Papahānaumokuākea Marine National Monument
RESEARCH Permit Application

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

ADDITIONAL IMPORTANT INFORMATION:

- Any or all of the information within this application may be posted to the Monument website informing the public on projects proposed to occur in the Monument.

- In addition to the permit application, the Applicant must either download the Monument Compliance Information Sheet from the Monument website OR request a hard copy from the Monument Permit Coordinator (contact information below). The Monument Compliance Information Sheet must be submitted to the Monument Permit Coordinator after initial application consultation.

- Issuance of a Monument permit is dependent upon the completion and review of the application and Compliance Information Sheet.

INCOMPLETE APPLICATIONS WILL NOT BE CONSIDERED

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

SUBMITTAL VIA ELECTRONIC MAIL IS PREFERRED BUT NOT REQUIRED. FOR ADDITIONAL SUBMITTAL INSTRUCTIONS, SEE THE LAST PAGE.
Summary Information
Applicant Name: Allison Fundis, Chief Operating Officer
Affiliation: Ocean Exploration Trust
Permit Category: Research
Proposed Activity Dates: TBD. Request permit from July 1, 2022 to October 25, 2022
Proposed Method of Entry (Vessel/Plane): Vessel
Proposed Locations: Deepwater (>100m) expanded area of PMNM; Shallow water (<100m) within original PMNM boundary; TBD offshore: Nihoa Island, Necker Island, French Frigate Shoals, Gardner Pinnacles, Maro Reef, Laysan Island.

Estimated number of individuals (including Applicant) to be covered under this permit: approximately 28

Estimated number of days in the Monument: TBD, up to 74 depending on permitted research activities currently under review by the co-Trustees of PMNM. The maximum number of days (if all related pending permits are approved) is 74 days within PMNM following the schedule below.

<table>
<thead>
<tr>
<th>(est) DATES</th>
<th>EST DAYS IN PMNM UNDER THIS PERMIT REQUEST</th>
<th>EXPEDITION</th>
<th>PENDING PERMIT APPLICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0</td>
<td>port: Honolulu</td>
<td></td>
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<tr>
<td>8/28-8/29</td>
<td>0</td>
<td>port: Honolulu</td>
<td></td>
</tr>
<tr>
<td>9/13-9/14</td>
<td>0</td>
<td>port: Honolulu</td>
<td></td>
</tr>
</tbody>
</table>
**Description of proposed activities:** (complete these sentences):

a.) The proposed activity would…

*Operate exploration vessel (E/V) Nautilus, a 224’ research vessel within the boundaries of Papahānaumokuākea Marine National Monument. The purpose of this vessel is to provide an at-sea research platform for PIs within PMNM. Research scientists aboard the vessel will work under separate permits from the vessel.*

b.) To accomplish this activity we would …

*Transport and support researchers working and traveling within PMNM.*

c.) This activity would help the Monument by …

*Providing a data collection platform for scientists to conduct research activities in order to inform management activities and preserve and sustain the scientific and cultural significance of PMNM.*

**Other information or background:**

Ocean Exploration Trust is a Connecticut-based 501(c)(3) nonprofit that owns and operates exploration vessel (E/V) Nautilus and has experience conducting expeditions within PMNM (2018, 2021) in collaboration with NOAA Office of National Marine Sanctuaries and NOAA Ocean Exploration. In 2021, Ocean Exploration Trust and representatives of the Papahānaumokuākea Native Hawaiian Cultural Working Group collaborated to begin to address the overdue need for expeditions to be conducted in Hawai‘i to reflect collaborative approaches inclusive of Hawaiian worldview. As a result, the 2021 PMNM expedition aboard Nautilus included co-developed outreach and education opportunities including: (1) Hawaiian naming of expeditions, (2) supporting storytelling through development of promotional video in Hawaiian highlighting Hawaiian worldviews ocean ocean exploration, (3) broadening outreach to the local Department of Education, charter, and kula kaiapuni networks, and (4) supporting live ship-to-shore broadcast on Hawaiian and English, which included supporting a paid internship position for a Native Hawaiian student and a paid position for a Cultural Working Group representative to be on board for the expedition as a Hawaiian language correspondent and cultural liaison. Ocean Exploration Trust and PMNM collaborators continue to work together to build on this partnership to make more opportunities available for local students, educators, and
researchers.
Section A - Applicant Information

1. Applicant

Name (last, first, middle initial): Fundis, Allison, T.
Title: Chief Operating Officer

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

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

Phone: 
Fax: n/a
Email: 

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

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):
E/V Nautilus sails with up to 18 professional crew members on any given expedition. Including crew changes, we anticipate approximately 28 TBC individuals to sail as crew under this permit. Scientists will be named in specific research permits that are being submitted in parallel with this vessel research permit request. E/V Nautilus crew roles per expedition include:

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Captain</td>
<td>Pavel Chubar or Neal Myles</td>
</tr>
<tr>
<td>Chief Officer</td>
<td>TBC</td>
</tr>
<tr>
<td>2nd Mate</td>
<td>TBC</td>
</tr>
<tr>
<td>3rd Mate</td>
<td>TBC</td>
</tr>
<tr>
<td>ETO</td>
<td>TBC</td>
</tr>
<tr>
<td>Chief Engineer</td>
<td>TBC</td>
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<tr>
<td></td>
<td>Position</td>
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<tr>
<td>3</td>
<td>Engineers</td>
</tr>
<tr>
<td>1</td>
<td>Chief Cook</td>
</tr>
<tr>
<td>1</td>
<td>Cook</td>
</tr>
<tr>
<td>1</td>
<td>Bosun</td>
</tr>
<tr>
<td>2</td>
<td>Able Seamen</td>
</tr>
<tr>
<td>2</td>
<td>Motormen</td>
</tr>
<tr>
<td>1-2</td>
<td>Steward</td>
</tr>
</tbody>
</table>
## Section B: Project Information

### 5a. Project location(s):

<table>
<thead>
<tr>
<th>Location</th>
<th>Land-based</th>
<th>Shallow water</th>
<th>Deep water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nihoa Island</td>
<td>☐</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Necker Island (Mokumanamana)</td>
<td>☐</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>French Frigate Shoals</td>
<td>☐</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Gardner Pinnacles</td>
<td>☐</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Maro Reef</td>
<td>☐</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Laysan Island</td>
<td>☐</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Lisianski Island, Neva Shoal</td>
<td>☐</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Pearl and Hermes Atoll</td>
<td>☐</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Midway Atoll</td>
<td>☐</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Kure Atoll</td>
<td>☐</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Monument Expansion Area</td>
<td>☐</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>☐</td>
<td>□</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Shallow water is defined by water less than 100 meters in depth.

☐ Remaining ashore on any island or atoll (with the exception of Sand Island, at Midway Atoll 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:

TBD dependent on permitted activities. We anticipate operating in the southern 50% of the original boundary (yellow) as well as within the expanded boundaries of the Monument (purple = highest priority). Locations will be refined and limited to the scope of other permitted activities.

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
X Anchoring a vessel
☐ Deserting a vessel aground, at anchor, or adrift
X 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

Anchoring the E/V Nautilus 5.5-meter RHIB supporting SCUBA operations is not planned but may be required for longer SCUBA dives or in the event of engine failure. OET will endeavor to hand place anchors with divers/snorkelers to minimize any potential impact to underwater fauna and substrate. OET has no plans to anchor E/V Nautilus in PMNM and would only do so in the unlikely event of a ship emergency and loss of propulsion/power requiring the anchor to be dropped for the safety of the vessel and those onboard.

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

The purpose of the vessel’s activities are to provide an at-sea research platform with a 2-3 week endurance to support activities that are permitted through the Monument co-Trustees, including: ship-based multibeam mapping in deepwater; the deployment of an autonomous mapping vehicle for mapping surveys; and small boat, diver, and special use permit activities.

*Considering the purpose of the proposed activities, do you intend to film / photograph federally protected species beyond the protocols provided in PMNM Best Management Practices (https://www.papahanaumokuakea.gov/permit/bestmanagement.html)? Yes ☐ No X

If so, please list the species you specifically intend to target.
N/A

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?

*Ocean Exploration Trust has a history of scientific exploration that is sensitive to cultural and historic places and resources. We do not touch or disturb any historic sites without proper permission and permitting, and do not intend to include any such activities on these expeditions. Activities aboard E/V Nautilus will be respectful of the natural, historical, and cultural resources of PMNM. All expedition participants and crew will receive a cultural briefing from PMNM, OHA, or designated representative in advance of the expedition to ensure all parties understand the cultural significance of PMNM to Native Hawaiians. Ocean Exploration Trust ensures everyone onboard E/V Nautilus understands that Native Hawaiians consider all natural resources as cultural resources and that both are provided with the utmost respect during our expeditions.*

*Ocean Exploration Trust will implement a rodent-free plan and be inspected for the presence of rodent species prior to entering PMNM, following the guidelines and inspection standards laid out in PMNM BMP #018. Additionally, underwater hull inspections by divers will be conducted prior to entering PMNM and any potentially harmful biofouling agents will be removed.*

*E/V Nautilus follows a waste management plan in compliance with all United States Coast Guard, international, and PMNM rules and regulations. The vessel will carry a vessel monitoring system in accordance with PMNM regulations in addition to following all other Monument Best Practices and Policies relevant to the permitted work conducted onboard.*

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

*All activities conducted aboard E/V Nautilus will be activities permitted by the co-Trustees of the Monument. All operations will be compatible with the conservation and management goals of PMNM, NOAA Office of National Marine Sanctuaries, USFWS, and the State of Hawai‘i.*

*Ocean Exploration Trust is respectful of the cultural importance of the Monument to Native Hawaiians. As a sacred place, and especially in the realm of Po, we aim to tread lightly and minimize or omit impacts from activities conducted from aboard E/V Nautilus. Additionally, this project can help facilitate the Monument’s effort to “bring the place to the people, rather than the people to the place” through telepresence and other outreach and education efforts that have the potential to share PMNM resources with local students, educators, and community members in real-time. Ocean Exploration Trust continues to work with PMNM staff to develop*
opportunities and programs to raise awareness about the cultural, as well as the natural, significance of the Monument.

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.

E/V Nautilus is an at-sea scientific exploration platform that we aim to use to transport scientists and scientific equipment to remote locations throughout the Monument, in addition to providing a way for students, educators, and the public to connect with the research and researchers in real-time. Without this safe mode of transportation, permitted research and outreach activities would not be possible unless another comparable vessel is identified and available in a similar timeframe.

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

E/V Nautilus will support permitted scientific research that will help assess and characterize the health and biodiversity of the fauna within the Monument in addition to collecting bathymetric data that will be valuable for informing future research and possibly management priorities. The information that is gathered will be provided to PMNM. In our estimation, the end value of this activity outweighs any potential impacts, thus meeting the criteria noted under Finding 1d in Proclamation 8031.

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

E/V Nautilus will only remain in the Monument for the duration of the activities permitted to be conducted aboard. Each expedition leg will average 2-3 weeks in duration, including transit times to/from Honolulu. The ship’s schedule will be dependent on the activities permitted by the Monument to take place aboard Nautilus in the timeframe of this request (June - Oct, 2022), with time minimized to sustain critical operations for the permitted projects only.

E/V Nautilus will spend only the time allocated for the scientific mission as approved in the individual research and special use permits granted and approved by the co-Trustees and the State Land Board where relevant.

The schedule for E/V Nautilus under this permit request is dependent on the review of other pending research and special use permit requests submitted by Ocean Exploration Trust and the National Geographic Society. The notional schedule in the scenario all permit requests are approved by the co-Trustees is noted in the table below. For cruise legs that are co-sponsored between NOAA OE and the National Geographic Society, E/V Nautilus will be used overnight to map under NOAA OE funding and support National Geographic-funded activities during
daytime hours. Estimated dates within the boundaries of PMNM are the maximum for each cruise leg and are likely to be less given transit time between sites and the Port of Honolulu.

In the event some project permits included in the schedule below are not approved by the co-Trustees, Ocean Exploration Trust would request to consolidate NOAA OE-funded mapping efforts into an additional dedicated mapping cruise in PMNM.

<table>
<thead>
<tr>
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<tr>
<td>9/29-9/30</td>
<td>0</td>
<td>port: Honolulu</td>
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<tr>
<td>10/1-10/8</td>
<td>5</td>
<td>Nat Geo snorkeling/SCUBA (Nat Geo)</td>
<td>Hoffman-Kunt, Miller, Agustines</td>
</tr>
<tr>
<td>10/8-10/9</td>
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<td>port: Honolulu</td>
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</tr>
<tr>
<td>10/10-10/24</td>
<td>12</td>
<td>OET Mapping (NOAA OE) Nat Geo SCUBA (Nat Geo)</td>
<td>Fundis, Mayer, Armstrong Dunnavant</td>
</tr>
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</table>

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

Ocean Exploration Trust has been conducting scientific exploration of the deep sea since 2009 with its vessel E/V Nautilus in the Pacific, Caribbean, Gulf of Mexico, Mediterranean Sea, Aegean Sea, and Black Sea. The staff and contractors of the organization are experienced maritime professionals, engineers, scientists, and outreach specialists. We have a successful history of safely and professionally conducting seafloor mapping and deepwater exploration with remotely operated vehicles in all US National Marine Sanctuaries along the west coast and in the Thunder Bay National Marine Sanctuary. The vessel and crew have also conducted successful expeditions to the Monument in 2018 and recently in 2021, as well as expeditions within the Pacific Remote Islands Marine National Monument and the Phoenix Islands Protected
Area. Ocean Exploration Trust is known as a leading organization in professionally and safely conducting scientific exploration.

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.

During the timeframe of this permit request, Ocean Exploration Trust will be conducting expeditions funded by the NOAA Ocean Exploration Cooperative Institute via NOAA Ocean Exploration (research-mapping), NOAA Office of Coast Survey (research-mapping), and through the National Geographic Society (special use - research). The shiptime will be associated with the days at sea that are permitted through other research and special use activities approved by the co-Trustees. The ship and operators are fully insured.

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.

Since early 2021, Ocean Exploration Trust has been collaborating closely with PMNM staff and representatives of the Papahānaumokuākea Cultural Working Group to address the overdue need for expeditions to be conducted in Hawai‘i to reflect collaborative approaches inclusive of Hawaiian worldview. Ocean Exploration Trust is committed – as are our expedition partners and researchers – to conducting expeditions in an ethical way so that impacts are minimal to the Monument’s cultural, natural and historic resources, qualities, and ecological integrity. In addition to the ongoing collaborative work between OET, PMNM, and the CWG, all personnel will be briefed on the cultural and historical significance of PMNM and additional resources (e.g., literature, briefing materials) will be made available for personnel aboard the ship.

The only activities that will be conducted from the vessel will be those in support of other permitted projects and activities that are specifically stated in the approved research and special use permits.

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

E/V Nautilus will be obtaining a VMS system in 2022 per the OLE requirements and for the duration of the time the vessel will be in the Monument. The vessel currently utilizes AIS, which it will also retain and have on for the duration permitted activities.

j. Demonstrate that there are no other factors that would make the issuance of a permit for the activity inappropriate.
All vessel personnel will be informed and will abide by the NOAA guidelines and best management practices for relevant activities supported aboard the vessel and that are permitted through the co-Trustees. All personnel will be required to read and sign the Papahānaumokuākea Marine National Monument Conservation & Management permit and abide by all permit conditions.

8. Procedures/Methods:

E/V Nautilus will transit to the Monument from Honolulu and operate within the Monument for various permitted research activities, which may include seafloor mapping operations with the vessel and an autonomous mapping vehicle, oceanographic data collection, SCUBA diving and related small boat operations, and supporting the transport of FWS personnel for authorized FWS land-based operations. Crew activities may include small boat operations, SCUBA, or snorkeling, as necessary for emergency operations, vessel maintenance, or support of research activities. All planned small boat and permitted SCUBA research activities will be conducted during daylight hours.

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:
N/A

Scientific name:
N/A

# & size of specimens:
N/A

Collection location:
N/A

☐ Whole Organism  ☐ Partial Organism

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

9c. Will the organisms be kept alive after collection?  ☐ Yes  ☐ No
N/A
• General site/location for collections:
  N/A

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

• Is there an outfall?  ☐ Yes  ☐ No
  N/A

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

• Will organisms be released?
  N/A

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

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

12a. List all specialized gear and materials to be used in this activity:
  ● Pro 5.5 TGG Zodiac with Yamaha F150
  ● Rescue boat
  ● SCUBA gear
  ● Kongsberg EM302 multibeam echosounder and sound velocity profiler (use of this system will be applied for under a separate permit)
  ● Knudsen Chirp 3260 sub-bottom profiler (use of this system will be applied for under a separate permit)
  ● Underway CTD

12b. List all Hazardous Materials you propose to take to and use within the Monument:
  Ship carries diesel fuel for propulsion and gasoline when permitted Zodiac operations are conducted from the vessel. The ship carries typical hazardous materials commonly needed for operating/maintaining vessels and that are for use only aboard the vessel.

13. Describe any fixed installations and instrumentation proposed to be set in the Monument:
  N/A
14. Provide a time line for sample analysis, data analysis, write-up and publication of information:
N/A

15. List all Applicants’ publications directly related to the proposed project:
N/A

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

_________________________________________________________________
Signature Date

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

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