

Papahānaumokuākea Marine National Monument
RESEARCH Permit Application

NOTE: *This Permit Application (and associated Instructions) are to propose activities to be conducted in the Papahānaumokuākea Marine National Monument. The Co-Trustees are required to determine that issuing the requested permit is compatible with the findings of Presidential Proclamation 8031. Within this Application, provide all information that you believe will assist the Co-Trustees in determining how your proposed activities are compatible with the conservation and management of the natural, historic, and cultural resources of the Papahānaumokuākea Marine National Monument (Monument).*

ADDITIONAL IMPORTANT INFORMATION:

- Any or all of the information within this application may be posted to the Monument website informing the public on projects proposed to occur in the Monument.
- In addition to the permit application, the Applicant must either download the Monument Compliance Information Sheet from the Monument website OR request a hard copy from the Monument Permit Coordinator (contact information below). The Monument Compliance Information Sheet must be submitted to the Monument Permit Coordinator after initial application consultation.
- Issuance of a Monument permit is dependent upon the completion and review of the application and Compliance Information Sheet.

INCOMPLETE APPLICATIONS WILL NOT BE CONSIDERED

Send Permit Applications to:
NOAA/Inouye Regional Center
NOS/ONMS/PMNM/Attn: Permit Coordinator
1845 Wasp Blvd, Building 176
Honolulu, HI 96818
nwhipermit@noaa.gov
PHONE: (808) 725-5800 FAX: (808) 455-3093

SUBMITTAL VIA ELECTRONIC MAIL IS PREFERRED BUT NOT REQUIRED. FOR ADDITIONAL SUBMITTAL INSTRUCTIONS, SEE THE LAST PAGE.

Papahānaumokuākea Marine National Monument Permit Application Cover Sheet

This Permit Application Cover Sheet is intended to provide summary information and status to the public on permit applications for activities proposed to be conducted in the Papahānaumokuākea Marine National Monument. While a permit application has been received, it has not been fully reviewed nor approved by the Monument Management Board to date. The Monument permit process also ensures that all environmental reviews are conducted prior to the issuance of a Monument permit.

Summary Information

Applicant Name: Amy Baco-Taylor

Affiliation: Florida State University

Permit Category: Research

Proposed Activity Dates: Sept 10, 2016-Oct 26, 2016

Proposed Method of Entry (Vessel/Plane): RV Kilo Moana

Proposed Locations: Northwest Hancock Seamount, Southeast Hancock Seamount, Zapadnaya Seamount, Acadmician Berg, Pioneer Bank, Necker Island, French Frigate Shoals, Seamounts NW of Monument into Emperors.

Sites do not include any state waters.

Estimated number of individuals (including Applicant) to be covered under this permit:

21

Estimated number of days in the Monument: 47

Description of proposed activities: (complete these sentences):

a.) The proposed activity would...

The goal of this project is to address recovery potential and time scales of recovery for deep-sea coral and sponge beds that have been affected by trawling. Deep waters in the Monument on many of the islands and seamounts were affected by trawling prior to the establishment of the EEZ. We are using a three "treatment" design with sites in the Monument acting as the "never trawled" or pristine treatment to compare to sites outside the monument which were previously trawled or are still trawled. The requested permit is for Year 3 of this project which will include video surveys and sampling with the ROV Jason.

b.) To accomplish this activity we would

In years 1 and 2 of this project we used the AUV sentry to conduct down-looking camera surveys. The purpose of these surveys was to quantitatively assess

megafaunal community abundance at each location and to pinpoint large beds of precious corals for sampling in year 3. For year 3 our goals are: 1. Utilize ROV JASON to complete further visual surveys using JASON's forward-looking camera. 2. Collect samples of corals and sponges to determine identifications of the species observed in AUV and ROV surveys. 3. Collect samples of precious corals for population genetic studies. and 4. Collect samples of precious corals for aging studies. We will also collect CTD data and water samples (radiocarbon, nutrient, isotopic, trace element, and total alkalinity) at each location as in Years 1 and 2 and recover a deep-sea coral lander deployed in 2015.

c.) This activity would help the Monument by ...

This project will both substantially increase our knowledge of the deep-water communities within the monument as well as provide a better understanding of trawling impacts and recovery potential for deep-sea coral and sponge communities globally.

Other information or background:

This work is a continuation of the project permitted under PMNM-2014-028