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THE KWAJALEIN HOURGLASS

Current and former Kwaj kids and college students get in the spirit Sunday during the garrison's 2015 Independence Day celebration at Emon Beach.

Photo by Jordan Vinson

HOURGLASS REPORTS

This photograph by Roi resident Jim Bennett captures a small school of **crescent-tail bigeyes** (Priacanthus hamrur; other common names: moontail bullseye, goggle eye, lipauw, etc.) cutting through the lagoon about two miles south of Roi-Namur.

Crescent-tail bigeyes are known for their bright pumpkin-orange or ruddy exterior and big, bulbous eyes. They're found throughout tropical waters of the Pacific Ocean and Indian Ocean, as far west as eastern Africa and, reportedly, as far east as Easter Island. The fish grow to a maximum length of about 45 centimeters, live in waters up to a depth of 250 meters and feed on crustaceans, small fish and invertebrates.

As illustrated in Bennett's photo, crescent-tail bigeyes like the safety of numbers and are often found in small schools near deep lagoon pinnacles and outer reef slopes.

"They hang out on a coral head here off Roi about two miles south in the lagoon," Bennett said. "They're there every time we go."

Similar to how light plays off cats' eyes, crescent-tail bigeyes reflect a significant amount of light off their eyes, giving them what Bennett calls a "zombie fish" appearance.

"Anytime you hit them with a flash the whole school lights up," Bennett said. "It's like taking a picture of a cat's eye. Same difference. Only this is a school of fish, not a herd of cats."

Crescent-tail bigeyes by Jim Bennett.

KWAJ BIDS FARWELL TO SAILORS PETERS, FINLEY

HOURGLASS REPORTS

Veteran cruisers Paula Peters and Dale Finley lifted anchor, hoisted their main and sailed away from Kwajalein Monday. Owners of Sunrise, a 39-feet Fairweather Mariner ocean-going yacht, the couple plotted a course for Luganville in Vanuatu, located on the island of Espritu Santo—approximately 1,500 nautical miles almost due south of Kwajalein Atoll. Estimating an approximate transit time of 10-12 days with the trade winds at their backs, Peters and Finley said they plan to rest and take on fuel in Luganville and then sail on to the town of Port Vila, located on the island of Efate. There, they'll meet with a doctor who will perform medical examinations needed by Australian immigration officials before the couple may receive tourist visas and be allowed to check in at their final port of call in the Australian state of Queensland.

A pair of Kwaj "retread" residents, Peters' and Finley's departure Monday marked the end of their second tour on Kwajalein, which began in August 2012. Their first tour, beginning in 2005 and ending in 2009, was succeeded by 2.5 years of sailing Australia, travelling the Outback in an off road truck and camping. The two liked Australia so much that they're headed back.

"We plan on camping and cruising Australia again," Peters wrote via email. "We already purchased a used 4WD that is waiting for us to pick up."

Peters and Finley met in 1984 in the Marquesas in French Polynesia, where they ended up crewing on a boat together.

"We got off in Australia where we spent six months travelling before heading to the USA," Peters wrote. "We ended up settling in Sonoma, California. While living in Sonoma we bought a small sailboat and then in 1998 bought Sunrise."

The yacht has been the couple's home away from home ever since and will continue as such for many years to come.

Cruisers Paula Peters and Dale Finley depart Kwajalein Atoll Monday, headed for Vanuatu, New Caledonia and Australia.

Jordan Vinson

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.

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. Contents of the Hourglass are not necessarily official views of, or endorsed by, the U.S. Government, Department of Defense, Department of the Army or USAG-KA. It is published Saturdays in accordance with Army Regulation 360-1 and using a network printer by Kwajalein Range Services editorial staff.

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KAILUA BAY BUDDIES RETURN TO ATOLL FOR SOME CLASSIC COVERS

HOURGLASS REPORTS

The Kailua Bay Buddies returned to U.S. Army Garrison-Kwajalein Atoll last weekend for a series of shows that drew hundreds of rock, easy listening and pop lovers and dancers of all ages out to party.

Sponsored last weekend by Quality of Life, the trio, consisting of Darrell Aquino on bass, Clayton Apilando on guitar and Mark Caldeira on percussion, played first at Roi-Namur's Outrigger Bar and Grill July 3 and then followed up with a truly memorable performance at the Vets Hall on Kwajalein July 4. They concluded their tour with a final, headlining show Sunday at Emon Beach as part of the garrison's Independence Day celebration, which had been pushed back a day due to troubling wind directions and weather conditions.

At each show the group performed a smattering of covers of classic rock hits, easy listening jams and pop anthems ranging from Pink Floyd tracks to island music to Jimmie Hendrix-esque renditions of the Star Spangled Banner.

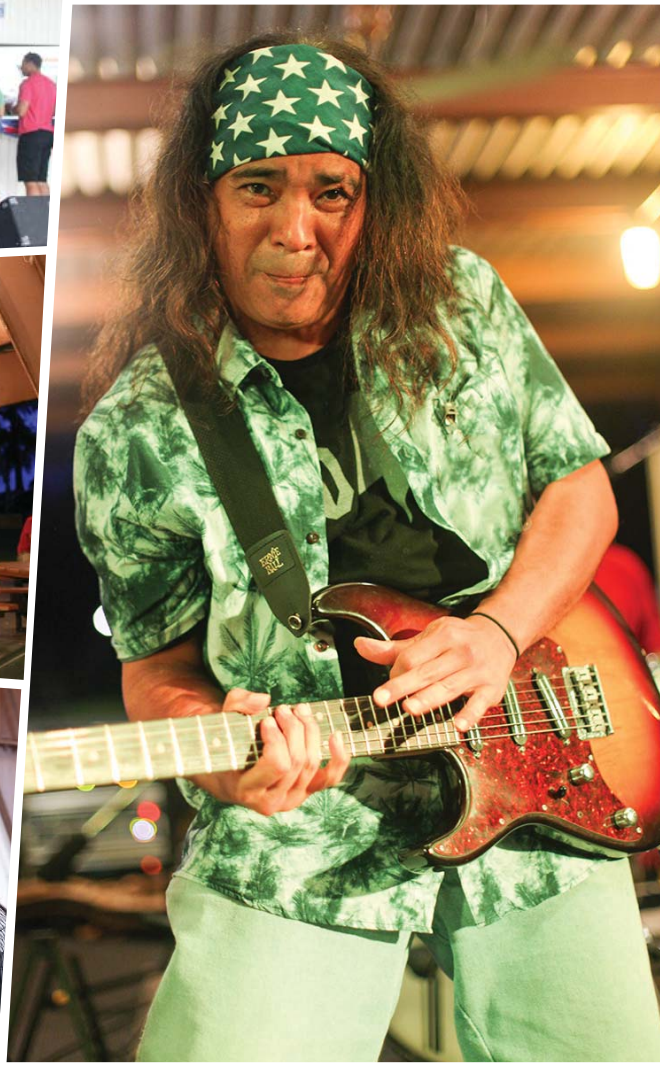
"It's schizo-clectic," Aquino said Sunday at Emon Beach after the group's first set. "That's what we call our style. It just goes everywhere. We like to play all kinds of different stuff."

Regardless of the genre the band digs into, when they're live the goal is obvious—to get the audience out of their seats and onto the dance floor. And judging by audiences' reaction to the Kwajalein performances, the Kailua Bay Buddies are well-versed in the trade.

"In all the shows that I've seen here [at the Vets Hall], these guys had by far the most dancers having fun on the dance floor," Kwaj resident Tim Roberge said Sunday. "I had never seen so many people dancing. It was great."

The Buddies, who regularly play large crowds in venues throughout Honolulu, enjoy the opportunity to get off Oahu and entertain the Army community on Kwajalein Atoll, Aquino said.

"We love it here. We love coming back," Aquino said. "The first time we came here, we kind of fell in love with [the place], and then we got invited back again and now again. So, yeah it's cool."



TOP: The Kailua Bay Buddies play for a large crowd at Emon Beach Sunday as part of U.S. Army Garrison-Kwajalein Atoll's 2015 Independence Day celebration. While normally sticking to venues throughout Oahu, the band was sponsored by Quality of Life to perform three shows on the garrison. MIDDLE: Darrell Aquino jams on the bass and sings. BOTTOM: Mark Caldeira plays the drums. RIGHT: Clayton Apilando performs a solo for the crowd.

Jordan Vinson

USAG-KA CELEBRATES 239 YEARS OF US INDEPENDENCE

HOURGLASS REPORTS

Fireworks shows in a tropical lagoon. Baggo tournaments. Coconut painting. Beach volleyball. Drum circles. Face-melting guitar solos. Snow cones. Patriotic bike parades. Inflatable bounce houses and burgers on grills. These are just some of the gems of a picture-perfect Independence Day celebration on U.S. Army Garrison-Kwajalein Atoll, and they all happened Sunday at Emon Beach.

A festive bicycle parade that even the nation's forefathers would be proud of kicked off the event. Decked out in their finest red, white and blue garb, garrison children peddled along Emon Beach, hopping off at the main pavilion at the beach to get their faces painted, munch on snow cones and rip down Community Activities' slip and slide ride. The parade was followed by an introductory speech by Deputy Garrison Commander Jenifer Peterson, in which she welcomed the community and told everyone to have a fun, safe time.

The community's baggo enthusiasts squared off in pairs and battled for hours for the right to take home the 2015 Independence Day Baggo Tournament coconut trophies. Runners-up Glenn Hibberts and John Finley duked it out with overall winners Jim Cossey and Flynn Gideon in a pitched showdown that saw the teams match one another point for point through three intense games that kept the onlookers on the edge of their lawn chairs.

"The win feels great," Cossey said after receiving his hand-crafted trophy. "We only wish that Dave Gray—usually the dominant competitor in this annual tournament—hadn't retired so that we could have beat him. Maybe next year."

The event brought out several island departments and private organizations to work together to make the celebration a success. While Kwajalein Art Guild volunteers helped parents and kids paint coconuts, the Kwajalein Swim Team served up gobs of tropical snow cones. Kwajalein Range Services catering staff served plates of hot food for those who came unprepared to man a grill. Community Activities offered a range of arts and crafts activities, games and rides for visitors. The Drum Down the Sun gang channeled their inner John Bonham and banged on congas, bongos and djembes. A Hawaii-based pyrotechnics crew, sponsored by Quality of Life, lit up the lagoon with a concussive, dazzling fireworks show. And the Kailua Bay Buddies, also sponsored by Quality of Life, jammed out for the crowds while they boogied well after the sun came down. All in all, it was a good day to be an American.

TOP: Jim Cossey and Flynn Gideon are awarded coconut trophies for their overall win at the end of the 2015 Independence Day Baggo Tournament at Emon Beach Sunday. MIDDLE: Residents dance during one of Kailua Bay Buddies' sets at the main pavilion at Emon Beach. BOTTOM: Kwajalein Art Guild volunteer Ashley Anderson helps Kwaj kids and Ebeye friends paint coconuts. LEFT: The fireworks show lights up the sky Sunday night.

Jordan Vinson

CLOCKWISE FROM TOP-LEFT: Emma Hutchins enjoys a snow cone; one of many boys and girls plays in the surf; Jeff Scharmann heads over to the main pavilion to check out the band; Stan Edwards hangs out on the beach with family and friends; Paul McGrew admires the fireworks show; Shawn Mirowitz and the Drum Down the Sun gang jam; Alana Leines bounces in an inflatable house; a pile of Kwaj kids are knocked down by a wave; Community Activities crewman Thompson Tarwoj gives a thumbs up in between jobs; Patrick Ward, Sabrina Mumma, Paul McGrew and Eric Nystrom chat before the band plays; members of CCAD-Marshall Islands hang out on the beach. ABOVE: Aubrey Anderson munches on a snow cone; Mark Fredericks and Troy King grill out.

TROPICAL STORM NANGKA SWEEPS NORTH OF ATOLL

BY RTS CHIEF METEOROLOGIST JOEL MARTIN

Joel Martin, the Reagan Test Site Weather Station's new chief meteorologist, explains the ins and outs of Tropical Storm Nangka during his first article for the Kwajalein Hourglass. For more on the expertise that Martin brings to the weather station, see the Hourglass' new "An Exchange" feature on the next page.

We went from a few clusters of showers holding hands southeast of us at the end of June to a full-blown tropical storm threat for the Fourth of July. What happened?

It all began near the end of June when a particularly violent burst of west winds came from Indonesia and raced along the equator. West wind along the equator is not a good thing if you worry about tropical cyclones developing in your Pacific neighborhood, and we were worried. You see, just one big burst of west wind feeds a clockwise-spinning system low in the Southern Hemisphere and a counterclockwise-spinning flow in the Northern Hemisphere. This burst spun up tropical cyclones in both hemispheres at the longitudinal point of about 150 degrees east (due south of Namonuito Atoll, part of Truk, in the Federated States of Micronesia).

Those first two tropical cyclones became wind engines, opposite spinning pinwheels, that helped sustain and grow even more west wind along the equator, continuing even farther east eventually all the way to Hawaii's longitude. The show was beginning.

For a tropical cyclone to form it needs heat in the form of warm water, which it uses as fuel for its engine. We have plenty of that here, especially considering the extra degrees that El Niño has added to water temperatures in the Pacific. Our fuel tanks are completely full.

For tropical cyclone birth we also need a low-level layer of air converging together and an upper-level layer of diverging air. We had that environment building up near Kwajalein: A special Tropical Upper Tropospheric Trough (TUTT) cell that lingered north of us created a divergence in the upper atmosphere, and the west wind burst approaching along the equator was forcing air to converge at lower levels.

Tropical cyclones also need an undisturbed column of air that allows for an upwardly-flowing circulation system, similar to how a chimney functions. We had that. Heat energy from the ocean surface was being sucked in at low altitudes, fueling the rotation of the cyclone, and was escaping at higher altitudes. The planet's own counterclockwise twirl can also infect this rising air column. If the converging winds move five-seven degrees poleward off the equator they gain stronger spin. We're north of eight degrees off the equator.

All the ingredients were coming together on our doorstep. The baby tropical cyclone was being born.

What ultimately became Tropical Storm 11W (named Nangka) was very challenging to predict from a forecast standpoint. I and my team at the RTS Weather Station began compiling forecasts of the system more than three days before the storm's closest approach, but the storm was nothing more than ill-defined cloud clusters southeast of us.

We had several models from weather agencies around the world at our disposal, but they are almost always inaccurate here in the tropics. Some computer weather models, for instance, were calling for a cyclone to form in 72 hours right on top of us. The Navy model had it going just south of Kwajalein. The U.S. civilian Global Forecast System model forecast a broad circulation over the top of us in 72-96 hours. And the European model was trying to blow us away, predicting a very intense storm developing.

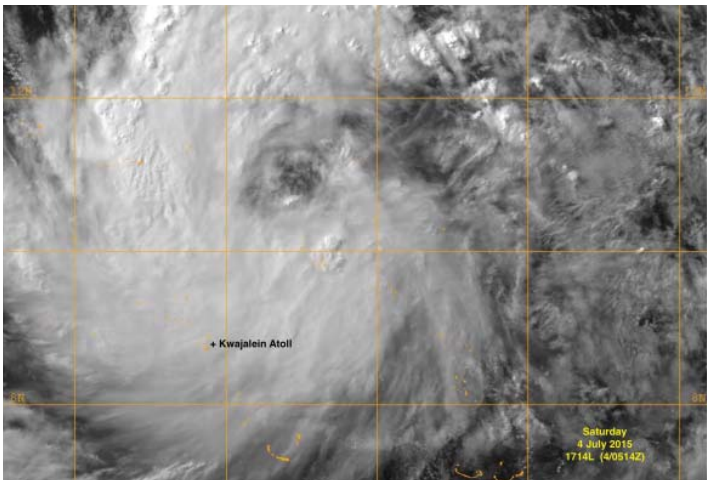
So that's it. As a forecaster in the tropics you're generally getting satellite images and data to work with. You have models you can't trust. You have no aircraft flying reconnaissance in the Pacific or any other direct weather sensors where the storm may be developing. There are very few ship reports in this part of the world. This is weather noir—Sam Spade meteorology. Mere scraps of information.

Making the best of it, though, we could see from satellite signs that converging winds were trying to spin. Early July 3 we got lucky when a scatterometer pass revealed a closed circulation 300 nautical miles east-southeast of Kwajalein Atoll. The computer models, probably fed by some of this better data from satellites, began to hint at a more northward track. We on Kwajalein Atoll were lucky that the lift north was significant enough to get the storm on a track that would take it northeast, then north, and finally northwest of our atoll.

Tropical Storm Nangka's closest approach came during the evening of July 4 at a distance of 100 nautical miles north of Roi-Namur—just south of Rongerick and Rongelap Atolls. We at the RTS Weather Station had forecast it to come within 60 nautical miles of Roi and at noon July 4. Not too far off the mark.

We had to issue west wind and west swell warnings for our harbors. We have no buoy data, but with help from the garrison's harbor managers we could see the swells and winds were getting risky. We probably had gusts up to 30 knots in the northern part of the atoll near Roi-Namur. Unfortunately, the Roi-Namur anemometer failed early in the event, so we may never know what the real wind speeds were.

All in all, we meteorologists did a satisfying job given the scraps of information to work with. It was just another day at the office with the biggest storms on the planet.



Tropical Storm Nangka during its closest approach to Kwajalein Atoll July 4.

RTS Weather Station

Interview and by Jordan Vinson

AN EXCHANGE

JOEL MARTIN is Atmospheric and Technology Services Company's new chief meteorologist at the Reagan Test Site Weather Station. A retired Air Force colonel, he is a former aerial reconnaissance weather officer for the Air Force's Hurricane Hunters and a former forecaster and research scientist for the Joint Typhoon Warning Center on Oahu. Martin has a bachelor's degree in meteorology and a master's degree in tropical meteorology. In this interview with Kwajalein Hourglass staff, Martin explains a bit about the importance of meteorology and the challenges of forecasting the weather in the equatorial Pacific.

How did you get into this line of work? Can you tell us a bit more about your background?

I am a storm chaser at heart. Growing up in western Oklahoma and seeing half a dozen tornadoes before I began college just set the stage. I chased tornadoes while getting a meteorology degree at The University of Oklahoma in 1977 and then graduated to hurricane hunting in the Air Force. My 1988 graduate degree in tropical meteorology at Colorado State included mentoring by one of the most respected tropical cyclone researchers of all time—Bill Gray. Gray had been mentored by Herbert Riehl out of the University of Chicago, who had literally written the book on tropical meteorology. I am part of a lineage of tropical weather knowledge.

To you as a professional, what is the importance of meteorology?

Economics. Economists have studied the relationship of weather to the economy, and 40 percent of the U.S. GDP is influenced by weather. Therefore, weather information is increasingly important.

What are you looking forward to on the job with Atmospheric Technology Services Company at the RTS Weather Station? What are some challenges you expect to see?

Very few companies do tropical meteorology. I'm looking to help us become one of the best at tropical meteorology and maintain world class tropical meteorology products and services. Also, this is my 40th year in professional work, and a 60-hour work week (mostly in a four-day time period) for a 60-year old retired colonel makes this old meteorologist start drooping by the end no matter how exhilarating the challenge. This is just one of many big challenges that will abound here on Kwajalein.

In your article on Tropical Storm Nangka you write about how equatorial regions of the planet serve as incubators for typhoons. In short, what role does this region have in birthing these monsters?

We have the main fuel: heat. The Earth has to dissipate that extra energy somehow, and it turns out that the tropical cyclone becomes the efficient way to dissipate the excess energy coming off the ocean surface. It's all part of the heat balance of the Earth. We have on the order of 36 named storms out here in the Pacific, whereas the Atlantic gets maybe 10.

At the time of this interview, Tropical Storm Nangka is bearing down on the Commonwealth of the Northern Mariana Islands and is forecast to become a super typhoon. But in its early stages you guys at the RTS Weather Station had a big hand in gathering data on the storm and projecting its likely path of movement to the northwest. Would you say that this puts you guys on the frontlines of these storms, so to speak?

Yes, definitely. We are at the gateway for Typhoon Alley. This is where the biggest storms on the planet are born. We're the first alert, and we fill the gap until the Joint Typhoon Warning Center takes over. They only start tracking these storms after they form. There's a critical information gap there that we're filling.

Today, humans and computers work together to read and predict the weather. You talk about how in other regions of the planet the human part of this relationship is being removed as computers become better at building reliable forecasts. However, in the tropics that's a different story, you say.

Humans as weather forecasters are being replaced more and more in the middle latitudes, on the mainland for example, by complex computer models that can provide reasonably accurate forecasts out 10 to 15 days. Meteorologists are employed in mid latitudes to build better and better models and produce snazzier and snazzier output. Try those same models in the tropics and they barf. Big time. The tropics will likely be one of the last places on the planet to eliminate human meteorologists doing forecasts, because the models don't work so well here. Don't believe me? Look at your favorite Internet weather places for a Kwajalein weather forecast. Most of these products are driven by the clueless models. Your Internet forecast may show 10 days of thunderstorms coming. (Hint: We only see lightning 10 days in an entire year here.) The models are built on horizontal mid-latitude thinking. In the tropics, vertical motion dominates with conviction, in the form of convection. Models have trouble dealing with convection. Because of this, the balance between the art and science of meteorology is still tilted on the side of the art in the tropics. In other words, gray hair experience—and not just computers, algorithms and big data—still has a home in meteorology in the tropics.

How have you handled the transition from working at the Joint Typhoon Warning Center and other major meteorology centers on Oahu and Guam to working here on Kwajalein?

This is more of a family atmosphere. It's a good transition for me, where I get to practice my skills and work at it on a very defined mission. The other ones were very broad missions with a lot of responsibility. I didn't get to really do that much meteorology; I was doing more administrative work. Here I get to focus on the meteorology more and help mentor the next generation of meteorologists. And there are very few places in the world where we're growing tropical meteorologists, and this is one of them. So I get to be part of that.

What are you looking forward to outside of work?

Everything: scuba diving, golf, biking. I've got an unusual four-wheeled bicycle with a Plexiglas dome. That's me. It's a fantastic bike. I'll be riding it everywhere when I get my flat tires fixed.

KWAJ YOUTH FINISH WEEK AT SPACE CAMP IN HUNTSVILLE

BY JASON B. CUTSHAW, SMDC PUBLIC AFFAIRS

Sixteen young students spent their summer among the stars.

Recipients of an Air, Space, and Missile Defense Association—or ASMDA—scholarship, the students had a chance to spend a week at Space Camp at the U.S. Space and Rocket Center in Huntsville June 29-July 3.

The scholarship winners were treated to lunch by members of the ASMDA board July 1 and had a chance to speak with those who made the week possible.

Col. Dewey A. Granger, chief of staff, U.S. Army Space and Missile Defense Command/Army Forces Strategic Command, told the Space Camp scholarship winners someday they may be the ones leading America back to the moon or beyond.

"Don't limit yourself, explore your world and ask questions," Granger said. "Whether you want to become an astronaut, an engineer, a Soldier or something else, greatness in life, regardless of your pursuit, requires you to work hard and learn, then to think.

"Let your curiosity guide you, and drive you to understand about the universe and the worlds beyond this one," he added. "You owe it to yourself to always be curious and to seek answers—possibly to questions we don't even know to ask yet. Space Camp is designed to help you explore that curiosity. In order to do things that have never been done, we need smart young men and women, just like you, who are curious about our universe. You all have it in you to be astronauts, mathematicians, scientists, Soldiers or whatever you want to be in life but you have to work hard, never quit, always remain curious and do one more positive thing every day."

Since 1996, ASMDA has sponsored children, ages 9-11, of a parent or guardian, military or government civilian, currently assigned to the USASMDC/ARSTRAT; Program Executive Office, Missiles and Space; Joint Functional Component Command for Integrated Missile Defense; Missile and Space Intelligence Center; NASA Marshall Space Flight Center; and Missile Defense Agency.

The 16 Space Camp students this year are from Madison, Harvest, Hazel Green and Huntsville; Fort Greely and Delta Junction, Alaska; Peyton, Colorado; White Plains, Maryland; Centreville, Virginia; and Kwajalein Atoll, Republic of the Marshall Islands. They are: Meghan Aughtman, Ian Bohne, Grace Cardinale, Neha Chopade, Puja Chopade, Summer Collins, Pierce Dalton, Victor Dunagan, Jenna Gray, Shelby Markham, Nathaniel Merchant, Sohan Mynampally, Cheyenne Paine, Rome Reece, Emily Willcockson and Kaelan Wilson.

"ASMDA is very proud to have awarded 16 Space Camp scholarships to kids of your caliber," said Alvin R. Kemmet, Jr., ASMDA president. "You represent our future in science, technology, engineering and math. You should feel very proud of yourselves as this year had the most nomination packages than any other year in recent memory. Your report card grades were outstanding, and your essays showed the passion that each one of you has for space and science.

"I know as you finish up your week of space camp, you'll look back on this time as one of the favorite memories in your life and the making of life-long friends," he added. "Who knows, you just may be on a future space shuttle mission or trip to Mars together."

Students were selected for the scholarship based on an essay, school grades, interest in science and space and financial need. The scholarship covers one week at Space Camp, travel, a flight suit, clothing package, a calling card and spending money.

Granger talked to the campers and told them how proud everyone was of them for being selected and congratulated them on receiving the ASMDA scholarships.

"I'm glad to see so many happy faces," Granger said. "This is a great week and I am excited to talk with you today. Congratulations on being selected to attend Space Camp. You and your families should be very proud of this wonderful accomplishment. Space Camp teaches teamwork, decision-making and leadership, skills that will stay with you long after you leave here.

"A special thanks to the Air Space and Missile Defense Association for sponsoring these 16 young individuals to attend Space Camp, he added. "Thank you for believing in our future. I would like to thank the U.S. Space and Rocket Center for providing a place where children, both young and old, can learn about space exploration."

After the luncheon, some of the campers spoke about what they had learned and how excited they were to be at Space Camp.

Kwajalein youth Kaelan Wilson (second row, far left) and Jenna Gray (second row, third from left) gather with other Space Camp youth for a photo with Air, Space, and Missile Defense Association board members July 1.

Jason B. Cutshaw

"My favorite part of Space Camp is making new friends," said camper Emily Willcockson. "I am so glad I came and I am excited I got to be here. The simulators are a lot of fun and I am thankful I received the scholarship to be here. I want to thank everyone who let us come to Space Camp."

During the week, the children participated in activities, including rocket construction and launch, water activities, a simulated Space Shuttle mission, Mars mission simulators, Manned Maneuvering Unit, Multi-Axis Trainer, and enjoyed an IMAX movie.

"I really liked the simulations," said camper Grace Cardinale. "It has been fun learning about space and meeting lots of new friends. I think everyone should be able to come here and learn about space. It is really cool."

SIMPLY SAFETY

HOURGLASS REPORTS

LIFE CRITICAL WORK REQUIREMENTS: CONFINED SPACES

-Always have current training prior to entering a confined space.
-Never enter a confined space unless atmospheric testing has been performed.
-Never enter a confined space without an approved permit or written authorization.
-Never enter a permit required confined space without an attendant at the entrance and an effective way to communicate.
-Always alert the attendant and/or entry supervisor of any hazard that would affect safety in the confined space
-Always evaluate, identify and mitigate hazards prior to entry into any confined space

A confined space is any space that:
-Is large enough so that a worker can enter and perform assigned work in it;
-Has limited or restricted means of entry or exit;
-Is not designed for continuous worker occupancy.

The Life Critical Works Policy requires you to have current training (attended confined space training within the last year) if you are entering a confined space. See SPI 1422, Confined Space Program – Industrial and Marine, for details on the confined space program.

If you are not sure if the space is a confined space or not, contact your supervisor or the Safety Department. They can help you determine if you will need more training before entering a space.

FREE BOOKS ABOUND

New to the garrison and in need of some good summer reading?

Stop by the Grace Sherwood Library, upstairs in Building 805 across from the Security and Access Control station. We have a growing collection of used, donated books that are free for the taking. Likewise, anyone who wants to offload a bunch of books are encouraged to donate to the collection.

Current titles include everything from best-selling novels, science fiction (tons of "Star Wars" books) and war stories, to biographies, children's books, self-help books and guides on everything from how to properly care for dachshunds and learn Linux, to how to sail boats and create graphics in Adobe Illustrator.

If you're passing by, stop in and grab a book or drop some off and help get the most mileage out of these books as possible.

Free books abound at the library in Buillding 805 on Kwaj.

THUMBS UP

... to all of the individuals and crews who pulled their weight and helped make Sunday's July "5th" Independence Day celebration a massive success: Quality of Life; Danny Barthle; Tim Roberge; Bill Williamson; the Kwajalein Swim Team; Buildings and Grounds; Mike and Marie Pimenta; KRS Catering; Marshallese artisans; Ashley Anderson and the Art Guild; Denice Phillips; the CA Crew, aka "The Guys;" SBM Staff; TC Cassiday; KSACC Marine crew; the Kwajalein Fire Department; KRS Safety; EOD; Heavy Equipment; Shipping and Receiving; and anyone I missed. Thanks for all your help!

—Entertainment and Event Coordinator Midori Hobbs

USAG-KA Town Hall Meetings

Roi Residents
1-2 p.m., Thursday, at the Trade Winds Theater

Kwaj RMI Workforce
1-2:30 p.m., Friday, at Island Memorial Chapel

Roi RMI Workforce
2-3 p.m., Thursday, at the Trade Winds Theater

Kwaj Residents
6:30-8 p.m., Friday, at CRC Room 6

U.S. Army Garrison-Kwajalein Atoll Col. Nestor Sadler invites you to his final town hall meetings, scheduled for Thursday and Friday. See the respective meeting times and locations listed above.

READY AND RESILIENT WELLNESS CALENDAR

Events are sponsored by the Community Health Promotional Council and are free of charge to the community.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Spiritual Resilience, see Page 10. All welcome. Smoking Cessation classes ongoing. Call 55362.	Circuit Training, 8 a.m., at Ivey Gym. The Realist MMA, 9 a.m., at CRC Room 6 Kwajalein For Christ, 3:30 p.m., at the Youth Center. Pick-up ultimate frisbee, 4:30 p.m., near the soccer fields. Pick-up soccer, 6 p.m., at Brandon Field.	Cross Fit, 5:15 a.m., at the Adult Pool. Pick-up tennis, 5:30 p.m., at the tennis courts.	Circuit Training, 5 a.m., at Ivey Gym. Grace Sherwood Library Summer Reading Program session, 10 a.m., at the library	Cross Fit, 5:15 a.m., at Ivey Gym. Interval Training, 5:15 p.m., at intersection of Sprint and Ocean. Pick-up tennis, 5:30 p.m., at the tennis courts. AA Program, 6:30 p.m., at the REB.	Circuit Training, 5 a.m., at Ivey Gym. Pick-up ultimate frisbee, 6 p.m., near the soccer fields.	Cross Fit, 5:15 a.m., at Ivey Gym. Family Swim Time, 9:30 a.m., at the Family Pool. Pick-up tennis, 5:30 p.m., at the tennis courts.

HELP WANTED

KRS and Chugach listings for on-Island jobs are posted at: Kwajalein, Roi-Namur and Ebeye Dock Security Checkpoint locations; outside the United Travel Office; in the Roi Terminal/Post Office; at Human Resources in Building 700 and on the USAG-KA webpage under Contractor Information>KRS>Human Resources>Job Opportunities. Job listings for off-island contract positions are available at www.krsjv.com.

A number of positions are available in the Community Services group, including teachers, clubs supervisor, nurses and more. Please see Human Resources for the file of available on-island positions or www.krsjv.com for contract slots.

Religious Services

Catholic

• 5:30 p.m., Saturday, Small Chapel
• 9:15 a.m., Sunday, Island Memorial Chapel
• Roi-Namur service, 4:45 p.m., second and fourth Friday of each month. Appointments with Fr. Vic available after dinner.

Protestant

• 11 a.m., Sunday, Island Memorial Chapel
• 6:30 p.m., Friday, Roi Chapel

Latter-day Saints

10 a.m., Sunday, CRC Room 3

Contact the chaplain's office at 53505 for more information.

KRS is searching for available, on island licensed registered nurses, individuals with medical billing and coding experience, and dental hygienists. For more information, please contact HR/Julie Gooch at the Temp Pool at 50777.

FOUND

Sunglasses left at Dog Park evening of July 1. Call 51924 to claim.

COMMUNITY NOTICES

Learn to pour ceramic molds in two nights of fun at the Hobby Shop. 6-8 p.m. July 13 and 14. Stop by the Hobby Shop to sign up and pay your $25 fee. Class space is limited, so act quickly! Call 51700 for more information.

Kwajalein Atoll International Sportfishing Club monthly meeting will be held Wednesday, July 22nd, at the Pacific Club. Food & beverages will be served at 6:30 p.m., meeting will start at 7:00 p.m. All anglers welcome to attend! Questions? Contact Andy, x5-2878.

The Grace Sherwood Library Summer Reading Program continues each Wednesday at 10 a.m. at the library. It's not too late to participate; sign up anytime! Questions? Call 53439.

Here at the Vet's Hall we know you love our history and photographs, but please don't borrow our photos without asking permission. Whoever borrowed the photo at the end of the wall in the dart room, please return it after you have copied it for your collection. It is important to our collection. Questions? Contact Mike Woundy.

CYSS is happy to announce that the Command has approved a 20 percent cost reduction on this year's camp fees. Summer camp is a great option to keep your school age kids entertained this summer. For more information or to sign up, please go the Central Registration Office, or call 52158.

Ultimate Frisbee. 4:30 p.m. every Monday and 6 p.m. Friday near the soccer fields. If you've played before then you know how much fun this great workout is. If you haven't, it's a combination of soccer and no-contact football played with a Frisbee. For questions or more information please email BenGleich@hotmail.com.

E-Talk: Coconut crabs are a protected species at USAG-KA. USAG-KA residents should not touch, harass, injure, or kill coconut crabs. Questions? Call Environmental at 5-1134.

Safely Defeating Safety Devices. Never disable, bypass, modify or remove any safety protection device without authorization.

Captain Louis S. Zamperini Dining Facility

Lunch

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	July 18
Sauteed beef tips	Beef pot pie	Fish sandwich	Honey mustard chicken	BBQ spare ribs	Taco bar	Lasagna
Citrus pork	Quiche lorraine	Wings of fire	Stuffed cabbage	Turkey wraps	Chicken quesadillas	Garlic toast
Mashed potatoes	Augratin potatoes	Roasted potatoes	Brown rice pilaf	Potatoes romanoff	Refried beans	Italian chicken breast

Dinner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	July 18
Meatloaf	Spaghetti	Broccoli stir-fry	Grilled top sirloin	Mongolian BBQ Night	Fish du jour	Chicken fried steak
Fried chicken	Chicken alfredo	Three cheese macaroni	Picante chicken	Oriental fried rice	Parslied potatoes	Mashed potatoes
Veggie saute	Garlic bread	Grilled chicken breast	Veggie pasta	Veggie egg foo young	Salisbury steak	Seafood gumbo

DISPATCH FROM ROI

From Jordan Vinson

Café Roi

Lunch

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	July 18
Roast pork loin	Garlic roast beef	Sloppy joes	Grilled cheese	Tuna melt	Baked fish	Grilled roast beef
Baked chicken	Chicken w/ bacon	Chicken strips	Pork pimento	Hamburger steak	Grilled chicken thighs	Roast pork
Egg florentine	Egg muffins	Cheesy potatoes	Spicy sweet potatoes	Home fries	Pinto beans	Cous cous

Dinner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	July 18
Chicken schnitzel	Chicken marsala	Pork chop	Grilled steak	Fried chicken	Make your own BLT	Southwestern chicken
Beef stew	Jerk spare ribs	Herb roast chicken	Fried fish	Meatloaf	Hot brown	Fish tacos
Green bean cass.	Mushroom rice pilaf	Mashed potatoes	Baked potatoes	Mashed potatoes	Sliders	Fiesta rice

From Jordan Vinson

From Jordan Vinson

From Jordan Vinson

Weather

Courtesy of RTS Weather

Day	Skies	Chance of Rain	Winds
Sunday	Partly Sunny	30%	S-SW at 5-10 knots
Monday	Partly Sunny	30%	S-SW at 7-12 knots
Tuesday	Mostly Cloudy	30%	S-SW at 7-12 knots
Wednesday	Mostly Cloudy	20%	S-SW at 8-13 knots
Thursday	Mostly Sunny	<10%	Light and Variable
Friday	Mostly Sunny	10%	ENE-ESE at 3-8 knots

Yearly rainfall total: 69.69 inches
Yearly rainfall deviation: +35.6 inches

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

	Sunrise Sunset	Moonrise Moonset	High Tide	Low Tide
Sunday	6:37 a.m. 7:12 p.m.	2:57 a.m. 3:43 p.m.	1:17 a.m. 3.6' 1:46 p.m. 2.8'	7:51 a.m. 0.6' 7:43 p.m. 0.4'
Monday	6:37 a.m. 7:12 p.m.	3:49 a.m. 4:38 p.m.	2:15 a.m. 3.9' 2:43 p.m. 3.0'	8:47 a.m. 0.2' 8:35 p.m. 0.2'
Tuesday	6:37 a.m. 7:13 p.m.	4:42 a.m. 5:32 p.m.	3:02 a.m. 4.2' 3:28 p.m. 3.2'	9:31 a.m. -0.1' 9:18 p.m. 0.0'
Wednesday	6:37 a.m. 7:13 p.m.	5:35 a.m. 6:24 p.m.	3:41 a.m. 4.4' 4:06 p.m. 3.4'	10:09 a.m. -0.3' 9:57 p.m. -0.2'
Thursday	6:38 a.m. 7:12 p.m.	6:27 a.m. 7:13 p.m.	4:17 a.m. 4.5' 4:40 p.m. 3.5'	10:42 a.m. -0.5' 10:32 p.m. -0.3'
Friday	6:38 a.m. 7:12 p.m.	7:18 a.m. 8 p.m.	4:51 a.m. 4.6' 5:13 p.m. 3.6'	11:14 a.m. -0.5' 11:05 p.m. -0.3'
July 18	6:38 a.m. 7:12 p.m.	8:08 a.m. 8:45 p.m.	5:22 a.m. 4.5' 5:44 p.m. 3.6'	11:44 a.m. -0.5' 11:37 p.m. -0.2'