

Guam Community Coral Reef Monitoring Program

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(FY16) 556 Community Monitoring Program Coordination for Guam

Principal Investigator:

Valerie Brown

The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY

**Sunday, January 15, 2017
2:00 PM**

T. Stell Newman Visitor Center

Sean Moran

***Life history parameters and the evolutionary genetic status of
Anguilla marmorata from Guam***

Sean Moran, a UOG graduate student, will share his project that looks into the life history and population genetics of an eel living in Guam's streams (*Anguilla marmorata*). Eels comprise a valued subsistence fishery on the island of Guam and are also part of a worldwide commercialized fishery. There is little known about eels' life histories and where the individuals from Guam spawn. These eels have inspired legends and mythology around the world. Come visit and take an in-depth look into the lives and science of these creatures.

***For more information, please email
gureefmonitoring@gmail.com or call 646-1905***



The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY

Sunday, February 19, 2017
2:00 PM

T. Stell Newman Visitor Center

Photo courtesy of Christine Fejeran

Establishing a Community-based Firewise Movement for Guam

What does it mean to be a Firewise Community? What is Guam's fire story? How are we as a community impacted by wildfires and what can we do to prevent them? Christine Fejeran, Fire Program Manager with Guam Department of Agriculture's Forestry and Soil Resources Division will discuss the impacts and threats associated with wildfires and how every village can make a difference - "*Munga masongge Guåhan, Don't burn Guam!*"

***For more information, please email
gureefmonitoring@gmail.com or call 646-1905***





Guam Community Coral Reef Monitoring Program

Schedule March-April 2017



Activity	Date	Time	Location
Class Training Learn more about Guam's coral reefs and how to conduct surveys.	Saturday, March 18	10am – 12pm	NOAA Fisheries Office, Tiyan
	Wednesday, March 22	4 – 6pm	NOAA Fisheries Office, Tiyan
	Wednesday, March 29	4 – 6pm	NOAA Fisheries Office, Tiyan
In-water Training Practice survey methods in-water and identify sea creatures on site.	Saturday, April 1	9 – 11am	Tepungan Beach Park, Piti
Combo Training Single session Class and In-water Training.	Saturday, April 8	2:30 – 5:30pm	Meet next to Merizo Basketball court/ Parking lot

Sign up online at guamreefmonitoring.wordpress.com



For more information, call 646-1905 or email gureefmonitoring@gmail.com

The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY

Sunday, March 19, 2017
2:00 PM

T. Stell Newman Visitor Center @consagavisualarts

Biba Mes Chamoru: The Science behind Traditional Seafaring and Navigation

The ancient tradition of navigation and seafaring is a cultural cornerstone that was key to establish our indigenous societies in the Pacific. Today, the revival of traditional navigation has united many island cultures and their respected and highly skilled navigators. In celebration of *Mes Chamoru* (Chamorro Month), Ignacio "Nåsh" Camacho, a Chamoru traditional navigator, will talk about his seafaring experience and give insight on the science behind navigation using knowledge of the stars, ocean, and winds.

***For more information, please email
gureefmonitoring@gmail.com or call 646-1905***



The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY

Sunday, April 23, 2017

2:00 PM

T. Stell Newman Visitor Center

Reef Patrol

SCORE International and Project Guam

The University of Guam Marine Laboratory and Underwater World hosted an international coral restoration workshop this month. The Workshop is part of the Global Coral Restoration Project initiated by SCORE International, the California Academy of Sciences and the Nature Conservancy in 2017 to advance the science, technology and application of innovative coral restoration techniques. Richard Ross from the California Academy of Sciences, Kemit-Amon Lewis from the Nature Conservancy, and Mitch Carol from the Henry Doorly Zoo, will share some of their experiences with coral propagation and reef restoration efforts. Learn about participants' hands on training in coral reef propagation techniques and insight into coral spawning activity in two of Guam's important staghorn *Acropora* species.

***For more information, please email
gureefmonitoring@gmail.com or call 333-4050***



The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY



Let's Cruise: What's it like on a MARAMP Cruise?

NOAA Scientists embark on the Mariana Archipelago Pacific Reef Assessment and Monitoring Program (MARAMP) Cruise every three years. Their findings inform local reef management and marine scientists about the conditions of our coral reefs, which include coral cover, fish biomass, and more. Learn more about life on a scientific cruise, their findings from surveying coral reefs around the Mariana Islands, and the general changes they've observed on coral reefs in the Pacific.

***For more information, please email
gureefmonitoring@gmail.com or call 333-4050***





CORAL REEF MONITORING TRAINING

Saturday, May 20th

1:00 – 4:00PM

Tepungan Beach Park, Piti

Free training to learn how to do in-water surveys that tell us about reef health conditions. Learn more about Guam's reefs and the challenges they face.

Wear swim clothes, sun protection, and tabbies or other closed-toe shoes. Don't forget to bring you water bottle. Participants 13 years and under must be accompanied by adult. Participants 18 and under must have parent/guardian sign liability release form.



Sign up at guamreefmonitoring.wordpress.com.

Email gureefmonitoring@gmail.com or call 646-1905 for more information.

The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY



Sunday, May 21, 2017

2:00 PM

T. Stell Newman Visitor Center

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**GINEFTAO: The Use of Modern Aquaculture Techniques to Enhance the
Ancient Chamorro Tradition of Harvesting Mañāhak**

The Chamorro practice of Gineftao can be translated into “the act of giving back”. For thousands of years, Chamorro fishermen have harvested newly-recruited scribbled rabbitfish (mañāhak) for sustenance and as a delicacy for generations. With this protein source as a major part of our spring diet, sustaining these fish has cultural and socio-economic benefits for the people of Guam. Unfortunately, annual catches of rabbitfish have been on the decline. Frank Camacho Roberto, a local graduate student of UOG’s Marine Lab, will present his study in which he adapted modern aquaculture techniques for the scribbled rabbitfish (*Siganus spinus*) to improve growth rates of this species in captivity as a way to address overfishing and enhance wild fish stocks that will perpetuate local fishing practices through restocking. Through these techniques, we can exercise our indigenous practice of Gineftao and give back to the ocean and maintain what she has provided us for thousands of years.

***For more information, please email
gureefmonitoring@gmail.com or call 333-4050***



CORAL REEF

MONITORING TRAINING

Looking for something new to do this summer? Learn how to do in-water surveys and practice on the reef flat. If you're a member, come out and help collect data with other members. Snorkel gear and life jackets will be available to borrow at this event. All participants must sign Liability Release form. If under 18, parent/guardian must sign form. Participants under 14 must be accompanied by parent or other trusted adult.

Saturday, June 17

9:00am – 12:00pm

**Meet near Merizo basketball
court & parking lot**

*Sign up online at
guamreefmonitoring.wordpress.com*

*For more information, call 646-1905 or
email gureefmonitoring@gmail.com*



The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY

Sunday, June 18, 2017

2:00 PM

T. Stell Newman Visitor Center

Come and meet Dalia Hernandez-Ortiz!

Pohnpei, like many other small island nations, has seen major decline in their reef fisheries over the past few decades. Dalia Hernandez-Ortiz, a graduate student at the University of Guam Marine Laboratory, is focusing on Pohnpei's coral reef fisheries. Hernandez-Ortiz, has been conducting fisheries research across Micronesia since 2013. Yet, monitoring fish species caught and sold at markets remains rare. This type of monitoring is a fundamental need in order to improve fisheries management. Hernandez-Ortiz and her colleagues did extensive sampling of fisheries landings and conducted socioeconomic surveys of commercial fishing activities. Learn more about their findings that provided new insights into Pohnpei's reef fisheries. This effort contributed to tailored outreach and enforcement to maximize returns with limited resources.

***For more information, please email
gureefmonitoring@gmail.com or call 333-3040***



The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY

Sunday, July 16, 2017

2:00 PM

T. Stell Newman Visitor Center

Photo by Alexis Sturm

Examining Physical Impacts and Coral Disease Along Human Use Gradients in Tumon Bay

While resource managers assume recreational overuse contributes to declining coral conditions, it is challenging to measure such impacts on reefs. Tumon Bay, Guam's tourism hub, is a case in point. In 2016, Alexis Sturm and Whitney Hoot paired coral condition surveys with a human use surveys to understand patterns between coral damage and disease, and recreational use. Human use surveys documented where people conducted activities in the bay, and showed a significant connection between coral health condition and human use intensity. We are currently analyzing coral data in the context of the human use data. Hoot will present study results that can help manage recreational impacts, which are currently unregulated. This may serve as a model for other high-use coral reef areas to better document the scale and intensity of recreational impacts. This information will be invaluable to protecting resources as Guam strives to host 2 million tourists annually.

**For more information, please email
gureefmonitoring@gmail.com or call 333-3040**



The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

SCIENCE SUNDAY

Sunday, August 20, 2017
2:00 PM

T. Stell Newman Visitor Center

NOAA

Come and meet our Summer Interns!

This year's GCCRMP Summer Interns Brittany Tominez, a Biology major and Rita Taitano, a Communications major, from the University of Guam will share what they've been working on this summer. Their intern project examined coral bleaching impacts in coral habitats near Merizo Pier. Specifically, Tominez and Taitano conducted monitoring surveys to compare corals and macroinvertebrates that are closer to a freshwater outlet and biological communities farther away from a freshwater outlet. Learn more about their study as well as their personal experiences gained from their summer internship.

***For more information, please email
gureefmonitoring@gmail.com or call 333-4050***





Monitoring Survey Schedule

GCCRMP Members – we need your help. Sign up to conduct benthic and macroinvertebrate surveys on any of these dates.

Date	Time	Location
Saturday, August 19	10:30am – 12:30pm	Tepungan Beach Park, Piti
Saturday, September 2	3:00 – 5:00pm	Merizo (meet near basketball court and parking lot)

*For more information, please email
gureefmonitoring@gmail.com or call 646-1905*

The Guam Community Coral Reef Monitoring Program
& National Park Service Present

A Science Sunday special...

A NETFLIX ORIGINAL DOCUMENTARY

CHASING CORAL



What lies below,
reveals what lies ahead.

Sunday, September 17, 2017
2:00 PM

T. Stell Newman Visitor Center

A Community Film Screening

Guam's relationship with the ocean and coral reefs are foundation to our island culture, beauty, and economy. How will climate change affect our coral reefs? Join us for this special Science Sunday program to view the Netflix documentary, Chasing Coral. After the film, a National Park Service biologist will lead a Question & Answer Session with the audience.

Official Film Synopsis: Coral reefs around the world are vanishing at an unprecedented rate. Divers, photographers and scientists set out on an ocean adventure to discover why the reefs are disappearing and to reveal the underwater mystery to the world.

***For more information, please email
gureefmonitoring@gmail.com or call 646-1905***



Free Film Screening “Chasing Coral” on September 9

FOR IMMEDIATE RELEASE – August 31, 2017

Contact: Marybelle Quinata, marybelle.quinata@noaa.gov, 646-1905

The public is invited to attend a free film screening of *Chasing Coral* on Saturday, September 9 at 2:00PM at the Guam Museum Auditorium. *Chasing Coral*, a Netflix documentary, highlights coral bleaching, climate change, and the vital role of coral reefs ecosystems for coastal communities. The event will be hosted by Humanities Guåhan and the Guam Museum in partnership NOAA Fisheries and University of Guam Marine Laboratory.

Chasing Coral will launch Humanities Guåhan’s Film Forum Series in conjunction with the new *Hita I Hanom, We Are Water* exhibit at the Guam Museum. *Hita I Hanom* expresses the multifaceted meaning and value of water to our island societies as well as the revitalized respect for the natural environment and its protection. After the film screening, a panel discussion will follow to highlight coral bleaching and climate change impacts to Guam’s coral reefs and the community, such as the practice of fishing and our local tourism industry. Before and after the screening, an outdoor Mini Expo will feature different programs and organizations with opportunities for community members to get involved with protecting our island’s coral reefs.

Guam’s coral reefs are experiencing a mass coral bleaching right now. Coral bleaching occurs when high ocean temperatures cause corals to stress and lose their color. Bleached corals become weak, more vulnerable to disease, and may die if they do not recover. Guam has experienced mass coral bleaching events in 2013, 2014, and 2016 that contributed to significant loss of Guam’s branching staghorn corals. The *Chasing Coral* film screening event will give an opportunity for coral reef experts, educators, and the community to have a broad conversation and knowledge exchange about potential climate change effects to our island’s marine resources.

This event is free and open to the public and will be on a first come, first served basis. No advanced reservations will be accepted. The film is 93 minutes. Closed captioning will be provided. The entire event will be from 2:00 until 5:00PM. You can come early to visit the *Hita I Hanom, We Are Water* exhibit and the Mini Expo prior to showing. The Guam Museum is open from 10:00AM to 5:00PM on Saturdays.

For more information on the film screening, please contact NOAA Fisheries at 646-1905 or email marybelle.quinata@noaa.gov.

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FREE FILM SCREENING

In conjunction with their *Hita I Hånom* exhibit, Humanities Guahån and the Guam Museum together with NOAA Fisheries and UOG Marine Laboratory present the film screening of *Chasing Coral*.

A film discussion with coral reef experts and enthusiasts will follow. Visit our Mini Expo just before or after the screening to find ways you can help protect Guam's coral reefs.

*Saturday, September 9
2:00PM
Guam Museum Auditorium*

Guam's relationship with the ocean and coral reefs are foundation to our island culture, beauty, and economy. How will climate change affect our coral reefs?

Film Synopsis: Coral reefs around the world are vanishing at an unprecedented rate. Divers, photographers and scientists set out on an ocean adventure to discover why the reefs are disappearing and to reveal the underwater mystery to the world.

Special Thanks to:



Science Sunday

**Sunday, October 15, 2017
2:00 PM**

T. Stell Newman Visitor Center

D. Burdick

Coral Bleaching on Guam: An Update from Guam's Coral Reef Response Team

Coral bleaching has grown into a global concern and continues to fuel international conversations about climate change. But, how has coral bleaching affected Guam's coral reefs? Members of the Guam Coral Reef Response Team will update the community on coral bleaching impacts to Guam's coral reefs. The nearly annual mass bleaching events experienced by Guam since 2013 will be discussed and reports made by the local community through the Eyes of the Reef Marianas program will be shared. Get a chance to ask questions directly to Guam's Response Team members!

***For more information, please email
gureefmonitoring@gmail.com or call 333-4050***



The Guam Community Coral Reef Monitoring Program
& National Park Service Present Science Sunday...

Traditional Fishing on Guam

By Judith R. Amesbury

Micronesia Archaeological Research Services

Sunday, November 19, 2017

2:00 PM

T. Stell Newman Visitor Center

Come and Meet Judith Amesbury!

Fishing on Guam is part of Guam's Chamoru cultural heritage and remains an important family pastime. Judith Amesbury, an archaeologist with Micronesia Archaeological Research Services, will show her short documentary *Traditional Fishing on Guam: Chamoru Chenchulu' Fishermen*. In the film, Ray Topasna, John Ray Aguon, and Bobby Alvarez, local Chamoru fishermen share their stories and knowledge from years of experience fishing Guam's waters. Amesbury has spent much of her career researching and documenting ancient Chamoru fishing traditions. A question and answer session (and story sharing) will follow the film. The film is 30 minutes.

***For more information, please email
gureefmonitoring@gmail.com or call 646-1905***



The Guam Community Coral Reef Monitoring Program
& National Park Service Present...

Science Sunday

Sunday, December 17, 2017

2:00 PM

T. Stell Newman Visitor Center

Photo courtesy of Lieve Dierckx

Lieve brings her passion for Green Roofs to Guam

Green roofs on Guam? Not yet, but maybe in the near future. Lieve Dierckx, an environmental engineering student at the University of Sciences in Wädenswil, Switzerland will talk about her green roof pilot project with University of Guam's Center for Island Sustainability. Dierckx will share the history of green roofs and examples from around the world as well as discuss benefits and possible challenges for green roofs on Guam. Local colleagues at the Center for Island Sustainability will support her with selecting the best materials and native, and even edible, plants for this exciting local green roof project, which involves a lot of creativity and fun throughout the process.

***For more information, please email
gureefmonitoring@gmail.com or call 646-1905***

