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THE KWAJALEIN HOURGLASS



A C-17 Globemaster III delivers the Missile Defense Agency's LV-2 target vehicle to Kwajalein on Aug. 9.

Photo by David J. Paquin

www.smdc.army.mil/KWAJ/Hourglass/hourglass.html



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Public Affair Officer, Vanessa Peeden, at vanessa.peeden@smdck.smdc.army.mil

Letters to the editor



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All 'for sale' ads are limited to 50 words or less.

Buckminster and Friends by Sabrina Mumma

CHAPTER 52 : SINCE NOT EVERYONE ON THE ISLAND SEEMS TO CARE THAT THEY ARE REQUIRED TO "PICK UP AFTER THEIR PETS", JULIA HAS COME UP WITH AN EFFECTIVE PLAN TO MAKE THEM SEE THE ERROR OF THEIR WAYS.



THE KWAJALEIN HOURGLASS

The *Kwajalein Hourglass* is named for the insignia of the U.S. Army 7th Infantry Division, which liberated the island from the forces of Imperial Japan on Feb. 4, 1944.

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Going green, saving energy is an ongoing effort at Kwaj Automotive

Article and photo by Dan Adler
Media Services Manager

In the Aug. 8 issue of the *Hourglass* an article described 10 new all-electric vehicles that have been purchased for use on Kwajalein.

But according to Alan Stone, Kwajalein Range Services Supply and Automotive Manager, the ideas for 'going green' and saving on energy and fuel costs haven't stopped there.

"The Colonel wants to reduce the amount of money we're spending on gas," said Stone. "That's the whole premise of these efforts. Fuel prices are still high even though not as high as last year. So we're trying to find alternatives to reduce the amount of fuel expenditure on the island."

One of those alternatives, which was researched and developed by Alan Metelak, is to place 10 electric solar panels on some of the newest Club Car scooters in the Automotive fleet on a six-month trial basis to see how well they will hold up in the harsh Kwajalein environment.

"They basically look like a thicker white roof that you see on the scooters today, but have a covering over all the solar cells," Stone said. "We're buying 10 initially to test them out. It should extend the life of the batteries which will reduce maintenance cost saving us money down the road."

Stone explained that when batteries lose their charge as they do when people don't plug them in to re-charge them or service the batteries as scheduled weekly, they suffer damage. That lessens their life span or ruins them

completely which requires replacement with a new battery. However, with the solar panels, the batteries will stay in a higher state of charge and that should contribute to extending battery life significantly.

According to Stone, "An average cost to replace all the batteries in a scooter is around \$840. Over the average life span of a scooter there are between two and three full battery replacement cycles. This equates to a cost of \$1,600 to \$2,500."

At the present time, Automotive has 67 scooters, so it's not hard to figure out that saving on batteries is important.

In addition to saving on the cost of batteries, scooters equipped with the solar panels would not require as much electrical power produced by the Power Plant except for a greatly reduced overnight charge. That would save energy and fuel costs for the Power Plant since less electricity would be required. Every little bit of reduction in electricity usage can add up to a significant savings in the amount of diesel fuel consumed at the Power Plant.

However, as Stone explained, the new panels cost \$1,900 per unit, so it may be a few years before any cost savings for USAKA are realized, but using the panels is a step in the right direction for future reduction in energy and maintenance costs. "Sometimes you have to invest money to save money," he said. "We [Stone and David Stewart, USAKA Equipment Specialist] came up with a way to split the costs between KRS and the government."

Stone believes that a six-month trial period should be sufficient to determine how the panels will hold up as far as wiring, connections and the solar cells.

The six-month trial will also determine if the panels really are extending the life of batteries or if instead, they are causing problems with the batteries or any other problems with the vehicle.

"The wiring runs through the roof panel down into the electronic control unit and we want to know if any of the components are going to corrode," said Stone.

If no significant problems develop, then more panels may be ordered for the newest scooters in the fleet. Additionally, any scooters purchased in the future would come with the panels attached. Stone said that right now, 24 scooters in the fleet need to be replaced.

Stone said that with corrosion being such a problem on Kwajalin,



Ten of the newest Club Car electric scooters will be outfitted with solar panel roofs thereby making only a minimal electrical charging necessary saving fuel cost for the Power Plant.

See GOING GREEN, Page 16

Reaching out



Sam Gorham, left and Jack Bolen listen to radio signals during the Kwajalein Amateur Radio Club meeting at the Ham Shack Aug. 5.

Radio Club offers window to the world



Jim Riley demonstrates the digital station as an operator in western Siberia is on the line.

Article and photos by Dan Adler
Media Services Manager

John Carey, Kwajalein Amateur Radio Club President, wore a shirt with the logo, 'Kwajalein Amateur Radio Club — Talking to the World,' at the Radio Club meeting Aug. 5.

That logo says it all about why the club has existed since the 1960s and why its members are enthusiastically involved.

The club really does 'talk to the world.' As member Sam Gorham related, "An operator on Kwaj talked to Scotland early one morning. The guy was in here at 2 a.m. and he was on just 60-watts of power at the time. That's what it takes to power a light bulb, and there he was talking to Scotland."

Some ham radio operators can even bounce signals off the moon to communicate with other countries in the world. Carey said the club has bounced signals off the moon and talked to Texas and France.

New club member, Jack Bolen said, "You'll find guys out here who are geniuses and then you'll find guys like me who are just starting out. Some of the guys who do this can do amazing things with it. It's

a whale of a hobby to get into.”

But ham radio can and has been much more than a hobby in the many years it’s been around.

Gorham said, “When the towers fell on 9/11, there were no communications. Cell phones, radios, nothing would work. It was ham radio operators who coordinated rescue and aid efforts.”

Carey said, “It was the same way when Katrina hit New Orleans and the Gulf Coast. The only communications that Civil Defense, fire departments and police had were through ham operators who coordinated the communications. It was all done by amateur radio operators.”

Some radios are barely larger than a matchbox. Bolen told a story of a injured mountain climber who used such a radio hooked to a nine-volt battery. The climber was in Idaho and a ham operator in Montana heard him calling for help and initiated a rescue effort. Many hikers and backpackers also carry Morse code keys that can be used in case of emergencies. One of the best things about such radios and Morse code keys is that they will work even where cell phones won’t, and depending on atmospheric conditions, such a radio could reach from the east coast all the way to the mountain states. Thousand of lives have been saved by ham radio through the years.

Strange things can happen with radio frequencies at times. A club member said that one day a few years ago, Kwajalein resident Bruce Premo was on a boat near Namu Island, some 80 miles from Kwajalein. He had a ham radio aboard and was trying to contact Kwajalein. The ham radio operator at Kwajalein couldn’t make out what Premo was saying and Premo couldn’t make out what was being said by the operator on Kwajalein. At that point, a ham operator in New Zealand broke in and said he could hear both of them clearly and proceeded to relay their messages.

Closer to home, if a natural disaster such as a typhoon or storm surge wiped out all communications on Kwajalein, the Ham Shack would be the only means of talking with the outside world — even if their antenna was knocked down.

When asked how ham radios would operate if the antennas were blown down in a storm, Carey said all it takes is to string a wire. “You can string a wire between two trees and you’ve got an antenna,” he said. “It doesn’t have to be high off the ground, but the length of the wire determines how far the signal will reach.”

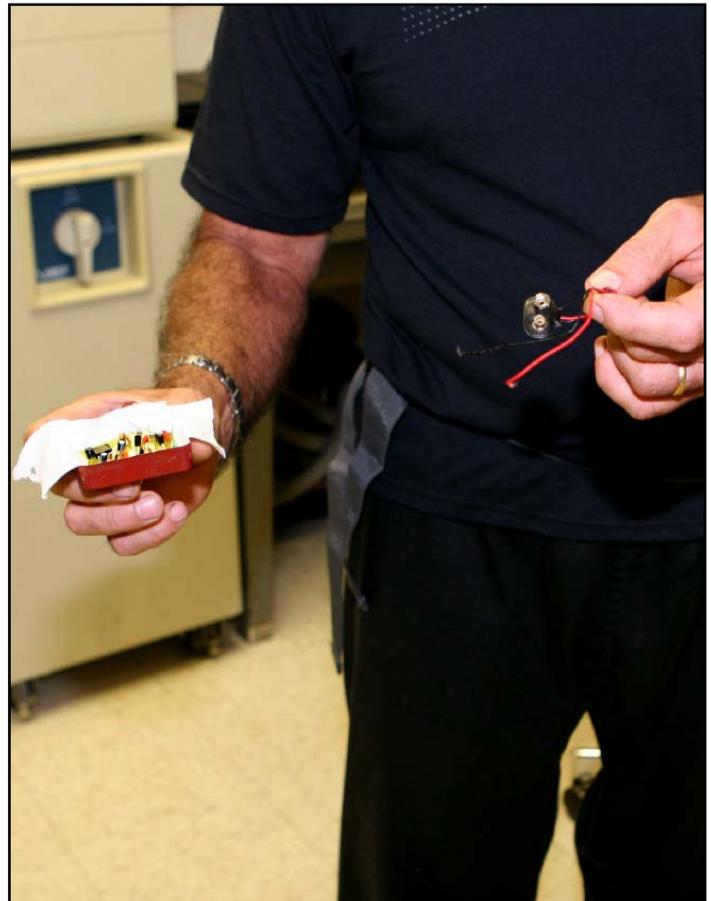
Gorham stated that on Kwajalein, if all the communication antennas were taken out by a storm, a wire could be strung from the ham shack to the water tower across from Café Pacific. “You could just about talk to anybody in the world then.”

Jim Riley, another club member agreed, “It wouldn’t be hard to make a simple antenna by stringing 30-40 feet of wire. You could talk to the world, but of course it wouldn’t be as clear and nice as with a regular antenna.”

The club members said



Cards are sent out to various operators around the world as souvenirs of having talked with Kwajalein.



Jack Bolen displays a type of small ham radio that is run with a nine-volt battery that has saved the lives of stranded climbers and hikers.



John Carey wears a shirt with the club’s logo on it.

that’s how missionaries and relief workers in very remote locations can communicate with the outside world. If they have a ham radio, they just string a wire between two trees and they have communications. There have been many times when radio operators in distant countries have heard people in such remote locations calling for medicine or medical aid and got word to authorities.

Morse code, voice and digital are the three means of communication between ham radio operators. One of the latest things is typing into the digital computer

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A stunning view of the lush vegetation on Pohnpei during the Sokehs ridge hike August 2.

POHNPEI: THE GARDEN ISLAND OF MICRONESIA, THE PERFECT LONG WEEKEND GETAWAY FROM KWAJ

Article and photos by Sheila Bigelow
Associate Editor

I haven't lived on Kwajalein long enough to experience what seasoned veterans of the island refer to as 'island fever' but I can sure understand the want and need to get off 'the rock' and take a short vacation. Flights back to the states are expensive, but Pohnpei, known as the Garden Island of Micronesia, is just the right distance away for a sweet weekend getaway.

Pohnpei can serve as a great location for a romantic long weekend away from Kwaj or it can be just as fun for a big group of friends. I know a lot of people living on Kwaj and Roi who have been to Pohnpei before and the great thing about it is that even if you've been before, it's still just as much fun the second or even the third time around.

This was my first trip to Pohnpei and our group went all out, all 17 of us. It was a big group, but a lot of fun. We booked every single room in the Ocean View Hotel and took over the bar, restaurant and balcony area

anytime we pleased.

We arrived on Aug. 1 and planned a group dinner at a nearby hotel and restaurant called South Park. We enjoyed a delicious dinner and most were just happy to actually be eating at a restaurant and actually being served our meal by the wait staff. Throughout our meal we were entertained by Pohnpeiian dancers that performed to a variety of Pohnpeiian music. The girls ranged in age, between eight to sixteen-years-old, and had dance moves that I envied. Even when it poured rain on them, they still danced in perfect unison.

On day two of vacation, we braved the Sokehs ridge hike. It definitely wasn't a stroll in the park, especially for those who had stayed up just a little too late the night before. But even for those that were well rested, it was still a challenging hike. Regardless of how steep the hills were, how much your muscles burned, how much sweat poured into your eyes, and how thirsty and hot you were, the view at the top of that climb was well worth it. One trail led to a huge World War II gun that overlooked Palikir Pass, meant to stop any ships that tried to pass through during the war.

Another trail led to WWII Japanese anti-aircraft guns and bunkers. It was fascinating to see huge rusted weapons left in the middle of the jungle. The last trail led to the top of the ridge where there were two large antennas. The view was magnificent and we could see Sokehs rock up close and personal along with the runway and a good majority of Kolonia Harbor.

Later that day we went to Liduhduhniap Falls. Recently there was a monument erected in honor of the four people that had perished at these falls, three of them as recently as 2002. A short hike down a dirt path brought us to the top of the first waterfall. I was told that this is where people can normally jump off the falls and swim in the pool underneath, however there had been quite a bit of rainfall recently, so that was out of the question for this trip.

So we made our way down another not so easy path to the bottom falls. When I say 'not so easy' I mean that it was treacherous and terrifying. The 'stairs', if that's what they could be called, looked like they had been carved out of the mountain that morning. They were slippery, slimy and crumbling apart and we climbed down them, holding onto tree limbs and whatever else we could get a grip on since there were no convenient hand rails.

Then the stairs ended and we were left to climb down wet, mossy, slippery rocks. Regardless of the beautiful scenery around me, all anyone could hear over the roar of the waterfall at the bottom of the trail was me saying, "I can't believe they let people do this," and, "I wish I wasn't wearing flip flops." But I made it down alive and in one piece and I will say that despite my near heart attack at the thought of plunging to



Hammerhead shark, whale and seahorse carvings brought back from Carver's Village in Pohnpei.

my death down that rocky hill, it was well worth it. The water was refreshing and the ambiance unlike anything I've ever experienced before.

Monday was the longest day but it was packed with one fun adventure after another. We started the day out with an elaborate breakfast at The Village, one of Pohnpei's most well-known resorts. It was here that we got the most incredible service and they accommodated our large 17-person group without even breaking a sweat. After breakfast they loaded us onto two boats; our first stop was to snorkel in a spot known to see many manta rays.

Manta rays are large, graceful creatures. The water was pretty murky so they were hard to spot. But suddenly, you would turn your head and they would be swimming right next to you. Once I finally saw them, I was so excited I swam as close to them as I dared. They are normally tame around divers and snorkelers and are safe to swim nearby. Of course I got a little too close for my first time and once one started swimming toward me with its huge, black, hollow mouth open, I freaked out and swam away. The mantas stayed nearby our group and even put on a little show, doing flips under water and even breaching the water a few times.

Other, more experienced swimmers than I even spotted a blacktip shark and dove down to take photos of blue starfish.

Next we hiked down a short path to the Keprohi Falls. The path was lush with green vegetation and bright colored flowers. It was a little tricky walking over the slippery rocks, but the tour guides were helpful in assisting us so nobody fell. Once we made our way carefully down the rocks we were instantly rewarded with the crisp, cool feeling of the waterfall's pool. We swam and took pictures. Some even dared to climb up the rocks behind the waterfall, the flowing stream giving them a sort of aquatic massage as they sat under the falls.



Kwajalein residents on vacation in Pohnpei hike up the very steep Sokehs ridge.

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POHNPEI from Page 7

We ate lunch on a beautiful sandy beach. The guides had brought us a bento lunch consisting of fish, sausage, rice and a hard-boiled egg. We ate on the beach with chopsticks right out of the banana leaves that served as the 'bowl' that held our food and kept it warm. It was definitely a first for me and one of the best meals I had on the trip.

Our final stop of the day took us to Nan Madol, the ancient ruins that lie off the eastern shore of Pohnpei. It is a series of islets that are separated by a network of water channels. Nan Madol actually means 'spaces in between' in reference to these channels. On each small island can be seen huge stone structures that were constructed over 800 years ago and are still standing. To this day, researchers and archeologists do not know how the huge stones were brought to the island or how they were able to erect these highly intricate and sturdy structures. Our tour guides told us the background of Nan Madol and that most Pohnpeians believed the stones were flown here using magic called 'unani'.

We climbed off the boat and one by one had to cross an old, rickety, wooden bridge that we weren't so sure would actually hold our weight as we cautiously crossed. It wasn't really dangerous though, it was only four feet off the ground and went over a measly stream with only about six inches of water. We were able to freely tour the ruins, climbing the huge, stone walls and looking deep into holes which were thought to be either ancient jail cells or meditation chambers. The tour guides were unclear about which purpose it served. Either way, they were dark, dirty and filled with spiders and other creepy crawlies, which of course didn't stop some of the boys from jumping in to take a few photos.

The boats took us back to The Village just in time for happy hour and dinner on their patio, where we enjoyed a stunning, vibrant sunset. We feasted on Pohnpei pepper steak, crab, and all sorts of delicious sides and appetizers like sashimi and fried rice. Dinner ended with a spectacular dessert show of Bananas Foster. The chef brought out the ingredients and set

The Kwajalein Hourglass



Photo courtesy of Bill Eisele

The view of Kolonia Harbor and Sokehs Rock from the Ocean View hotel in Pohnpei.



Left, Liduhduhniap Falls and right, a monument erected at Liduhduhniap Falls in honor of the men and women that died from flash flooding in 1999 and 2002.

up a tray right beside our table. He peeled and cut up bananas, sautéing them in a pan over a low flame. Next he poured Bacardi 151 down a spiraled orange peel, and holding it over the pan lit it on fire. He added the bananas to vanilla ice cream and served it to the table. The show was amazing but not as much as the decadent dessert tasted.

The last day before we left we spent some time at Carver's Vil-

lage. It is a small area in Kolonia where local artisans make handicrafts and carvings. Many of the handicrafts found at the Mic Shop on Kwajalein come from Pohnpei. Most of our group was interested in purchasing carvings.

Unfortunately, there used to be more shops open, but now there are just four. Regardless, there was still quite a bit to choose from and I had a hard time deciding what

I wanted to bring back with me. I would say the most popular carvings were the sharks.

They had all different kinds including some fierce looking hammerheads. Some were made using one solid wood color and others were a mixture of light and dark. They even had real shark teeth in their mouths. There were also turtles, whales, dolphins, manta rays, seahorses and more.

The carvings ranged from small, costing only a few dollars, to large, costing hundreds of dollars.

They are tricky to fly back to

Kwaj in one piece. I brought an extra carry on suitcase and filled it with bubble wrap, knowing I was going to put my carvings in there on the way back. If you buy a large item, like a shark, you can usually just carry it onto the plane as long as it fits in the overhead compartment.

While some of us left on Aug. 5, others stayed behind to enjoy a few more days of paradise. I was a little jealous when I found out they got to go to Nahlap Island for the day. They got to kayak, play basketball, swing on a cool rope swing and

slide down a huge slide into the water. It sounded like a lot of fun and something I'll be sure to include in my trip next time.

Five days in Pohnpei was plenty though, giving us ample time to visit all the main attractions and still have time to relax and unwind.

So if you're feeling a little cooped up here on Kwaj or Roi, or don't want to spend thousands of dollars travelling back to the states for vacation, give the Garden Island of Micronesia a visit; just a few days will perk you up and have you feeling revived in no time.



Photo courtesy of Jana DeVille

Above, the dock at Nahlap Island. Nahlap Island is located on Pohnpei's outer barrier reef on the southwest side of the island. Local Kwajalein residents spent a day there during their vacation to Pohnpei Aug. 6.

Right, a tour guide crosses the rickety wooden bridge that leads to the ancient ruins of Nan Madol. To this day, it is still not known how the huge walls were built and still stand today.



Photo courtesy of Nancy Turner

A dock and water slide on Nahlap Island that was visited by local Kwajalein residents while on vacation in Pohnpei.



Corp of Engineers departs Kwajalein

Legacy of 50 years at USAKA left behind

By **Dino W. Buchanan**
Honolulu District Public Affairs

The Corp of Engineers Kwajalein Range Office was officially established in 1959 when Kwajalein was selected to be the testing site in the Nike-Zeus Anti-Missile Program of the (then) U.S. Army Rocket and Guided Missile Agency. At about the same time, the island of Roi-Namur was chosen for development as a center for missile re-entry characteristics studies, sponsored by the Advanced Research Projects Agency of the Department of Defense. This program, designated Project PRESS (Pacific Range Electromagnetics Signature Studies), had related facilities in California, Hawaii, and Wake Island. The Corps resident office was established to administer contracts and construction on Kwajalein.

The Corps mission in Kwajalein is to administer military construction and construction contracts in the Republic of the Marshall Islands. During the last few decades, the primary Corps employees have been Resident Engineer Lou Askew, Civil Engineer Technician Darlene Duarte, Quality Assurance Representative George Lum, Mechanical Engineer John Muhlbauer, Civil Engineer Darrin Berrends, Quality Assurance Representative George Olson, Civil Engineer and Contracting Officer's Representative Jesse Duarte and Secretaries Linda Hardy and Beverly Vencill. Other notable Corps employees include Terry Brown and Ron Wynne. There were many Corps employees who preceded this group – those who



The U.S. Army Corps of Engineers “Kwajalein Atoll Office” after it opened in 1959. *Courtesy photo.*

left an indelible Corps legacy on Kwajalein and other isles in the atoll that continues today.

Although the office and core staff were small, the legacy of Corps projects and function remains unparalleled in the central Pacific. That legacy, however — 50 years of ingenuity, expertise and presence — came to a close in June with the closure of the resident office. With the slow down of military related construction on Kwajalein the need to have the KRO has lessened. The U.S. Army Kwajalein Atoll installation has also been downsizing, in part because of budget constraints and technological improvements such as a new trans-oceanic fiber-optic cable that will allow the testing range to be operated extensively from sites in the United States, thus minimizing operation costs, new construction and the need for on-site workers or residents.

According to Askew, former Kwajalein Office Resident Engineer, administering the construction contracts for USAKA presented many unique challenges.

“The environment is very corrosive and the location is so remote. Construction considerations that are taken for granted on the mainland and even in Hawaii, can present major logistical challenges. Because the islands are so small, we (the Corps) are limited in the number of contractors who can work here at any one time. As such, costs of construction are significantly affected.”

“The work we do here is very interesting,” said George ‘Marty’ Olson in a 2002 *Pacific Connection* story. “We’re building things that have never been built before. The work is exciting, never repetitious.”

Olson was the construction representative on the one-of-a-kind launch test facilities project built on Meck Island in 2000, for which he was awarded a



Standing in front of the KRO in 2006 are Rodney Leong, George “Marty” Olson, Jesse Duarte, Lou Askew, former District Commander Lt. Col. Charles H. Klinge and Fred Nakahara. *Photo courtesy of Lt. Col. Charles H. Klinge*

Superior Civilian Service Award.

Duarte, who lived and worked on Kwajalein for eight and one half years, agrees with Olson that the silos were a big challenge.

“I also think that our construction of the Roi-Namur Island Power Plant — it provides all energy needs for the island residents and the ALTAIR (ARPA Long-Range Tracking and Instrumentation) on Roi-Namur and TRADEX (Target Resolution and Discrimination Experiment) radars and relevant facilities, the Vehicle Paint and Preparation Shop and Cold Storage Facility on Kwajalein, plus the Power Plant on Kwajalein and the Meck Missile Silos were our biggest challenges — and our biggest suc-

cess stories as well,” said Duarte.

Duarte added that he thinks USAKA will miss the luxury of having a Corps office in Kwajalein.

“USAKA has said numerous times that they would prefer to keep the Corps presence on Kwaj. I also believe they will miss the presence of our construction contractor, San Juan Construction (from Montrose, Colo.), who has performed superbly over the years and supported USAKA and the Kwajalein base contractor Kwajalein Range Services.

“We (the Corps) will continue to support USAKA from Honolulu until the USAKA program supports a District resident professional,” said Honolulu District Commander Lt. Col. Jon J. Chtyka. “We’re looking

at possibly reopening the resident office in FY11 or beyond.”

Duarte added that San Juan [Construction Company] is also expected to leave Kwajalein in December after assisting Verizon with the installation of a fiber-optic cable to Hawaii. With that installation, Duarte said that the long-held feeling of remoteness by Kwajalein residents from the rest of the world should diminish.

The 50-year on-island expertise, presence and support from the Honolulu District personnel and U.S. Army Corps of Engineers will be no doubt be missed, but hardly forgotten, as the legacy of engineering marvels is forever inscribed upon the landscape of Kwajalein Atoll.



The Corps Kwajalein Resident Office oversaw the building of the 13.5 megawatt power plant on the island of Roi Namur. The 34,000 sq. ft. facility houses nine 1,500 kilowatt diesel engine-generator sets with state-of-the-art controls. It was completed in 2001, two months ahead of schedule. *Honolulu District file photo*

which decodes the messages. The digital station displays what someone is typing at a keyboard. "It's fun to play with," said Riley. "It doesn't require much power either and you can still communicate with people all over the world."

While Riley was demonstrating the digital station, he said, "The guy on here now is some Russian, probably in western Siberia."

Besides talking to the world, ham operators can talk to people 'out of this world' too. Many operators have been able to talk to astronauts aboard the Space Shuttle in orbit.

To become a ham operator, an FCC license must be obtained.

According to Carey, there are three different levels of licenses. 'Technician' is the beginning one. That gives an operator privileges on certain frequencies, mostly very high frequencies which are line-of-sight and not a lot of distance.

Then there is a 'General' license. A test which includes a lot of technical and electronics aspects has to be passed. A general license gives access to frequencies that bounce around the world.

The 'extra' license, which is extremely technical, is the highest level of license that can be obtained and that gives access to all frequencies that are open to ham operators.

However, anyone can listen to ham radios and anyone can operate a radio as long as it's in the presence of a licensed station operator.

Carey said volunteer examiners can give the tests on Kwajalein. They include Carey, Gorham, Ivy Springer, Riley and Bill Cantrell. At least three have to be present to hold the test. "We send in the papers and if they are approved, they get their licenses," said Carey.

All ham operators with a license have a call sign that indicates what part of the world they are located in. Carey said, "Kwajalein's call sign is V73 and if you put out V73, there's a lot of people from all over the world who want to talk to somebody on a small tropical island in the Pacific. We get all kinds of calls from everywhere. People know where we are because all ham operators have a map of the world that show the locations of all the call signs."

When talking with operators in other countries, the members said most people around the world speak enough English to communicate but as Bolen said, "Let's say you and I were talking in fluent Russian. Then every 10 minutes or so I would have to speak in English to identify myself as American."

There are one or two countries, such as North Korea, the U.S. government forbids ham operators to communicate with.

Riley said, "I've never heard anyone from North Korea on the radio. They probably don't have any private ham radios there."

Interestingly, the operators said that they frequently hear young Chinese girls using ham radio in order to learn to speak English more fluently.

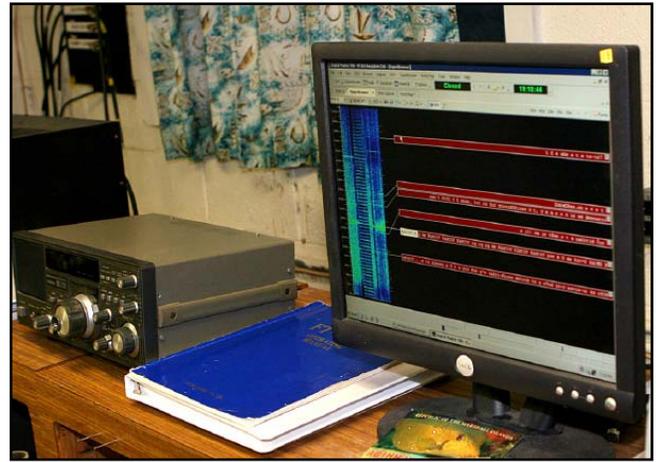
But with terrorist threats around the world, many governments have moved to restrict radio frequencies for official use only and some sell them for big money.

Carey said an organization called the Amateur Radio Relay League represents ham operators to Congress. They try to protect frequencies from being sold to commercial interests which would deny those frequencies to ham radio operators around the world. Other countries have similar organizations. Another of the League's main functions is to coordinate communications around the world in case of emergencies and natural disasters.

Carey said that unfortunately, interest in ham radio has waned among the young.

"What with the Internet, Twitter and cell phones, ham radio isn't very glamorous to some of the young people" he said. "They don't have to take a test or study to use those other things. Young people used to be really interested in this stuff, but nowadays, you don't find too many who are into it."

Club member David Martin said, "It didn't used to be that way. When I was a kid, putting together a radio



The digital station picks up what a ham operator is typing on a keyboard somewhere in the world.

and listening to another radio station was the greatest thing in the world. It was magic. It's still magic. A lot of the operators around the world still build their own radios. That's the fun of it."

Carey said, "We have the Boy Scouts in every now and then and we hold a yearly on-the-air jambo-ree. Scouts can earn badges for radio operation, so that's gotten some of them interested in it."

Riley pointed to the digital station saying, "Now this I think kids would find interesting because it's almost like a chat room in a way and it's easier than using voice."

With the population reduction on the island, the club membership has dwindled to a handful, although there are several ham operators on Kwajalein who don't belong to the club.

"A lot of people who were involved left after Raytheon lost the contract," said Carey.

Anyone interested in more information on the club can contact Carey at careyonisle@hotmail.com or contact any of the members.

So if you're tired of the same old AFN programming or searching for a DVD at the Shoppette or surfing the slow Public Internet, why not take a look through that 'window to the world' and check out the Radio Club.

It really is fascinating and who knows, maybe you would get the chance to save a stranded hiker in Idaho or a boat in distress on the high seas or at the very least, talk to a lonely Russian somewhere in western Siberia.

Juvenile board reports on results

Hourglass Reports

A Juvenile Review Board met recently to determine appropriate sanctions to recommend to the Commander USAKA/RTS, to be imposed against a juvenile dependent of Kwajalein residents. One fifteen-year-old juvenile was

found to be in violation of the curfew hours set forth for minors in USAKA/RTS Policy 608-1 (Curfew Policy). The USAKA/RTS Commander approved an 8 p.m.-5 a.m. curfew for weekdays and an 11:00 p.m.-5 a.m. curfew for weekends until December 10 for the juvenile.

A JRB is administrative in nature and is not to be construed as judicial action against the juvenile involved.

Boards are convened pursuant to USAKA Regulation 27-5 and serve as an alternate to imposing an administrative bar from the island.

Eleven servicemembers die in Afghanistan

Petty Officer 3rd Class Anthony C. Garcia, 21, of Panama City, Fla. died Aug. 5 while supporting combat operations in Farah Province, Afghanistan.

Four Marines died Aug. 6 while supporting combat operations in Farah province, Afghanistan: **Lance Cpl. James D. Argentine**, 22, of Farmingdale; N.Y. **Lance Cpl. Travis T. Babine**, 20, of San Antonio, Texas; **Cpl. Christian A. Guzman Rivera**, 21, of Homestead, Fla. and **Sgt. Jay M. Hoskins**, 24, of Paris, Texas. Argentine, Babine and Hoskins were assigned to the 2nd Battalion, 3rd Marine Regiment, 3rd Marine Division, III Marine Expeditionary Force, based out of Marine Corps Base Hawaii, Kaneohe Bay. Guzman Rivera was assigned to the 3rd Combat Assault Battalion, 3rd Marine Division, III Marine Expeditionary Force, Okinawa, Japan.

Capt. Matthew C. Freeman, 29, of Richmond Hill, Ga., died Aug. 7 while supporting combat operations in Kapisa province, Afghanistan. He was assigned to Marine Aircraft Group 36, 1st Marine Aircraft Wing, III Marine Expeditionary Force, Okinawa, Japan.

Staff Sgt. Tara J. Smith, 33, of Nashville, N.C., died Aug. 8 in Bagram, Afghanistan, from a non-combat related incident that occurred Aug. 4 at Camp Phoenix, Afghanistan. She was assigned to the 50th Signal Battalion, 35th Signal Brigade, XVIII Airborne Corps, Fort Bragg, N.C.

Spc. Matthew K.S. Swanson, 20, of Lake Forest, Calif., died Aug. 8 at the National Naval Medical Center in Bethesda, Md., of injuries sustained during a vehicle roll-over July 19 in Logar Province, Afghanistan. He was assigned to the 3rd Brigade Special Troops Battalion, 3rd Brigade Combat Team, 10th Mountain Division (Light Infantry), Fort Drum, N.Y.



*Let them say of me
I was one who believed
in sharing the blessings
that I received*

*Let me know in my heart
when my days are through
America, America,
I gave my best to you*

Lyrics from American Anthem from Ken Burns' *The War*

Sgt. Jerry R. Evans Jr., 23, of Eufaula, Ala., died Aug. 7 in Wardak Province, Afghanistan, of wounds suffered when an improvised explosive device detonated near his vehicle. He was assigned to the 2nd Battalion, 87th Infantry Regiment, 3rd Brigade Combat Team, 10th Mountain Division (Light Infantry), Fort Drum, N.Y.

Lance Cpl. Dennis J. Burrow, 23, of Naples, Fla., died Aug. 7, 2009 while supporting combat operations in Helmand province, Afghanistan. He was assigned to 2nd Battalion, 8th Marine Regiment, 2nd Marine Division, II Marine Expeditionary Force, Camp Lejeune, N.C.

Lance Cpl. Javier Olvera, 20, of Palmdale, Calif. died Aug. 8, 2009 while supporting combat operations in Helmand province, Afghanistan. He was assigned to 2nd Battalion, 8th Marine Regiment, 2nd Marine Division, II Marine Expeditionary Force, Camp Lejeune, N.C.



THE MARSHALLESE CULTURAL CENTER will be open 3-5 p.m. on Mondays in August. It will not open on Thursdays due to lack of volunteers. Questions? Call Sue Ellis at 54364.

HELP WANTED

KRS and CMSI Job Listings for On-Island Positions will be available at the Kwajalein, Roi-Namur and Ebeye Dock Security Check Point bulletin boards, the bulletin board by the Continental Travel Office, the Roi-Namur Terminal/Post Office bulletin board and at Human Resources in Building 700. Job Listings for Contract Positions will be available at www.krsjv.com, on the bulletin board by the Continental Travel Office and on the Roi-Namur/Post Office bulletin board. Full job descriptions and requirements for Contract openings are located online at www.krsjv.com.

NEED EXTRA MONEY? KRS employment applications are continually accepted for Casual Positions in the Community Services Departments, Medical Department and the HR Temp Pool. Some of the Casual positions are: Recreation Aides, Medical Office, Media Services Specialist, Substitute Teacher, and HR Temp Pool Office Support. Questions? Call 54916.

THE UNIVERSITY OF MARYLAND is offering SOCY 105 class. This would be the Fall Session 1 from August 24 to October 18 if enough students enroll for the face to face class. Lora Kendrick will be the instructor. Classes will be held at the high school two evenings per week, three hours per night. The class description for SOCY105 - Introduction to Contemporary Social Problems (3) is an exploration of various personal, institutional, cultural, historical, and global problems that confront American society today. Problems range from drugs, divorce, crime, mental illness, and alienation in modern society to the environment and national and global economic and political conflicts. Special attention is paid to issues of technology and

Religious Services

Catholic

Saturday Mass, 5:30 p.m., in the small chapel.
 Sunday Mass, 9:15 a.m., in the main chapel.
 Mass on Roi is only on the first Sunday of the month at 12:15 p.m., in Roi Chapel.

Protestant

Sunday

8 and 10:45 a.m., on Kwaj and Roi-Namur service at 4 p.m.

Baptist

9:40 a.m., Sunday, in elementary school music room.

Latter-day Saints

10 a.m., Sunday, in Corlett Recreation Center, Room 3.

Jewish services

Last Friday of the month in the Religious Education Building. Times will vary. Contact the Chaplain's office, 53505, for more information.

Native Plant Stewardship Program

Community Activities is looking for people to help create a nursery of native and culturally useful plants. These plants will be used to increase biodiversity of our native plant population and to beautify our islands. We need both volunteers that are willing to be part of ongoing care of the plants, as well as the occasional muscle to be called in for special projects. If you are interested or would like more information, call Amy at 53331.



WANTED

2009 KWAJALEIN CALENDAR. Call, 54632.

SCUBAPRO AIR2 alternate regulator with hose, new or used. Call John, 53290.

TWILIGHT SERIES TO BORROW, would like to read Eclipse and Breaking Dawn by Stephanie Meyers, will return when finished. Contact 52597.

LOST

AM/FM RADIO WALKMAN with head set, left at the gym on Aug. 4. \$20 reward offered. Call 55558.

PATIO SALE

MONDAY, 7 a.m., at quarters 452-B. Rain cancels. Girl's clothes, dishes, plants, books, and linens. No early birds.

MONDAY, 8 to 10 a.m., at quarters 437-C. Clothing, microwave, small radio and a vacuum cleaner.

FOR SALE

GIBSON LES PAUL, Line 6 Metal Core Pedal and Wah pedal, \$995; Panasonic DVD recorder, \$150; six inch reflector telescope and soft carrycase, \$300 and a vacuum, \$30. Call after 5 p.m., 53329.

BLACK LEATHER SOFA sectional, \$900; black leather ottoman, \$50; Whirlpool dishwasher, \$200; dishes, set of 12, sand/gold, \$80; Rubbermaid bike trailer, \$50; women's Giant bicycle, three and a half months old, \$200; Black TV stand, \$75; 24 inch Toshiba television, \$250; Speedrail canopy frame, \$200; bookshelf, \$40; Golf club set, \$200 and two-inch white blinds 400 housing, \$200. Call 52305.

PLANTS, \$5 to \$25. View at quarters 211-A, call 53698 after 6 p.m.

SCUBA BCD, size medium, weights not integrated, \$50;

Henderson Polartex dive suit, extra large, \$50 and soft weights, two each, two pounds and three pounds, \$1.50 per pound. Call 53698 after 6 p.m.

SCREENED IN DINING CANOPY, 12 feet by 12 feet, never used, \$90 or best offer. Call Amy 51416 at work or 52301 at home.

WATER BEDS, two, complete, super-single size, \$50 and a King with under-bed drawer set, \$100. Call 53698 after 6 p.m.

BOOTS, brand new, leather Timberland Pro Series, size 10 wide, electrical shock hazard/ steel toe/anti-slip, comes with waterproofing material, paid \$130, asking \$40. Call 52434.

CHILDREN'S CLOTHES, used, boys size seven and eight, girls size 10-12 and 14, \$1 each; women capris, size four, \$2; tops, size small, \$2; men's shirts, size large, \$2; kids shoes and sandals \$1 per pair; mini vacuum, \$5 and an electric hair clipper, \$5. Drop by any afternoon at Dome 165 after calling 50165.

SUITCASE, LARGE, black for traveling, \$80. Call for more details, 55310 or 58209.

DVD PLAYER, five disk, \$75; Panasonic VHS player, \$25; CD stereo player with CD's, \$25; alarm clock, \$10; DVD's, \$5; Hit Movies VHS tapes, \$1; fake palm tree plant, \$5 and Play Station 2 games, \$5 to \$10. Contact Cory at 53445 or 55525.

RUBBERMAID BURLEY, \$100; Schwinn burley, \$15; computer desk, \$50; Sun bike frame, \$50 and a 40 gigabyte iPod Photo, \$50. Contact 52279.

TWO SCUBAPRO GLIDE Plus BCDs, one medium and one extra large with integrated weights and Air2, in excellent condition, \$250 each; Scubapro octopus with MK250 first stage and a Dacor Magnum regulator \$50 each. Call 53336.

MICROWAVE, small, \$25; desk chair, \$20; bike trailer, large and heavy duty aluminum, \$100; two bar chairs, folding, \$30; clothes hanging rack, free-standing, \$15;

Café Pacific

Lunch

Sunday

Coq au vin
 Eggs benedict
 Home style pot roast
 Grill: Brunch station open

Monday

Hamburger steak
 Sweet and sour pork
 Bacon and cheese quiche
 Grill: Brunch station open

Tuesday

Italian bread
 Meat lasagna
 Minestrone soup
 Grill: Italian burger

Wednesday

Corn bread
 Fried chicken
 Vegetable dujour
 Grill: Cajun burger

Thursday

Islander's rice
 Mambo pork roast
 Jerk chicken wings
 Grill: Ham stackers

Friday

Irish lamb stew
 Tuna casserole
 Boiled potatoes
 Grill: Grilled cheese

Aug. 22

Meatloaf
 Brown gravy
 Oriental vegetables
 Grill: Corn dog

Dinner

Tonight

Minute steak
 Chicken stew
 Spinach Cauliflower

Sunday

Potato dujour
 Chicken divan
 Vegetarian tofu

Monday

Ono casino
 Beef pot pie
 Oriental vegetable

Tuesday

Swiss steak
 Vegetarian lentils
 Mashed potatoes

Wednesday

Top sirloin
 Chow fun pork
 Topped baked potato

Thursday

Beef stew
 Herb chicken
 Brown rice pilaf

Friday

Spaghetti
 Clam sauce
 Italian mix grill

MICRONESIAN HANDICRAFT SALES



U.S. Navy Capt. Holmberg inaugurates the Micronesian Shop in 1962.

MIC Shop opening in new location 1-5 p.m., Aug. 16

The Micronesian Shop is moving to the mini-mall in the old DVD Depot location. Join them for a ribbon-cutting ceremony with Col. Frederick Clarke. Check out the items from Micronesia to send to friends and family back home. The MIC Shop is sponsored by the Yokwe Yuk Women's Club and proceeds benefit education in Micronesia.

beach umbrella, new, \$15; medicine chest, metal and locking, \$10; electric razor, \$10; hammock, \$12 and a CD Drive, used for \$15 or best offer. Contact 53417 or 55590.

DVD'S, CHEAP, over 200 movies and a DVD/VHS player, for best offer; microwave; toaster oven; coffee maker and a computer. Call Cory at 55525 or 53445.

COMMUNITY NOTICES

PUTT PUTT GOLF at Holmberg fairways on August 23 from 1 to 4 p.m. All are welcome. The bounce castle will be up in the patio area and the Country Club will be serving refreshments to keep you cool.

IVEY GYM WILL BE closed on Aug. 25 and 26 for a deep cleaning. Mark your calendar and schedule alternate workouts on these days. The gym will reopen on Aug. 26 at 4:30 p.m.

THE COUNTRY CLUB 'End of Summer' Buffet Dinner will be on August 29. Menu to include B.B.Q. spare ribs, southern fried chicken, buttered corn on the cob, cole slaw, corn bread and frosted layered cake for dessert. Buffet dinner starts at 6:30 p.m. and seating is limited. Cocktails served at 6:30 p.m., cash bar will be open. Bus service will be available from 6 p.m. to 11 p.m. from ocean view to the Country Club and back. Tickets are \$27.50 per person; to purchase

see Marie Curtiss at the Retail Service Office building 805 next to the Bowling Center, or call 53933.

MAIN SOCCER SEASON team registration is from August 11 to 31. Time to get your adult soccer teams together and register them at Community Activities with a \$50 registration fee. If you are looking for a team, contact Community Activities and we will put you on the free agent list. Season dates are from September 10 to October 30.

THE YOKWE WOMEN'S CLUB invites all women to their first event of the season, "Cheeseburger in Paradise". Come enjoy dinner and fun with new and returning members on September 2 at 6:30 p.m. in the Emon pavilion. Bring a friend!

START SMART BASKETBALL 2009 is beginning for pre-kindergarten children ages three through five. Registration is open August 11 through September 5 and the program begins September 16. Contact 52158 for registration information.

CYSS YOUTH BASKETBALL 2009 registration opens from August 4 to August 29. Open to boys and girls in grades kindergarten through 6th and the league dates are Sept. 10 through Oct. 31. Coaching opportunities available as well. Contact 52158 for registration information, building 356. Contact 53796

for sports program information.

THE CYSS SCHOOL Aged Services before and after school care program for kindergarten through sixth graders begins 25 August. Registration and enrollment opens on Aug. 11 at CYSS Central Registration, building 356, and space is limited. For more information, contact Micah at 52158.

OKTOBERFEST is being celebrated at the Vet's Hall on October 4.

DURING THE ABSENCE of a priest, the Liturgy of the Word and Communion Service will be held on Sunday mornings at 9:15 a.m. in the Island Memorial Chapel.

AA MEETINGS on Roi-Namur are now being held at 1:30 p.m., every Wednesday, in the KEAMS Training Room at the Terminal Building. Call Bill, 52338 or Marion, 55362.

IS TRAINING now has classes available for adults who do not have a CAC. E-mail cindy.brooks@smdc.army.mil for a schedule of classes.

WEIGHT MANAGEMENT Support Group meets at 5 p.m. every Friday in the Hospital Conference Room. The community is invited. Questions? Call 55362.

Projected menu-subject to change

Café Roi

Lunch

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Aug. 22
Roast pork loin	Garlic roast beef	Beef/sausage lasagna	Reuben on rye	Alaskan white fish	Chicken	Pulled pork
Stuffed chicken breasts	Chicken/avacados	Tortellini	Chicken fricassee	Provencal	Roast pork	Blackened fish
Salon filets	Huevos rancheros	Spinach lasagna	Baked ziti	Sweet/sour cabbage	Taco bar	Penne/broccoli
Grill: Brunch station open	Grill: Brunch station open	Grill: N/A	Grill: N/A	Grill: Ham and Swiss	Grill: N/A	Grill: N/A

Dinner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Aug. 22
Braised beef	Thai beef	Beef pastichio	Broiled flank steak	Fried chicken	Chicken/champagne	Roast chicken
Chicken breasts	Garlic chicken	Chicken	Chicken picatta	Pork cutlet	Beef shoulder	Grilled kabobs
Creamy polenta	Szechuan noodles	Fish plaki	Seared mahi mabi	Baked beans	Chickpea stew	Veggie kabobs

GOING GREEN from Page 3

Automotive follows many procedures to prepare a vehicle for use on Kwaj. According to Stone it can take as long as 30 days to properly prepare a vehicle for use on Kwajalein. They are carefully inspected and any exposed wiring connections and areas with rainwater leaks are sealed so they are protected from corrosion.

Everything that can be done to extend the life of all vehicles is attended to before it goes into service. In a further effort to control corrosion, vehicles in use are required to be washed weekly to remove the salt.

All of the procedures are vitally im-

portant because as Stone said, "Most of the vehicles we scrap run fine, it's the bodies and frames that rot out." The new electric vehicles covered in last week's *Hourglass* are undergoing such procedures now.

They will be painted where paint is needed, they will be undercoated and any water leaks will be sealed. Hopefully, since they are all aluminum, corrosion won't be as much of a problem with them as with standard vehicles.

As a side item, Stone said Col. Clarke gave funding for an additional two Quality of Life scooters that will join the six QOL scooters

and pickup truck already on island. One will go to Roi and the other to Kwaj. They will be set aside strictly for residents of the community to rent.

"That's good since the command has expanded license privileges to command-sponsored spouses," Stone said. "They can be rented anytime during the day, seven days a week."

He added, "The original scooters were purchased out of KRS Quality of Life Committee funds and the command thought that was a good idea and provided additional funds for more scooters."

FLU PREVENTION TIPS



With the current concern regarding H1N1 Flu, a renewed emphasis on hand washing is one of the most important preventative measures to prevent the spread of germs. **PREVENTION TECHNIQUES** to reduce the spread of airborne and contact diseases:

- **Always cover your nose & mouth with a tissue, dispose of the tissue and wash hands immediately.**
- **Do NOT reuse the tissue or place it in your pocket. If no tissue, use your elbow instead of hands.**
- **Wash hands for at least 10-20 seconds with warm soapy water. If not water, use an alcohol-based hand cleaner.**
- **Avoid touching your eyes, nose or mouth. Germs spread that way.**
- **Keep a social distance of at least 3 feet from other people.**
- **If you are sick and have a fever of 100.4, go to First Stop for medication and stay at home for seven days or at least 24 hours after symptoms subside.**

For more information visit these WEBSITES:

<http://www.cdc.gov/swineflu/>

<https://blog.amedd.army.mil/tsg/?page=PostViewSingle&postId=102>

<http://www.cdc.gov/swineflu/pdf/brochure.pdf>

Weather courtesy of RTS Weather

Sunday: Partly sunny, 20 percent showers. **Winds:** Light and variable
Monday: Partly cloudy, 30 percent showers. **Winds:** ENE-ESE at 5-10 knots.
Tuesday: Mostly cloudy, 40 percent showers. **Winds:** ENE-ESE at 8-12 knots.
Wednesday: Partly sunny, 10 percent showers. **Winds:** Light and variable.
Thursday: Partly sunny, 20 percent showers. **Winds:** Light and variable
Friday: Partly sunny, 20 percent showers. **Winds:** Light and variable
Aug. 22: Partly sunny, 20 percent showers. **Winds:** Light and variable

Annual total: 32.12 inches
 Annual deviation: -19.93 inches

Call 54700 for updated forecasts or visit www.rts-wx.com.

Sunrise/set Moonrise/set High Tide Low Tide

	Sunrise/set	Moonrise/set	High Tide	Low Tide
Sunday	6:41 a.m./7:05 p.m.	2:57 a.m./ 4:02 p.m.	1:08 a.m., 4.5'	7:10 a.m., 0.9' 8:03 p.m., 0.9'
Monday	6:41 a.m./7:05 p.m.	4:02 a.m./5:01 p.m.	1:30 a.m., 3.6' 2:22 p.m., 2.7'	8:22 a.m., 0.3' 8:03 p.m., 0.5'
Tuesday	6:41 a.m./7:04 p.m.	5:05 a.m./ 5:57 p.m.	2:31 a.m., 4.1' 3:09 p.m., 3.3'	9:08 a.m., -0.3' 8:57 p.m., -0.1'
Wednesday	6:41 a.m./7:04 p.m.	6:06 a.m./6:48 p.m.	3:19 p.m., 4.7' 3:49 p.m., 3.8'	9:48 p.m., -0.7' 9:41 p.m., -0.5'
Thursday	6:41 a.m./7:03 p.m.	7:04 a.m./7:36 p.m.	4:00 a.m., 5.0' 4:26 p.m., 4.2'	10:24 a.m., -0.1' 10:22 p.m., -0.8'
Friday	6:41 a.m./7:03 p.m.	7:59 a.m./8:22 p.m.	4:38 a.m., 5.2' 5:01 p.m., 4.5'	10:58 a.m., -1.1" 11:01 p.m., -0.9'
Aug.22	6:41 a.m./7:02 p.m.	8:53 a.m./9:07 p.m.	5:14 a.m., 5.1' 5:35 p.m., 4.6'	11:30 a.m., -1.1' 11:38 p.m., -0.8'