



PAPAHĀNAUMOKUĀKEA Marine National Monument

A World Heritage Site

# NOAA ONMS Update October 10 – January 9, 2020

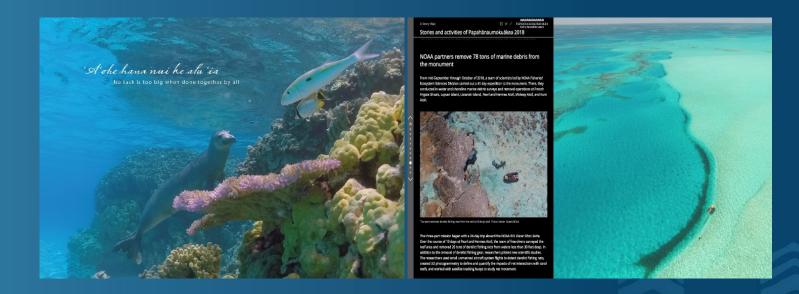
Presented to the NWHI Coral Reef Ecosystem Reserve Advisory Council Presented by: Athline Clark, NOAA Superintendent January 9, 2020







## **PMNM Rolls Out Stories and Activities of Papahānaumokuākea - Story Map**



#### Photo: PMNM's Online Storymap

The Papahānaumokuākea Marine National Monument Management Board (MMB) has produced the Permitted Activities Report annually since 2007. This year is the first year the report is being made available through an <u>online story map</u> intended to have a broader public reach

### Resource Monitor and Media Coordination

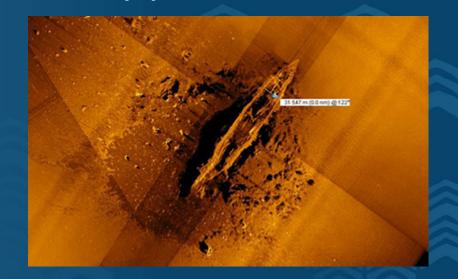


Credit: Athline Clark

#### WWII Japanese warships discovered off Midway by R/V Petrel



Kaga barbette. Credit: R/V Petrel/Vulcan Inc.



Sonar image of Akagi. Credit: R/V Petrel/Vulcan Inc.

# **CONSTITUENCY BUILDING & OUTREACH**



Waikiki Aquarium Marine Educator's Night (100+ teachers) (Credit: Jennifer Crawford) SOEST Open House October 25 & 26 (4,000 students, teachers and community members) (Credit: Jennifer Crawford)



Mokupāpapa Discovery Center's Annual Hilo Black and White Night (almost 2,000 in attendance)

(Credit: Andy Collins)



# Papahanaumokuakea Participates in UNESCO World Heritage Meeting Hosted by DOI

(Credit: Athline Clark)

OPPORTUNITIES IN THE PACIFIC & INSULAR AREAS SHPO TRAINING A Joint Workshop Sponsored by the U.S. Department of the Inter

PMNM Scientist Filmed for Documentary on Sustainably Sourced Seafood

(Credit: Randy Kosaki).







### **PMNM Field Team Oahu Island Wide Education Tour**



(Credit: PMNM Staff and Partners)

# MOKUPĀPAPA DISCOVERY CENTER HIGHLIGHTS



Hawai`i Science and Technology Museum Science Camp. *Credit: Justin Umholtz* 



#### Craft Night Creations Credit: Clayton Watkins



Kamakai at MDC *Credit: Justin Umholtz* 



Waiuli Ocean Festival Credit: Logan @HHS





### Four New Species of Algae Described from PMNM's Deep Coral Reefs

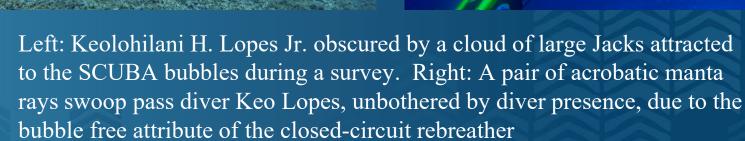




Left: Martensia abbottiae, pressed specimen, Pearl and Hermes Atoll, 305 ft. (Coll.: R. Kosaki, Photo: K. Fujii, NOAA). Right: Martensia lauhiekoeloa,in situ, French Frigate Shoals, 165 ft. (Photo: G. McFall, NOAA).

# PMNM Field Team Members publish paper describing the effects of SCUBA Bubbles on Fish Surveys within the Monument.





(Credit: Andrew Gray).

# **Calendar:**

• When: Sunday, February 16 Ho`ike`ike Pili Kai

• What: Papahānaumokuākea Celebration

Where: Waikiki Aquarium, Honolulu, Oahu (9:00 a.m. – 2:00 p.m.)