Papahānaumokuākea Marine National Monument
CONSERVATION AND MANAGEMENT Permit Application

NOTE: ***This Permit Application (and associated Instructions) is 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/Daniel K. Inouye Regional Center
NOS/ONMS/Papahānaumokuākea Marine National Monument
Attention: 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: Barry Stieglitz, David Swatland, Maria Carnevale
Affiliation: U.S. Fish and Wildlife Service (FWS), National Oceanic and Atmospheric Administration (NOAA), State of Hawai‘i Department of Land and Natural Resources (DLNR)

Permit Category: Conservation and Management
Proposed Activity Dates: January 1, 2015 – December 31, 2015
Proposed Method of Entry (Vessel/Plane): Vessel and plane
Proposed Locations:
This permit application encompasses all conservation and management activities that the Co-Trustee representatives may conduct throughout the entire Monument.

Estimated number of individuals (including Applicant) to be covered under this permit:
Variable, depending on activity type and location.

Estimated number of days in the Monument:
There will be Monument staff in the Monument 365 days of the year. Numbers of personnel will fluctuate depending upon the season and the management activity undertaken at any one time.

Description of proposed activities: (complete these sentences):

a.) The proposed activity would…

This Monument Conservation and Management Permit Application proposes activities that would allow the Co-Trustee Representatives of the U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, and the State of Hawai‘i Department of Land and Natural Resources to conduct management activities for the conservation and management of Papahānaumokuākea Marine National Monument including the Hawaiian Islands National Wildlife Refuge, Midway Atoll National Wildlife Refuge, Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve, Northwestern Hawaiian Islands State Marine Refuge, and Kure Atoll State Seabird Sanctuary.

b.) To accomplish this activity we would ….

To accomplish the conservation and management of this ecosystem the Co-Trustees would carry out authorized activities associated with the following:

1. General operations to support field activities, which includes field camp, vessel, and flight operations

2. Resource survey and monitoring, which includes evaluating status and trends of target species and habitats

3. Natural resource protection, restoration, and remediation, which includes predator and invasive species control, as well as marine debris removal

4. Cultural and historic resource identification, evaluation, monitoring, access and protection

5. Education and outreach

c.) This activity would help the Monument by …

These activities would benefit the Monument by providing coordinated interagency management of Monument ecosystems, prevent duplicate efforts, and gain efficiencies.

Other information or background:

A conservation and management permit of this nature has been issued annually, pending a stringent review process, to the Monument Co-Trustee agencies since 2008 for the purpose of conducting cooperative and effective management of Monument resources. For example, the NOAA NMFS PIFSC Marine Turtle Research Program has worked successfully within the U.S. Fish and Wildlife Service, Hawaiian Islands National Wildlife Refuge for 40 consecutive seasons, resulting in great success for the species. Such collaborative work would benefit other Monument programs.

Section A - Applicant Information

1. Applicant

Stieglitz, Barry: Refuge Supervisor, Hawaiian & Pacific Islands National Wildlife Refuge Complex, U.S. Fish and Wildlife Service

Swatland, David: Acting Superintendent, Papahānaumokuākea Marine National Monument, National Oceanic and Atmospheric Administration

Carnevale, Maria: State Co-Manager, Papahānaumokuākea Marine National Monument, State of Hawai‘i Department of Land and Natural Resources

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

N/A

2. Mailing address (street/P.O. box, city, state, country, zip):

Stieglitz, Barry: Refuge Supervisor, Hawaiian & Pacific Islands National Wildlife Refuge Complex, U.S. Fish and Wildlife Service

Swatland, David: Acting Superintendent, Papahānaumokuākea Marine National Monument, National Oceanic and Atmospheric Administration

Carnevale, Maria: State Co-Manager, Papahānaumokuākea Marine National Monument, State of Hawai‘i Department of Land and Natural Resources

Phone:

Barry Stieglitz: [redacted]

David Swatland: [redacted]

Maria Carnevale: [redacted]

Fax:
Barry Stieglitz: [redacted]

David Swatland: [redacted]

Maria Carnevale: [redacted]

Email:
Barry Stieglitz: [redacted]

David Swatland: [redacted]

Maria Carnevale: [redacted]

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

3. Affiliation (institution/agency/organization directly related to the proposed project):
Stieglitz, Barry: Refuge Supervisor, Hawaiian & Pacific Islands National Wildlife Refuge Complex, U.S. Fish and Wildlife Service

Swatland, David: Acting Superintendent, Papahānaumokuākea Marine National Monument, National Oceanic and Atmospheric Administration

Carnevale, Maria: State Co-Manager, Papahānaumokuākea Marine National Monument, State of Hawai'i Department of Land and Natural Resources

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):
U.S. Fish and Wildlife Service (FWS)
Hawaiian and Pacific Islands National Wildlife Refuge Complex (NWRC) staff to include: Deputy Refuge Supervisor (Acting), Laura Beauregard; Supervisory Wildlife Biologist, Elizabeth Flint; Contaminants Specialist, LeeAnn Woodward; Pacific Reefs Superintendent, Susan White; Pacific Reef Deputy Superintendent, Amanda Pollock; Administrative Officer, Stuart Sakurai;; Student Training Experience Program (STEP) Stefan Kropidlowski; Inventory and Monitoring Biologist, Jared Underwood; Inventory and Monitoring Supervisor, Jean Kenyon; Refuge Zone Officer, Charlie Quitugua; Information and Education Specialist, Ken Foote; External Affairs Assistant, Sandra Hall; Invasive Species Coordinator, Jason Hanley; 3 Presidential Management Fellows, TBN and4 Volunteers, TBN.

FWS PMNM HQ Staff (10 total) to include:

- PMNM FWS Deputy Superintendent, TBN; FWS Permit Manager, TBN; Visitor Services Manager, Ann Bell; Wildlife Refuge Specialist, Ty J. Benally; Budget Officer, Pat Moriyasu; Administrative Officer, Maylanie Hipolito; Biological Science Technician,

Cynthia Rehkemper; 1 Logistics Manager, TBN; 1 Wildlife Biologist, TBN; 1 Refuge Manager, TBN; 4 Volunteers, TBN.

FWS Midway Atoll NWR to include:

- Refuge Staff (15 total) includes Refuge Manager, Sue Schulmeister; Deputy Refuge Manager, Bret Wolfe; Wildlife Biologist, Pete Leary; Biological Science Technician, Greg Schubert; Maintenance Mechanic, John Miller; 1 Park Ranger, TBN; 5 Biological Science Technicians or Volunteers, TBN
- Midway Atoll Contractors (70 total) includes45 DBSI contract support personnel for airport operations, logistics, facilities, medical, communications, and task orders; and 25 construction workers.
- Midway Federal Aviation Administration Staff(6 total) including Honolulu Air Traffic Organization, Dave Washino and Kevin Inouye; Airports District Office, Honolulu, Ron V. Simpson and Tyson Price; two FAA staff, TBN.

FWS Hawaiian Islands NWR Staff to include:

- French Frigate Shoals Staff (34 total) includes Wildlife Refuge Manager, Meg DuhrSchultz; Deputy Refuge Manager,TBN; 2 Biological Science Technicians, TBN; 10 Biological Science Volunteers, TBN; and 20 Maintenance Staff, Volunteers or Contractors, TBN.
- Laysan Island Staff (10 total) includes 4 Biological Science Technicians, Michelle Kuter, and 3 TBN; and 6 Biological Science Volunteers, TBN.
- Nihoa Staff includes (4 total) 4 Biological Science Technicians or Volunteers, TBN.
- Lisianski Staff includes 2 Biological Science Technicians or Volunteers, TBN.
- Pearl and Hermes Staff includes 2 Biological Science Technicians or Volunteers, TBN

FWS Ecological Services Staff to include: Field Supervisor, Loyal Mehrhoff; Deputy Field Supervisor, TBD; Assistant Field Supervisor, Kristi Young; Aquatics Ecosystem Conservation Program Manager, Dan Polhemus; Oahu/Kauai/Northwestern Hawaiian Islands Geographic Team Program Manager, Dan Clark; 4 Fish and Wildlife Biologists, Nadiera Sukhraj-McCarthy, Kevin Foster,Tony Montgomery, and Jiny Kim; 1 Vertebrate Recovery Coordinator, Sheldon Plentovich; and 1 Contaminants Specialist, Michael Fry.

National Oceanic and Atmospheric Administration (NOAA)

– National Ocean Service (NOS), Office of National Marine Sanctuaries (ONMS)
Superintendent, TBN; Acting Superintendent, David Swatland; Deputy Superintendent for Research and Field Operations, Randall Kosaki; Acting Deputy Superintendent for Policy and Programs, Hokuala Johnson; Research Coordinator, TBN; Education and Technology Coordinator, Vincent Andy Collins; Administrative Officer, Moani Pai; Strategic Initiatives Coordinator, TBN; Planning and Evaluation Coordinator, TBN; Evaluation Specialist, Alyssa Miller; Planning and Evaluation Program Specialist, TBN; Maritime Archaeologist, Kelly Gleason; Permits and Policy Coordinator, Tia Brown; Permits and Policy Specialist, Justin Rivera; Policy Specialist, Pua Borges-Smith; Constituent Outreach Specialist, TBN; Fiscal Administrator, ‘Aulani Hall; Human Resource Specialist, Aimee Rodd; Administrative/Fiscal Assistant, Charisse Hanawahine; Research Specialist, Daniel Wagner; GIS Specialist, Joey Lecky; Field Operations Coordinator, Jason Leonard; Information Technology Support Specialist, TBN; Senior Information Technology Specialist, Nick Tenney; Mokupāpapa Discovery Center Manager, Kālewa Correa; Mokupāpapa Discovery Center Program Coordinator, Nakoa Goo; Monument Volunteer Coordinator, Virginia Branco; Mokupāpapa Discovery Center Program Associate, Etta Karth; Kaua‘i Programs Outreach Coordinator, Yumi Yasutake; Navigating Change Coordinator, TBN; Resource Protection Specialist, Loren Scott Godwin; Program Specialist, Stephanie Fisher, Research Support Technician, Brian Hauk; Website & Graphic Designer, Kahi Fujii; Office Assistant, TBN; Executive Administrative Assistant, TBN; Strategic Initiatives Associate, Kanani Medeiros; Marine Operations Coordinator, Hadley Owen, ENS; Communications Manager, Toni Parras; Native Hawaiian Program Coordinator, Keoni Kuoha; Native Hawaiian Program Specialist, Blane Benevedes; Native Hawaiian Research Associate, TBN; Data Team Program Coordinator, David Graham; Database Administrator, TBN; Web Applications Developer, John Geyer; GIS Developer, TBN; Data Documentation and Outreach Specialist, TBN; and Senior Data Analyst, TBN.

– National Ocean Service (NOS), Center for Operational Oceanographic Products and Services (CO-OPS) field staff, TBN.

– National Marine Fisheries Service (NMFS), Pacific Islands Regional Office (PIRO)
Pacific Islands Regional Administrator, Michael Tosatto; Deputy Regional Administrator, Lisa Croft; Media and Outreach Coordinator, Wende Goo; Program Analyst, Kelvin Char; Management Analyst, Pua Kamaka; Operations, Management, and Information staff, TBN; Protected Resources staff, TBN; Habitat Division staff, TBN; Restoration Center staff, TBN; Marine National Monument Program: Management and Program Officer, TBN; Fishery Policy Analyst, Samantha Brooke; Fishery Policy Analyst, Richard Hall; Natural Resources Management Specialist, Heidi Hirsh; andNatural Resource Management Specialist Healoha Johnston; and Office of Law Enforcement staff, TBN.

– National Marine Fisheries Service (NMFS), Pacific Islands Fisheries Science Center (PIFSC)
Science Center Director, Samuel Pooley; Deputy Director, Michael Seki; Science Operations Lead, Noriko Shoji; NEPA and Permits Coordinator, Matthew Vandersande; Marine Debris Operations Manager,TBN; Coral Reef Ecosystem Marine Debris Removal Team, Mark Manuel, Russell Reardon, Kevin O’Brien, Joao Garriques, James Morioka, other MDRT staff TBN;

Benthic Habitat Mapping staff, TBN; Coral Reef Ecosystem Division staff, TBN; Ecosystems and Oceanography Division staff, TBN; Protected Species Division Chief, Frank Parrish; Biologist, Siri Hakala; Marine Turtle Research Program Leader, George H. Balazs, MTRP Biological Science Technician Shawn K.K. Murakawa, MTRP Biological Science Technician Shandell Brunson, MTRP Fishery Biologist and Team Lead Kyle Van Houtan; MTRP Biological Science technician T. Todd Jones; MTRP staff, TBN, MTRP 3 Temp Field Biologists, TBN.; Research Fish Biologist, John R. Henderson; Supervisor Program Management Analyst, Chad Yoshinaga; Hawaiian Monk Seal Research Program (HMSRP) Manager, Charles Littnan; HMSRP staff: Marine Biologist, Thea Johanos-Kam; Research Marine Biologist, Jason Baker; Field Research Supervisor, Jessica Lopez; Biological Technician, Tracy Wurth; Biological Research Associate, Sean Guerin; Biological Research Associate, Mark Sullivan; Biological Research Assistant, Eric Tong;; Foraging Research Associate, Maire Cahoon; Biological Science Technician, Robert Dollar; and TBN. Veterinarian, Robert Braun; Ten Temp Field Biologists, TBN. Cetacean Research Program (CRP) Lead, Erin Oleson; CRP staff : Acoustician Karlina Merkens; Biological Science Technician Andrea Bendlin; Ocean Engineer Lora Van Ufelen; Biological Science Technician Pollyanna Fisher Pool; Fisheries Biologist, Amanda Bradford; Marine Biologist, Lisa Munger; Marine Biologist, Marie Hill; Acoustician, Yvonne Barkley; Acoustician, Alexandra Bayless; NOAA Corps Officer, Erik Norris; Biological Science Technician, Aliza Millette; other CRP staff, TBN.

State of Hawai‘i, Department of Land and Natural Resources (DLNR)
DLNR Chairperson, TBDDLNR First Deputy, TBD; Water Deputy,TBD; Division of Aquatic Resources (DAR) Administrator, Frazer McGilvray; Division of Forestry and Wildlife (DOFAW) Administrator, Lisa Hadway; Members of the Board of Land and Natural Resources (BLNR), TBN; State Co-Manager, Maria Carnevale; Permit Coordinator,TBN; Wildlife Manager, Jason Misaki; Kure Atoll State Wildlife Sanctuary Manager, Cynthia Vanderlip; Kure Atoll State Wildlife Sanctuary Field Camp Leader, Naomi Worcester; Kure Atoll State Wildlife Sanctuary Field Camp Leader, Matthew Saunter; Offshore Island Biologist, Amarissa Marie; DOFAW Oahu Branch Manager, David Smith; 5 Kure Atoll State Seabird Sanctuary Volunteers and Technicians, TBN; 6 Aquatic Biologists, TBN; 6 Aquatic Alien Invasive Species (AIS) Team staff, TBN; 5 Biological Science Volunteers, TBN; Outreach and Education Specialist, Michelle G. Jones; 1 Outreach and Education Specialist, TBN.

Office of Hawaiian Affairs (OHA)
Board of Trustees and staff; Chief Executive Officer/Ka Pouhana, Dr. Kamana’opono M. Crabbe; Chief Operating Officer, TBN; Chief Advocate, TBN; Line of Business Directors, TBN; Executive Office staff, TBN; Chief Counsel, Ernest Kimoto; Corporation Counsel staff, TBN; Papahānaumokuākea Program Manager, Keola Lindsey; Papahānaumokuākea Program Specialist, Brad Kaaleleo Wong; Policy Program Manager, Sterling Wong; Policy Program staff, TBN; Washington D.C. Bureau Chief, ~~Kawika Riley,~~TBN; Washington D.C. Bureau staff, TBN; Compliance Program Manager, Kai Markell; Compliance Program staff, TBN; Land,Culture and History Program Manager, Kamoa Quitevis; Land Culture and History Program staff, TBN; Program managers and staff, TBN.

Senior Executive Board (SEB), Members of the Monument Management Board (MMB), and the Interagency Coordinating Committee (ICC) which are comprised of, but not limited to:

Environmental Protection Agency (EPA), Department of Defense (DOD), US Coast Guard (USCG), NOAA Office of Law Enforcement (OLE), USFWS OLE, DLNR Department of Conservation and Resource Enforcement (DOCARE), Office of Hawaiian Affairs (OHA) and State of Hawai‘i Department of Health (HDOH).

Other staff, volunteers, cultural liaisons, or contractors necessary for the permitted activities may enter the Monument for conservation and management activities. Resident families of Midway Atoll may enter the Monument. Invited news media representatives may enter the Monument to provide public information of conservation and management activities. All personnel will be indentified and information will be provided to the Monument Permit Coordinators prior to each entry into the Monument.

The applicants shall ensure that all personnel assigned to any conservation and management activity allowed under this permit are qualified to perform in the assigned role and are limited to the scope of their position and respective project, and shall comply with all other applicable laws, policies, protocols, permits, and regulations. In addition, the applicants will ensure that all management activities are communicated and coordinated on an ongoing and regular basis.

To safeguard all the resources and ecological integrity of the Monument, early and ongoing coordination of interagency activities will occur between the action agency and interested Monument partners as soon as details of activities are identified. The goal of early coordination is the commitment to identifying, incorporating, and customizing best management practices for specific activities. Additionally, pre-access permit and cultural briefings will be conducted for all new personnel entering the Monument and annually for all.

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:
This permit application encompasses all conservation and management activities that the permit applicants may conduct throughout the entire Monument.

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 applicants propose activities that constitute management activities for the conservation and management of Papahānaumokuākea Marine National Monument including the Hawaiian Islands National Wildlife Refuge, Midway Atoll National Wildlife Refuge, Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve, Northwestern Hawaiian Islands State Marine Refuge, and Kure Atoll State Seabird Sanctuary. While the permit applicants will collaborate and coordinate on activities that support the management of the Monument, any activities that require separate permits and authorizations shall be subject to additional approvals.

All activities conducted in the Monument shall be executed in accordance with Presidential Proclamation 8031 (Proclamation) and other Federal and State laws. The applicants are subject to policies, laws, and regulations associated with their management jurisdictions in addition to the Proclamation, as described in the Monument Management Plan.

To accomplish the conservation and management of the Monument, the permit applicants propose the following activities. Please note that each activity group specifies which priority management need, from the Monument Management Plan, will be addressed by conducting these activities.

1) **Operations**
   (*Priority Management Need 3.6: Achieving Effective Monument Operations*)

   To coordinate field activities and provide adequate infrastructure to ensure safe and efficient operations while avoiding impacts to the ecosystems of the Monument, the following activities may be conducted:

   a) Field station operations for resource conservation supported by on-site management, following all federal Occupational Safety and Health Administration (OSHA) regulations to protect employee safety and health.

   b) Facility maintenance activities for assets and facilities of the National Wildlife Refuge System (NWRS) and the State of Hawai‘i Kure Atoll State Seabird Sanctuary and its agents, necessary for meeting mission and purposes of refuges and the Monument. Examples of activities to be undertaken include, but are not limited to:
      i. Maintenance and repair/replacement (e.g., carpentry, electrical, plumbing, welding, general construction) of facilities and their components;
      ii. Building and other facilities deconstruction and reconstruction;
      iii. Airport maintenance, including improvements such as runway lighting replacement, taxiway maintenance (including repaving, and painting/marking);
      iv. Painting, including all preparation work such as scraping, washing, etc.; and
      v. Lead-based paint soil remediation, including removal of sand/soil from around many or all affected buildings and proper on-site containment of this material.

c) Field Camp Supply and Support:
   i. Delivery and removal of supplies, people, waste, and/or assets necessary for operations.

d) Operations and On-site Reviews:
   i. Operations and on-site reviews by management and congressional personnel;
   ii. Agency site visits and meetings for management planning and programmatic assessments; and
   iii. On-site management and safety reviews to gauge implementation and effectiveness of Monument management and programs.

e) Flight Operations:
   i. Operation, maintenance, and use of airfields and runways at Midway Atoll and Tern Island.

f) Vessel operations:
   i. Operation of vessels to provide access for conservation and management activities listed under this permit application; and
   ii. Anchoring of authorized vessels on non-coral substrate only.

g) Sustenance Fishing:
   i. Sustenance Fishing as defined by 50 CFR Part 404.11 section (h) (Note: Sustenance fishing will only occur within Midway Atoll Special Management Area for on-island FWS personnel and contractors.)

h) Personnel Safety, Fitness and Health Maintenance:
   i. Provide opportunities for on-site staff maintenance of personal health and fitness. This includes, but is not limited to biking and jogging at Tern Island, French Frigate Shoals and Midway Atoll; and
   ii. Provide for the health and safety of personnel, volunteers, contractors and visitors in the Monument through site safety reviews, adverse weather and emergency response procedures, establishment of safety protocols, and continuation of operation plans.

2) Resource Survey and Monitoring
(*Priority Management Need 3.1: Understanding and Interpreting the NWHI*)

To increase understanding of the distributions and abundances of organisms and their habitats and to improve ecosystem-based conservation management decisions in the Monument, the following activities may be conducted:

a) Survey and monitor target species and habitats to evaluate status and trends for management purposes. The following activities in direct support of management, monitoring, and characterization may be conducted:

i. Placement, installation, and maintenance of scientific equipment, devices, markers, oceanographic instrument arrays, remotely operated camera systems and remote viewing camera systems;
ii. Non-lethal marking and tagging for monitoring purposes;
iii. Visual, non-invasive marking and tagging for monitoring purposes;
iv. Collection of biological, chemical, climatological, or geological samples for: analysis in support of activities under approved management plans; restoration or recovery plans; and for base line inventory and monitoring of population trends; and habitat conservation and management;
v. Collection of biological voucher specimens that cannot be visually identified on the spot and/or may represent new geographic records or new species;
vi. Physical surveys and collections for landfills, storage tanks, contamination, or other potentially hazardous artifacts associated with current and former occupation and use of the Northwestern Hawaiian Islands (NWHI); and
vii. Visual and acoustic line-transect surveys to estimate the abundance and distribution of cetaceans in the NWHI.

b) Conduct habitat mapping for the production of accurate, high-resolution base maps.
   i. Data collection methods may include optic, acoustic, and metal detector technologies, as well as land and dive operations for ground truthing; and
   ii. Global Positioning System (GPS) mapping and Light Detection and Ranging (LIDAR) work.

3) Natural Resource Protection, Restoration, and Remediation
(*Priority Management Need 3.2: Conserving Wildlife and Habitats)*
***(Priority Management Need 3.3: Reducing Threats to Monument Resources*)**

To protect, conserve, and maintain the native ecosystems and biological diversity of the Monument, including migratory birds, marine turtles, and marine mammals, and to aid in the recovery of its threatened and endangered plants and animals and their habitat, the following activities may be conducted. These include activities to reduce threats and minimize damage to Monument resources from marine debris, contaminants, disease, alien species and emergency situations.

a) Conduct management actions to promote conservation of Monument resources. This includes activities necessary to understand and carry out protection, restoration, and remediation of species and habitats, such as carrying out existing species recovery and restoration plans. Examples include, but are not limited to Hawaiian Monk Seal Recovery Plan, the Laysan Island Ecosystem Restoration Plan (1998), the short-tailed albatross attraction project on Midway, the Laysan duck reintroduction project on Midway, the Nihoa Millerbird recovery project, *Verbesina sp.* control, cattle egret control, rat control, and other invasive species control projects. Restoration, when and where appropriate, will be undertaken using the best available information about pre-disturbance conditions to establish goals.

i. Turtle and bird disentanglement, health response (including treatment and necropsy), and translocation activities (not including large habitat modification), according to existing species recovery plans;
ii. Population augmentation or reestablishment activities such as capture, translocation, reintroduction, and outplanting;
iii. Invasive species controls by mechanical, chemical and manual methods as needed; and
iv. Investigation and monitoring of contamination in abiotic or biotic resources.

b) The following list of activities is intended to promote the recovery of the Critically Endangered Hawaiian monk seal at any or all breeding sites in the NWHI. Activities may include:
   i. Disentanglement of monk seals from marine debris;
   ii. Health response, including but not limited to cutting umbilical cords, lancing abscesses, administering antibiotics and necropsy;
   iii. Antihelminthic treatment ('deworming') by field staff, which may include monitoring to detect improvement in body condition of treated seals versus control seals. Antihelminthic medications may include various cestodicides and nematocides (e.g. praziquantel, fenebendazole, ivermectin, emodepside) applied via various routes (e.g. oral, injectable, topical);
   iv. Translocation, consisting of the following types:
      a. *Intra-atoll:* These translocations will include moving seals from areas of high risk where threats are imminent to safer areas, and moving pups to promote maternal fostering when necessary. Field staff will perform these movements; greater resources (e.g. veterinarian care) will not typically be necessary.
      b. *Inter-atoll:* These translocations will include transport of weaned female pups from atolls/islands of low survival to those of higher survival.
      c. *MHI – NWHI:* These translocations will include transport of main Hawaiian Island (MHI) seals that are considered a threat to themselves or humans because they have demonstrated a pattern of interacting with humans.
      d. *NWHI-captive care:* Seals may be taken into temporary captivity for treatment at appropriate, federally permitted rehabilitation facilities in the MHI for release back in the NWHI (i.e. permitted for captive care of injured, ill or prematurely weaned seals) (see below).
      e. Aggressive male seal translocations to areas with no pups or juveniles (see below);
   v. Reunion of nursing mothers and pups, when separated (includes instances of pup switches);
   vi. Mitigation of male aggression towards pups and juveniles (individual and multiple male-based aggression), including utilizing all federally permitted techniques (including, but not limited to, poles, rocks, slingshots and air horns). Mitigation tools will be applied as appropriate for the given context (i.e. the intensity, severity and frequency of aggression and the location, with regard to

other species in the area such as birds). Mitigation may include temporarily separating males from juveniles by placing either in temporary shore-pens (see below). Mitigation also may include removal of the male(s) from the area by:

a. Translocation to a location where no pups or juveniles will be harmed;
b. Placement in an appropriate, federally permitted facility that is agreeable and permitted to care for a male indefinitely; or
c. Lethal removal; this type of removal will only be applied when the above two options are not feasible, possible or exhausted. The preferred technique for euthanasia will be via physical means (e.g. firearm, captive bolt, etc.), in order for the carcass to remain in PMNM and for culturally appropriate and environmentally proper disposal to occur. When necessary, chemical euthanasia and removal of the carcass from PMNM will be allowed;

vii. Captive care of compromised seals to administer veterinary care and/or food supplementation. Captive care may include the capture and transport of seals to shore-pens (in the NWHI) or facilities in the MHI. We will aim to return NWHI seals under care in the MHI to the NWHI when a licensed veterinarian deems them rehabilitated and transport is feasible. The seals will then be released to the NWHI site deemed most appropriate for their subsequent survival (determined on the basis of such factors as the intensity and severity of imminent threats to the seals and recent survival trends at each atoll/island);
viii. Monitoring shark activity at French Frigate Shoals. Monitoring may include camping on islets with shark incidents on nursing pups and recording shark activity and shark-seal interactions via hand-held or mounted cameras (cameras will be mounted on a pole 15' or less with no guy wires to be used only during the field season and attended daily by field staff);
ix. Placement of temporary shore pens at selected NWHI breeding sites to facilitate monk seal recovery activities described here within (e.g. translocations, captive care, or male aggression mitigation); and
x. Establishment of field staff residence at all monk seal breeding sites to perform the monk seal activities described here within.

c) Remove marine debris, trash, and other materials (land and ocean-based) that pose threats to Monument resources, including but not limited to derelict fishing gear. Activities may include:

i. Disentanglement of threatened and endangered species by authorized personnel, debris tracking via drifter buoys and Unmanned Aerial Vehicles, and monitoring of sites that have been cleared of debris for recovery rates and effects of removal;
ii. Location and removal of debris and hazardous materials. This may be through interagency agreements, such as the Department of Defense (DOD) Innovative Readiness Training (IRT), Formerly Used Defense Sites (FUDS), or the Base Realignment and Closure (BRAC) Programs. Efforts may include activities such as seafloor and island mapping, reconnaissance and removal of materials, and derelict vessel salvage and removal; and
iii. Removal of sessile encrusting flora and fauna associated with marine debris.

d) Provide Emergency Response, Injury Assessment, Mitigation, Restoration, and Monitoring and Post-Response Management:
   i. Activities as necessary for emergency response, injury assessment, mitigation, restoration, monitoring, and post-response management in coordination with appropriate federal and/or state resource agencies and as appropriate, consistent with NOAA, FWS and State of Hawaii Damage Assessment and Restoration regulations, policies, and procedures (e.g., oil spills, ship groundings, tsunami-generated marine debris, damage assessments, monitoring alien species, monitoring coral bleaching events, collection of bleached coral or alien species); and
   ii. Activities in response to an unusual mortality event (including but not limited to threatened and endangered species, marine mammals, and migratory birds) mass stranding or other urgent species response.

4) Cultural and Historical Resource Identification and Protection (*Priority Management Need 3.1: Understanding and Interpreting the NWHI*)

To identify, document, interpret, preserve and protect the Monument's cultural and historic resources, the following activities may be conducted:

a) Collect post-contact artifacts as needed;

b) Monitor and survey historic sites;

c) Conservation of artifacts subject to successful National Historic Preservation Act (NHPA) Section 106 consultation and appropriate approvals from other Federal agencies (e.g., U.S. Navy) when applicable;

d) Non-commercial filming and photographic activities for the purposes of further documenting and capturing the history of the NWHI;

e) Locate historic artifacts using passive side scan sonar, metal-detector, or (land-based) ground penetrating radar;

f) Return seized Monument resources to their natural environment in coordination with appropriate federal and/or state resource agencies, including the Office of Hawaiian Affairs (OHA), as appropriate;

g) Collect culturally significant natural materials acquired during Monument operations and activities for cultural ceremonies and practices;

h) Transfer of culturally significant natural materials acquired during Monument operations and activities to Hawaiian cultural practitioners, in coordination with appropriate federal and/or state resource agencies, including OHA, and with the appropriate transfer documents and required permits;

i) Maintenance, preservation, and perpetuation of Native Hawaiian cultural sites and practices per the NHPA, Native American Graves Protection and Repatriation Act, Archeological Resources Protection Act, American Indian Religious Freedom Act and applicable sections of the Hawai‘i State Constitution, Hawaii Revised Statutes and Hawaii Administrative Rules; and

j) Maintenance and preservation of historic sites on Midway Atoll.

5) Outreach and Education
(*Priority Management Need 3.5: Coordinating Conservation and Management Activities)*

To cultivate an informed, involved constituency that supports and enhances conservation of the natural, cultural, and historic resources of the Monument, and to contribute to the Nation's science and cultural literacy, the following activities may be conducted:

a) Collect information and experiences from the Monument to develop agency web pages, Navigating Change projects, and other Monument educational outreach products;

b) Collect debris and biological samples and specimens such as albatross boluses for education projects;

c) Transfer debris, biological samples, and specimens (such as albatross boluses) for educational projects with appropriate permits and transfer documents, to accredited educational institutions. Approved final Material Transfer Permit (MTP) procedures will supersede this subsection; and

d) Conduct news media and VIP site visits to enhance public knowledge and understanding of Monument resources.

*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:

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

All conservation and management activities conducted by the permit applicants will be carried out with strict safeguards for the natural, cultural and historic resources of the Monument as required by Presidential Proclamation 8031, and other applicable law and agency policies and standard operating procedures. All agencies have field protocols and best management practices. These practices and procedures will minimize or eliminate disturbance to wildlife, flora, habitats, and cultural and historic resources. Long and short-term monitoring data is used to inform management and conservation actions to maintain the ecological, cultural and historic integrity of the Monument.

To safeguard all the resources and ecological integrity of the Monument, early and ongoing coordination of interagency activities will occur between the action agency and interested Monument partners as soon as details of activities are identified. For example, a joint calendar of projected activities to be covered under the manager's permit is kept and continually updated by agency staff. In addition, logistics planning and coordination meetings between all Monument Management Board (MMB) agencies may be implemented to further synchronize activities. The goal of early coordination is the commitment to identifying, incorporating, and customizing best management practices for specific activities.

Additionally, pre-access permit and cultural briefings will be conducted for all new personnel entering the Monument and annually for all.

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?

The activities requested are directed by Presidential Proclamation 8031 and other state and federal laws, regulations, and policies. The applicants will manage the Monument's natural, historic and cultural resources, qualities, and ecological integrity in a way that will not diminish and will likely enhance them. Indirect, secondary, and cumulative effects of management activities are always considered. Activities will be in support of the Monument Management Plan (2008), including but not limited to priority management needs 3.1: Understanding and Interpreting the NWHI; 3.2: Conserving Wildlife and Habitats; 3.3 Reducing Threats to Monument Resources; 3.5: Coordinating Conservation and Management Activities; and 3.6: Achieving Effective Monument Operations.

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.

On June 15, 2006, President George W. Bush established Papahānaumokuākea Marine National Monument by issuing Presidential Proclamation 8031 (Proclamation; 71 FR 36443, June 26, 2006) under the authority of the Antiquities Act (16 U.S.C. 431), with codifying regulations in

50 CFR Part 404. This Proclamation designated that the Monument would be managed by Department of Commerce through NOAA, Department of the Interior through FWS, and that the State of Hawai‘i’s jurisdiction in the region remained unchanged. Through the December 8, 2006 Memorandum of Agreement (MOA), NOAA, FWS, and the State of Hawai‘i Department of Land and Natural Resources became the agencies responsible for the conservation and management of the Monument, and they are working cooperatively and consulting with each other to administer the Monument. Per the MOA, the Department of Land and Natural Resources collaborates with the Office of Hawaiian Affairs (OHA) in the perpetuation of Hawaiian cultural resources in the Monument, and OHA is a member of the Monument Management Board. The applicants have been directed to provide unified conservation and management of the lands and waters of the Monument; therefore there is no practicable alternative to conducting management activities inside the Monument.

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 is to maintain all Monument resources and conduct adaptive management which will allow educated management decisions and provide for long-term protection of the Monument. By taking appropriate management actions – from monitoring to habitat enhancement and education – agencies will be able to anticipate needs, take appropriate action, and allow only activities that enhance the quality and integrity of the natural, historic and cultural resources of the Monument. Appropriate management actions prevent potential adverse impacts that include but are not limited to: invasive species outbreaks, overharvesting of natural resources; marine debris damage; avian disease outbreaks, and monk seal population declines. In addition, the applicants will employ time-tested best management practices to minimize and mitigate adverse impacts.

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

All conservation and management activities conducted by the permit applicants are conducted in the shortest possible window to prevent or eliminate disturbance to the natural, historic and cultural resources of the Monument.

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

The applicants and their representative management, biological, interpretive, law enforcement, administrative, and education and outreach staff possess high levels of expertise and knowledge of the ecosystem and locations within the Monument. These experts provide their knowledge and recommendations in all management decisions so that all impacts are minimized and mitigated if necessary.

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 applicants have adequate financial resources available to conduct the proposed management activities. Federal funding is provided through congressional appropriation. State funding is provided through State of Hawai‘i funding processes.

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 methods and procedures used in the conservation and management activities by the permit applicants are appropriate to achieve the proposed activity’s goals. All activities proposed are required for effective management of the Monument and are conducted in a way that minimizes impact as required by law. Management activities assist the applicants to protect the Monument natural, historic and cultural resources, qualities, and ecological integrity.

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

All vessels used by the applicants that are not stationed in the Monument will be outfitted with a functional NOAA Office of Law Enforcement type-approved Vessel Monitoring System as required by 50 CFR Part 404.5 and stated in the Proclamation.

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 listed activities inappropriate.

8. Procedures/Methods:
The above activities will be conducted by employees, contractors, and volunteers under the direction and control of the applicants in accordance with Presidential Proclamation 8031 and all other applicable laws and regulations.
The applicants will abide by the following policies and procedures, among others that may be developed, when operating in the Monument:

1. Disease and Introduced Species Prevention Protocols for Permitted Activities in the Marine Environment;
2. General Sampling and Transport Protocols for Collected Samples;
3. Voucher Specimen Guidelines;
4. Hull, tender vessel, ballast water, and gear inspections for alien species;
5. Rat-free inspections;
6. Precautions for Minimizing Human Impacts on Birds;
7. Best Management Practices for Boat Operations and Diving Activities;
8. Health and Safety Plans, and Emergency Response Plans;
9. All FWS refuge policies and procedures for conduct in the two wildlife refuges (Hawaiian Islands National Wildlife Refuge and Midway Atoll National Wildlife Refuge);

10. All policies and procedures for conduct in Northwestern Hawaiian Islands Hawaii State Marine Refuge and Kure Atoll State Seabird Sanctuary;
11. Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve Executive Orders;
12. Hawaii Administrative Rules, §13-60.5, the Hawaii Revised Statutes, § 187A-6; and
13. All other applicable state and federal laws and regulations.

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):

Collections will occur as necessary to support the management activities listed under Question 6, Number 2 (Resource Survey and Monitoring). Collections will occur as needed in the following instances:

- Collecting species for propagation or translocation;
- Collecting post-contact artifacts as needed;
- Collecting biological, climatological, chemical, geological, or archaeological samples for study;
- Collection of biological voucher specimens that cannot be visually identified on the spot and/or may represent new geographic records or new species;
- Collection of culturally significant natural materials for cultural ceremonies and practices;
- Collection of specimens and biological samples for educational outreach activities; and
- Collection of specimens and biological materials for monitoring and research purposes to include organisms found dead and non-lethal biological samples, if such collection supports stated research or monitoring needs. (For example: birds collected to determine cause of death; birds and other samples collected for other information (e.g. genetic or isotope analyses); plastic pollution studies; and feather and egg samples for genetic and isotope sampling.)

Answers to the following will be dependent on specific management activities, and will be reported on per activity to document and track actual collections.

Common name:

Scientific name:

& size of specimens:

Collection location:

☒ Whole Organism ☒ Partial Organism

9b. What will be done with the specimens after the project has ended?
Collections and specimens will be processed and archived according to agency protocols and Monument Best Management Practices. Some material may be provided for educational use or for museum vouchers and studies. Cultural materials may be provided to Hawaiian cultural practitioners when applicable, in coordination with appropriate federal and/or state resource agencies, including OHA. When practicable, and desirable, collections and specimens will be returned to the Monument at the location of collection.

9c. Will the organisms be kept alive after collection? ☒ **Yes** ☒ **No**
Management activity dependent

• General site/location for collections:
Management activity dependent

• Is it an open or closed system? ☒ Open ☒ Closed
Management activity dependent

• Is there an outfall? ☒ Yes ☒ No
Management activity dependent

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

• Will organisms be released?
Management activity dependent

10. If applicable, how will the collected samples or specimens be transported out of the Monument?
Collected samples and specimens will be transported out of the Monument by approved aircraft or vessel unless used for management within the Monument. Appropriate media for preservation will be used, and are incident or specimen specific.

11. Describe collaborative activities to share samples, reduce duplicative sampling, or duplicative research:
Collaborative activities are always a goal, and are incident specific. Collaboration opportunities will be sought out and will be entered into as opportunities present themselves. Monument Co-Trustee representatives and the Monument Management Board will work collaboratively to achieve the desired results, thus reducing duplicative sampling.

12. List all specialized gear and materials to be used in this activity:
All gear and materials necessary for the activities listed in Section B, Number 6 are either available on location or will be provided by the acting agency as necessary. All gear and

materials will be selected and treated according to invasive species and disease prevention protocols.

13. List all Hazardous Materials you propose to take to and use within the Monument:
All hazardous materials necessary for the activities listed in Section B, Number 6 are either available on location or will be provided by the acting agency as necessary. Hazardous materials on the islands will be used in amounts that will sustain an approved activity for an appropriate time period. Inventory of hazardous materials will be conducted annually to reduce or minimize long term storage in order to reduce spills or accidents per OSHA standards. Unused and old hazardous materials brought into the Monument will be removed appropriately for disposal. All U.S. Department of Transportation safety measures will be followed for storage and transport of hazardous materials within the Monument.

14. Describe any fixed installations and instrumentation proposed to be set in the Monument:
Fixed installations and instrumentation will be used in marine and terrestrial survey, monitoring, and conservation activities such as:

- Placement, maintenance, testing, and removal of measuring devices and related equipment;
- Placement of weighted floats and/or lines affixed directly to the seabed for the purposes of grounding response, or benthic surveys;
- Setting of survey stakes;
- Coring the seabed to determine adequacy of the substrate for installation of moorings, and permanent monitoring stations;
- Installation and maintenance of moorings, boundary buoys, and permanent monitoring stations; and
- Placement of scientific equipment.

All installed hardware, including but not limited to instrumentation, survey stakes, moorings, buoys, and scientific equipment, will be removed from the Monument upon completion of their respective projects.

15. Provide a time line for sample analysis, data analysis, write-up and publication of information:
Samples and data will be analyzed as quickly as possible if they are collected, and publication of resulting information will follow. All data or a summary description will be provided in the permit reports as required by the permit resulting from this application.

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.

_____

Barry Stieglitz Date
Refuge Supervisor
Hawaiian & Pacific Islands National Wildlife Refuge Complex
U.S. Fish and Wildlife Service

_____

David Swatland Date
Acting Superintendent
Papahānaumokuākea Marine National Monument
National Oceanic and Atmospheric Administration

_____

Maria Carnevale Date
State Co-Manager
Papahānaumokuākea Marine National Monument
State of Hawai‘i, Department of Land and Natural Resources

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