



PAPAĀNAUMOKUĀKEA
Marine National Monument

A World Heritage Site

NOAA ONMS Update

September 5, 2018 – February 15, 2019

Presented to the NWHI Coral Reef Ecosystem Reserve Advisory Council
Presented by: Athline Clark, NOAA Superintendent
March 20, 2019





AGENCY COORDINATION



A learning exchange between ONMS/PMNM and Juan Fernández Islands, Chile



Top left: The PMNM staff facilitated a guided tour at the Honolulu Fish Auction. Top right: Keoni Kuoha with the nonprofit organization Papahana Kuaola, and former ONMS/PMNM employee, shows the traditional boundaries of He'eia, site of the National Estuarine Research Reserve on the island of O'ahu. Lower left: ONMS/PMNM Field Team discusses the field work and advanced technologies used to conduct research, monitoring and resource protection projects in the Monument to the Chilean delegation. (Credits: Kalani Quiocho)

Lower left: Delegation members and PMNM staff and partners. (Credit: Lucy Kaneshiro)

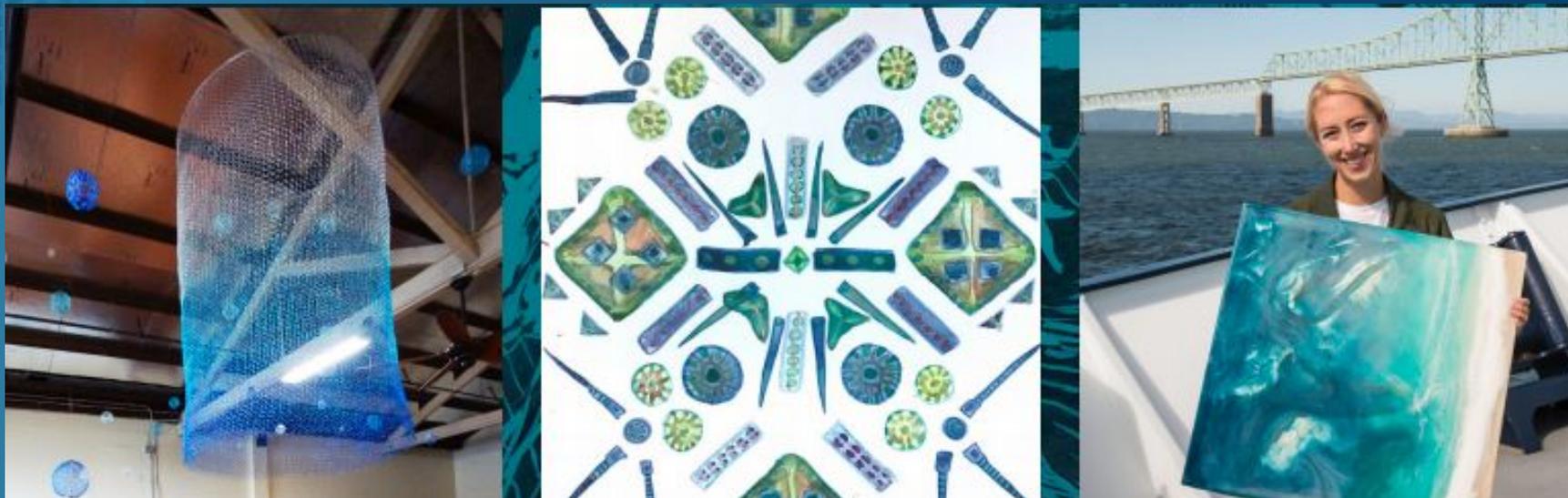


CONSTITUENCY BUILDING & OUTREACH



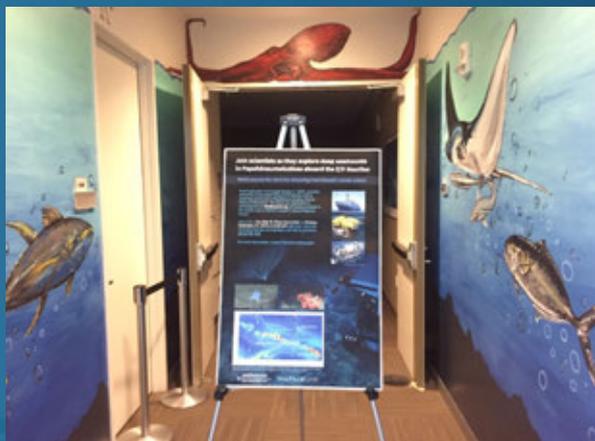


Science at Sea art exhibit at Mokupāpapa Discovery Center



Highlights from the exhibit at Mokupāpapa Discovery Center (Credits: Andy Collins/NOAA)

ONMS/PMNM supports E/V Nautilus outreach from Papahānaumokuākea



ONMS/PMNM supported live ship-to-shore interactions with the E/V Nautilus at Maui Ocean Center (left) and NOAA's IRC (right). (Credits: Toni Parras/NOAA)



EDUCATION





MOKUPĀPAPA DISCOVERY CENTER HIGHLIGHTS



Hilo's 18th annual Black and White Night



From left: MDC staffer greets Black and White Night visitors; the Big Island Bee Keepers Honey Tasting Competition was sweet!; a live hula performance from Na Hoaloha and Mikioi Band drew in the crowd (Credits: Andy Collins/NOAA)

On December 12th Mokupāpapa Discovery Center welcomed its 800,000th visitor



Mokupāpapa greets its 800k visitor from Webster, NY. From left: MDC Volunteer Pat Richardson, Richard and Joyce Henzel, MDC Manager Andy Collins. (Credit: Virginia Branco/NOAA)



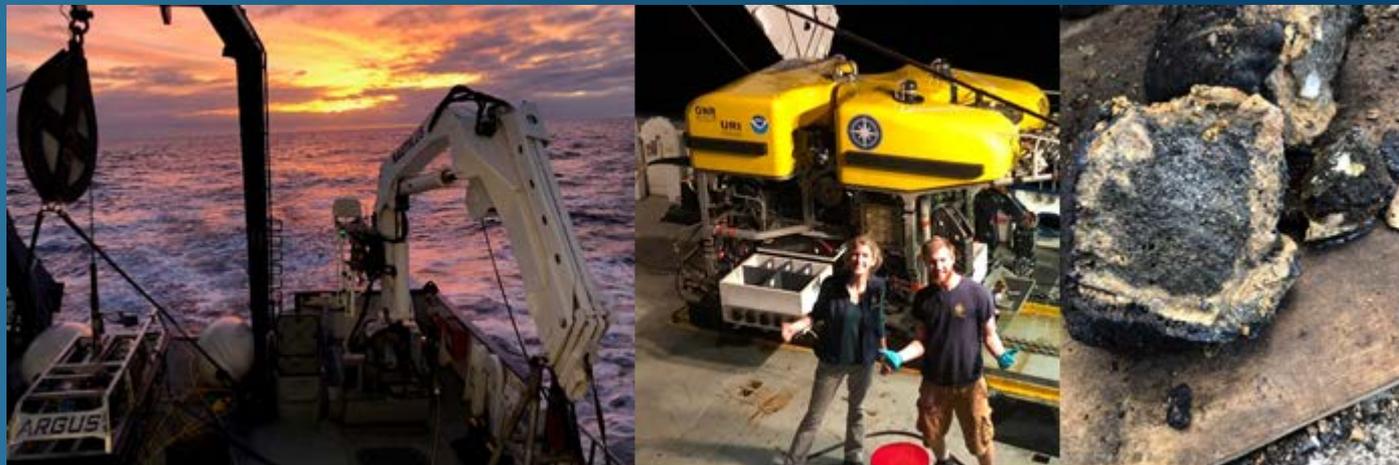
Families love painting/glazing their own PMNM-themed ornaments, custom crafted by Kīlauea Pottery. (Credit: Clayton Watkins/NOAA)



FIELD & RESEARCH



E/V *Nautilus* Completes the “Enigmatic Seamounts” Expedition in PMNM



Left: The final sunset as the E/V Nautilus heads east to Honolulu. Center: Team members celebrate the last ROV dive of the expedition. Right: Rock samples showing the outer manganese crust, some alteration, and an inner basalt core that will hopefully allow for accurate radiometric dating. (Credits: Justin Umholtz/NOAA)

Researchers Return From Brief Expedition in Main Hawaiian Islands



ONMS/PMNM Chief Scientist Randy Kosaki conducts a fish transect on a closed-circuit rebreather at 240 ft. off Ni‘ihau, Hawai‘i. The dramatically shortened cruise was not able to access the NWHI. (Credit: Rich Pyle/Bishop Museum)

ONMS/PMNM Flyover of French Frigate Shoals to assess damage from Hurricane Walaka



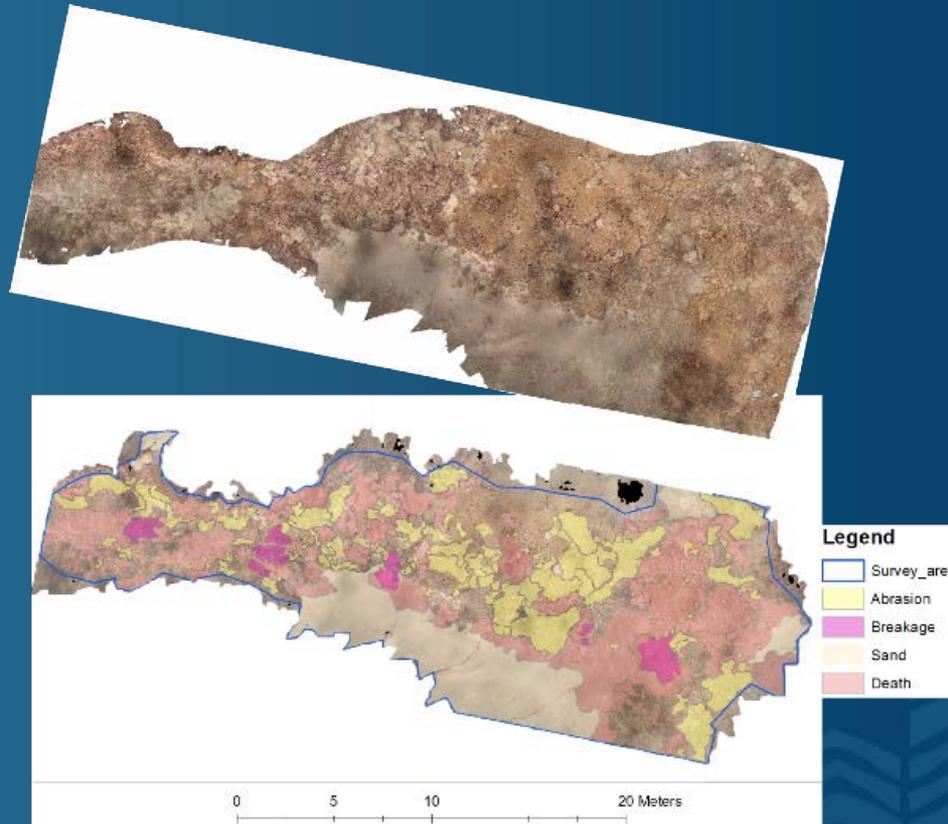
Above: LTJG Terril Efird (second from left) takes a series of images from the USCG C-130 used to create a 3D image which can be used to quantify storm damage. (Credit: Keo Lopes)

Papahānaumokuākea and Partners Host Science Symposium



Top: More than 200 attended the symposium in Honolulu, with 46 speakers (Credit: Sarah Marquis/NOAA); bottom: Keynote speaker Michael Seki at the science symposium. (Credit: Kahi Fujii/NOAA)

ONMS/PMNM Scientists and Hollings Scholar Publish Paper on 3D Photogrammetry of Coral Reefs



Caption: 2D representation of an annotated orthophotomosaic of damage to the reef resulting from a 2015 weather buoy grounding at Lisisanski Island, NWHI. (Credit: John Burns/Univ. of Hawai'i at Hilo)

Staff Changes:

New Staff

Malia Evans, Education Specialist at Mokuapāpapa Discovery Center

Jennifer Crawford, Education Specialist Oahu

Nikki Mew, Administrative Assistant I

Departures

Caroline Jackson, Administrative Assistant I

Calendar:

- **Schmidt Ocean Institute Artist at Sea Exhibition Closing Celebration**

Thursday, March 21, 2019, 6:00-8:00 PM at Mokuapāpapa Discovery Center, Hilo

- **Moloka‘i Earth Day**

Friday, April 19, 2019, 5:00 pm to 9:00 pm at Mitchell Pau‘ole Center in Kaunakakai

- **Earth Day Aloha ‘Āina Festival**

Saturday, April 20, 2019, 10:00 am to 3:00 pm at the Honolulu Zoo

- **Mauka to Makai (Earth Day)**

Saturday, April 20, 2019, 9:00 am to 2:00 pm at the Waikīkī Aquarium