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:
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

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

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:
Commander Daniel M. Simon, NOAA (Commanding Officer)
Commander Elizabeth I. Kretovic, NOAA (Prospective Commanding Officer)
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, 2016 - December 31, 2016
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: 28
Estimated number of days in the Monument: 150

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 platform 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): Simon, Daniel M., Commander, NOAA

Title: Commanding Officer, NOAA Ship Hi`ialakai

1a. Intended field Principal Investigator (See instructions for more information):
CDR Daniel M. Simon, NOAA
CDR Elizabeth Kretovic, NOAA

2. Mailing address (street/P.O. box, city, state, country, zip):
NOAA Ship Hi`ialakai
Marine Operations Center, Pacific Islands (MOC-PI)
[redacted]

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

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 the Monumnet Compliance Information Sheet (CIS) and updated throughout the permit period prior to each project):

Commanding Officer
Executive Officer
Operations Officer
Navigation Officer
Junior Officer
Junior Officer

Chief Boatswain
Boatswain Group Leader
Seaman Surveyor
Seaman Surveyor
Able Seaman
Able Seaman
Able Seaman
Able Seaman
General Vessel Assistant

Chief Engineer
First Engineer
Third Engineer
Junior Engineer
Engine Utility
General Vessel Assistant

Chief Steward
Chief Cook
Second Cook

Medical Officer

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			

☐ Remaining ashore on any island or atoll (with the exception of Midway & Kure Atolls and Field Camp staff on other islands/atolls) between sunset and sunrise.

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 is 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, USFWS, 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.

*Considering the purpose of the proposed activities, do you intend to film / photograph federally protected species? Yes ☐ No ☒

For a list of terrestrial species protected under the Endangered Species Act visit:
http://www.fws.gov/endangered/
For a list of marine species protected under the Endangered Species Act visit:
http://www.nmfs.noaa.gov/pr/species/esa/
For information about species protected under the Marine Mammal Protection Act visit:
http://www.nmfs.noaa.gov/pr/laws/mmpa/

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. The NOAA Ship 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 crew also attend a Cultural Briefing hosted by the PMNM. 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 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.
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 project.

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 to one hundred and fifty 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 a 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 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 many 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 USFWS or State of Hawaii land-based operations. See scientific

activities permits. Multibeam data collection to be covered under individual scientific permits, the Hi'ialakai does not plan to conduct independent multibeam operations.

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

Conducting personnel safety, fitness, and health maintenance including but not limited to biking, swimming, and jogging at Midway Atoll Special Management Area, only in approved areas open to the public.

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 complement.

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 Papahānaumokuākea Marine National Monument Best Management Practices: “Marine Wildlife Viewing Guidelines”, the “Disease and Introduced Species Prevention Protocol for Permitted Activities in the Marine Environment Papahānaumokuākea Marine National Monument” for in water activities, and the “Best Practices for Minimizing Impact of Artificial Light on Sea Turtles”.

NOAA Ship Hi`ialakai, like any other vessel or house-hold, inevitably creates waste. The ship carries up to 50 scientists and crew for up to 35-day missions. 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 retains 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 run-off, 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.

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:
Not applicable - collection of specimens is covered under indiviudal scientific permits.

Scientific name:

& size of specimens:

Collection location:

☐ Whole Organism ☐ Partial Organism

9b. What will be done with the specimens after the project has ended?
Not applicable - covered under individual scientific permits.

9c. Will the organisms be kept alive after collection? ☐ Yes ☐ No
Not applicable - covered under individual scientific permits.

• 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?
Not applicable - covered under individual scientific permits.

11. Describe collaborative activities to share samples, reduce duplicative sampling, or duplicative research:
Not applicable - covered under individual scientific permits.

12. List all specialized gear and materials to be used in this activity:
Small boats, multibeam sonar, AUV , ROV, CTD rosette.

All other specialed gear and materials will be specified in individual scientific permits.
See scientific permitted activities for AUV and ROV operations.
Ship system specifications:
Multibeam: EM3002 & EM302 Kongsberg Simrad

See scientific permitted activities for CTD operations.CTD: program-specific rosette configurations to be determined in scientific permitted activities, but may include: SeaBird Electronics (SBE) SBE9Plus/V11-2 redundant SBE3 and SBE4 temp/cond, SBE32 12 bottle carousel.

13. List all Hazardous Materials you propose to take to and use within the Monument:
The Hi'ialakai carries small quantities of hazardous materials for essential ship operations. A complete hazarous material inventory is maintained aboard the ship and varies through-out the permit period. All crew are trained in MSDS and proper handling of hazardous materials.

Hazardous materials may be specific and filed under individual scientific permits.

The only Hazardous Materials held in significant quantity are fuel and lubricants such as gasoline, #2 Diesel Fuel, lubrication oil, and hydraulic oil (amounts vary by mission).

14. Describe any fixed installations and instrumentation proposed to be set in the Monument:
Not applicable - covered under individual scientific permits.

15. Provide a time line for sample analysis, data analysis, write-up and publication of information:
Not applicable - covered under individual scientific permits.

16. List all Applicant's publications directly related to the proposed project:
Not applicable - covered under individual scientific permits.

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:

NOAA/Inouye Regional Center
NOS/ONMS/PMNM/Attn: Permit Coordinator
1845 Wasp Blvd, Building 176
Honolulu, HI 96818
FAX: (808) 455-3093

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