

THE KWAJALEIN HOURGLASS



THIS WEEK

CHESS FERVOR
BEGINS WITH STUDENT CLUB 2

HEALTH UPDATES
THE LATEST ON COVID-19 3

SPARTANS WIN
2020 WATER POLO SEASON 6

SPARTAN ZACH HILL, RIGHT, DEFENDS THE BALL FROM TURBO TURTLE BRUCE PREMO, LEFT, DURING THE 2020 INNER TUBE WATER POLO CHAMPIONSHIP GAME FEB. 25.

 JESSICA DAMBRUCH



📷 COURTESY OF MISTI FRENCH

George Seitz Elementary School students play chess together. The students have formed a chess club that will sponsor matches with schools on Ebeye.

CHESS IS ELEMENTARY ON KWAJ

BY JESSICA DAMBRUCH

George Seitz Elementary School students are leading a cultural exchange initiative that has outgrown the school campus and is bringing together tabletop gamers on Kwajalein and Ebeye. The vehicle for the fun is a timeless strategy game—chess—and it’s all the rage. Spearheaded by student leaders in the George Seitz Elementary School Student Council, the GSES Chess Club has moved beyond regular student meetups to host two rounds of its first open free-play event, “Just Chessin’ Around.” Meanwhile, students continue fundraising efforts to purchase chess sets to donate to schools on Ebeye. Read on to learn more about the recent chess craze in the Marshall Islands.

THE FIRST MOVE

As GSES teacher Misti French got to know last year’s students, she discovered several of them enjoyed chess. As an educator, French knew chess is recognized internationally as a teaching tool. Still, she had never before seen students clamor to play. As interest grew and players connected, signs of chess fervor manifested around the campus. Students challenged each other to chess matches during their free time, on breaks and after school. Eventually, they formed the GSES Chess Club. Since its inception, the club has accepted 10 wooden chess sets donated by the community.

The chess club is a success; however, only a few of its members knew that every day on Ebeye, student chess players also gather to play. They convene on class breaks and after school. If there is no chessboard to be had, chess sets are invented with spare objects. Serious chess is played. In hindsight, maybe it was only a matter of time before the two groups were destined to meet.

CHESS ON EBEEY

On lunchroom monitor duty one afternoon, French saw Marshallese Rikatak students drawing their own gameboard grid on a large piece of paper. The rest of their lunch period was spent thoroughly engrossed in chess. GSES student Synia Kabua explained chess was a favorite pastime of the late Iroijlaplap President Imata Kabua.

Kwajalein Army Post Office employee Isaac Larios also remembers Kabua and his legendary chess matches. “He loved chess,” said Isaac Larios of the leader. “He would invite people to visit his home and challenge them to play. If they beat him, there was a reward.”

It wasn’t long before the GSES Student Council determined that they needed to play chess with Ebeye students and to get those students their own gear. That would mean supplying students on Kwaj and Ebeye with game equipment and finding a way to get everyone together to play. It wasn’t going to be an easy task. For the GSES chess players, it was game on.

FUNDRAISING ACTIVITIES

The Kwaj students went to work. To raise money to purchase their chess gear, the GSES Student Council conducted fundraising activities and service projects. Much of their funding was raised through activities at Kwajalein events and Kwajalein School System activities such as the 2019 Valentine’s Day candygram orders. If you purchased homemade apple cider during the 2019 Tree Lighting Ceremony, you probably helped fund a chess set.

French said students are overjoyed at the chance to share.

“My students were excited to learn that we had an opportunity to play with Ebeye students—that we could get together and game,” said French. Partnering in that effort is GSES sixth-grade teacher and Chess Club Co-Sponsor Stephen Robin.

Because the student council chess sets are purchased by a student organization, they can also be freely donated. Five chess sets have already been sent to Ebeye schools for students to use before visiting Kwajalein for a sponsored chess tournament in the upcoming months.

UNEXPECTED OUTCOME

“It turns out we have more interested in playing chess than [the] students,” French said.

French began receiving lots of emails about the chess club from Kwajalein adults. They wanted to know when the next meetup was and when they could play. None had realized the club was limited to students. The mere possibility of an island chess club forming was too exciting.

Rather than turn adult and non-student opponents away, the chess club students opted to sponsor free-play events. More than 30 participants turned up at the January Emon Beach main pavilion to participate in the two-hour event “Just Chessin’ Around.” Adults have continued to visit. Kwajalein homeschoolers have also joined in the fun.

THE NEXT MOVE

With the help of community volunteers, students from Ebeye will be sponsored to visit Kwajalein for the upcoming student chess tournaments. The “Just Chessin’ Around” meetups will continue at Emon Beach.

“Those wooden chess sets have come in handy and are the students’ favorites,” said French. “The pieces don’t blow around [in the wind].”

All interested chess players are encouraged to contact French and Robin for more information on upcoming play dates. Call the GSES Office for more information at 5-3601.

Spread the word, Kwaj. Come out and play.

THE KWAJALEIN HOURGLASS

The Kwajalein Hourglass is named for the insignia of the U.S. Army’s 7th Infantry Division, which liberated the island from the forces of Imperial Japan on Feb. 4, 1944. The Kwajalein Hourglass is an authorized publication for military personnel, federal employees, contractor workers and their families assigned to U.S. Army Garrison-Kwajalein Atoll.

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Communications Specialist.....Jessica “JD” Dambruch

2019 NOVEL CORONAVIRUS
UPDATED INTERIM HEALTH TRAVEL ADVISORY
AND RESTRICTIONS AS OF FEBRUARY 28, 2020

Protect Yourself, Your Family,
and Your Co-Workers from
Colds, Influenza and COVID-19

Here are a few simple everyday
preventive actions to help pre-
vent the spread of respiratory
viruses.

- Wash your hands often with soap and water for 20 seconds or use hand sanitizer
- Avoid touching your eyes, nose, and mouth with unwashed hands
- Avoid close contact with people who are sick

If you are sick, you should:

- Stay home
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash
- Clean and disinfect frequently touched objects and surfaces
- If you recently traveled and feel sick with fever, cough, or difficulty breathing.

Call the Kwajalein Hospital and ask to talk to the Triage Nurse (5-2224) or the Public Health Nurse (5-8836) for information

The Republic of Marshall Islands is implementing the following inbound travel restrictions for visitors to RMI, effective February 28, 2020:

Suspension of all air and sea travel from the People’s Republic of China, Macau, Hong Kong, South Korea, Italy, Japan and Iran. This restriction has been assessed to mitigate the risk of COVID-19 importation to the RMI. This applies to any traveler who originated from or traveled through any of the restricted countries after December 31, 2019.

If you travel or transit through any of these countries, you will not be allowed to enter the Republic of the Marshall Islands until further notice.

Upon returning to the Marshall Islands, please cooperate with the public health officials at the airport.



Department of Defense personnel are encouraged to visit the Centers for Disease Control online the most accurate and up-to-date information on the global status of COVID-19.

CORONAVIRUS

PUBLIC SAFETY ANNOUNCEMENT

All Department of Defense personnel are encouraged to follow the guidance put out by the Office of Personnel and Readiness and the Centers for Disease Control and Prevention. www.cdc.gov.

Coronavirus and What We Know

- 2019 Novel Coronavirus (2019-nCov) is a virus identified as the cause of an outbreak of respiratory illness first detected in Wuhan, China.
- At this time, it is unclear how easily this virus is spreading between people.
- There are no FDA approved antiviral treatments available for this coronavirus yet.
- Anyone contracting a respiratory illness should not assume novel coronavirus; it is far more likely to be a more common malady.
- However, patients who traveled to China in the past 14 days who are now experiencing symptoms of fever, cough, or difficulty breathing, should seek medical care right away.
- The World Health Organization declared a Public Health Emergency of International Concern because of the virus’ capacity to spread globally. (Jan. 30).
- The Department of Health and Human Services declared a public health emergency for the entire United States to aid the nation’s healthcare community in responding to 2019 novel coronavirus (Jan 31).

General Talking Points

- DOD officials are closely monitoring the outbreak of the virus, first detected in Wuhan, China.
- We closely coordinate with our interagency partners to ensure accurate and timely information is available and encourage all appropriate measures are taken to limit the virus’ spread.
- Commanders of individually affected geographic commands will issue specific guidance to their forces.
- The Department of Health and Human Services (HHS) and the CDC are the federal government leads for the response to the virus – DOD is only providing support as needed.

Department of State Guidance

- Due to the threat of novel coronavirus, the Department of State recently adjusted the travel advisory for China to a Level 4, meaning individuals should not travel there.
- Additionally, the Department of State has requested that all non-essential U.S. government personnel defer travel to China.

Prevention Tips

The CDC and DOD have issued guidelines on prevention and we encourage all DOD personnel to follow those guidelines. www.cdc.gov

Q1. How does the virus spread?

A1. This source of the virus is still under investigation but there is evidence of person-to-person transmission, even when no symptoms are present. It is important to note that person-to-person spread can happen on a continuum. Some viruses are highly contagious (like measles), while other viruses are less so. At this time, it is unclear how easily or sustainably this virus is spreading between people.

Q2. Is it safe to travel to China?

A2. The Department of State recently adjusted the travel advisory for China to Level 4, meaning individuals should not travel there. The commander of U.S Indo-Pacific Command, in support of the U.S. Department of State’s Level 4 Travel Advisory, has restricted all DOD travel to the People’s Republic of China (PRC).

Q3. What should I do if I think I have coronavirus?

A3. According to the CDC, anyone contracting a respiratory illness should not assume novel coronavirus--it is far more likely to be a more common malady. However, patients who traveled to China in the past 14 days with fever, cough, or difficulty breathing, should seek medical care right away and notify your medical provider immediately of your travel history. Military Treatment Facilities have provided guidance on how to address such circumstances.

Q4. Why is DOD involved with the coronavirus response?

A4. The Defense Department is supporting our interagency partners by housing the evacuees during their 14-day quarantine period.

Q5. As a service member in the INDOPACOM region, what should I know?

A5. The commander, INDOPACOM, is aligned with State Department and CDC travel and health warnings and synchronized with DoD Force Health Protection guidance, has restricted all DOD travel to China. This restriction is specific to the geographic confines of the PRC, and applies to all U.S. military, civilians and DOD contractors. There are no travel restrictions from INDOPACOM for DOD personnel in the remainder of the INDOPACOM area of operations. Service members should consult their specific command guidance on travel.

VET TECH MYTH-BUSTERS

The Hairy Truth about Kwajalein Ticks and Fleas

COMMUNITY CONNECTION / KWAJALEIN HOSPITAL

By Danielle Rinaldi
Registered Veterinary Technician
Kwajalein Hospital

As the veterinary professional on Kwajalein, I've heard the many interesting and sometimes peculiar myths and rumors that have been passed down throughout the years since pets were allowed on island.

By far, the most remarkable myth is that the island is completely void of fleas and ticks. This has been mentioned in my office a few times, mostly after a flea infestation has been discovered. Fleas and ticks do exist on Kwajalein.

If you see these pests on your beloved companion, don't panic. These ectoparasite infestations are treatable and, more importantly, preventable.

What To Do If You Spot a Flea
Kwajalein Veterinary Services is here to help. The clinic currently sells products able to treat and prevent these bothersome infestations. Routinely grooming your pet will help you discover fleas and/or ticks sooner.

You can also always schedule a time to bring your pet to veterinary services for a thorough physical examination. While it is more likely that you will see a flea infestation on your island pet, it is important to be aware that ticks have been known to use island pets as hosts from time to time as well.

Aside from being a nuisance, both fleas and ticks have a number of secondary health risks that require attention as well including bacterial infection, anemia, tapeworm infection and even occasional degeneration of organ functions.

Act Quickly
Fleas and ticks have been known to transmit diseases to the animals they feed on. It can take as little as 24 hours for a tick-borne disease to transmit to the affected dog or cat. While rickettsial diseases, or tick-related diseases, are not as concerning on Kwajalein as compared to certain regions of the world, keeping your pet protected from ticks guarantees disease transmission is kept at bay.

Additionally, the population of fleas

you see on your pet during an infestation only accounts for approximately five percent of the total population in the immediate environment. The rest of the fleas and larvae are in your home and yard. Treating a home for a flea burden is a multi-step process and involves washing bedding and upholsteries, thorough vacuuming, and surface cleaning. A combination of products to kill the fleas affecting your home may prove to be most helpful. Be sure to follow instructions on product labels carefully and remove pets from the home when recommended as some products can be harmful.

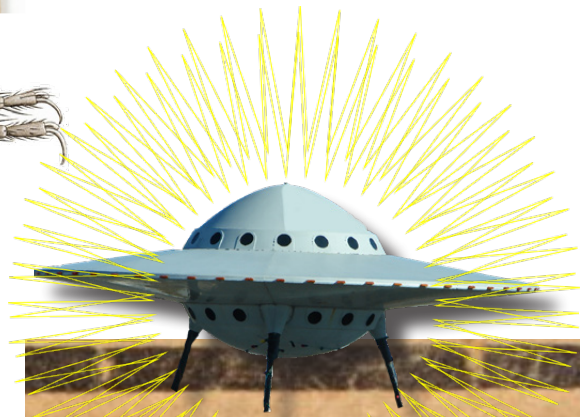
Choosing The Right Preventative
There is no single preventative on the market that protects your pet from every possible internal infection or external infestation, but there are tons of options to choose from. A grouping of products is usually recommended to keep your pet fully covered. Picking the right combination to best fit your pet's lifestyle is very important (e.g. collars, oral products, topical products, etc.). To learn more, reach out to veterinary services with help creating a customized, preventative plan that works best for your family.

Use caution when purchasing products from Amazon. Kwajalein Veterinary Services recommends only purchasing products from veterinarian-approved sources, such as 1-800-PetMeds or the clinic. Sometimes products sold via third parties online can be misleading and may not contain the ingredients listed; in other words, there are frauds out there.

To ensure your pet's safety and that you have purchased the intended product, stick to reputable sources. If you ever have any questions about a product, please contact veterinary services or bring the product by the office.

Maintain Regular Treatments
Stay diligent with using monthly preventatives. Preventing ectoparasite infestations is always easier than treating them. For example, it takes approximately three months to break the flea life cycle, so the initial treatments after discovering a flea infestation are very important. However, fleas and ticks don't just go away. In fact, both parasites can live in virtually any environment. Keeping pets on a preventative year-round for the rest of their lives is recommended to keep the animals, your home and even you protected.

The Truth Is Out There
For more information, contact Kwajalein Veterinary Services at 5-2017 or send an email to KwajaleinVeterinaryClinic@ms.internationalsos.com.



I WANT TO BELIEVE

Common Kwaj Flea Myths Busted

Myth: My pet cannot have fleas because they live entirely indoors.

Fact: Fleas thrive particularly well in the well-regulated temperatures in the home.

Myth: My pet cannot have fleas because if there were any fleas they would be biting (insert name of a person in the family reportedly sensitive to flea bites). Since this person is not being bitten, there must not be any fleas.

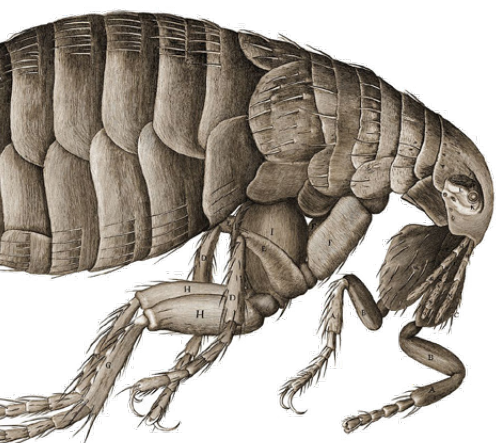
Fact: The cat flea, *Ctenocephalides felis*, can suck the blood of a wide variety of animals. However, this flea definitely does not prefer human blood and won't eat it unless absolutely necessary. Humans tend not to get bites unless flea population numbers are high.

Myth: We do not have fleas because we only have hard wood floors.

Fact: Fleas love to develop in the cracks between the boards of hard wood floors.

Myth: My pet cannot have fleas because I would see them.

Fact: You cannot expect to see fleas because many animals will lick, groom, and chew after being bitten by a flea. This causes the flea to either jump off the pet or get swallowed.





📷 COURTESY OF KRISTEN ROWE



RUNNING BY THE NUMBERS IN SWEETHEART RELAY

COMMUNITY CONNECTION

By Bob Sholar

Living and working on Kwajalein offers a rare breadth of convenient Morale, Welfare and Recreation options augmented by the pervasive Pacific environmental fringe benefit and the resources of the USAG-KA FMWR Office. On Monday, February 17, many residents were participating in a major golf tournament on Holmberg Fairways.

The fleet of Marina B-Boats was out with scuba divers and fishermen. How to choose? Sixty others opted for Kwajalein Running Club's 41st Annual "Sweetheart" 4 X 1 Mile Relay Run at 9 a.m.

The relay course used is a naturally convenient rectangle bounded by Lagoon Road, Ocean Road, 9th and 6th Streets. It is 10-yards longer than a mile. The age diversity of the Relay is rare, with participants aged three- to 65-years old all covering the mile on their own leg power.

The runners were each assigned an age- and gender-based handicap in seconds.

The greatest individual handicap of 6-minutes went to three-year old Delina Cardillo. Her three brothers, Ezekial, Alonzo and Berkeley completed the team with greatest total handicap, at 18 minutes and 30 seconds. This handicap established the "reference." Alonzo, starting alone, ran first for the Cardillos. He was cheered on by the other 59 runners. The other 14 teams then started at computed delays based on team handicaps. It is a big chase that normally converges nicely.

Many of the Kwajalein Schools students who ran were fresh off swimming in the Kwajalein Swim Team Meet held the day before. The Kwajalein High School boys' team of Dominic Aragon, Matai McCollum, Makoa McCollum and Zach Hill had to wait 16 minutes and 16 seconds to begin the relay. It felt like twice that long.

The team of Mario and Jana Montoya and Heather and Eric Miller started in fifth position, approximately seven minutes and 58 seconds after the Cardillos, but surged to the lead and finished in first place.



1-2) Kwaj runners participate in the Sweetheart Relay Feb. 17. 3) Bob Sholar, center and Jane Sholar, right, keep time while members of the Cardillo family cheer on the runners.

HEALTH TIPS FOR SCHOOL AND WORK

When recovering from an illness, it can be difficult to know when it's safe to return to school and work. Check out the tips below from the Kwajalein Hospital to keep yourself and your school and officemates healthy.

Stay home from work and school if you are experiencing one of the following:

- **Fever** with a temperature of 100.5 degrees or higher.
- **Vomiting and/or diarrhea** within the past 24 hours
- **Rash** on the body with itching, flakes, blisters, discharge or fever.
- **Active head lice** leading to an itchy head.
- **Eye infection** causing redness, itching and/or pus draining from eye.
- **Persistent or productive cough or sore throat** lasting three weeks or longer, a raw or irritated throat and/or coughing up mucus or blood.
- **If you've visited the hospital** for a stay and/or emergency room visit.

You may return to work or school when:

- You have been free from vomiting and diarrhea for 24 hours.
- You have been free from fever without the assistance of medication for 24 hours.
- You are free from rash and/or itching, head lice are under treatment and any chicken pox lesions are crusted over.
- Eyes are no longer discharging.
- You have been released by a medical provider to return to work or school.

If you or your child has strep throat or another bacterial infection, stay home until any prescribed antibiotic has been given for at least 24 hours and your health care provider has given permission for you or your child to return to work or school.

You are encouraged to seek medical attention when you or your child is sick and to follow your health care provider's recommendations about returning to work, school and other activities. And remember—wash your hands.



For more information, contact the Kwajalein Hospital.

Front Desk: 5-2223

Public Health Nurse: 5-8836

Dental Clinic: 5-2165

GOOD GAME.



U.S. ARMY PHOTO BY JESSICA DAMBRUCH

SPARTANS I WIN INNER TUBE WATER POLO SEASON, 43-40.



1



2



3

U.S. ARMY PHOTOS BY JESSICA DAMBRUCH



HOURLASS REPORT

It was a good game and an exciting finish to the Inner Tube Water Polo season this week.

Spartans I defeated the Turbo Turtles 43-40 Tuesday night during the championship game at the Millican Family Pool. They reign as the undefeated champions of 2020. The Turbo Turtles came in second overall with eight wins. Bruce Premo helped secure those wins with 78 season goals. The Spartans scored 202 more points overall than the Turtles.

Check out some of these photos from the game and come on out to support inner tube water polo next year.

1) Zach Hill, left, prepares to serve the ball away from Todd Emmons. 2) Spartan Connor Charlton, right, blocks Turbo Turtle Kristen Hosek. 3) Brian Charlton, left, sends the ball skyward, even as Sean Hepler stands in his path. 4) Alyssa England, right, is unperturbed, as Bruce Premo, left, defends his goal. 5) Spartans I visit together after the game. 6) Spartans I goalie Myles Sylvester is the first to sign the coconut trophy.



4



5



6

EARLY KWAJ, CIRCA 1944 THE BUILDING YEARS

By Megan J. Stegmann
Hourglass Feature Writer

The following article is part I in The Building Years' of a three-part series on "Early Kwajalein" taken in part from a phone interview with James E. Bethell in Virginia conducted by former Kwajalein Hourglass feature writer Megan Stegmann from March 1989.

Kwajalein—While thumbing through the pages of a veteran's magazine, Kwajalein resident Larry Fureigh came upon an ad searching for members who had been responsible for the initial installations built on Kwajalein after the takeover of the island on Feb. 14, 1944.

Unfortunately, the unit was deactivated in March of 1946. About that time, the 854th Spearheaders' organizational records disappeared. Because of this, credit for the completion of Kwajalein's first airstrip and base facilities was given to Navy Seabees.

Though Fureigh wasn't one of those men, he began corresponding with the man who was responsible for placing the ad, James E. Bethell. Fureigh regularly sends the Kwajalein calendar and various clippings from the Hourglass to Bethell as well as the two other veteran's organizations.

Bethell, now residing in Springfield, Virginia, petitioned for the 854th Spearheaders to become a veteran's organization for those who virtually put Kwajalein on the map as a strategic military installation that has remained as such since that time.

"Jim is the focal point of the organization," Fureigh said.

In 1975 they held their first convention and celebrated their 12th annual reunion on Oct. 9, 1987. It was held in Pensacola, Florida. Attending that convention were 183 of the original troops who did construction work on Kwajalein.

The northern end of Kwajalein Island was secured about 4 p.m. on Feb. 4, 1944, from the Japanese while the 854th Spearheaders were unloading their gear on the southern end.

The battalion normally numbered about 700. This one in particular was manned with 1,100 Soldiers. This was because of the urgency to provide the island with an airfield and installations to support it.

"We had the airfield completely operational in 21 days," said Bethell who was only 20 at the time.

During construction Bethell remembered the hazardous conditions the men were forced to work in. Though the island was secured, a few remaining Japanese Imperialist Marines still lingered on Kwajalein, hiding in trees and unexploded grenades and weaponry littered the strip of land where the airfield was to be built.

Living conditions on Kwajalein were at an all-time low. The Soldiers had to come to Kwajalein with no survival training and lived off dried foods and water they had brought from Hawaii. Tents served



Kwajalein's Richardson Theater, circa 1945.

as their homes but little time was spent in them as work on the runway kept them occupied.

"Living conditions were very primitive to say the least," Bethell said.

When extra wood became available, a few men built cabins with wooden floors.

"We thought we were living in the Sheraton," said Bethell jokingly after the cabins were completed.

Items needed to complete the strip came from a Navy ship but most of the supplies needed to make cement had to be taken from the island's raw materials. Giant rocks were crushed by machinery recovered from the Japanese.

However, much of the subgrade materials needed to make cement was buried three to four feet below the surface and had to be excavated. Digging the soil wasn't a problem—until the tides became erratic, stopping production when high tides came and until the machinery began breaking down.

Had there been sturdy, reliable machinery at the Soldier's disposal, the job would have been done much sooner, professed Bethell.

"Vehicles were in constant need of maintenance," Bethell said. "Every available part was utilized."

Available parts included those stripped from confiscated equipment from the Japanese.

The lack of spare parts plagued the completion of the airstrip and when it looked as though new machinery would not be immediately available, Soldiers began modifying the American-made equipment to use the Japanese engine and machine parts.

Before long the workers had removed the dead trees and stumps left by a bombardment that blast Kwajalein with 29,000 artillery rounds, 7,000 naval shells and 1,000- to 2,000-pound bombs.

The number of Japanese buried during the month of February is estimated at more than 4,900.

"We all took turns on the burial duties," he said. "It was something nobody

liked doing but it had to be done."

After only 12 days of a full-scale debris-cleaning and runway-building operation, the airstrip was complete. An average work day was 16 to 18 hours.

Because they had completed the job in such a short period of time, construction on support facilities continued.

The Richardson Theater was erected by the Soldiers—not on official orders but at the will of the troops. They needed a place to be entertained, whether it was with movies or skits the Soldiers put on.

They didn't stop there. More than 150 buildings went into production, including permanent-type housing for troops soon to arrive. They would be taking command of the newly-built installation that, when completed, would have electricity, plumbing and drainage capabilities.

No prepackaged materials, no intense training and no credit was given to this group of men who began the Kwajalein community as we know it today.

In fact, LIFE magazine ran an article on the construction work the Seabees did during World War II and Bethell said, "they got all the credit because the Navy had good public relations people. They may have been in the area, but we (854th Spearheaders) did the airstrip," Bethell said proudly.

Recognition may be 44 years late and unofficial, but I tip my hat to the 854th Spearheaders. It was they who made it possible for all of us here now to enjoy what Kwajalein Island—and the entire atoll—has to offer: all the comforts of home. Well, almost.

Check out next week's Hourglass for the continuing series of personal accounts from World War II veterans who saw Kwajalein before it had paved roads and before homes had running water and working plumbing systems.



U.S. ARMY PHOTO BY BRAD PENTA

A Wirewalker, driven by waves and currents, sits at the ocean's surface during a field campaign led by oceanographers from the U.S. Naval Research Laboratory. The Wirewalker was equipped with a variety of instruments to measure light, conductivity, temperature, depth, light and acoustic backscatter, and dissolved oxygen throughout the water column. The NRL study was focused on characterizing biological ocean swarms.

NAVY GAINS COMPETITIVE EDGE WITH RESEARCH INTO BIOLOGICAL OCEAN SWARMS

EXTERNAL REPORT

By Cassandra Eichner
NRL Corporate Communications

STENNIS SPACE CENTER, Miss.—

Tiny and frightening-looking creatures lurking throughout our world's oceans can wreak havoc on Navy tactical decision-makers' ability to sense the environment or plan and chart a navigation course.

The simple presence of these animals, some the size of a pen tip, can affect Navy operations through attenuation of acoustic signals, bioluminescence and ambient noise.

To help increase our understanding of these intermediate trophic level organisms like tiny crustaceans and jellyfish, researchers conducted a 14-day field campaign last year off the coast of Delaware. Led by U.S. Naval Research Laboratory oceanographer Brad Penta, the campaign collected information about the dynamics of ITL ecosystems near ocean fronts—areas that tend to be biologically active.

Intermediate trophic level organisms, small but mighty

All organisms within an ecosystem belong to a particular trophic level—essentially a label of where they fall in the food chain. ITL animals can range in size from tiny copepods to large jellyfish. They are moved by currents throughout the ocean and can form massive swarms.

Penta said swarms around underwater acoustic equipment can render the equipment output unreliable. Swarms can be so dense that sound reflects and reverberates off of them, causing false readings and adding to ambient noise.

In addition to affecting sound, ITL organisms are known to flash.

"Many of these organisms emit light, called bioluminescence," Penta said. "They do not light up all the time; usually it's when they are stimulated or disturbed."

How They Did It

The coastal study incorporated a number of shipboard instruments and tools.

One of the study's collaborators, the University of Mississippi, brought an In Situ Ichthyoplankton Imaging System. ISIIS provided multiple high-resolution

images each second it was towed behind the ship.

During one of the tows, ISIIS passed a patch of marine life and falsely thought it had hit the bottom of the ocean. It turned out to be a swarm of veligers, a larval stage of mollusks.

"If you had enough of them [veligers], they could interfere with sonar or an optical instrument," said Penta. "Their presence may change the depth at which Navy assets are deployed."

"Researchers also attached tools to the ISIIS to measure temperature, salinity, chlorophyll-a, oxygen and light attenuation. Pairing these tools with the ITL organisms identified by ISIIS enabled researchers to determine an exact environmental profile where particular organisms lived."

Throughout the cruise, researchers used nets for sampling, but also deployed the Wirewalker, a sampling device driven by waves and currents. The Wirewalker was equipped with a variety of instruments to measure light, conductivity, temperature, depth, light and acoustic backscatter and dissolved oxygen throughout the water column.

Eyes in the Sky

As part of the field campaign, up in the skies, an aircraft equipped with imagers and remote sensing experts aboard surveyed the ocean environment and provided precise locations of ocean fronts to the shipboard researchers. It flew with cameras sensitive to visible, long and short infrared and hyperspectral wavelengths.

The aircraft also had multiple Light Detection and Ranging cameras. LIDARs emit colored lasers to reveal profiles of a subject. In this case, LIDAR provided researchers information on what was going on under the water. Deric Gray, an oceanographer in NRL's Remote Sensing division, operated and tested a new NRL-developed tool called multi wavelength LIDAR for the environment.

Unlike traditional oceanic LIDARs which normally have a monochromatic laser, Gray and his team designed MUWLE with interchangeable laser colors. The flexibility allowed Gray and his team to test and optimize different colors in multiple marine environments.

"Blue worked better in deep water,"

Gray said. "Green worked well in algae rich areas and yellow worked well in turbid bays with a lot of mud."

Researchers designed MUWLE to pick up details in the water, knowing it would pick up a small amount of information about the atmosphere. But researchers were surprised to learn MUWLE could collect detailed information about the atmosphere.

"We saw aerosol layers that showed up more significantly than we thought they would," Gray said. "The LIDAR also saw thin, broken clouds underneath the aircraft that we couldn't otherwise see."

What's in the Data?

Researchers now are actively sifting through their data. The ultimate goal of the study is to develop a model which can predict the presence of ITL organisms.

Before the models can use the data: however, the hoard of data must be processed.

Penta said he extracted more than 1.2 million images from just one tow with the ISIIS instrument. His team is using new techniques to sort through all the information and establish trends.

"We have begun to set up machine learning deep neural networks to use artificial intelligence to classify the organisms but do not have results yet," Penta said.

Deep neural networks are sophisticated mathematical models used to process large amounts of data. Christopher Wood, an NRL computer scientist, is training a kind of DNN – a convolutional neural network– to identify organisms in the ISIIS images.

"CNNs are geared toward image analysis," said Wood. "A human being couldn't process these images in a lifetime. The image reels are massive and some of the organisms are very small."

Penta said he plans use the CNN to identify organisms and match that information to the fronts and water masses. This will show how communities in the ocean changed over the two-week campaign.

Once fully synthesized, Penta said the information will create a comprehensive picture of the environment, which will aid the development of predictive ecosystem models.

Research collaborators included Florida Atlantic University Harbor Branch Oceanographic Institute; University of South Alabama Dauphin Island Sea Lab; University of Southern Mississippi; Florida International University; and University of Delaware.


About the U.S. Naval Research Laboratory

NRL is a scientific and engineering command dedicated to research that drives innovative advances for the Navy and Marine Corps from the seafloor to space and in the information domain. NRL headquarters is located in Washington, D.C., with major field sites in Stennis Space Center, Mississippi; Key West, Florida; and Monterey, California, and employs approximately 2,500 civilian scientists, engineers and support personnel.



THE KWAJALEIN HOURGLASS




 COURTESY OF ALISA JO PHILLIPS

The U.S. Army Garrison-Kwajalein Atoll Morale, Welfare and Recreation Mardi Gras event took place Feb. 23 at Emon Beach. Check out the scene in these photos contributed by Alisa Jo Phillips. 1) David Pickard, left, and Donna Pickard, right, are festive in their Mardi Gras finest. 2) Kwajalein Dining Services serves food items to event patrons. 3) Dr. Scott Berry sports a sequined mask and beads. 4) Kwaj residents enjoy food and beverages in the dining tent.

St. Patrick's Day Karaoke Party!



OCEAN VIEW CLUB
 MARCH 14
 9 P.M. - 2 A.M.



Softball Sign-Ups Season runs March 24- May 30

Register at the Grace Sherwood Library, Bldg. 805,
 by March 10. Registration is \$100 per team.
 Minimum 8 Players Limited Space for teams.
 Please call 5-3331 for more information



ARTS AND MUSIC



THE SEE-YOU-LATER MUSIC JAM

**Kwajalein Yacht Club
Sunday, March 8**

Please join the Kwajalein Yacht Club for a special music jam in honor of friends and long-time residents Dan and Caroline Eggers.

This event is a potluck. Please bring a dish to share and enjoy music by Dan and Pure Aloha.

Musicians and singers are welcome. Contact Tim Roberge to arrange performance details.

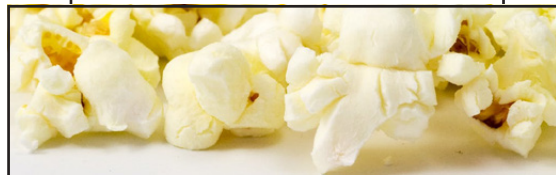
STUDENT ART SHOW

**George Seitz Elementary
School Art Studio
Tuesday, March 17
4-6 p.m.**

Please come and support our young artists at their Kindergarten-6th Grade art show!

The Art theme this year is "IF." Students may dress up and wear their favorite costume or outfit.

The Art Studio is located in GSES room 14, across the street from the Millican Family Pool.



MWR Movies

All movies begin at 7:30 p.m.

Yuk Theater

Saturday, February 29
"Jumanji: Welcome to the Jungle"
(PG-13) 119 min.

Sunday, March 1
"BlackKkKlansman" (R) 135 min.

Monday, March 2
"Sunday Morning Rapture"
(PG-13) 72 min.

Saturday, March 7
"Game Night" (R) 101 min.

Sunday, March 8
"Joker" (R) 123 min.

Monday, March 9
"Wonder Park" (PG) 85 min.

Tradewinds Theater

Saturday, February 29
"American Made" (R) 114 min.

Sunday, March 1
"Kingsman: The Golden Circle"
(R) 144 min.

Saturday, March 7
"Jumanji: Welcome to the Jungle"
(PG-13) 119 min.

Sunday, March 8
"BlackKkKlansman"
(R) 135 min.

Kwajalein Jr.-Sr. High School Bands proudly present

Kwaj POPS!

**Disney Blockbusters, 70s and 80s Hits
and Video Game themes**

Thursday, March 5 at 6:30 p.m.
Davye Davis Multi-Purpose Room
Kwajalein Jr.-Sr. High School

VIP Seating

The first 40 guests who bring a box of breakfast bars or healthy snacks will be given priority seating. Donations will support our Rikatak students.

COMMUNITY NOTES

HELP WANTED

To research and apply for government employment opportunities on U.S. Army Garrison-Kwajalein Atoll and worldwide, visit usajobs.gov.

RGNEXT, LLC seeks qualified candidates to fill several open positions on Kwaj and Roi in engineering, technical and other areas. For more information and to apply, go to: www.rgnext.com.

DynCorp International (DI) is looking for qualified candidates for various positions. Current DI open positions on USAG-KA include administrative services, data analysts, education services, aviation and airfield operations, marine operations and public works among others. For more information and to apply, go to: www.dilogcap.com or contact your local HR representative.

NOTICES

AA meets weekly on Tuesdays from 6:30-7:30 p.m. upstairs in the REB (Rm. 213).

Ongoing Smoking and Tobacco Cessation offered. Please call EAP at 5-5362 or make an appointment with a physician.

KYC Monthly Meeting. Saturday, Feb. 29. Social Hour 5:30 p.m. Meeting 6:30 p.m. followed by dinner. Please bring a side to share. It's also time to renew your membership. The KYC is open to all members of the community.

Swing Dance Class. Classes are free and everyone is welcome. Come down to the Vets hall to learn swing, ballroom, Latin and blues. Classes are Wednesdays from 7-8 p.m. All experience levels are welcome. No partner necessary. Questions? Email Natalie Bagley at natbagley@gmail.com.

Calling All Vendors. The Kwajalein Art Guild Spring Arts and Crafts Bazaar will be held Monday, April 6 from 9 a.m.-2 p.m. Email Vickie at travelratz2@yahoo.com for a vendor application.

Internet customers can access their account and pay online. Simply visit KwajNetBilling.dyn-intl.com to log in and pay via our secure, online payment gateway using the payment method of your choice. You may also pay online for future months in advance! For support, contact us via phone @ 805-355-0843 (5-0843) or email KwajNet.Billing@dyn-intl.com.

USAG-KA 2020 Home Business License. Vendors who want to sell goods or offer services need to obtain a license. Stop by the FMWR Office on the first floor of Building 805 for an application. For more information or to submit an appli-

cation, contact Teresa Mitchell at 5-3400 or teresa.j.mitchell4.naf@mail.mil. Please include the following with your application: Applicable licenses and certifications; pictures and examples of goods offered; proof of insurance; and other relevant business information.

No Food and Drink on Metro Flights. Eating and drinking on Metro and helicopter flights is strictly prohibited. For your own safety and the sanitation of flights, we ask that you refrain from consuming food and beverages during flights. All drinks and snacks should be enjoyed in the air terminals or upon arriving at your destination. We appreciate your cooperation. For questions, please contact Lee Holt at 5-2102 and Fly Roi at 5-6359.

Need to report a non-emergency incidents or information? Send in secure reports online at the USAG-KA Police Department Facebook page. For more information, visit <https://www.facebook.com/kwajaleinpolice/>.

Self Help is located in Bldg. 1791. Hours of operation are Monday, Wednesday and Friday- 9:30 a.m.-6 p.m. Visit Self Help to pick up tools to complete a number of household maintenance and upkeep projects, including the following:

- Various appliance and household lightbulb replacements
- Pest control traps and sprays
- Lawn and garden tools
- Hand tools and power tools
- Painting supplies
- Miscellaneous
- Plumbing supplies
- Appliance accessories

Namo Weto Youth Center Hours of Operation

Sunday, 2-9:30 p.m.
Monday, Closed
Tuesday, 3-9 p.m.
Wednesday, 2-9 p.m.
Thursday, 3-9 p.m.
Friday, 3-9 p.m.
Saturday, 3-9:30 p.m.

Power Walk Ex. Stand strong, move forward and get to stepping with Power Walk ExClass meets Thursday and Saturday from 6 a.m.-7 p.m. Walk will begin and end at the Ivey Gym. All MWR fitness classes require a wellness class pass. For more information and to purchase your pass, visit the MWR desk at the Grace Sherwood Library and call 5-3331.

Please provide MWR feedback on what they can do to improve service at the URL below: <https://www.surveymonkey.com/r/3FNC-7BW>

FERAL CAT INFORMATION

Please report all sightings of kittens to Kwajalein Veterinary Services or Pest Control to help manage the population and preserve public

safety. Small kittens often need veterinary assistance including formula, vaccines and medications. All feral kittens have intestinal parasites that can be transmitted to people. Veterinary services helps care for and adopt out kittens. Veterinary services does not practice euthanasia to manage the feral cat population.

Please do not release cats in humane traps. USAG-KA Regulation 210-8, Chapter 5, details the humane methods of the Trap-Neuter-Adopt/Release Program. Failure to comply with the USAG-KA Regulation by releasing cats from traps harms the feral cat population and puts humans at risk for zoonotic diseases such as rabies.

The Kwajalein feral cat population must be controlled to prevent federally-protected endangered species from being hunted. For more information about the Trap-Neuter-Adopt/Release Program, please call 5-2017. To report a feral cat sighting, call Veterinary Services at 5-2017 or Pest Control at 5-4738.

Espresso at Sunrise Bakery. The Sunrise Bakery now offers hot and frozen blended espresso drinks. Stop by for a great cup of coffee every day between 6 a.m. and 2 p.m.

Surf Bachelor Quarters Laundry Room Code Change. The Lock Shop has changed the cipher locks for the Surf Laundry Rooms. If you did not receive a notification with the new code, please contact Leilani Hino at the Housing Office at 5-3440 or 5-2113. Hours of Operation are 7:30 a.m.-4:30 p.m.

Coaches needed for Child Development Center Activities. Volunteer activity leaders needed for bowling, tumbling and inner tube water polo. Call CYS Central Registration at 5-2158 to volunteer.

Interested in losing weight or just making healthier choices? Kwajalein Hospital staff are here to help with coaching and support. We will work with you to design a customized nutrition and exercise plan to meet your goals. Call the Public Health Nurse for an appointment at 5-8836 or 5-2224 or stop by Bldg. 566.

Free Workshop Series

Developing Your Winning Streak
March 14 from 5:30-6:30 p.m.

Free St. Patrick's Day Theme Gift
Learn ways to provide effective praise and positive environment using master resiliency training.

Discover Your Love Languages.
Monday, March 16 from 8:30 a.m.-noon. Free five-language Book for every participant. Everyone experiences love differently. Learn your communication style.

This workshop is open to couples and individuals. Guest speakers from IMCOM Pacific (Hawaii) Chaplain Jeremiah Catlin and Cindy Morita, LCSW. Please RSVP by March 10 to cindy.l.morita.civ@mail.mil or jeremiah.j.caitlin@mail.mil. Office Calls/Counseling sessions are available with CH Catlin from March 12-15. Please email for an appointment at jeremiah.j.caitlin@mail.mil.

ASVAB TESTING IS MARCH 2-5

A team from the Military Entrance Processing Station in Honolulu, HI will be on Ebeye and U.S Army Garrison-Kwajalein Atoll to administer the Armed Services Vocational Aptitude Battery (ASVAB) test to high school students during the times, dates and locations below. For additional information, please contact the USAG-KA Host Nation Office at 5-5325 or 5-2103.

0830	02 MARCH	MON	KWAJALEIN ATOLL HIGH SCHOOL	EBEYE
0830	02 MARCH	MON	FATHER HACKER HIGH SCHOOL	EBEYE
0830	03 MARCH	TUE	KWAJALEIN ATOLL HIGH SCHOOL	EBEYE
0830	04 MARCH	WED	EBEYE SEVENTH DAY ADVENTIST HIGH SCHOOL	EBEYE
0830	04 MARCH	WED	EBEYE CALVARY HIGH SCHOOL	EBEYE
0830	04 MARCH	WED	JABRO PRIVATE HIGH SCHOOL	EBEYE
0830	05 MARCH	THU	KWAJALEIN JR/SR HIGH SCHOOL	CRC ROOM 1 USAG-KA
1300	05 MARCH	THU	ENLISTMENT TEST	CRC ROOM 1 USAG-KA

GOT A FLIGHT?

ATI CHECK-IN

Early departures—7:45-8:15 a.m. For all other departures, check-in begins at 8-8:30 a.m. *Check with your ATI flight representative to confirm check-in and flight departure times.

UNITED CHECK-IN

Monday, United 155—3:30-4:45 p.m.
Tuesday, United 154—11-11:30 a.m.
Wednesday, United 155—2:30-3:45 p.m.
Thursday, United 154—11:30 a.m.-Noon.
Friday, United 155—3:30-4:45 p.m.
Saturday, United 154—11-11:30 a.m.

SHUTTLE BUS SERVICE

To set up a pick-up time for the shuttle please call 5-8294 or 5-3341. If a representative cannot be reached, please leave a detailed message and your phone call will be returned as soon as possible. Shuttle services start one hour prior to check-in times for United flights and 0700 for the ATI.

CYS March Spotlight

Child Development Center

STEAM Afternoons

Join the CDC as we explore science, technology, engineering, art and mathematics.

- Tuesdays-Swimming at Millican Family Pool, 1 p.m.
- Wednesdays-Functional Fitness at 1 p.m.
- Saturdays-Reading Buddies with Ms. Crump's third grade class, 2:10 p.m.

Upcoming CDC Events

Start Smart Sports. Fitness is fun in this program for children aged 3-5 years.

Mini-Golf. Season runs through March 19.

Tumbling. Registration is open March 3-24. Inquire at Central Registration about program care opening.

Baru Classroom Special Reminders

Saturdays are Water Play Days. Please send your child with swim clothes, a swim diaper (if needed), a towel, and dry clothes.

School-Age Care

Mentor Program

Meets daily 7- 8:30 a.m.

Teamwork is the highlight of this fun, new program, as School-Age Care kids mentor the CDC "littles" in fun projects and activities.

Open Rec

This free fitness program for K-6 students meets first and third Saturdays from 4:30-6:30 p.m.

March 7- Dinosaur Bingo

March 21- DIY Gold Bank

Money Matters March with 4-H Program

This free program meets Wednesday and Friday from 5-6 p.m. Join us as we wrap February's theme, visual arts, and get into the dollars and cents of basic finance skills in March.

Functional Fitness—Join this free program physical exercise activity program. Meets Wednesdays from 2:30-3 p.m.

CYS Sports

Sports Carnival season ends March 21.

Registration for Inner Tube Water Polo begins March 3-24. Season begins April 7.

Special Events at SAC

Spring Camp. Runs March 31-April 4 from 8:30 a.m.-5:30 p.m.

Pre-K Spring Break runs March 31-April 4. Care is still available.

Daily Focus

Let SAC help you foster your child's growing talents and interests with our special one-day activity programming: Art Tuesdays; STEM Thursdays; Recreation Fridays; Character & Leadership Development Saturdays

Namo Weto Youth Center

Sundays

Drama Club, 4 p.m.- March 15 and 29

Tuesdays

Keystone Club at 11:30 a.m.

Wednesdays

Torch Club, 11:30 a.m.-March 4 and 18
Smart Girls at 4 p.m.

Thursdays

Trivia Night at 8 p.m.

Fridays

"Money Matters" course at 4 p.m.

Saturdays

Keystone and Torch Club Officers meetings at 4 p.m.

Special Events at Namu Weto Youth Center

Variety Show and Scholarship Dinner-March 1 at 6 p.m.

Youth Action Council Meeting- March 6 at 3:30 p.m.

Ballroom Dancing- March 7 at 7 p.m.

Pie Day- March 14

St. Patty's Cookie Decorating- March 17
Paint Night-March 21

Parents' Corner

Parent Advisory Board Open House

Please come and get information on upcoming events and to register for activities on Saturday, March 7 all day in Central Registration.

Special Note

Many CYS programs require preregistration. If you have questions or would like to learn more about registering your child or volunteer opportunities with CYS, please contact Central Registration at 5-2158.

Teachers' Note

Unless otherwise indicated, all programs for the Namu Weto Youth Center start or meet at the Center. Dates and times for events are subject to change. Please check in at your CYS location for the latest information.

Call for Volunteers

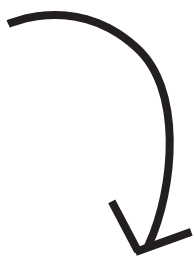
Want to help coach for CYS? Contact Central Registration at 5-2158 for how to become a registered volunteer.



📷 COURTESY OF USAG-KA CYS

VISIT USAG-KA CYS ON FACEBOOK FOR MORE PICTURES AND INFORMATION ABOUT OUR EVENTS AND PROGRAMS.
[HTTPS://WWW.FACEBOOK.COM/USAGKACYS/](https://www.facebook.com/usagkacys/)

NEED TO KNOW? CLICK BELOW.



YOUR WEEK IN PICTURES

Check out Kwajalein Hourglass photos online at the HG Flickr website.



SATURDAY

5 p.m. Saturdays and noon on Tuesdays on AFN 99.9 The Wave. Turn on the TV and listen in on Channel 29-1 or on the Roller.



KWAJ CURRENT

Catch the latest episode of Kwaj's local TV show on AFN 29-1.



AFN KWAJALEIN ROLLER CHANNEL IS STREAMING ONLINE

An island mainstay comes to the Internet at last. Stay in-the-know with the AFN Roller Channel online! Check out the US-AG-KA Facebook page connect.



JOIN IN THE RUN.

HAVE YOU STARTED TRAINING FOR THE RUST MAN?

EMON BEACH APRIL 27

NEED HOME REPAIRS? WE'RE HERE TO HELP.




Call the Public Works Service Desk at 5-3550 Tuesday through Saturday, 7:30 a.m. to 4:30 p.m. For after hours emergencies, call 5-3139. After going through the service desk process, if you continue to experience issues, contact us. We will work with you to resolve your issue.

Derek Miller, 5-2283
derek.d.miller14.civ@mail.mil

Scott Hill, 5-0133
michael.s.hill86.civ@mail.mil



 SUN-MOON-TIDES				
	SUNRISE SUNSET	MOONRISE MOONSET	HIGH TIDE	LOW TIDE
SUNDAY	7:03 a.m. 7:00 p.m.	11:18 a.m. 11:59 p.m.	7:30 a.m. 3.5' 7:36 p.m. 3.0'	1:16 a.m. 0.2' 1:41 p.m. 0.7'
MONDAY	7:02 a.m. 7:00 p.m.	12:01 p.m. -----	8:07 a.m. 3.2' 8:12 p.m. 2.5'	1:43 a.m. 0.6' 2:27 p.m. 1.0'
TUESDAY	7:02 a.m. 7:00 p.m.	12:48 p.m. 12:48 a.m.	9:06 a.m. 2.9' 9:32 p.m. 2.1'	2:18 a.m. 0.9' 3:58 p.m. 1.4'
WEDNESDAY	7:01 a.m. 7:00 p.m.	1:39 p.m. 1:41 a.m.	11:20 a.m. 2.7' -----	3:34 a.m. 1.3' 7:06 p.m. 1.3'
THURSDAY	7:01 a.m. 7:00 p.m.	2:34 p.m. 2:36 a.m.	1:00 a.m. 2.0' 1:25 p.m. 3.1'	6:26 a.m. 1.3' 8:20 p.m. 0.7'
FRIDAY	7:01 a.m. 7:00 p.m.	3:34 p.m. 3:34 a.m.	2:19 a.m. 2.6' 2:25 p.m. 3.8'	7:56 a.m. 0.9' 9:01 p.m. 0.1'
MARCH 7	7:00 a.m. 7:00 p.m.	4:34 p.m. 4:31 a.m.	3:01 a.m. 3.1' 3:09 p.m. 4.4'	8:47 a.m. 0.3' 9:37 p.m. -0.4'

WEATHER DISCUSSION: A circulation developed south of the island this past week. It is now located near Pohnpei. Southerly winds on the east side of the circulation have converged with the northeast trade winds causing rain bands and showers into today. As this circulation progresses westward, drier trade wind flow will take over during the weekend. Next week looks like steady moderate trade winds. Rain activity will be focused around the equator and not in the central RMI.

February will end with about 3.4 inches of precipitation, or just slightly over normal for the month. This is an unofficial amount as we still have a half day to accumulate at time of this writing.

SATURDAY: Mostly cloudy with scattered showers (20-30 percent coverage). Winds ENE-E at 15-20 knots. Stronger gusts with showers.

SUNDAY: Partly to mostly cloudy with isolated to widely scattered showers (10-20 percent coverage). Winds NE-ENE at 15-20 knots. Stronger gusts with showers.

MONDAY: Partly sunny with isolated showers (10 percent coverage). Winds NE-ENE at 17-22 knots. Stronger gusts with showers.

SHARE YOUR WEATHER PHOTOS WITH US!
SEND SHOTS AND A BRIEF DESCRIPTION TO
KWAJALEINHOURLASS@DYN-INTL.COM



E-WARENESS

Treated Lumber

Chemicals used to treat lumber can be hazardous to humans and wildlife, pollute water, and pollute the air and create hazardous ash (if burned).

Take extra precautions when handling treated lumbers.

Alal Ko Rej Treated

Alal ko emoj treat ii kin chemical elap aer kauwofata. Bok buntan ko rekkar, jimwe im tiljek ne kwoj jerbai alal rot kein. Kir DynCorp Environmental ilo 1134 non melele ko relaplok.

Yokwe Yuk Women's Club

22ND ANNUAL

Basket Auction

FUNDRAISING GALA

....

Donations Needed

.....

Past Donor? New to Kwaj and want to get involved in a great cause?

Over \$71,000 raised in 2019! Funds raised go toward education grants for Marshallese & Micronesian schools!

Your donations of Goods, Services, Experiences, Dinners, Art, Off Island Goodies & Events are needed and appreciated!

Donate as a business, vendor, on your own, or with a group of friends and family.

....

MAY 10TH | 6:30 PM
2020 | CRC GYM

BASKETAUCTION2020@GMAIL.COM • 5-4027

READ MORE ABOUT THE YOKWE YUK WOMEN'S CLUB IN LAST WEEK'S EDITION OF THE MWR REEF.
READ THE REEF ONLINE ON FACEBOOK AT [HTTPS://WWW.FACEBOOK.COM/USAGAFMWR/](https://www.facebook.com/USAGAFMWR/)



SEXUAL ASSAULT.
SEXUAL HARASSMENT.
**NOT IN
OUR ARMY.**



SHARP
SEXUAL HARASSMENT/ASSAULT RESPONSE & PREVENTION

**Contact the USAG-KA Sexual Harassment/Assault Response
and Prevention Victim Advocate**

Staff Sgt. Yadira Vazquezrodriguez
SHARP Victim Advocate
Work: 805 355 0660 / 1419
Home: 805 355 2036

USAG-KA SHARP Pager:
805 355 3243/3242/3241/0100
USAG-KA SHARP VA

USAG-KA SHARP Pager:
805 355 3243/3242/3241/0100
USAG-KA SHARP VA

Local Help Line:
805 355 2758
DOD SAFE Helpline:
877 995 5247



UXO REMINDER

PUBLIC SAFETY ANNOUNCEMENT

Remember the three Rs of UXO: Recognize an item as possible Unexploded Ordnance. Retreat from the area of the UXO. Report suspected UXO immediately by notifying EOD (5-1433) or CPS (5-4445).

Provide the following information: Location (building #, GPS, landmarks, etc); Size (compared to common items - football, scuba cylinder, etc). Treat UXO like you would treat dangerous sea creatures. Look but do not touch. For a detailed refresher, please attend the Island Orientation Briefing on the fourth Wednesday of every month.

Kemejmej R ko 3. Recognize (kile) juon kwopej bajjok emaron Bokutan ak kein kabokkolok (UXO). Retreat (Jenliklik) bed ettolok im jab kepaak UXO eo. Report (Ripoot e) boktun ak kein kabokklok eo ien eo emokajtata non EOD ilo nomba kein (5-1433) ak CPS (5-4445).

Ken melele kein: Ia eo (nomba in ijo, GPS, kakolle in ijo, etc.); Jonan (jonan e ibben jet kain mweik - football, taan in turan, etc.). Tiljek kon UXO kein einwot am kojparok menin mour in lojet ko rekawotata. Kalimjek wot jab jibwe. Non bar kakemejmej eok, eokwe jouj im koba lok ilo Island Orientation allon otemjej.

**NO MATTER WHAT FIELD
YOU ARE IN,
OPSEC APPLIES TO YOU.**



VISIT USAG-KA ONLINE.

For community updates, and episodes of the Kwaj Current, please visit the official USAG-KA Facebook page and YouTube channel. For command information questions, please contact Public Affairs at 5-4848.



YouTube