



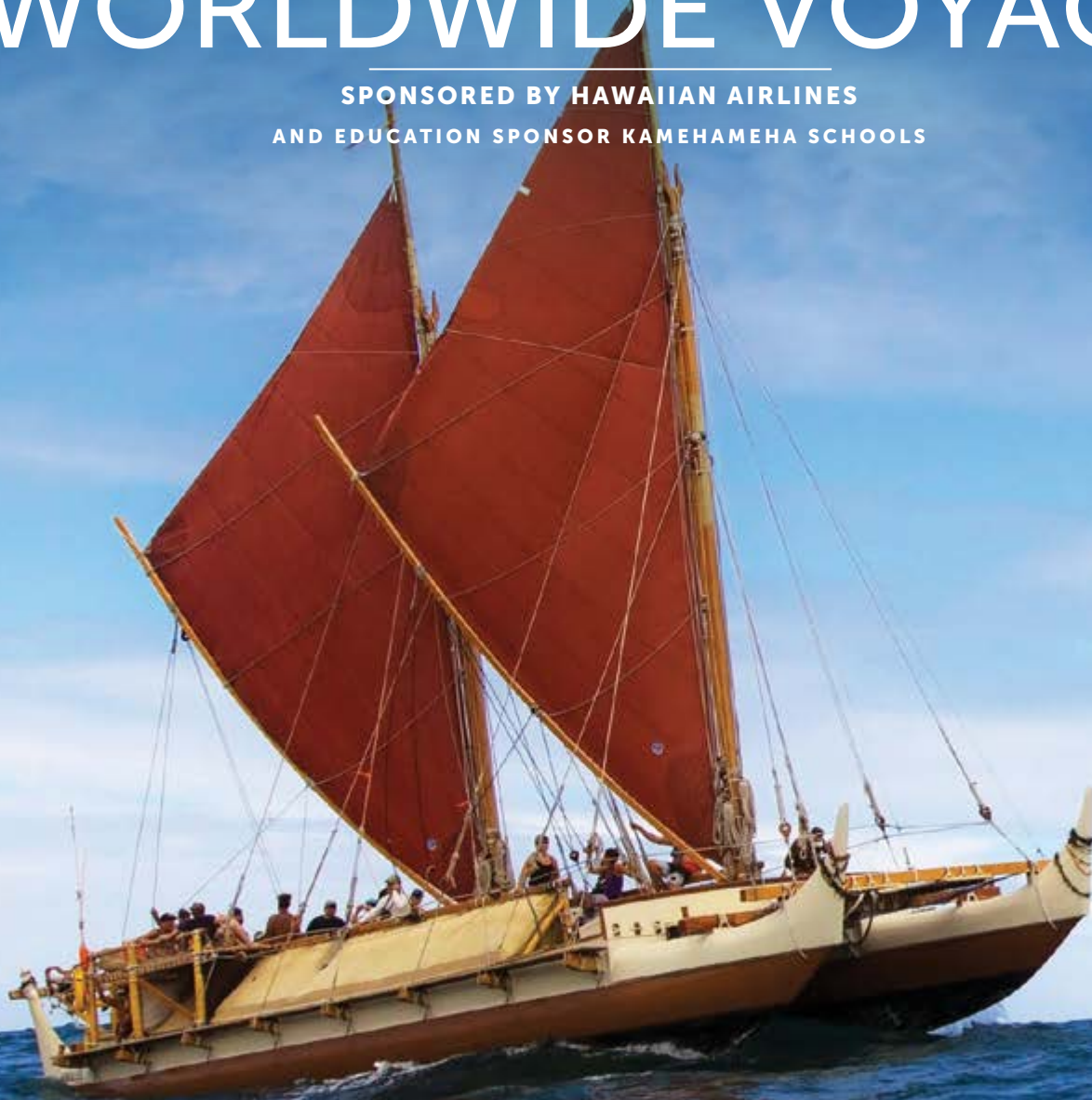
POLYNESIAN VOYAGING SOCIETY

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MĀLAMA HONUA

# WORLDWIDE VOYAGE

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# FROM THE PACIFIC TO THE WORLD

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## Traditional Voyaging in Modern Times

Just as the Polynesian voyagers populated the Pacific Islands, most cultures around the earth expanded outward over the sea. We all share a voyage of discovery in our past, and now the Polynesian Voyaging Society is leading a voyage of hope to bring us all together.

### Ancient Voyaging

The blue expanse of the Pacific Ocean is unbroken except for a few small dots of terra firma. Thousands of years ago, it became the stage for one of the greatest feats in human history. Early Polynesian seafarers journeyed beyond the shores of home to explore more than 10 million square miles. Carrying in open canoes all provisions needed for the voyage and a new life, Polynesians discovered and settled on thousands of distant islands, some less than a mile in diameter. There were no maps, compasses, or global positioning systems (GPS). Instead, these intrepid wayfinders used stars, winds, waves, birds, weather and other patterns of nature to chart their course.

### A Tradition Revived

The last of the Polynesian voyaging canoes, or wa‘a kaulua, disappeared in the 1400s. Then in 1973, artist and author Herb Kāne dreamed of building a double-hulled sailing

canoe for the first time in centuries. The idea brought together people of diverse backgrounds and professions to form the Polynesian Voyaging Society (PVS).

On March 8, 1975, PVS launched its first vessel— Hōkūle‘a —from the sacred shores of Hakipu‘u/ Kualoa in Kāne‘ohe Bay on the island of O‘ahu. Its design was a replica based on sketches of ancient canoes of the Pacific Islands. The successful arrival of Hōkūle‘a to Tahiti in 1976 via non-instrument navigation marked a renewal of traditional voyaging and wayfinding.

Hōkūle‘a continues to bring people together from all walks of life. The winds of the Pacific Ocean have carried her over 140,000 miles and to several different countries during the past 40 years. Hōkūle‘a is more than a voyaging canoe—she represents a desire shared by the people of Hawai‘i, the Pacific, and the world to protect our most cherished values and places from disappearing.

### Navigating the World

Today, navigators are using the same traditional knowledge and techniques that steered their ancestors before them. Hōkūle‘a is now joined by its sister canoe Hikianalia, launched by PVS in 2012. Together the two vessels will travel 47,000 nautical miles to 85 ports and 26 nations on their Mālama Honua\* Worldwide Voyage sponsored by Hawaiian Airlines. The voyage, which started in 2013 and will continue through 2017, is a means to engage all of Island Earth — practicing how to live sustainably while sharing Polynesian culture, learning from the past and from each other, creating global relationships, and discovering the wonders of this precious place we call home.

\*Mālama Honua is a Hawaiian phrase that means "to care for our Island Earth."

### POLYNESIAN VOYAGING SOCIETY

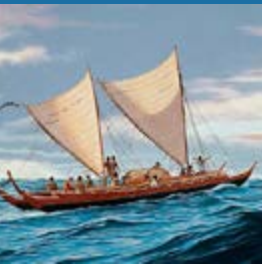
**Founded:** 1973  
**Mission:** To perpetuate the art and science of traditional Polynesian voyaging and the spirit of exploration through experiential educational programs that inspire students and their communities to respect and care for themselves, each other, and their natural and cultural environments.  
**Vision:** Hawai‘i, our special island home, is a place where the land and sea are cared for, and people and communities are healthy and safe.  
**Leaders:** Information about PVS founders, teachers, master navigators, and board members can be found at: <http://www.hokulea.com/leadership/>  
**Vessels:** Hōkūle‘a (1975) & Hikianalia (2012)

This publication was produced in partnership with the National Oceanic and Atmospheric Administration’s (NOAA) Office of National Marine Sanctuaries. NOAA is an agency of the Department of Commerce.



As the Polynesian Voyaging Society celebrates 40 years, it launches the Mālama Honua Worldwide Voyage, one of many seafaring expeditions in the long and storied maritime history of the Polynesian culture.

1200 B.C.- 1200 A.D.



Polynesians progressively settle islands throughout the Pacific Ocean from Sāmoa to Rapa Nui (Easter Island), the eastern-most island of the Polynesian Triangle.

1778



British explorer Captain James Cook arrives in Hawai‘i.

Eighteen-year-old Mau Piailug is initiated as a master navigator in a Pwo ceremony on the island of Satawal.

1950



The Polynesian Voyaging Society is founded by artist Herb Kawainui Kāne, anthropologist Ben Finney, and sailor Charles Tommy Holmes.

1973





# VOYAGING 101

Polynesian navigators, or wayfinders, were advanced in observing stars, clouds, seabird behavior, ocean swells, and other natural patterns to guide them across vast ocean expanses. Hōkūle‘a and Hikianalia will be navigated using these traditional techniques during the Mālama Honua Worldwide Voyage.

## HŌKŪLE‘A

LAUNCHED: 1975 CREW CAPACITY: 12-14 LENGTH: 62' WIDTH: 20'

The voyaging canoe Hōkūle‘a is named after the “star of gladness,” also known as Arcturus, that marks the latitude of Hawai‘i when the star is at its highest point in the sky. Hōkūle‘a’s twin hulls allow it to handle large swells and recover easily in the troughs of waves, and its triangular canvas sails can harness winds of up to 20 knots.



Today, Hōkūle‘a combines traditional elements with new materials, such as fiberglass hulls, canvas sails and synthetic lashings, for unparalleled strength and seaworthiness. Hōkūle‘a will travel over 47,000 nautical miles during the four years of the Worldwide Voyage.

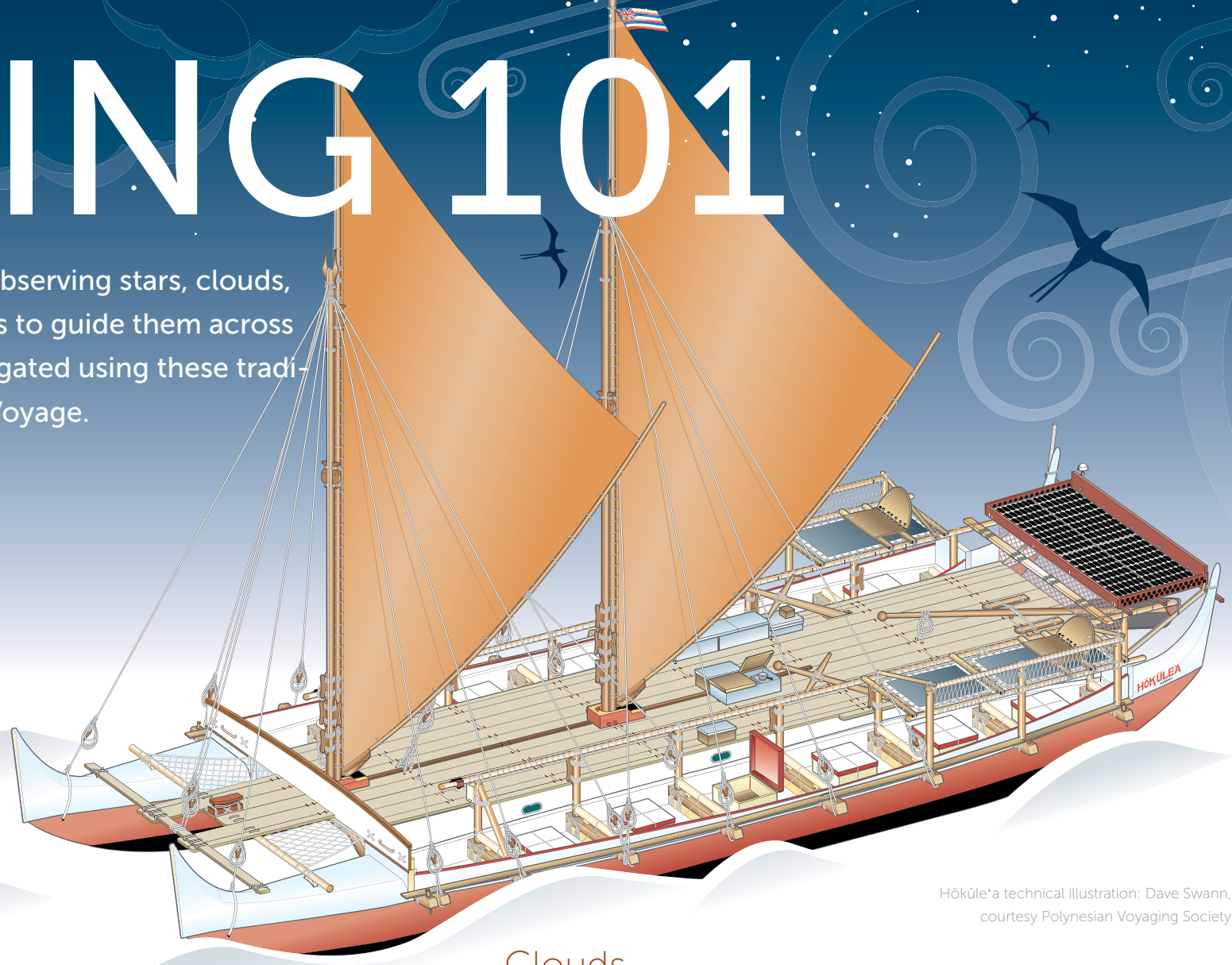
## HIKIANALIA

LAUNCHED: 2012 CREW CAPACITY: 12-16 LENGTH: 72' WIDTH: 23'

Hikianalia is the Hawaiian name for the star, also known as Spica, that rises together with the star Hōkūle‘a in Hawai‘i. The vessel combines the latest eco-friendly technology with the heritage of the voyaging tradition. Each of its hulls contains an electric motor powered by sunlight, resulting in a zero carbon footprint.



During the Worldwide Voyage, Hikianalia’s crew will conduct six ongoing science research projects and promote sustainability and conservation through educational programs and outreach.



Hōkūle‘a technical illustration: Dave Swann, courtesy Polynesian Voyaging Society

### Stars

The “star compass” is a central part of navigation. Navigators memorize the positions of over 200 stars and watch the rising and setting of stars to help determine the location of the canoe in relation to the destination. Marked grooves in the vessel are lined up with stars near the horizon to provide a point of reference and help maintain orientation to the course.

### Clouds

Navigators observe the shape, height, and color of clouds for directional and weather cues. Clouds also tend to accumulate over land in specific patterns, which navigators look for as they sail.

### Seabird Behavior

The behavior of seabirds provides important clues on the direction of nearby islands and atolls. Experienced navigators can distinguish land-based seabirds that travel away from the coast at dawn to feed and return to their nests at night, indicating the direction of land.

### Ocean Swells

Ocean swells are generated from a great distance, and they help the navigator maintain orientation and determine direction when celestial bodies are not visible. In the Pacific, the northeast trade winds generate a northeast swell and the southeast trade winds create a southeast swell.



### MEET THE CREW:

## Nainoa THOMPSON

Nainoa Thompson is the President of the Polynesian Voyaging Society and a master in the traditional Polynesian art of non-instrument navigating. Inspired by his father and by numerous important kūpuna (elders), Nainoa has dedicated his life to exploring the universal values of voyaging – vision, self-discipline, preparation, courage, risk-taking and the spirit of aloha to bind a crew on arduous journeys.

Long voyages have taught Nainoa to appreciate the Hawaiian concept of “mālama” or care-taking. “Our ancestors learned that if they took care of their canoe and each other,” he has often told his crew, “they would arrive safely at their designation.” Astronaut Lacy Veach, who observed the Hawaiian Islands from space, helped Nainoa understand “mālama” from a planetary perspective. “The best place to think about the fate of our planet is right here in our islands,” Veach told Nainoa.

From all these teachings comes the next great voyage of exploration – the Mālama Honua Worldwide Voyage to care for Island Earth.

Learn more about Nainoa and other crewmembers at: <http://www.hokulea.com/category/crew/>.

– By Sam Low, author of *Hawaiki Rising: Hōkūle‘a, Nainoa Thompson, and the Hawaiian Renaissance*

### 1975



Hōkūle‘a is launched for the first time from Hakipu‘u/Kualoa, O‘ahu.

Hōkūle‘a voyages to Tahiti for the first traditional open-ocean voyage from Hawai‘i in 600 years.

### 1976



PVS and the world mourn the passing of crewmember and renowned big wave surfer Eddie Aikau when Hōkūle‘a capsizes off the coast of Lāna‘i.

### 1978



### 1980



Nainoa Thompson navigates Hōkūle‘a to Tahiti, making him the first Native Hawaiian since the 14th century to complete a voyage using only traditional wayfinding techniques.

### 1985



Hōkūle‘a voyages to New Zealand, venturing outside of tropical waters for the first time.

Hawai‘i astronaut Lacy Veach, who loved Hawaiian voyaging canoes, travels to space on Columbia.

### 1991





# CIRCLING the GLOBE

## The Voyaging Plan



The mission of the Mālama Honua Worldwide Voyage is to navigate toward a healthy and sustainable future for ourselves, our home – the Hawaiian Islands – and our Island Earth through voyaging and new ways of learning. Our core message is to mālama (care for) Island Earth – our natural environment,

children and all humankind. Below are some highlights of the many places that the vessels Hōkūle‘a and Hikianalia will visit during their global journey, including marine protected areas, sites of historical and cultural importance, and population centers. Track the voyage at [www.hokulea.com/track-the-voyage](http://www.hokulea.com/track-the-voyage).

### 1 In Home Waters

2013 LEG:  
HAWAI‘I

In the first year of the Mālama Honua Worldwide Voyage, Hōkūle‘a and Hikianalia visited ports throughout the Hawaiian Island chain, including its most remote areas. By the end of this leg, the PVS crew engaged over 22,000 students, educators, and community members in Hawai‘i to foster care for their home ecosystems.

### 2 Paying Homage

2014 LEG:  
HAWAI‘I TO NEW ZEALAND

As the voyage continues, PVS pays homage to its historical roots and cultural ties in other Polynesian waters beyond Hawai‘i. Though these areas of the Pacific have similar traditions, this leg promotes continued cultural exchange between new generations of Polynesians.

### 3 Global Collaboration

2015 LEG:  
NEW ZEALAND TO NAMIBIA

During this phase of the WWV, Hōkūle‘a and Hikianalia make stops to highlight the need for global collaboration in marine conservation efforts. The PVS crew seeks to form new friendships and partnerships between various non-Polynesian cultures around the world, while the two vessels sail to a wide range of habitats.

### 4 Across the Atlantic

2016 LEG:  
NAMIBIA TO CHESAPEAKE BAY

This leg connects three continents across the Atlantic Ocean, including within estuarine waters. The diversity of the people at these ports of call provides an ideal platform to enhance the impact of the Worldwide Voyage, especially as it relates to making meaningful human connections.

### 5 Homeward Bound

2017 LEG:  
MIAMI TO HAWAI‘I

On the final leg, Hōkūle‘a and Hikianalia head back through the Polynesian Triangle, reaching its third outer corner along the way. As the voyage comes to an end, PVS’s efforts towards realizing a hopeful and healthy future for the ocean and the earth will have already begun to manifest.

He wa‘a he moku,  
he moku he wa‘a.



The canoe is an island,  
the island is a canoe.

1992



PVS sails to Rarotonga, while 30,000 students connect and talk with navigators aboard Hōkūle‘a and astronauts on the Columbia Space Shuttle.

1993



Hawai‘iloa, made of natural materials using traditional construction techniques, is launched. Canoes from Hawai‘i, New Zealand and Cook Islands complete the Nā‘Ohana Holo Moana Voyage.

1995



1995



Hōkūle‘a and Hawai‘iloa travel to Alaska to thank the Tlingit, Haida and Tshimshian tribes for donating two Sitka spruce logs for the Hawai‘iloa’s hulls.

1999



Hōkūle‘a sails to Easter Island, successfully visiting the three outer corners of the Polynesian Triangle. Hōkūle‘a travels to the Papahānaumokuākea Marine National Monument.

2004





# PORT STOPS

## Engaging Communities Around the World



MEET THE CREW:

### Haunani KANE

Crewmembers for the Mālama Honua Worldwide Voyage range in age, supporting the cultural perspective of collaboration across generations. Haunani Kane is one of the youngest on the crew. Her hometown is Kailua, O‘ahu, and she currently lives in a small town at the foot of the Olomana Mountain.

Early on, Haunani said that she just “really enjoyed being on the canoe [and] liked coming down to help and everything.” Once she realized the importance of the work, she decided to share the knowledge and expertise she was gaining with others, especially young people. For instance, in addition to her navigational training, Haunani is helping to lead science projects conducted during the voyage to benefit multiple communities.

When asked to describe her experience as a crewmember, she answers “[as] an indigenous person, your answers are usually attached to some sort of experience or doing something that will benefit their ‘ohana or their homes or their people. I think when you have a perspective that I’m doing this to understand my home, or I’m doing this to help my family, I think it’s just a little different.”

Learn more about Haunani and other crewmembers at: <http://www.hokulea.com/category/crew/>.

**A** fundamental objective of the Worldwide Voyage is to engage people in its conservation mission. Each stop will be vitally important in fostering a global society based on the values of mālama honua – caring for Island Earth. Since every country, every city, and every community is unique, the experiences at each port of call will be shaped by the cultures, values, and history of each place.

Though the activities will vary from port to port, they will share common themes that encourage us to take better care of our Island Earth and remind us that we are all connected by the ocean. In addition, each community will have opportunities to see themselves through the eyes of the voyagers by going behind the scenes to learn about traditional methods of seafaring and to get a glimpse of daily life onboard the vessels.

Example Activities in Port:

- Canoe tours of Hōkūle‘a and Hikianalia
- Dockside exhibits and virtual fieldtrips
- Service-learning experiences
- Scientific research projects
- Youth leadership summits and education workshops
- Community gatherings and discussions

Through such activities as these, dockside communities will learn that we are literally sustained by the ocean from the food we eat to the air we breathe, with even the smallest marine creatures supporting our survival. Community members will also engage with the crew in Learning Journeys, which are shared experiences with a person, group, project or place to learn through service. Along the way, crewmembers will exchange stories with each community they visit, in hopes that this collective wisdom will inspire new global lessons.



Clockwise from top left: classmates in Pape‘ete begin their own voyage during education activities; onlookers at a launch ceremony; a classroom presentation; a student creating an Aloha ‘Āina peace flag; a canoe tour; children examining plankton in a cell scope.



## STOP HIGHLIGHT:

The Polynesian Voyaging Society and Hōkūle‘a have a long relationship with the people and places of Tahiti and Ra‘iātea. These are the largest and second largest islands, respectively, in the French Polynesia island group called the Society Islands. Pape‘ete Harbor in Tahiti is the site that Hōkūle‘a sailed to in her first voyage in 1976. Ra‘iātea is a site where navigators historically met to exchange knowledge on wayfinding.



While visiting these islands in 2014, PVS paid tribute to the founding teachers that made the Worldwide Voyage possible: Mau Piailug, Eddie Aikau, Lacy Veach, Herb Kane, Pinky Thompson, Will Kyselka and others.



### 2007

PVS sails to Japan and Satawal, Micronesia on Hōkūle‘a.

Five Hawaiian navigators are initiated into the ranks of master navigator in a Pwo ceremony conducted by Mau Piailug.



### 2007

A month-long sail to Palmyra Atoll is completed as a training sail for the next generation of young PVS navigators.



### 2009



### 2012

Hikianalia is launched for the first time from Auckland, New Zealand.

His Holiness the Dalai Lama conducts a blessing for the Mālama Honua Worldwide Voyage.



### 2012

The Mālama Honua Worldwide Voyage receives its first major sponsorship from Hawaiian Airlines, which pledges to provide air transportation for the crew and sailing supplies.



### 2013



# follow us Support Us

Join our "virtual canoe" at [www.hokulea.com](http://www.hokulea.com) and find out about the many ways you can be involved with the Mālama Honua Worldwide Voyage, sponsored by Hawaiian Airlines.



@HokuleaWWV



facebook.com/hokuleaWWV



## Google Hangouts

Join the crew of Hōkūle'a and Hikianalia in real time as they voyage around the world. Upcoming dates and times for Google hangouts can be found on the "Learning Center" tab of [www.hokulea.com](http://www.hokulea.com).



@HokuleaWWV | #Hokulea, #Hikianalia, #WorldwideVoyage, #MalamaHonua



## Share Your Story

How do you take care of our Island Earth? Submit your story online, see it on the map, and connect with others around the world building positive solutions by visiting <http://learningcenter.hokulea.com>.



## Ask the Crew

Want to learn more about daily life at sea aboard Hōkūle'a and Hikianalia? Visit "Ask the Crew a Question" at <http://learningcenter.hokulea.com>.



## Keep Us Sailing!

Polynesian Voyaging Society deeply appreciates the individual grants, donations and partnerships that help us perpetuate voyaging and sail around the globe for the sake of our ocean and environment. To donate, go to [www.hokulea.com](http://www.hokulea.com), email [donate@pvshawaii.org](mailto:donate@pvshawaii.org), or call (808) 842-1101.



## E-Newsletter

Sign up online for the Polynesian Voyaging Society E-Newsletter to receive updates about the Worldwide Voyage.



## Voyage Blogs

Crewmembers will regularly write blog posts about voyaging, scientific research being conducted on Hikianalia, and how Polynesian Voyaging Society will promote sustainability and a healthy ocean at port cities.



## Voyage Videos

Regular video updates will be available from the decks of Hōkūle'a and Hikianalia, including crewmember profiles, navigation reports, and port activities around the world.

Sending you strength in this journey! Safe travels! Huge mahalos for taking this adventure on! I'm so excited to share the trip with my students at Princess Nahienaena in Maui!!  
-Jamie Green

Wow. Simplicity, strength and sustainability in one sailing trip. Sounds like a fantastic adventure! I look forward to reading about their journeys.  
- Chris Sunflower

I can't tell you enough how much all of you mean to my students and me. There is not a day that goes by that someone in my class does not mention the Hōkūle'a.  
-Cheryl Ann



2013

The Mālama Honua Worldwide Voyage is launched from Hilo, Hawai'i.



2013

PVS celebrates its 40th birthday.

PVS launches the first international leg of the Mālama Honua Worldwide Voyage, sailing Hōkūle'a and Hikianalia to Tahiti.



2014

The planned year of completion of the Mālama Honua Worldwide Voyage, by which time Hōkūle'a and Hikianalia will have visited more than 85 ports and 26 nations.



2017

By the time PVS's latest voyage is complete, it will have touched many people across the world, teaching some and reminding others that we are all connected via our one ocean and that we need to work together to care for it—and, by extension, each other.



*"We are voyaging because what is happening to climate, ecology, and the chemistry of the earth is happening to all of us. There are stories out there of solutions, hope, and leadership. These stories can build a sustainable future, when we come together to protect what we love. That is what Hōkūle'a has always done."*

- Nainoa Thompson

Polynesian Voyaging Society President  
& Master Navigator



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## WORLDWIDE VOYAGE EDUCATION & OUTREACH IMPACT REPORT December 2015

The Education Program aims to advance the goals of the Mālama Honua Worldwide Voyage (WWV) by engaging learners of all ages to join and follow the Voyage, and continue to learn about the world around them to create positive change grounded in both traditional and modern practices. Our hope is to inspire a globally-connected network of learners who are inspired by local and indigenous knowledge and values, and are able to bridge tradition and technology to solve our world's greatest problems.

### HAWAI'I MILESTONES

#### Mālama Hawai'i Sail 2013

During the Mālama Hawai'i sail, Hōkūle'a and Hikianalia reached **over 22,000 children and community members** in Hawai'i through canoe tours, community engagements, community sails, presentations and learning journeys.

**"Promise to Children":** This unprecedented partnership brings together the leaders of Hawai'i's entire public education system from kindergarten to graduate school, the leaders of our largest private education institutions, and the network of private schools for a public purpose. These leaders came together on the deck of Hōkūle'a before the launch to commit to *"...transform our schools, empower youthful voices, and accept the responsibility of mālama honua."*



#### Auckland Education Leadership Summit

University of Hawai'i President David Lassner, Superintendent of the Hawai'i State Department of Education Kathryn Matayoshi, and key thought leaders from Kamehameha Schools, University of Hawai'i College of Education, and Hawai'i's Charter Schools participated in an Education Leadership Summit in Auckland, New Zealand to exchange ideas on cultural pathways in education, and transforming educational practices to bring culture and kindness into education.





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**Promise to Paeʻaina O Hawaiʻi:** This initiative was inspired by the Worldwide Voyage and is led by Hawaiʻi's Harold KL Castle Foundation to bring together individuals and organizations from all sectors to increase the health of Hawaiʻi's oceans by the time Hōkūleʻa and Hikianalia return to Hawaiʻi in 2017. Local government entities, hotels and corporations, schools, and individuals have signed the Promise to Paeʻaina.



**MEd CS STEMS2 Program - University of Hawaiʻi**

This Masters' program was inspired by the Worldwide Voyage statewide teacher professional development program called A'o Hawai'i. This summer, a Masters' Program will be launched from the College of Education at the University of Hawai'i called STEMS2 led by crew members Tara O'Neill (Associate Professor at the College of Education) and Linda Furuto (Associate Professor of Mathematics Education at the College of Education) that focuses on place-based, project-based learning where students emulate the processes of professionals in a variety of fields to design solutions to real world problems in their local and global communities.

**Nā Kelamoku Youth Leadership Initiative Launched**

PVS launched a new Youth Leadership Initiative called Nā Kelamoku which aims to cultivate the next generation of navigators and explorers in Hawaiʻi and around the world. Whether their voyages are on the open ocean, or simply in the way they guide their own lives, these twenty (20) youth, ages 16 to 20, are committed to inspiring other youth locally and globally to mālama honua.







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**PACIFIC MILESTONES**

**FRENCH POLYNESIA**

**Mālama Honua Declaration**

In Tahiti, the Worldwide Voyage prompted over 20 organizations to come together to sign the Mālama Honua Declaration presented to the President of French Polynesia. It calls for joining forces to protect 20% of the marine environment by 2020 and achieve 100% renewable energy by 2030.

**Mālama Honua in Schools**

Over the next 3 years, all primary schools in French Polynesia have committed to integrating the values of mālama honua in teaching and learning.



**AMERICAN SĀMOA**

**American Sāmoa Declaration**

With the arrival of Hōkūleʻa and Hikianalia to the Samoan waters, the American Samoan government shared a declaration committing to being “...good stewards of our natural and cultural environments for the sake and the longevity of our Samoan Culture and the way of life.”

**Voyaging for STEM Program**

The series began as a result of Hōkūleʻa and Hikianalia’s visit to American Samoa, where local teachers came together to learn how to provide quality education focused on the values

of mālama honua. Based on these conversations, crew members Daniel Lin (Pacific Resources for Education and Learning) and Linda Furuto (University of Hawai‘i College of Education) partnered with the NOAA Ocean Center, AS Department of Education, and other community partners to create this Voyaging for STEM program. The first cohort includes 50 K-12 teachers who are committed to being better stewards





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of their community and instilling these values in their students. The aim for this project is to continue annually to reach every science and math teacher in American Samoa.



**SĀMOA**

**United Nations Conference on Small Island Developing States**

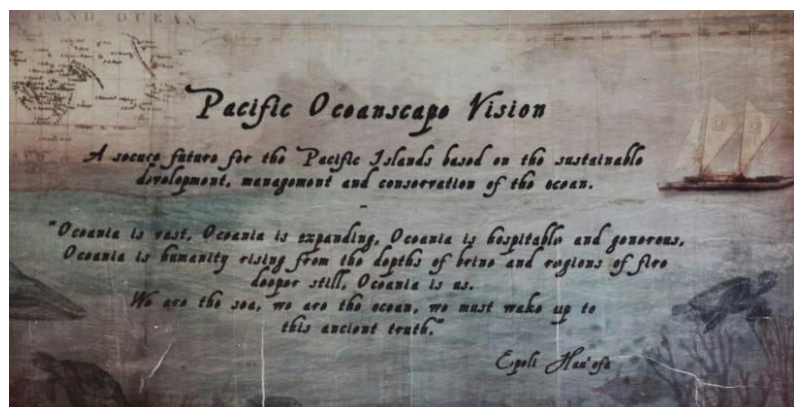
UN Secretary General Ban Ki-moon shared a message in a bottle with Hōkūleʻa stating: “I am honored to be a part of Hōkūleʻa’s Worldwide Voyage. I am inspired by its global mission. As you tour the globe, I will work and rally more leaders to our common cause of ushering in a more sustainable future and a life of dignity for all.”

**AOTEAROA**

**Manaikalani Story of Hope**

2,000+ predominantly Maori and Pasifika students welcomed Hōkūleʻa, Hikianalia, and crew members to Point England Beach, in a celebration of Pacific pride and supporting the next generation of navigators of Island Earth.

Manaikalani, Point England School, and their School Leader Russell Burt are the features of our first full-length Story of Hope educational documentary.



**Palau Declaration on ‘The Ocean: Life and Future’**

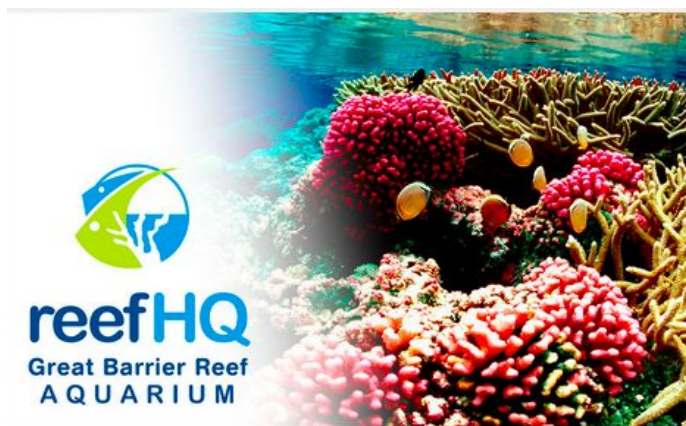
Tommy E. Remengesau, Jr. President of the Republic of Palau and chair of the Pacific Island Forum, presented the Palau Declaration on ‘The Ocean: Life and Future’ for Hōkūleʻa to carry around the world to





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the United Nations for World Ocean Day 2016. President Remengesau stated, “We ask the voyage to carry forward these commitments to bring recognition that the Pacific Ocean and the oceans of the world are the lifeblood of our economies and societies, not only in the Pacific but of our planet.”



**AUSTRALIA**

Hōkūleʻa left the Pacific for the first time in her 40 year history voyaging through the Tasman Sea to the coast of Australia. PVS collaborated with the Reef HQ Aquarium in Townsville to conduct an underwater livestream from the Great Barrier Reef, hosted by a Reef Scientist, for children and other viewers around the world to see. 51 students from Hawaii and Aotearoa participated live in the Hangout, with almost 100 live viewers; close to 250 views of the Hangouts have been recorded via Youtube since the original broadcast. Some schools in Hawaii have

watched the video recording of the livestream as part of their marine studies and social studies lessons. The crew had the opportunity to dive the Great Barrier Reef and learn about a school program called Reef Guardian Schools, where 300+ schools are dedicated to protecting and caring for their reef ecosystem.

**INDONESIA**

In July, 2015, Hōkūleʻa departed Darwin, Australia and began her voyage through the Indian Ocean. The arrival in Bali, Indonesia was a momentous occasion solidifying the Bali-Hawaiʻi Sister State Relationship and reconnecting the Polynesian and Austronesian cultures.

The crew visited The Green School which was voted “Greenest School on Earth” to learn how an entire school is dedicated to inspiring the next generation to become stewards of their environment and community.







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### **MAURITIUS**

After sailing over 3,400 nautical miles from Bali, Hōkūle‘a reached the island of Mauritius. Outrigger Hotels connected the crew with Reef Conservation – a local marine NGO dedicated to educating the Mauritian public and school children about the importance of caring for marine resources. Crew members learned how the tourism industry is working in collaboration with Reef Conservation to ensure a healthy and thriving reef for the future of their island home.

### **SOUTH AFRICA**

After crossing the Mozambique Channel and sailing along the South African coast, Hōkūle‘a safely arrived in Cape Town, South Africa greeted by Archbishop Desmond Tutu and the local community.

A delegation of over 60 students, family and crew members participated in a week-long cultural exchange with local community organizations and schools. The delegation honored Archbishop Tutu as a Great Navigator of Island Earth with a song dedicated to his life of peacemaking and service to humanity.



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## EDUCATIONAL OUTREACH & IMPACT MAY 2014 – December 2015

### **Adopt the Voyage**

On Hokulea.com, we launched an interactive Google Map for schools, community organizations, and individuals to share how they mālama honua in their communities

**174** People have submitted How Do You Mālama Honua stories via our website.







**WORLDWIDE VOYAGE  
EDUCATION & OUTREACH IMPACT REPORT  
December 2015**

**1,368** People are members of the PVS Educator Network, receiving the PVS Education News feed regularly

**630** People from around the world have taken the Oceans Pledge to support our oceans and Island Earth, and inspire people of all ages to do the same

**125** Schools and organizations in Hawai‘i, US mainland, and Aotearoa have been adopted by Worldwide Voyage crew members

Wa‘a Talks have occurred with 500+ educators in Hawai‘i, French Polynesia, American Samoa, Aotearoa, and South Africa around teaching mālama honua values

**16** Canoe-to-conference (large education conferences or workshops) connections reaching 1500+ educators, students, and scientists have occurred

**60+** Videos have been recorded by crew members to answer students’ questions about life at sea and the Worldwide Voyage

**28** Lesson plans and curricula around the values of mālama honua have been shared on Hokulea.com’s Learning Center portal

**60+** Google Hangouts (live video interactions) have occurred between Hōkūleʻa, Hikianalia, crew members and students from Hawaii, US Mainland, Tahiti, Aotearoa, and South Africa.

**35+** Video messages have been sent from Hōkūleʻa and Hikianalia crew to schools and organizations

**60+** Satellite phone calls have occurred between Hōkūleʻa, Hikianalia, and students

**The first** Science on a Sphere simulcast occurred between students at ‘Imiloa Astronomy Center (Hawai‘i Island), Bishop Museum (O‘ahu) and NOAA Ocean Center (American Sāmoa) around the topic of marine science and conservation (September 2014)

**The first** content-driven Google Hangout on Air occurred between students at Kamehameha Schools Kapālama, Kailua Middle School, and Kea‘au Middle School, with Kālepa Baybayan about the Anaweka Canoe discovery and research (February 2015)





## WORLDWIDE VOYAGE EDUCATION & OUTREACH IMPACT REPORT December 2015

**The first** student-led live-stream of a canoe landing/ceremony occurred at Point England Beach led by students of Point England School and the other 11 schools of the Manaiakalani School Programme (March 2015)

**The first** underwater live-stream of a the Great Barrier Reef occurred in collaboration with the Reef HQ Aquarium, Kailua Intermediate School, Point England School (Manaiakalani Cluster) and Nā Kelamokua Youth Leadership Initiative.

**Google Hangout on Air with a Scientist (Dr. Peter Nilssen of Pinnacle Point archaeology research team) reached a total of 100 students and 8 teachers during the live broadcast**

### INTERNATIONAL PORT OUTREACH DATA

Since May 2014\*, we have reached **28,015** students and community members via the following activities:

- Canoe Tours & Dockside Outreach Activities – **7,585** people
- Community Engagements – **11,013** people
- Community Sails – **270** people
- Presentations – **3,882** people
- Learning Journeys – **5,265** people

### VOYAGING MILESTONES

- Hōkūle‘a departs Polynesia for the first time in her 40 year history, voyaging through the Tasman Sea, Indian Ocean and Mozambique Channel.
- Since May 2014, Hōkūle‘a has sailed 17,324 nautical miles and Hikianalia has sailed 10,892 nautical miles.
- Hōkūle‘a and Hikianalia have visited 11 countries, 48 ports, and 28 islands.
- 165 crewmembers voyaged



### SUCCESSION LEADERSHIP TRAINING

- **Leg 2: Hawai‘i to Tahiti** - **10** Apprentice Navigators
- **Leg 3: Society Islands – Cook Islands - American Sāmoa** - **7** Apprentice Navigators Trained





## WORLDWIDE VOYAGE EDUCATION & OUTREACH IMPACT REPORT December 2015

- **Leg 4: American Sāmoa – Sāmoa – Swains Island** - **6** Apprentice Navigators & 4 New Watch Captains
- **Leg 5: American Sāmoa – Tonga – Aoteroa** - **7** Apprentice Navigators & 1 New Watch Captain
- **Leg 7: Auckland to Wellington** - **2** New Watch Captains
- **Leg 11A: Aurere to Brisbane** – **1** Apprentice Navigator Trained
- **Leg 11B: Tahiti to Hawai‘i** – **3** Apprentice Navigators Trained
- **Leg 12: Brisbane to Darwin** – **1** Apprentice Navigator Trained
- **Leg 13: Darwin to Bali** – **2** Apprentice Navigators Trained
- **Leg 13B: Nihoa** – **2** Apprentice Navigators Trained, **1** New Captain Trained
- **Leg 14: Bali to Mauritius** – **1** Apprentice Navigator Trained

### Hawai‘i Outreach Update

October - December 2015

#### HIKIANALIA O‘AHU SAIL

- 7 captains in training
- 66 crew trained
- 58 teachers sailed
- 2,775+ community members reached

#### VOLUNTEER AND CREW TRAINING

- 457+ volunteer hours dedicated to outreach events, presentations and administrative support
- 35 participants in the Fall Level 1 training
- 20 participants in the Fall Level 2 training,

\*Data from Aug. - Dec. 2015



Looking ahead to 2016

- Hikianalia Neighbor Island Outreach and Crew Training: January - March
  - Maui Nui (Maui, Moloka‘i, Lāna‘i)



**WORLDWIDE VOYAGE  
EDUCATION & OUTREACH IMPACT REPORT  
December 2015**

- Hawaiʻi Island
- Kauaʻi
- Continued collaboration with HCC/METC for crew training is scheduled for 2016
  - Spring Level 1 Training begins February 1
  - Boating Safety in February → Escort Training
  - Spring Level 3 Training in April
  - CPR/First Aid in March



## Hikianalia Statewide Sail – August 2015–April 2016

At the end of 2014, PVS announced the new sail plan for Hikianalia. Hōkūle‘a will be continuing on her original sail plan route, while Hikianalia adds 16,000 miles to her voyage, including thirteen (13) months in Hawai‘i, embarking on an education initiative bringing the Worldwide Voyage closer to students, educators, and the public.

As a result the following **Statewide Sail Educational Objectives** were created:

1. Broad Reach
  - a. Reconnect with our children, communities and educators statewide
2. Deep Touch
  - a. Expeditionary Learning
  - b. Youth Leadership Training
  - c. Educator Training
  - d. WWV Crew Training
3. Explore, celebrate and inspire mālama honua “Stories of Hope”
  - a. Revisit communities from 2013 Statewide Sail and document stories of hope in each community
  - b. Find stories about great schools in Hawai‘i practicing the values of mālama honua
  - c. Inspire new students and schools to embark on new voyages into mālama honua practices and projects
  - d. Document and map stories of hope on Hokulea.com

## O‘ahu Outreach Report – September 2015–December 2015

The winter surf and storm systems came early to O‘ahu, affecting its North and West shores as a result several sails and port visits were canceled or adjusted. However we connected with our communities to plan many successful events which connected them to the voyage, these events included school and wa‘a based student engagement opportunities, Wa‘a Talks for educators and Communities days for the entire community. We also provided hands-on learning opportunities for Nā Kelamoku (PVS’ Youth Leadership Initiative) and PVS crewmembers to train on the Wa‘a, as well as train how to conduct outreach events to learners. Over all the O‘ahu outreach was a success as we reached **8 communities**, served **over 1,100 students**, **387 educators** and **1,184 community members**.

Community-Port	Students	Educators	Community	Schools	Wa‘a Talks	Learning Journeys	Youth Leadership	Crew Training
North Shore / Hale‘iwa	-	39	175	-	1	-	4	14
Leeward Coast / Ko Olina	139	45	112	2	1	-	8	12
Waimānalo	594	60	20	6	-	1	4	9
Kailua	-	-	249	-	-	-	4	8
Kāne‘ohe Bay	8	52	296	-	1	1	3	10
Kahana	20	10	88	1	-	-	2	7
Kualoa / Hakipu‘u	8	6	14	1	-	-	4	10
Honolulu / METC	342	175	330	12	1	-	12	87
<b>TOTAL</b>	<b>1,111</b>	<b>387</b>	<b>1,184</b>	<b>22</b>	<b>4</b>	<b>2</b>	<b>41</b>	<b>157</b>

# North Shore / Hale‘iwa

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**PVS Crew Contact/Lead:** Kāmaki Worthington

**Community Contact:** John Bilderback

**Harbor Contact:** Paul Sensano

**Local Knowledge:**

Due to weather and safety concerns we were unable to sail Hikianalia to Hale‘iwa. We did however conduct several successful community outreach events that allowed Educators and the community to learn about the values of the Voyage.

- Sept. 29, 2015 – Wa‘a Talks – Mālama Loko Ea (39 Educators)
- Sept. 30, 2015 – Crew Talk Story – Patagonia Hale‘iwa (35 Community members)
- Oct. 1, 2015 – Community Outreach – Waimea Valley Farmers Market (140 Community members)



**TALK STORY  
WITH THE CREW**

**SEPT 30**  **Patagonia, Haleiwa Store**  
Wednesday, 6:30pm-7:30pm



# Leeward Coast / Ko Olina

**PVS Crew Contact/Lead:** Kaina Holomalia

**Community Contact:** Ko Olina-Ken Williams, Ka Wai Hona-Alvin Parker

**Harbor Contact:** Sean Stone

**Local Knowledge:** Dave Everson

**Media:**

Island Pacific Academy - <https://islandpacificacademy.org/malama-honua-ipa-waa-talk-ko-olina/>

Four Seasons Resort - <https://www.youtube.com/watch?v=EKUpqxKt8yI>

Due to weather and safety concerns we were unable to sail Hikianalia to Pokai Bay and Nanakuli Beach as planned, we did conduct the scheduled outreach out of the Ko Olina Harbor, the Harbor Master and Ko Olina partners were very supportive of our outreach efforts.

- Oct. 15, 2015 – Kawaihona Public Charter School 8<sup>th</sup> Graders – Ko Olina (75 Students, 15 Educators)
- Oct. 20, 2015 – Kamalie Academy 5<sup>th</sup> Grade – Ko Olina (25 Students, 4 Educators)
- Oct. 20, 2015 – Leeward Community College Hawaiian Language Class – Ko Olina (39 Students, 1 Educator)
- Oct. 21, 2015 – Ko Olina Stakeholder Sail – Ko Olina (12 Community members)
- Oct. 22, 2015 – Wa‘a Talks – Ko Olina (25 Educators)
- Oct. 24, 2015 – Community Day – Ko Olina (100 Community members)

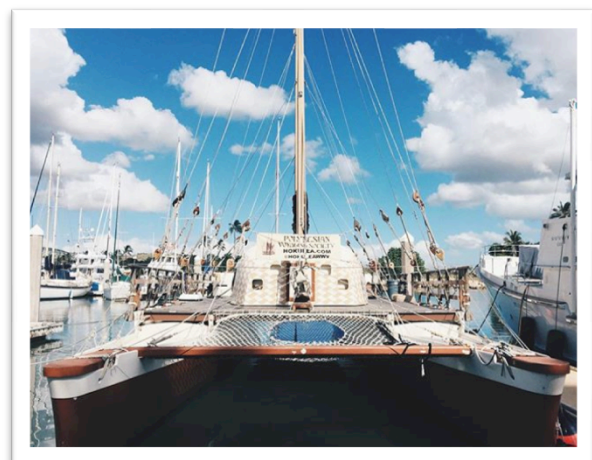


**Hikianalia Visits  
Oahu's Ko Olina Marina**

**OCT 18 - OCT\* 24**

**Sunday, October 18** - Hikianalia Arrival to Ko Olina Marina\*  
**Thursday, October 22** - Educators Wa'a Talks 5pm-7pm  
Register via <http://bit.ly/1JZWqN2>  
**Saturday, October 24** - Community Outreach 10am-3pm  
**Saturday October 24** - Hikianalia Departure from Ko Olina Marina

\* SUBJECT TO WEATHER CONDITIONS.  
FOR DETAILS AND TO TRACK HIKIANALIA IN REAL TIME VISIT:  
**Hokulea.com/Hikianalia**  
**@HokuleaWWV**   



# Waimānalo

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**PVS Crew Contact/Lead:** Keoni Kuoha

**Community Contact:** Denise Espania

**Harbor Contact:** N/A

**Local Knowledge:** Dennis Sallas

Due to weather and safety concerns we were unable to sail Hikianalia to Waimānalo Beach as planned, we did conduct several great outreach efforts at local schools sites and school groups at Waimānalo Beach Park. The crew was also able to participate in a Learning Journey to the Oceanic Institute where they learned about several research projects of sustainability.

- Oct. 26, 2015 – Mālama Honua PCS – Waimānalo Beach (25 Students, 10 Educators)
- Oct. 26, 2015 – Kamehameha Schools Preschool-Waimānalo – Waimānalo Beach (28 Students, 7 Educators)
- Oct. 26, 2015 – Partners In Development-Na Pono – Waimānalo Beach (26 Students, 4 Educators)
- Oct. 26, 2015 – Learning Journey – Oceanic Institute (7 Crew members)
- Oct. 26, 2015 – Hui Mālama o Ke Kai – Waimānalo Beach (20 Students, 4 Educators)
- Oct. 27, 2015 – Waimānalo Elem/Inter – Waimānalo (275 Students, 20 Educators)
- Oct. 27, 2015 – Pope Elementary – Waimānalo (220 Students, 15 Educators)
- Oct. 27, 2015 – Community Day – Waimānalo Beach (20 Community members)





# Kailua

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**PVS Crew Contact/Lead:** Kaleo Wong, Brad Wong

**Community Contact:** Kaleo Wong

**Harbor Contact:** N/A

**Local Knowledge:** Brad Wong

Due to weather and safety concerns our sail plan changed several times, as a result events had to be canceled. However we did have successful community sails and community outreach day. The community of Kailua came out in force to honor and support their Ko‘olau Poko Captains and crewmembers.

- Oct. 30, 2015 – Community Sail – METC to Kailua (12 Community members)
- Oct. 31, 2015 – Community Day – Kailua Beach (225 Community members)
- Nov. 1, 2015 – Community Sail – Kailua to He‘eia (12 Community members)



# Kāneʻohe Bay

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**PVS Crew Contact/Lead:** Bonnie Kahapea-Tanner

**Community Contact:** Bonnie Kahapea-Tanner, Mark Heckman (Moku O Loʻe)

**Harbor Contact:** Ernie Choy

**Local Knowledge:** Danny Bishop, Fritz King (Moku O Loʻe)

**Media:**

Hawaii Institute of Marine Biology - [http://coconutislandnews.blogspot.com/2015/11/the-hikianalia-vessel-visit\\_20.html](http://coconutislandnews.blogspot.com/2015/11/the-hikianalia-vessel-visit_20.html)

Kāneʻohe Bay was a very successful outreach for us we connected with the Koʻolau Poko Hawaiian Civic Club who hosted the crew at Heʻeia Kea Pier. We also had a Learning Journey to Moku O Loʻe and an Educators Waʻa Talks hosted by Kānehūnāmoku Voyaging Academy.

- Nov. 1, 2015 – Community Day – Heʻeia Kea Pier (250 Community members)
- Nov. 2, 2015 – Learning Journey – Moku O Loʻe (12 Crew members members)
- Nov. 2, 2015 – Community Outreach – Moku O Loʻe (40 Community members)
- Nov. 4, 2015 – Community Sail – Moku O Loʻe to Kahana (6 Community members)
- Nov. 5, 2015 – Waʻa Talks – Heʻeia Kea Pier (50 Educators)
- Nov. 6, 2015 – Community Sail – Heʻeia Kea Pier to Kualoa/Hakipuʻu (8 Students, 2 Educators)





# Kahana

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**PVS Crew Contact/Lead:** Naalehu Anthony

**Community Contact:** May Au, Renee Kamisugi, Kahiau Wallace, Kealaulaokamamo Leota

**Harbor Contact:** N/A

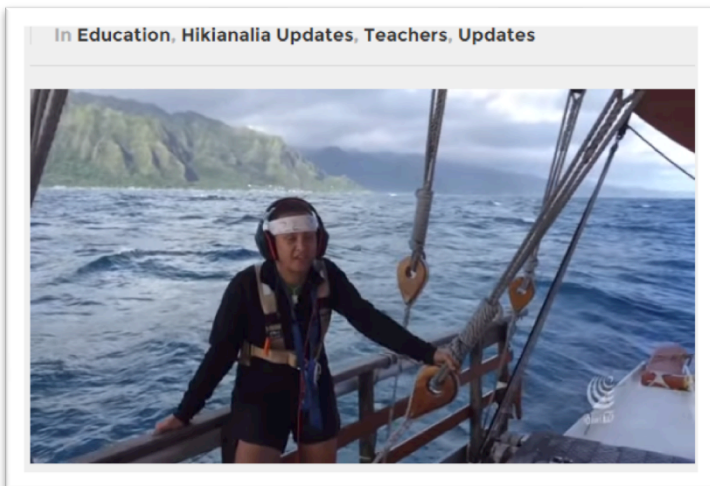
**Local Knowledge:** Ron Johnson

**Media:**

Hokulea.com - <http://www.hokulea.com/hikianalia-update-20151104/>

Due to weather it took us a little longer to get into and secured anchorage at Kahana, as a result our planned Learning Journey with the community was canceled and the focus was to spend more time with on outreach.

- Nov. 4, 2015 – Pūnana Leo o Ko‘olau Loa – Kahana (20 Students, 20 Educators/Parents)
- Nov. 4, 2015 – Community Outreach – Kahana (75 Community members)
- Nov. 5, 2015 – Community Sail – Kahana to He‘eia Kea (3 Community members)



# Kualoa/Hakipu‘u

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**PVS Crew Contact/Lead:** Kaiulani Murphy

**Community Contact:** Hoe Ohana

**Harbor Contact:** N/A

**Local Knowledge:** Kawai Hoe

After speaking with Community members it was decided that the outreach would be small, this included a sail for Hakipu‘u Learning Center students/staff and an opportunity for Hikianalia rest in the waters of Kualoa/Hakipu‘u.

- Nov. 6, 2015 – Hakipu‘u Learning Center – Kualoa/Hakipu‘u (8 Learners, 6 Educators, 14 Community members)
- Nov. 8, 2015 – Community Sail - Kualoa/Hakipu‘u to METC (6 Community members)





# Honolulu / METC

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**PVS Crew Contact/Lead:** Mikiala Akiona

**Community Contact:** PVS

**Harbor Contact:** N/A

**Local Knowledge:** Bob Perkins, Keala Kimura

At the Marine Education & Training Center, we were able to accomplish many educational outreach events, this was in part to the accessibility to Hikianalia (docks) and various available facilities (bathroom, classroom, parking). We did have to cancel several sails due to strong winds, but overall this port outreach was a success.

- Sept. 11, 2015 – National Science Teachers Association Leadership Sail – Mamala Bay (12 Educators)
- Oct. 6, 2015 – Captain/Crew Training Sail – Malama Bay (12 Crew members)
- Oct. 7, 2015 – Kamehameha Schools Professional Development Sail – Malama Bay – (15 Educators)
- Nov. 9, 2015 – Kamehameha Schools Video production Class – METC (17 Students, 1 Educator)
- Nov. 12, 2015 – Wa‘a Talks – METC (40 Educators)
- Nov. 17, 2015 – Punahou Class visit – METC (12 Students, 1 Educator)
- Nov. 24, 2015 – Kamehameha Schools Preschool-He‘e‘eia – METC (38 Students, 27 Educators)
- Nov. 30, 2015 – Kaimuki Library (100 Community members)
- Dec. 1, 2015 – Kamakau PCS – METC (39 Students, 6 Educators)
- Dec. 2, 2015 – Kamehameha Schools 7<sup>th</sup> Grade – METC (107 Students, 8 Educators)
- Dec. 2, 2015 – Kellogg Foundation Visit – METC (10 Community members)
- Dec. 2, 2015 – Honolulu Community College Class Sail – Mamala Bay (18 Students)
- Dec. 3, 2015 – DOE Windward District Behavioral Health – METC (21 Students, 10 Educators)
- Dec. 4, 2015 – DOE Castle Complex Sail – Mamala Bay (12 Educators)
- Dec. 8, 2015 – Kaiser HS Wa‘a Class Sail – Mamala Bay (18 Students, 4 Educators)
- Dec. 10, 2015 – UH Lab School drydock – METC (10 Students, 1 teacher)
- Dec. 11, 2015 – Kanehunamoku Voyaging Academy Dockside Tour – METC (24 Students, 6 Educators)
- Dec. 12, 2015 – UH Ethnomathematics Sail – Malama Bay (40 Educators)
- Dec. 12, 2015 – Community Day – METC (200 Community members)
- Dec. 15, 2015 – Kaiser HS Wa‘a Class Sail – Mamala Bay (18 Students, 4 Educators)
- Dec. 16, 2015 – Nga Tapuwae School tour – METC (20 Students, 8 Educators)

