

Papahānaumokuākea Marine National Monument
CONSERVATION AND MANAGEMENT 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:

Papahānaumokuākea Marine National Monument Permit Coordinator

6600 Kalaniana'ole Hwy. # 300

Honolulu, HI 96825

nwhipermit@noaa.gov

PHONE: (808) 397-2660 FAX: (808) 397-2662

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: Ross E. Barnes

Affiliation: University of Hawaii Marine Center

Permit Category: Conservation and Management

Proposed Activity Dates: spring to early summer 2011 (cruise dates not yet set by NSF)

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

Proposed Locations: Necker Ridge intersection with Hawaiian Ridge within a polygon with coordinates of 23.582°N/164.966°W to 23.425°N/164.680°W to 23.134°N/164.882°W to 23.412°N/165.204°W to 23.582°N/164.966°W.

Estimated number of individuals (including Applicant) to be covered under this permit: 22

Estimated number of days in the Monument: 4

Description of proposed activities: (complete these sentences):

a.) The proposed activity would...
include collecting multibeam echosounder bathymetry, CHIRP subbottom profiler and gravity data

b.) To accomplish this activity we would
be continuously underway at ~12 knts with no stations

c.) This activity would help the Monument by ...
provide the first detailed bathymetry of the intersection of Necker Ridge with the Hawaiian Ridge

Other information or background: This mapping is funded by the U.S. State Dept. with funding directed through NOAA to the Univ. of New Hampshire for U.S. Law of the Sea concerns

Section A - Applicant Information

1. Applicant

Name (last, first, middle initial): Barnes, Ross E.

Title: Port Operations Manager, University of Hawaii Marine Center

1a. Intended field Principal Investigator (See instructions for more information):

Captain Rick Meyer

2. Mailing address (street/P.O. box, city, state, country, zip): University of Hawaii Marine Center, [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

For students, major professor's name, telephone and email address:

3. Affiliation (institution/agency/organization directly related to the proposed project):

University of Hawaii Marine Center

4. Additional persons to be covered by permit. List all personnel roles and names (if known at time of application) here (e.g. John Doe, Research Diver; Jane Doe, Field Technician):

This permit is to cover the 17 required crew members of the R/V Kilo Moana in addition to 3 members of the Stewards Department and 2 ship board tech's for a total of 22 persons. Due to the unknown date of the cruise I am unable to accurately provide the names of these billets, and will do so as soon as as practical

Section B: Project Information

5a. Project location(s):

<input type="checkbox"/> Nihoa Island	<input type="checkbox"/> Land-based	<u>Ocean Based</u>	
<input checked="" type="checkbox"/> Necker Island (Mokumanamana)	<input type="checkbox"/> Land-based	<input type="checkbox"/> Shallow water	<input type="checkbox"/> Deep water
<input type="checkbox"/> French Frigate Shoals	<input type="checkbox"/> Land-based	<input type="checkbox"/> Shallow water	<input type="checkbox"/> Deep water
<input type="checkbox"/> Gardner Pinnacles	<input type="checkbox"/> Land-based	<input type="checkbox"/> Shallow water	<input type="checkbox"/> Deep water
<input type="checkbox"/> Maro Reef			
<input type="checkbox"/> Laysan Island	<input type="checkbox"/> Land-based	<input type="checkbox"/> Shallow water	<input type="checkbox"/> Deep water
<input type="checkbox"/> Lisianski Island, Neva Shoal	<input type="checkbox"/> Land-based	<input type="checkbox"/> Shallow water	<input type="checkbox"/> Deep water
<input type="checkbox"/> Pearl and Hermes Atoll	<input type="checkbox"/> Land-based	<input type="checkbox"/> Shallow water	<input type="checkbox"/> Deep water
<input type="checkbox"/> Midway Atoll	<input type="checkbox"/> Land-based	<input type="checkbox"/> Shallow water	<input type="checkbox"/> Deep water
<input type="checkbox"/> Kure Atoll	<input type="checkbox"/> Land-based	<input type="checkbox"/> Shallow water	<input type="checkbox"/> Deep water
<input type="checkbox"/> Other			

NOTE: There is a fee schedule for people visiting Midway Atoll National Wildlife Refuge via vessel and aircraft.

Location Description:

5b. Check all applicable regulated activities proposed to be conducted in the Monument:

- Removing, moving, taking, harvesting, possessing, injuring, disturbing, or damaging any living or nonliving Monument resource
- Drilling into, dredging, or otherwise altering the submerged lands other than by anchoring a vessel; or constructing, placing, or abandoning any structure, material, or other matter on the submerged lands
- Anchoring a vessel
- Deserting a vessel aground, at anchor, or adrift
- Discharging or depositing any material or matter into the Monument
- Touching coral, living or dead
- Possessing fishing gear except when stowed and not available for immediate use during passage without interruption through the Monument
- Attracting any living Monument resource
- Sustenance fishing (Federal waters only, outside of Special Preservation Areas, Ecological Reserves and Special Management Areas)
- Subsistence fishing (State waters only)
- Swimming, snorkeling, or closed or open circuit SCUBA diving within any Special Preservation Area or Midway Atoll Special Management Area

6 Purpose/Need/Scope *State purpose of proposed activities:*

Support of Funded Research Cruise

7. Answer the Findings below by providing 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 Monument:

The Findings are as follows:

a. How can the activity be conducted with adequate safeguards for the cultural, natural and historic resources and ecological integrity of the Monument?

All activity will be conducted with adequate safeguards for the resources and ecological integrity of the Monument.

As part of the National Science Foundation, University National Oceanographic Laboratory System (UNOLS) fleet of Oceanographic Research Vessels, The University of Hawaii's Research Vessel Kilo Moana and crew understands the importance of the cultural and historic significance of the Monument to the native Hawaiians. The ship and crew will show respect to this special area and will do everything possible to protect the Monument.

During the transit to and from the operations area and during Mapping Operations there will be no fishing allowed from the R/V Kilo Moana.

The Kilo Moana has a Type II Marine Sanitation Device capable of treating black water and a holding tank capable of holding sewage and grey-water. The Kilo Moana has a waste management plan which meets or exceeds the International Convention for the Prevention of Pollution from ships (MARPOL 73/78) and U.S. Coast Guard regulations and Monument regulations. It is the policy and practice of the R/V Kilo Moana, as a government owned and funded vessel, to exceed these minimum requirements and have taken proactive measures to reduce pollution from our vessel.

The University of Hawaii Marine Center has issued a Purchase order to NavTech Electronics for the purchase and installation of an OLE approved Vessel Monitoring System, and is slated to be installed and activated in January 2011

The Kilo Moana has a current Rodent Inspection Report that expires on 04-07-2011 and will ensure this document is maintained and kept up to date

The University of Hawaii Marine Center will work with PMNM representatives to ensure hull inspection and cleaning if required is conducted prior to departure into the Monument.

The University of Hawaii Marine Center and R/V Kilo Moana will work with PMNM representatives to ensure scheduling of a member of the Monument staff to brief the crew on the historical and cultural significance of the Monument.

b. How will the activity be conducted in a manner compatible with the management direction of this proclamation, considering the extent to which the conduct of the activity may diminish or enhance Monument cultural, natural and historic resources, qualities, and ecological integrity, any indirect, secondary, or cumulative effects of the activity, and the duration of such effects? All support activities will be conducted in accordance with regulations and in a manner to reduce any impact to the environment and with respect to cultural resources.

c. Is there a practicable alternative to conducting the activity within the Monument? If not, explain why your activities must be conducted in the Monument.

The purpose of our activity is to support research in the Monument. This can only be done by actually being in the Monument area and using the Shipboard installed systems to conduct this research

d. How does the end value of the activity outweigh its adverse impacts on Monument cultural, natural and historic resources, qualities, and ecological integrity?

The end value of our activity will far outweigh any impact, if any on the Monument cultural, natural and historic resources. All research will be conducted in water depths of 1,000 meters or greater far from shore.

e. Explain how the duration of the activity is no longer than necessary to achieve its stated purpose.

The planned activity has been carefully plotted to ensure the time required to complete the bottom mapping is adequate.

f. Provide information demonstrating that you are qualified to conduct and complete the activity and mitigate any potential impacts resulting from its conduct.

I am a USCG licensed 1600 Master with Oceans endorsement and have over 31 years experience in oceanographic research conducted throughout the world's oceans and seas. I command a seasoned crew who routinely train and drill in emergency response and safety of life.

g. Provide information demonstrating that you have adequate financial resources available to conduct and complete the activity and mitigate any potential impacts resulting from its conduct.

The R/V Kilo Moana is owned by the US Navy, Office of Naval Research and funded by the UNOLS branch of the National Science Foundation and operated by the University of Hawaii which has adequate financial resources available to conduct and complete the activity and mitigate any potential impacts resulting from its conduct.

h. Explain how your methods and procedures are appropriate to achieve the proposed activity's goals in relation to their impacts to Monument cultural, natural and historic resources, qualities, and ecological integrity.

The R/V Kilo Moana has a sophisticated hull mounted bottom mapping system that has been utilized throughout the Pacific basin with a crew that has been adequately trained in its operation and limitations. The vessel and crew have a stellar record of safety to the environment. All activities will be conducted to support work permitted with respect to environmental stewardship and the cultural heritage of the Monument. Applicable Monument, federal and state regulations will be followed and adhered to.

i. Has your vessel been outfitted with a mobile transceiver unit approved by OLE and complies with the requirements of Presidential Proclamation 8031?

The University of Hawaii Marine Center has issued a Purchase Order to NavTech Electronics for the purchase and installation of an OLE approved Vessel Monitoring System, and is slated to be installed and activated in January 2011

j. Demonstrate that there are no other factors that would make the issuance of a permit for the activity inappropriate.

The Vessel and Crew have a stellar record of safety to the environment. All activities will be conducted to support work permitted with respect to environmental stewardship and the cultural heritage of the Monument.

8. Procedures/Methods:

The R/V Kilo Moana will depart from Honolulu Hawaii and transit to the work site off Necker Island, we will be in the monument for a total of 4 days, 1 day transit to the work area, 2 days mapping on site and 1 day transiting back towards Honolulu. While on site the vessel will run survey lines back and forth to ensure coverage of the intended area to be mapped. The distance between these survey line will vary as the swath coverage is in direct relationship with the depth of water, the deeper the water depth the wider the swath coverage. The planned survey will be in water depth of 1,000 meters or greater and at a speed of 12 kts.

NOTE: If land or marine archeological activities are involved, contact the Monument Permit Coordinator at the address on the general application form before proceeding, as a customized application will be needed. For more information, contact the Monument office on the first page of this application.

9a. Collection of specimens - collecting activities (would apply to any activity): organisms or objects (List of species, if applicable, attach additional sheets if necessary):

Common name:

N/A

Scientific name:

N/A

& size of specimens:

N/A

Collection location:

N/A

Whole Organism Partial Organism

9b. What will be done with the specimens after the project has ended?

N/A

9c. Will the organisms be kept alive after collection? Yes No

N/A

• General site/location for collections:

N/A

• Is it an open or closed system? Open Closed

N/A

• Is there an outfall? Yes No

N/A

• Will these organisms be housed with other organisms? If so, what are the other organisms?

N/A

• Will organisms be released?

N/A

10. If applicable, how will the collected samples or specimens be transported out of the Monument?

N/A

11. Describe collaborative activities to share samples, reduce duplicative sampling, or duplicative research:

N/A

12. List all specialized gear and materials to be used in this activity:

Installed equipment on board R/V Kilo Moana, Kongsberg EM122 multibeam
echosounder
Knudsen Chirp 3460 subbottom profiler
gravity meter

13. List all Hazardous Materials you propose to take to and use within the Monument:

See Attached "HazMat June 2010"

14. Describe any fixed installations and instrumentation proposed to be set in the Monument:

N/A

15. Provide a time line for sample analysis, data analysis, write-up and publication of information:

N/A

16. List all Applicant's publications directly related to the proposed project:

N/A

With knowledge of the penalties for false or incomplete statements, as provided by 18 U.S.C. 1001, and for perjury, as provided by 18 U.S.C. 1621, I hereby certify to the best of my abilities under penalty of perjury of that the information I have provided on this application form is true and correct. I agree that the Co-Trustees may post this application in its entirety on the Internet. I understand that the Co-Trustees will consider deleting all information that I have identified as “confidential” prior to posting the application.

Signature

Date

**SEND ONE SIGNED APPLICATION VIA MAIL TO THE MONUMENT OFFICE
BELOW:**

Papahānaumokuākea Marine National Monument Permit Coordinator
6600 Kalaniana'ole Hwy. # 300
Honolulu, HI 96825
FAX: (808) 397-2662

DID YOU INCLUDE THESE?

- Applicant CV/Resume/Biography
- Intended field Principal Investigator CV/Resume/Biography
- Electronic and Hard Copy of Application with Signature
- Statement of information you wish to be kept confidential
- Material Safety Data Sheets for Hazardous Materials