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: Lieutenant Commander Michael F. Ellis, NOAA

Affiliation: U.S. Department of Commerce
National Oceanic and Atmospheric Administration (NOAA)
Office of Marine and Aviation Operations
NOAA Ship *Hi`ialakai*

Permit Category: Conservation and Management
Proposed Activity Dates: January 1, 2012 - December 31, 2012
Proposed Method of Entry (Vessel/Plane): NOAA Ship *Hi`ialakai*
Proposed Locations: All areas

Estimated number of individuals (including Applicant) to be covered under this permit: 27
Estimated number of days in the Monument: 100

Description of proposed activities: (complete these sentences):

a.) The proposed activity would…
allow NOAA Ship *Hi`ialakai* to safely support scientific activities approved through the permit process. *Hi`ialakai* provides the base "mother ship" for small boat, diving, mapping, cultural, and other activities approved by the Monument Co-Trustees and the NOAA fleet allocation process. Without ship support, these activities would not be possible.

b.) To accomplish this activity we would ….
operate the ship in accordance with applicable Monument, Federal, and State regulations. The ship will support approved activities while respecting the cultural signifigance of the area and making as minimal an impact on the environment as possible.

c.) This activity would help the Monument by … supporting permited science and cultural activities with respect to environmental stewardship. The activities support the understanding and protection of Monument resources and education and outreach to the public.

Other information or background:

Section A - Applicant Information

1. Applicant
Name (last, first, middle initial): Ellis, Michael F. LCDR, NOAA
Title: Commanding Officer - NOAA Ship *Hi`ialakai*

1a. Intended field Principal Investigator (See instructions for more information):
LCDR Michael F. Ellis, NOAA

2. Mailing address (street/P.O. box, city, state, country, zip):
NOAA Ship *Hi`ialakai*
NOAA Ship Operations Facility
[redacted]

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

3. Affiliation (institution/agency/organization directly related to the proposed project):
U.S. Department of Commerce
National Oceanic and Atmospheric Administration
Office of Marine and Aviation Operations

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):

Officers and crew of NOAA Ship *Hi`ialakai* (positions below; names will be provided in Attachment 1 and updated throughout the permit period):

Executive Officer	Chief Boatswain
Operations Officer	Boatswain Group Leader
Navigation Officer	Seaman Surveyor
Junior Officer	Seaman Surveyor
Junior Officer	Able Seaman
Medical Officer	Able Seaman
Chief Engineer	Able Seaman
First Engineer	General Vessel Assistant
Third Engineer	Chief Steward
Junior Engineer	Chief Cook
Engine Utility	Second Cook
General Vessel Assistant	Electronics Technician
Survey Technician	Chamber Operator

Section B: Project Information

5a. Project location(s):

		Ocean Based	
☒ Nihoa Island	☐ Land-based	☒ Shallow water	☒ Deep water
☒ Necker Island (Mokumanamana)	☐ Land-based	☒ Shallow water	☒ Deep water
☒ French Frigate Shoals	☐ Land-based	☒ Shallow water	☒ Deep water
☒ Gardner Pinnacles	☐ Land-based	☒ Shallow water	☒ Deep water
☒ Maro Reef			
☒ Laysan Island	☐ Land-based	☒ Shallow water	☒ Deep water
☒ Lisianski Island, Neva Shoal	☐ Land-based	☒ Shallow water	☒ Deep water
☒ Pearl and Hermes Atoll	☐ Land-based	☒ Shallow water	☒ Deep water
☒ Midway Atoll	☐ Land-based	☒ Shallow water	☒ Deep water
☒ Kure Atoll	☐ Land-based	☒ Shallow water	☒ Deep water
☐ Other			

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

Location Description:
Ship will operate throughout the Monument in support of activities approved in various other Monument permits.

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:***

The purpose of the ship's activities are to provide an at sea research platform to support diver, small boat, multibeam mapping, and education activities in support of approved Monument permits. All operations are for activities permitted by the co-trustees of the Monument as being compatible with the conservation and management goals of the Monument, NOAA, USF&WS, and the State of Hawaii. Activities will be respectful of the natural, historical and cultural resources of the Monument.

Hi`ialakai is dedicated to studying and protecting the Papahanaumokuakea Marine National Monument, and to carrying out NOAA's mission of understanding the Earth's environment and managing marine resources to meet our nation's economic, social and environmental needs.

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?

The activity will be conducted with adequate safeguards for the resources and ecological integrity of the Monument. *Hi`ialakai* and all respective tender vessels will anchor on sandy substrate only. All sustenance fishing activities conducted aboard the *Hi`ialakai* will be within Midway Atoll Special Management Area. *Hi`ialakai* will follow guidelines set forth by USFWS Refuge.

Hi`ialakai* has a Type II Marine Sanitation Device capable of treating black water and a holding tank capable of holding sewage and grey-water. The *Hi`ialakai 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.

Hi`ialakai* also has a working Vessel Monitoring System installed capable of tracking all movement within the Monument, per the requirements of Proclamation 8031, signed by the President on June 15, 2006. NOAA Ship *Hi`ialakai will maintain up to date inspections: Rat free inspection, hull and tender inspection and cleaning, and ballast water inspection.

Each year *Hi`ialakai* invites a member of the Monument staff to brief the crew on the historical and cultural significance of the Monument. The ship understands Native Hawaiian cultural concerns that natural resources are considered cultural resources and any activity will be conducted with adequate safeguards as described above. Additionally, DVDs of the cultural lecture and briefing materials of the natural and cultural resources of the Monument are available to crew and scientific personnel at any time.

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?

Hi`ialakai is the support vessel to conduct activities authorized in other permits. All support activities will be conducted in accordance with regulations and in a manner to reduce any impact to the environment and with respect 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.

Hi`ialakai is one of the most capable dive research vessels in the world. The ship has a record of safe mission support, embracing environmental stewardship, and respecting cultural resources of the Monument. Because of this, the ship is the support vessel of choice to conduct activities authorized in other permits.

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

Hi`ialakai is the support vessel to conduct activities authorized in other permits as beneficial to the management goals of the Monument. The activities cannot occur without a support vessel.

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

Hi`ialakai will spend no additional time in the Monument than necessary to support operations authorized in individual permits for each cruise.

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

NOAA Commanding Officers are authorized to operate NOAA Vessels in accordance with annual sailing orders and the fleet allocation plan. NOAA ships are public vessels of the United States and conform with regulations for personnel qualifications and operations. The NOAA Ship *Hi`ialakai* spends approximately one hundred days a year in the Papahānaumokuākea Marine National Monument. The applicant is well qualified to conduct and complete the activity and mitigate any potential impacts resulting from the activity.

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.

Hi`ialakai is public vessel operating in the Monument to support activities approved by the Monument co-trustees. As such, the ship is part of the Monument management team and the U.S. Government.

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.

All activities will be conducted to support work permited in individual research permits for each cruise and with respect to environmental stewardship and the cultural heritage of the Monument. Applicable Monument, federal, and state regulations will be followed.

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

NOAA Ship *Hi`ialakai* is equipped with a Monument type-approved NOAA OLE Vessel Monitoring System (Specifications below).

Sailor TT 3606 XP - Thrane & Thrane
VMS Email: 436902144@c.xantic.net
Inmarsat ID#:436902144

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

Hi`ialakai has supported research and cultural activities within the Papahanaumokuakea Marine National Monument for several years. The ship and crew have a strong record of safe operations, mission accomplishment, and respect for the environmental and cultural resources of the Monument.

8. Procedures/Methods:
The ship will transit to the monument from Pearl Harbor, operate within the monument with various research and education operations, including small boat operations, diving, snorkeling, multibeam sonar mapping, oceanographic data collection, and supporting authorized USF&WS or State of Hawaii land based operations.

Crew activities will include small boat operations, SCUBA, snorkeling, and swimming as necessary for vessel maintenance, emergency operations, proficiency, morale, and support of vessel and research activities.

The ship will monitor other vessel traffic in the vicinity of operations and report movement to the NOAA Office of Law Enforcement.

The ship will typically perform small boat operations during the day and mapping or oceanography at night.

Monument personnel will typically be on board and in charge of the scientific party.

All methods and procedures will be performed with the safety and welfare of personnel, the protection of Monument natural and cultural resources, and the accomplishment of mission objectives as top priorities.

Ship's personnel will abide by the NOAA documents: "Marine Wildlife Viewing Guidelines", the "Disease and Introduced Species Prevention Protocol for Permitted Activities in the Marine Environment Papahanaumokuakea Marine National Monument" for in water activities, and the "Best Practices for Minimizing Impact of Artificial Light on Sea Turtles".

Hi`ialakai, like any other vessel or house hold, inevitably creates waste. The ship carries up to 48 scientists and crew for 30-day periods. The waste generated is relatively small compared to a cruise ship or other larger vessels, but the issue is taken very seriously. The ship has waste management systems and plans, follows or exceeds MARPOL and USCG regulations in all waters, and has a goal to exceed Monument regulations when operating inside the Monument.

Inside the Special Preservation Areas (SPAs) the ship holds everything that flows down a drain. Outside the SPA, the ship legally discharges food scraps, which are not sanitary to store on board, treated sewage (type II MSD effluent), and diluted water from sink and shower drains (grey water) in accordance with regulations and authorizations in the ship's permit. Water saving equipment has been installed to reduce the amount of drain water generated each day, substantially reducing the amount of waste water requiring treatment each day.

Discharges such as engine cooling water, deck runoff, and engine exhaust are inevitable to vessel use and are allowed in all areas under the Monument regulations.

The crew of *Hi`ialakai* is understanding and respectful of the natural and cultural importance of the Monument, and will strive to use best practices to minimize all discharges of any type within the Monument.

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 - individual science permits will cover.

Scientific name:

& size of specimens:

Collection location:

☐ Whole Organism ☐ Partial Organism

9b. What will be done with the specimens after the project has ended?
n/a - individual science permits will cover.

9c. Will the organisms be kept alive after collection? ☐ Yes ☐ No
n/a - individual science permits will cover.

• General site/location for collections:

• Is it an open or closed system? ☐ Open ☐ Closed

• Is there an outfall? ☐ Yes ☐ No

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

• Will organisms be released?

10. If applicable, how will the collected samples or specimens be transported out of the Monument?
n/a - individual science permits will cover.

11. Describe collaborative activities to share samples, reduce duplicative sampling, or duplicative research:
n/a - individual science permits will cover.

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

Small boats, multibeam sonar, and ROV. All other gear will be specified in individual science permits.

13. List all Hazardous Materials you propose to take to and use within the Monument:
Fuel / Lubricants: Gasoline, #2 Diesel Fuel, Lubrication Oil & Hydraulic Oil (Amounts will vary per cruise).

Hazardous Materials (MSDS Inventory):

Antifoulant Device	EP-921 (cleaning solvent)
Aqua-Sol 20/20 Marine	Estesol Gold (skin cleanser)
AS-175 Anti-Slip Coating	Eyesaline Concentrate (eyewash)
Various Types of Batteries	First Step
CCX-77	Gasket Remover Aerosol
Cleaner / Degreaser 5G	Gleem Metal Polish
Clorox Bleach	Paints (Various)
LPS CFC – Contact Cleaner	Qurox
Silicone Aerosol	Simple Green (Cleaner / Degreaser)
WD-40	Wedac

14. Describe any fixed installations and instrumentation proposed to be set in the Monument:
n/a - individual science permits will cover.

15. Provide a time line for sample analysis, data analysis, write-up and publication of information:
n/a - individual science permits will cover.

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.

2011.09.14 15:12:00 -10'00'

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 (Hard Copy to follow arrival in port 22 SEP 11)
☐ Statement of information you wish to be kept confidential
☒ Material Safety Data Sheets for Hazardous Materials