

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-00003

Permit#: GLBA-2001-SCI-0003

Start Date: May-01-2001

Expiration Date: Dec-31-2010

Coop Agreement#: n/a

Optional Park Code: GLBA-Hooge

Name of principal investigator:

Name: Dr Philip Hooge **Phone:** 907-697-2637 **Email:** philip_hooge@usgs.gov

Name of institution represented:

U.S.Geological Survey - Alaska Biological Science Center

Additional investigator(s):

Name: Lisa Etherington **Phone:** 907-697-2625 **Email:** letherington@usgs.gov

Project title:

Glacier Bay Oceanographic Patterns

Purpose of study:

The oceanographic patterns within Glacier Bay drive a large portion of the spatial and temporal variability of the ecosystem. A program that monitors oceanographic patterns is essential for understanding the marine ecosystem and to differentiate between anthropogenic disturbance and natural variation. The objective of this project is to study the seasonal and yearly variation in upwelling, productivity, deep water renewal, and water density throughout the water column.

Locations authorized:

Glacier Bay Proper

Transportation method to research site(s):

USGS Research Vessel Alaskan Gyre, 50 ft.
USGS Research Vessel Eider, 26 ft.
NOAA Research Vessel Miller Freeman

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

No collection.

Name of repository for specimens or sample materials if applicable:

American Type Culture Collection

Specific conditions or restrictions (also see attached conditions):

1. Access into any seasonally closed non-motorized waters is not authorized under this research permit.
2. The captain of the R/V Miller Freeman will contact the Visitor Information Station and receive a vessel orientation prior to the start of any sampling trip(s) in Glacier Bay National Park.
3. The captain of the R/V Miller Freeman will abide by all park regulations including those to protect the endangered humpback whale. While sampling within the park boundaries, the vessel will not approach any humpback whale closer than 1/4 mile, maintain a mid-channel course wherever possible or >1 mile from the shoreline, and maintain a speed limit of <13 knots while traveling in designated whale protected waters. The Visitor Information Station can provide the location of designated whale protected waters within Glacier Bay Proper.

Recommended by park staff(name and title):

Approved by park official:

Title:

Reviewed by Collections Manager:

Yes _____ No _____

Date Approved:

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)