

Papahānaumokuākea Marine National Monument
Native Hawaiian Practices Permit Application

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

ADDITIONAL IMPORTANT INFORMATION:

- Any or all of the information within this application may be posted to the Monument website informing the public on projects proposed to occur in the Monument.
- In addition to the permit application, the Applicant must either download the Monument Compliance Information Sheet from the Monument website OR request a hard copy from the Monument Permit Coordinator (contact information below). The Monument Compliance Information Sheet must be submitted to the Monument Permit Coordinator after initial application consultation.
- Issuance of a Monument permit is dependent upon the completion and review of the application and Compliance Information Sheet.

INCOMPLETE APPLICATIONS WILL NOT BE CONSIDERED

Send Permit Applications to:

Papahānaumokuākea Marine National Monument Permit Coordinator

6600 Kalaniana'ole Hwy. # 300

Honolulu, HI 96825

nwhipermit@noaa.gov

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

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

Papahānaumokuākea Marine National Monument Permit Application Cover Sheet

This Permit Application Cover Sheet is intended to provide summary information and status to the public on permit applications for activities proposed to be conducted in the Papahānaumokuākea Marine National Monument. While a permit application has been received, it has not been fully reviewed nor approved by the Monument Management Board to date. The Monument permit process also ensures that all environmental reviews are conducted prior to the issuance of a Monument permit.

Summary Information

Applicant Name: Nainoa Thompson

Affiliation: Polynesian Voyaging Society

Permit Category: Native Hawaiian Practices

Proposed Activity Dates: Sept. 1 - Sept. 30, 2013

Proposed Method of Entry (Vessel/Plane): Vessel

Proposed Locations: Nihoa

E  **als (including Applicant) to be covered under this permit: 16**
E  **the Monument: 6**

Description of proposed activities: (complete these sentences):

a.) The proposed activity would...
serve multiple purposes. Hikianalia, a Polynesian voyaging canoe, began a voyage around the world on May 29, 2013 with the start of a sail around the Hawaiian Archipelago. The name of the voyage is Mālama Honua, which translates to care for the earth. Starting with Hawai'i shows our commitment and dedication to Hawai'i and allows for her people to connect with the mission of the voyage which is to navigate toward a healthy and sustainable future, recognizing the importance of culture to our well-being now and in the future. While voyaging around the world, the canoes plan to visit 23 Marine Protected Areas (including Papahānaumokuākea) to highlight their importance and significance as safe holds for the future, so we would like to start with our home Papahānaumokuākea. Coupled with these important reasons stated above, the location of Nihoa provides excellent training to apprentice navigators to practice the traditional Hawaiian/Polynesian skills of wayfinding (non-instrumental navigation). The main Hawaiian Islands are relatively too close to each other for this type of long-range navigational experience.

b.) To accomplish this activity we would

sail to Nihoa on the double-hulled, voyaging canoe Hikianalia, one of the two canoes that will be circumnavigating the world.

c.) This activity would help the Monument by ...
meeting a priority within the Monument Management Plan, which includes an activity in support of regular access for Polynesian voyaging canoes for wayfinding, navigational and cultural protocol training. We also note that wayfinding training and traditional voyaging were components of Papahānaumokuākea's successful nomination as a natural and cultural World Heritage site. Having this living tradition continue should be a priority for managers of this Marine World Heritage site.

Other information or background: Our other Polynesian voyaging canoe, Hōkūle‘a, has made previous, successful voyages into the kupuna islands before they were designated a Monument. This would be the first voyage Hikianalia would make into Papahānaumokuākea, and it would help to provide a stronger awareness that the entire Hawaiian Archipelago is connected, sacred and worth protecting.

Vessel name: Hikianalia

Vessel owner: Polynesian Voyaging Society

Captain's name: Nainoa Thompson

IMO#: N/A

Vessel ID#: 1681

Flag: Cook Islands

Vessel type: Traditional – Voyaging Canoe

Call sign: E5U2592

Embarkation port: Hanalei, Kaua‘i, Hawai‘i

Last port vessel will have been at prior to this embarkation: Hale‘iwa, O

Le

Gross tonnage: 30

Total ballast water capacity volume (m3): N/A

Total number of ballast water tanks on ship: N/A

Total fuel capacity: N/A (battery-powered engines from photovoltaic panels)

Total number of fuel tanks on ship: N/A

Marine Sanitation Device: yes

Type: 3

Section A - Applicant Information

1. Applicant

Name (last, first, middle initial): Thompson, Charles N.

Title: President

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

Nainoa Thompson

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

[REDACTED]

[REDACTED]

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

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

Polynesian Voyaging Society

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, Diver):

16 crew (maximum) for the double-hulled, Polynesian voyaging canoe Hikianalia, -- crew member names TBD on compliance information sheet.

Section B: Project Information

5a. Project location(s):

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

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

Location Description:

The intention is to navigate, using traditional methods, to Nihoa, sail around the island, close sails, anchor, and transport people to Nihoa, and then sail back to Kaua'i using traditional methods. We will finalize our sail plans before our departure to make sure that all Monument consultations and requirements are met.

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:*

Hikianalia, a Polynesian voyaging canoe, began a voyage around the world on May 29, 2013, by beginning a sail around the Hawaiian Archipelago. The name of the voyage is Mālama Honua, which translates to care for the earth. Starting with Hawai'i shows our commitment and dedication to Hawai'i and allows for her people to connect with the vision and mission of the voyage which is to navigate toward a healthy and sustainable future, recognizing the importance of culture to our well-being now and in the future.

Starting with the Hawaiian archipelago also allows the crews to 'ikemaka iā Hawai'i (see and experience firsthand Hawai'i and its people), thus deepening our connection to the places we call home and informing our understanding of the message of Mālama Honua that we will take around the world. The value and practice of 'ikemaka was probably best demonstrated by Queen Emma Kaleleonālani on her empowering journey to the summit of Maunakea in 1881. After losing the 1874 election to King David Kalākaua, Emma went to Maunakea, one of the piko (centers) of the Hawaiian world, and immersed herself in its mountain lake, Waiau. It was not enough for her to see Maunakea from a distance, but rather she had to travel to the top on horseback through a blustery storm, then get into the freezing lake and swim across it, before beginning her descent back down the trail. In other words, ua 'ikemaka 'o Emma iā Maunakea (Emma had to see and experience Maunakea up close and in person). It was this trip that reinvigorated herself physically and spiritually, validated her seniority of rank and ancestral lineage, and furthermore reaffirmed her right and capability to rule the Hawaiian nation.

As illustrated in this mo'olelo of her journey that has been documented in eight mele (songs, chants), Queen Emma Kaleleonālani teaches us that in order to truly connect with a place, one has to go there in person and experience the place up close in all the many ways it can reveal itself to us (e.g., landing on the islands, swimming in the waters, and eating from the land and sea). It is because of this teaching of our kūpuna practiced by Queen Emma that we are requesting permission to 'ikemaka iā Nihoa -- land on this sacred island in order to honor the island itself, eat from the waters that surround them, honor our ancestors that reside there, and place ourselves in the living genealogy of Hawai'i that includes Papahānaumokuākea. Like Queen Emma, we hope to be reinvigorated physically and spiritually, we hope to reconnect to our kūpuna through another piko of the Hawaiian world (Papahānaumokuākea), and furthermore we hope to reaffirm our capability to journey around the world carrying the message of Mālama Honua.

While traveling around the world, the canoes plan to visit 23 Marine Protected Areas (including Papahānaumokuākea) to highlight their importance and significance as safeholds for the future, so we would like to start with our home Papahānaumokuākea. Coupled with this important reasons stated above, the location of Nihoa provides excellent training to apprentice navigators to practice the traditional Hawaiian/Polynesian skills of wayfinding (non-instrumental navigation). The main Hawaiian Islands are relatively too close to each other for this type of long-range navigational experience.

Nihoa has no artificial lighting to aid the apprentice navigator, and the island's small physical size and low-lying nature require astute observations of the sun, stars, swells, seabirds and other natural phenomena. The route from Kaua'i to Nihoa is the only one from the main Hawaiian Islands to another island in the archipelago where neither the launching point nor the target destination is visible for an extended period of time during the course of the voyage, thereby offering a close simulation of a long-distance voyage without the added dangers of testing endurance. It is also the only voyaging route that offers this simulation while being close enough to the main Hawaiian Islands to ensure safety and access to provisions. These characteristics make Nihoa an ideal platform for novice Hawaiian wayfinders.

Today, apprentice Hawaiian wayfinders can be considered to have successfully navigated a canoe on long-distance, trans-Pacific sails after they have successfully guided a voyage from Kaua'i to Nihoa.

Papahānaumokuākea has also been named a World Heritage site for its natural and cultural significance. Our proposed activities will highlight Papahānaumokuākea as an important place for the perpetuation of Native Hawaiian cultural practices and a place that is essential in training apprentice navigators studying modern Hawaiian wayfinding aboard traditional double-hulled Hawaiian voyaging canoes.

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 double-hulled voyaging canoe Hikianalia will train its apprentice, non-instrument navigators by voyaging to Nihoa and may circumnavigate the island, stop, and land on Nihoa to appropriately acknowledge the cultural sites on the Island before leaving the Monument. The Hikianalia crew (a maximum of 16 people total) will be in Papahānaumokuākea for a maximum of six days at a time (only 3 days likely will be needed for the voyage to and from Nihoa, but we request buffer days for weather purposes) and will not disturb any natural, cultural or historic resources. We seek to honor our ancestors and the high significance of these two islands by presenting ho'okupu in the form of oli (chants), pule (prayers), and spiritual gifts from the main Hawaiian Islands.

We may have a videographer and/or photographer on board as a crew member, but those videos and stills would only be used for educational and management purposes for and about the cultural, natural and historic resources of [REDACTED] so, the Hikianalia crew would accommodate one Monument staff member to travel with the group to serve as an escort while in Papahānaumokuākea to assure preservation of the [REDACTED]

b. [REDACTED] conducted in a manner compatible with the management direction of the [REDACTED] the extent to which the conduct of the activity may diminish or [REDACTED] natural and historic resources, qualities, and ecological integrity, any indirect, secondary, or cumulative effects of the activity, and the duration of such effects?

The Monument Proclamation highlights the cultural significance of Papahānaumokuākea to Native Hawaiians, and the Proclamation itself authorizes access to the area via Native Hawaiian Practices Permits. The proposed activities are compatible with the management direction of the Proclamation and the Monument Management Plan, which has prioritized the support of regular access for Polynesian voyaging canoes for wayfinding, navigational, and cultural protocol training.

As previously stated, the activities proposed herein will not impact the environment or historic resources in any negative way. All activities will be conducted in accordance with the Monument's BMPs and under direct supervision of Monument staff. For safety purposes, Hikianalia will carry communications and first-aid equipment on board. This vessel will meet the strict requirements of this permitting process.

The proposed project's activities will enhance the public's and Papahanaumokuakea management's understanding of the living cultural significance of this place, its connection to Hawai'i's past and to the main Hawaiian Islands of today, and the abilities

of our younger generation of traditional navigators. Also, as part of Hōkūle'a and Hikianalia's Hawai'i-wide Sail, this leg to and from Nihoa will enjoy positive publicity in connection with the Polynesian Voyaging Society's use of the Hawai'i-wide Sail as a launch for the cultural, environmental and educational components of the Worldwide Voyage. PVS will be producing educational curriculum; connections to communities across the archipelago also working to restore coastal habitats and cultural knowledge; and trying to reach Native Hawaiian K-12 students through partnership with Bishop Museum and the University of Hawai'i College of Education, among many others.

Also, PVS's mission directly relates to and is compatible with the management direction of the Monument:

"With a legacy of ocean exploration as its foundation, the Polynesian Voyaging Society reaffirms our commitment to undertake voyages of discovery; respect and learn from our heritage and culture; and strengthen learning which integrates voyaging experiences into quality education. We are committed to nurturing communities and the leadership therein which values learning and sharing knowledge in order to foster living well on islands."

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.

There is no practicable alternative to conducting the proposed activities within Papahānaumokuākea, specifically at Nihoa and Mokumanamana. As traditional teachings show us, in order to truly experience and connect with a place, we must 'ikemaka (see, experience, visit firsthand) the place. As for navigation, Nihoa and Mokumanamana has no artificial lighting to aid the apprentice navigator, and the island's small physical size and low-lying nature require astute observations of the sun, stars, swells, seabirds and other natural elements. Today, apprentice Hawaiian wayfinders can be considered qualified to attempt to navigate a canoe on long-distance, trans-oceanic sails after they have successfully guided a voyage from Kaua'i to Nihoa.

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

While we do not think that there are any adverse impacts, the proposed activities provide beneficial impacts to Papahānaumokuākea, such as explained above, and by highlighting (through example) the area as an important place for the perpetuation of Native Hawaiian cultural and spiritual practices and a place that is essential in training apprentice navigators studying modern Hawaiian wayfinding aboard traditional double-hulled Hawaiian voyaging canoes.

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

The proposed activities would take place in the Monument for only the possible six days of sailing transit required for the sighting and circumnavigation of Nihoa, with return to Kaua'i. The application is for six days in case weather conditions beyond our control cause the need for more transit time.

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

Nainoa Thompson has extensive experience as a master navigator and teacher of Hawaiian wayfinding techniques. He has been inducted into Pwo (a sacred initiation ritual) as a master navigator, and was the first Native Hawaiian to practice the ancient art of wayfinding in six centuries. He has navigated both Hōkūle'a and Hawai'iloa (double-hulled voyaging canoes) from Hawai'i to other island nations throughout Polynesia, including the NWHI, without the aid of instruments – all with only positive educational impacts to natural, historic or cultural resources. Also on board will be at least one cultural practitioner trained in Hawaiian cultural protocol.

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.

These training trips are an essential part of the Worldwide Voyage and therefore are funded by Polynesian Voyaging Society (PVS), a cultural and education not-for-profit organization, through various grants and public and private contributions. Per our operating budget for 2013, approved by our Board of Directors, we have enough funding for the Mālama Hawai'i voyage of 2013, including the voyage to Nihoa and back.

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 crews of Hōkūle'a and Hikianalia will follow all Monument BMPs, protocols and policies while operating in Papahānaumokuākea.

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

The proposed voyage would comply with the requirements of Presidential Proclamation 8031: Hikianalia will be outfitted with a working NOAA-OLE type-approved VMS for the trip.

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 which make the issuance of a permit for the proposed activities inappropriate.

ADDITIONAL FINDINGS FOR PROPOSED NATIVE HAWAIIAN PRACTICES

k. Explain how the activity is non-commercial and will not involve the sale of any organism or material collected.

The proposed activities will not result in any commercial use of any Monument resource.

l. Explain how the purpose and intent of the activity is appropriate and deemed necessary by traditional standards in the Native Hawaiian culture (pono), and describe the history, of, and background in, the traditional practice and its associated values.

Perpetuating the practice of traditional Hawaiian wayfinding is an integral and living Native Hawaiian culture and values. The route from Kauai to the Northwest Hawaiian Islands is an essential element in ensuring that the art and practice of traditional Hawaiian wayfinding is carried into the future by the younger generations of apprentice navigators and voyagers. For both present and future generations, we must make sure that our culture continues to thrive and is never allowed to move toward extinction again.

m. Explain how the activity benefits the resources of the Northwestern Hawaiian Islands and the Native Hawaiian community.

Besides perpetuating integral components of Native Hawaiian culture (voyaging and wayfinding), the use of traditional canoes in the Monument offers an opportunity to maintain a level of cultural integrity that is appropriate for spiritual ceremonies in Papahānaumokuākea. Equally, the ability of crewmembers to perform cultural/spiritual protocol and honor their ancestors perpetuates a centuries-old link of Native Hawaiians to their ancestors, their ancestral knowledge and their Kūpuna Islands: the NWHI.

n. Explain how the activity supports or advances the perpetuation of traditional knowledge and ancestral connections of Native Hawaiians to the Northwestern Hawaiian Islands.

As previously stated, Papahānaumokuākea serves a critical role in three pertinent, significant and living, Native Hawaiian traditions: 'ikemaka, voyaging, and wayfinding. The voyaging route between Kaua'i and Nihoa is used today, as it has been for generations, as a major training and testing ground for novice navigators studying modern Hawaiian wayfinding aboard traditional, double-hulled Hawaiian voyaging canoes. The activities proposed in this permit application support the perpetuation of traditional Hawaiian wayfinding and voyaging, as they serve to train apprentice navigators and test their knowledge in an environment that is a close simulation of a long-distance voyage without the added dangers of testing endurance.

o. Will all Monument resources harvested in the Monument be consumed in the Monument? If not, explain why not.

We are requesting the ability to conduct sustenance fishing with [REDACTED] with M [REDACTED]. All such catch will be consumed in Papahānaumokuākea.

8. Procedures/Methods

[REDACTED] en-route to Lehua Island, with Nihoa as its final destination. [REDACTED] will be attached to the Compliance Information Sheet and submitted to the Permit Coordinator. Once at Nihoa, Hikianalia may circumnavigate the island before returning to Kaua'i. Fishing will be done in a traditional style by dragging a monofilament handline of about 100 feet behind the canoe with a trolling lure from sun up to sun down depending on if we catch anything or not. On Nihoa, we would like to first offer chants and pule to honor the island and its significant place in our genealogy and then do a general site visit of the island, visiting places such as settlement sites to see how our kūpuna were able to survive on an island like Nihoa to put into perspective the life style of them and the life style of us today. Also appreciated from a cultural perspective, would be a trip to the top of Tanninger peak and/or Millers peak to get an overall layout of the island from an on-island perspective, as well as Middle and East valley. We are not requesting to stay over night on Nihoa, but rather to just be on island for up to 10 hours. We would like to take the entire crew of Hikianalia on island which could be upwards of 16. However, we do not want to cause adverse effects to the islands, so will reduce the number of people on island at one time, or take other steps needed to reduce the impact as the management of Papahānaumokuākea sees fit.

We consulted with Kekuewa Kikilo, former NOAA Cultural Specialist, about appropriate activities to be conducted and sites to be visited on Nihoa. His suggestions are reflected

in the explanations above. We are hoping that he and/or Keoni Kuoha, current Cultural Specialist for NOAA and PVS crewmember, will be available to accompany the wa'a and her crew to Papahānaumokuākea. It is very important to have one or both of them with the wa'a since they are so knowledgeable about the terrain as well as the cultural and spiritual significance of both islands, which is key to fully appreciating and respecting these 'āina kupuna o kākou.

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

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

Common name:

We are not targetting specific fish for consumption, but whatever is caught by our trolling lures will be eaten.

Scientific name:

N/A

Hawaiian name:

N/A

&

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 any fixed or semi-permanent structures or installations, or cultural offerings you have within the Monument:

Continuously offer culturally and biologically appropriate ho'okupu in the Monument in conjunction with Monument management, inclusive of oli (chant) and p...

12. List all specialized gear and materials to be used in the proposed activities:

N/A

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

N/A

14. Describe collaborative activities to share samples, cultural research and/or knowledge gained in the Monument:

PVS, as part of the larger 'Ohana Wa'a (family of voyaging canoes), is creating a long-term voyaging program in collaboration with various state, federal and private entities. This navigational test will be part of the voyaging program in that it will be a high level of voyaging training. Long-term plans include the development of curriculum around such a voyage at the undergraduate level, and much of the cultural and environmental knowledge gleaned from this voyage may be added to the existing Navigating Change program, of which PVS is a founding member. We will work with Monument staff to determine appropriate partnering mechanisms.

Also, since this voyage is part of the larger Mālama Hawai'i and Worldwide Voyage, for which PVS has grants and partners to help create curriculum and educational outreach about cultural, environmental and sustainability issues, it is likely that we would try to incorporate this voyage into that messaging, especially as part of a larger message about the interconnectivity and relevance of all we have to learn from and protect throughout the Hawaiian Archipelago.

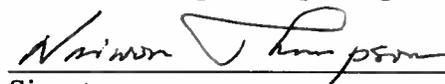
15a. Will you produce any publications, educational materials or other deliverables?
 Yes No

15b. Provide a time line for write-up and publication of information or production of materials:

If we do produce any educational materials based on this voyage, including potential undergraduate and K-12 curriculum, we will share it with the Monument, especially as the development of such material may well be done in collaboration with Monument staff.

16. If applicable, list all Applicant's publications directly related to the proposed project:
N/A

With knowledge of the penalties for false or incomplete statements, 18 U.S.C. 1001, and for perjury, as provided by 18 U.S.C. 1621, I hereby certify 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. I understand that the Co-Trustees will consider deleting all information that I have identified as "confidential" prior to posting the application.



Signature

Date

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

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

DID YOU INCLUDE THESE?
 Applicant CV/Resume/Biography

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