus trossulus)

At five sites, 80 mussels greater than 1.25 cm or 160 less than 1.25 cm will be collected in August or September every two years.

Specific conditions or restrictions (also see attached conditions):

The project leader is directed to the park website (http://www.nps.gov/glba/naturescience/obtaining-a-scientific-research-pemit.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 parkâ 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.

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). Similarly, if overnight camping is envisioned, all project personnel will attend a Camper Orientation.

All project motorized vessels will prominently display a â RESEARCHâ flag, obtainable from the VIS. The flag(s) must be returned upon the vesselsâ departure from Glacier Bay. If supported by a NPS vessel, that vessel will be clearly marked as such.

For all boating operations, the project leader/vessel captain(s) will file and close out daily float plans with the VIS (when operating within Glacier Bay proper), and will arrange (in consultation with the VIS) periodic communication check-ins as necessary to keep the park apprised of project activities and locations.

All motorized vessel use will be carefully planned and implemented for optimal efficiency 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 practice Leave No Trace, in particular the â Seven Principlesâ (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 plants).

The project leader will provide the park with at least 3 (but no more than 10) representative high-resolution digital images, with captions, illustrating the project; these images will become public domain. They are due to the Research Coordinator (Lewis Sharman; phone 907-697-2623; email lewis_sharman@nps.gov) by December 31, 2013.

The project leader will provide the park with a digital educational â posterâ of the project (printable/readable in 11â x17â 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 â liveâ 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 Investigatorâ s Annual Report (IAR, due March 31 in each year following project initiation â you 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). Or, upon completion of the project, the project leader will submit a formal Final Report. The detailed Project Report (Final Report) will include analyzed data and findings, as well as synthesis with past/other data, a summary interpretation in historical context, and any appropriate recommendations to management.

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):

Lori Sherman, Research Coord. 4/13/13

Reviewed by Collections Manager:

Yes ✓ No ___ Michelle Jasperson 4/14/2013

Approved by park official:

Lin L. Ellington, Chief Resource Management 4/15/13

Date Approved:

Title:

Superintendent Susan Boudreau April 16, 2013

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)