

# THE KWAJALEIN HOURGLASS



**Customers shop at Macy's West on the last day of operation Monday.  
For more, see Page 6.**

*(Photo by Dan Adler)*

# Patience is a must-have virtue on Kwajalein

The *Hourglass* recently received a Thumbs Down that we decided not to print. The reason for not printing it is that the department which received the criticism is extremely understaffed and really doing the best it can under very difficult circumstances.

But it points out something that has always bugged me for the 16 years I've been on this island. Why is it that on this remote, tiny piece of land in the middle of the vast Pacific Ocean, we can't cut each other a little slack?

There's always been one truth about Kwaj — if you don't possess the virtue of patience, this is probably not the place for you to be.

Since I stepped off the plane 16 years ago, it's always been that way. It's everything from the bakery running out of lids for the coffee cups to having to eat off paper plates at Café Pacific when the dishwasher breaks.

If Surfway doesn't have potato chips or pretzels, some people act like it's the end of the world as we know it. I've heard lots of complaints about the prices of food at Surfway. I remember how someone complained that a bottle of steak sauce costs \$5 here. But guess what, the last time I was in California, I checked the price of that same steak sauce and it was \$5. At least out here, I don't have to spend \$4 for a gallon of gasoline to go buy that \$5 sauce.

I've even heard complaints now about the slow service at the AAFES Food Court. Well, I have to say that sometimes, it is a little slow. But it's a new operation with new people and it's going to take a while to iron out the kinks.

I don't know about you, but I've seen some pretty slow service at 'fast' food places in the states too.

In my department, I know what folks say when the TV wigs out, or programming changes at the last minute, or one or more channels loses the signal.

But you know, there's also plenty of people in the states who have cable they're paying for that goes out every two minutes or so. Nothing is perfect anywhere you go.

We need to 'feel each other's pain' as it were. Especially now with the transition going on.

We all know how understaffed most departments are right now.

How can it be that

those of us who work in the trenches and know what it's like trying to do more with less in our own departments won't cut anybody else a break?

I'm just as guilty of it as anybody else. I've fumed as I've tried to ride my bike without spilling hot coffee out of a cup with no lid. I've eaten off paper plates at the Café Pacific. I've waited days for repair people to come to my quarters to fix something. And yes, I've complained about it.

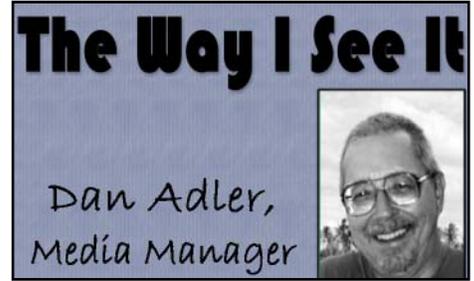
But maybe we could start trying to put ourselves in the other guys shoes and realize that we're all under a great deal of stress and a tough workload.

Most of us really do a good job under difficult conditions. I think most of us care about doing a good job and even though we don't always succeed for one reason or another, we always try. So when it takes a while for the guy to show up to fix your air-conditioner or an IT tech to fix your computer, remember, they might be waiting for somebody from your department to fix something of theirs.

If you're contemplating writing a Thumbs Down about a department, just think — maybe somebody in that department is thinking about writing a Thumbs Down about *your* department. Nobody's perfect that I know of.

In the words of Rodney King, "Can't we all just get along?"

Life out here would be a lot more pleasant if we did.



**Correction**  
The letter to the editor by Dennis Baker in the July 18 issue contained CDC which the *Hourglass* mistook for Child Development Center. It should have been Chugach Development Corporation. The *Hourglass* regrets the error.

**THUMBS DOWN**  
To the person who left the Surfway shopping cart behind the Sands Bachelor Quarters.

*The TV and Entertainment Guide and the Hourglass are published on Fridays and can be found in the gray boxes at the post office and the Dock Security Checkpoint.*

## 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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# Sgt. Maj. Kutac answers questions concerning workforce, information sharing, Kwaj future

By Dan Adler  
Media Manager

When Sgt. Maj. Patrick Kutac and his wife of 16 years, Karen first heard they had been assigned to Kwajalein, they were a little in the dark.

"Karen asked where it was and I thought it was fairly close to Hawaii," said Kutac. "I was only off by 2,000 miles".

Kutac said Karen got on the Internet and looked up Kwajalein and also read *The Hourglass* online. She would get excited about something in the paper and would want him to read it too.

Kutac continued, "When we first got here, we all thought it was awesome. Everything so far has given me a very good impression."

Apparently it has made a good impression on Kutac's 11 year old daughter, Ashley too.

"She's thrilled," Kutac said. "She goes to the beach every day and can't wait to make new friends when school starts."

Sgt. Maj. Kutac assumed his duties as Senior Enlisted Advisor on Kwajalein July 3.

As an introduction to the Kwajalein community, *The Hourglass* asked him some questions about his role on Kwajalein:

**Q: Why was it deemed necessary to have a Sergeant Major on Kwajalein?**

**A:** It was deemed necessary to have a Sergeant Major on Kwajalein due to the fact that the U.S. Army Kwajalein Atoll commander is a brigade command position. Everywhere else in the Army, you will find his senior advisor is a Command Sergeant Major. This has never been the practice on Kwajalein and after Col. [Stevenson] Reed illustrated the need to Army senior leaders to fulfill this position with a Sergeant Major, it was approved and I was chosen for the assignment.

**Q: Aren't Sgt. Majors usually dealing with enlisted troops in a large command?**

**A:** No longer are the days that Sergeant Majors only deal with enlisted Soldiers in Battalion and higher commands. Sergeant Majors fill many types of positions, including nominative positions. As a matter of fact, the Army has changed so dramatically in the past several years that it is becoming rare that you won't find military leaders working side by side with Department of the Army or Department of Defense civilians and contractors. This holds true whether Army units are stateside or deployed defending the Global War on Terrorism.

**Q: Are you to be a 'chief' evaluator?**

**A:** I am not an evaluator, nor is Col. [Stevenson] Reed. My job is to assist and advise the evaluators and contractors on how to take care of personnel and maintain a quality living standard with the resources provided.

**Q: Will you be sensitive to civilian worker concerns and what can you do about them?**

**A:** Again, when speaking about civilian worker concerns, there is no line that makes one organization better than the other. We are here as a team to accomplish a continuously changing mission, so I have to be concerned with the legitimate needs of the Kwajalein community regardless if they are military or civilian.



Sgt. Maj. Patrick Kutac

**Q: As you may know, morale on island is low. Do you have any ideas to improve it?**

**A:** Actually, I do not know morale is low on this island. Actually, everyone I have met thus far in my two weeks has been very courteous, motivated and a pleasure to meet. I am aware of the continued transition taking place at this time, but as far as improving it, I can't say at this given time what I can or can't improve. I've been here only for a short time now and I'm still trying to assess the community areas and get around to the various agencies.

**Q: Will Mrs. Kutac be engaged with the civilian families on island or is her function to deal mainly with military families?**

**A:** My wife has always been engaged with both civilian and military families. You will find she is a very caring person who is excited to be stationed here.

**Q: Do you plan to keep the community informed with town hall meetings or columns in *The Hourglass*?**

**A:** Yes, I do intend to hold town hall meetings. Possibly myself or Col. [Frederick] Clarke will write periodic columns for the paper. I firmly believe it is important to keep people informed of changes and how those changes will or will not affect their lives and their jobs. I also feel it is important to address rumors and to keep the 'rumor mill' down. Most importantly, I want the community to have trust in us and know we will tell them the truth about what is happening.

**Q: What do you see the future of Kwajalein being?**

**A:** Where do I see Kwajalein in the future? This is a question I cannot fairly answer at this time. I do know the footprint of Kwaj is changing. I know that Kwaj is becoming more technologically advanced in the coming years and that missions that used to be completed here will be remoted from Huntsville, Ala. I know this will have an effect on jobs and families and I also know it is important to keep families informed and to continue focusing on the quality of life here. Change is not always a bad thing — it's how you implement change and take care of people at the same time while not sacrificing the ability to continue the mission.

# Diving Prinz Eugen

## World War II cruiser has colorful past, is popular site for Kwajalein scuba diving

By Dan Farnham  
Contributor

### PART ONE

Just about any diver who has spent any amount of time on Kwajalein has dived on the *Prinz Eugen* shipwreck at least once. It's not as if it's hard to find lying in the shallows next to Carlson Island, with part of the wreck jutting prominently out of the water, it is easily visible from just about anywhere on Kwajalein where there is a clear view across the lagoon.

I've been here for just over two and a half years, and I've dived on the wreck several times. Of the many shipwrecks I've seen since I've been here, the *Prinz Eugen* is my favorite because there is so much to see, and also because of the history behind the

ship. However, in talking with a number of other Kwajalein residents and visitors over the past two years, I've discovered that there are a lot of misconceptions circulating about the history of the *Prinz Eugen*.

And one question I hear repeatedly is, "How did a German cruiser that fought in the Atlantic in World War Two, end up here at Kwajalein Atoll?" A year and a half ago, while I was writing an article on the shipwreck for a publication in the U.S., I found the answers to that question. The history of the ship is interesting.

The *Prinz Eugen* was built at the Germania shipyards in Kiel. Construction started on April 23, 1936, and the cruiser was launched on Aug. 22, 1938.

Commissioned on Aug. 1, 1940, the *Prinz Eugen* was an Admiral Hipper-class heavy cruiser. It was not, as some people mistakenly believe, a sister ship



The Prinz Eugen after test Baker at Bikini atoll.

to the more famous *Bismarck*. The *Eugen*'s main armament were eight 8-inch guns, housed two-apiece in four turrets, and its combat displacement was just over 19,000 tons. By contrast, the *Bismarck*'s main armament consisted of eight 15" guns, and it had a combat displacement of approximately 51,000 tons.

The *Prinz Eugen* was named after 'The Liberator of Vienna', Prince Eugene of Savoy, who had been an 18th Century officer of the Holy Roman Empire. Like most of the major German fleet units in WWII, the *Prinz Eugen* was never allowed to fulfill her potential because of Adolf Hitler's reluctance and lack of enthusiasm for surface ship operations. Hitler had an expressed fear of ship sinkings and the loss of prestige for the Reich that would come with it.

The *Prinz Eugen* is mostly noted for its sortie with the *Bismarck* into the

North Atlantic in May 1941 to make combined attacks on Allied shipping, code-named 'Operation Rheinübung'. The two ships departed from Gotenhafen on May 18, and entered Korsfjord, near Bergen, in the morning of May 21 for refueling.

The *Prinz Eugen* and *Bismarck* departed that night under the cover of darkness.

For the next two days, as the British frantically searched for the two ships, the *Prinz Eugen* and *Bismarck* steamed for the Denmark Strait and the opening into the North Atlantic shipping lanes and the vital British supply lines. On May 23, at 7:22 p.m., the two ships were sighted by *HMS Suffolk*, which radioed a position report and shadowed the German ships, while keeping enough distance from them so as to not appear too inviting a target for gunfire.

On May 24, at 5:37 a.m., the British battleship, *Prince of Wales* sighted the German squadron, and at 5:43 a.m., another British Battleship, *Hood*, radioed an interception report. The stage was set for the Battle of the Denmark Strait, at that

**See PRINZ EUGEN, Page 10**



Photos courtesy of Dan Farnham

# Then

Right, customers shop at Macy's West in 1995.



and

# Now

A customer shops on the last day of operation for Macy's West Monday.

## Macy's West becomes history

Article and photos By Dan Adler  
Interim Manager

Macy's West ceased operation at 1 p.m., Monday, and another Kwajalein landmark and tradition followed the Yokwe Yuk Club, Ten-Ten Store and Macy's into Kwajalein history.

"I'm sad," said Bess Buchanan. "Macy's West was a fixture for so long. The employees were always

pleasant and nice to deal with. But we have to look to the future and see what AAFES brings."

LeAnn Parker, a Kwaj resident for 2½ years, said, "I have mixed feelings. It's sad, but it's also exciting to see something else coming. I'm not as nostalgic as some of the people who have been here a long time."

Beau Wong, a resident of three years, shrugged when asked how

he felt about Macy's West closing. "Changes are made," he said. "I'm looking forward to AAFES."

Three-year Kwaj resident Bill Craft said he's just waiting to see what happens when AAFES takes over.

Gus Garcia has been on Kwajalein for 10 months.

"It's exciting to get new inventory," he said. "I hope the employees get to keep their jobs though."



Not much is left on the final day of operation.



Akino Lippwe does some last minute shopping.



Bill Craft looks over some bargain items.



Cashier Jolynn Jibba rings up some of the last Macy's West customers Monday.



Gus Garcia, left, and Doug Thompson check out some Kwaj posters.

# Making the grade

## Kadede Loran passes three-month firefighting course at Goodfellow Air Force Base in Texas

By Fred McNickle

Kwajalein Range Services Public Works manager

Chugach employee Kadede Loran returned to Kwajalein July 22 after completing a rigorous three-month course required to become a certified firefighter.

Kadede, a KRS/Chugach employee, working in the Kwajalein Fire Department as a Fire Inspector/Extinguisher Technician since February 2004 was selected in April by Chugach to participate in the RMI training initiative designed to provide education and training to employees exhibiting the skills, attitude and drive to fill critical positions on Kwajalein.

Kadede spent a total of 100 days in San Angelo, Tx. at Goodfellow Air Force Base attending the DoD Fire Protection Course offered by the U.S. Air Force.

The course (Fire Protection Apprentice Course) is intense and covers basic skills including:

- Fire protection fundamentals, organization and safety
- Fire behavior, fire alarm and communications
- Building construction and fire prevention
- Emergency medical care, responder skills and emergency care plans

- Structural fire fighting principles
- Personal protective equipment
- Forcible entry, ropes, knots, and rescue practices
- Rescue activities and vehicle extrication
- Ladder and ventilation practices
- Structural fire ground operations
- Water supplies
- Handling of hazardous materials to the awareness and operational levels
- Airport fire fighter
- Aircraft and airport familiarization
- Aircraft response and fire fighting principles
- Aircraft rescue fire fighting and live fire training

Kadede excelled in the training exhibiting his dedication and hard work ethic shown in his earlier position.

He completed the course and maintained an average of 92.7 percent throughout the training. It should also be noted that more than 50 percent of those in his class either washed out or were sent back to a lower level of training.

With his successful completion of this rigorous training course he was awarded DoD certifications in the following areas:

- Firefighter I and II
- Hazmat Awareness and Operations
- Airport Firefighter



Photos by Dan Adler

**Kadede Loran, left, and Fire Chief Steve Scruton**

- Telecommunicator 1 and 2,
- First Aid First Responder and CPR.

Kadede's successful completion of this training is a noteworthy accomplishment that he should be very proud of and sets the example for all RMI employees who desire to advance their careers on Kwajalein.

Fire Chief Steve Scruton credited Assistant Chief Mike Diehl who researched training courses and got Loran in the one at Goodfellow, and Romeo Alfred and KRS/Chugach Human Resources for making it possible for Loran to attend the course.

"He [Loran] beat out a lot of younger guys who were straight out of boot camp or high school. It wasn't one of those fun TDYs. He studied and worked hard to pass that course," Scruton said.

Romeo Alfred thanked all of those who worked in a collective effort on Loran's behalf.

"I hope programs like this will be endorsed in the future," said Alfred.

KRS/Chugach and all of those involved send their hearty congratulations to Kadede for a job well done.



**A luncheon is given in Kadede Loran's, center, honor Thursday at the fire station.**

# Kwaj Post Office establishing 'official' mail distribution center on Sept. 1

By Dan Adler  
Media Manager

Kwajalein Post Office will no longer provide post office boxes for company mail as of Sept. 1.

"Due to our recent postal inspection this past April, U.S. Army Kwajalein Atoll has been given a directive by the United States Postal Service to establish an 'official' mail distribution center," said Karla Long, Kwajalein Postal Manager. "Official mail is company mail, nothing personal, and companies should not have a post office box."

As it stands now, Kwajalein Range Services has several post office boxes for various departments. Other companies on island have boxes for their mail as well.

Under the new distribution center, all company mail would be processed in the post office.

The company to which the mail is addressed would be required to send a mail 'orderly' to pick up

the company mail. Each company could have no more than three designated mail orderlies. It would be up to the company to distribute the mail to their departments as needed. It will be the responsibility of the mail orderlies to check with the post office on a daily basis (during working hours) for their company mail.

"This will eliminate the need for the post office to have several different pick up persons," said Long.

Mail not picked up within 15 days will be returned to the sender as unclaimed.

All company mail must be addressed to the company and the department within the company in order to be processed by the post office.

If mail is to go to a particular person in a department, that person's name should follow the department name in the address.

If mail is addressed to a particular person and doesn't follow the guidelines, the mail might be re-

routed to a personal box as per DoD regulations. Mail will not be refused or returned to sender unless it is unidentifiable.

Examples of how mail should be addressed are:

Kwajalein Range Services  
ATTN: Finance  
APO AP 96555

HQ, USAKA Command  
ATTN: Community Activities (Mr. John Doe)  
APO AP 96555

In another issue, it has been reported that the Social Security Administration has informed some Kwajalein residents that the zip code for Kwaj is not an authentic U.S. Postal Service zip code.

Some residents are having trouble getting Medicare cards or other SSA materials mailed to them.

Postal Manager Long is contacting the postal inspectors to inquire into the problem.

## AAFES celebrates 113th birthday today

AAFES news release

As the Army and Air Force Exchange Service (AAFES) marks 113 years of service and support to America's military, the command's mission remains basically the same: provide quality goods and services at competitively low prices and generate earnings to support Morale, Welfare and Recreation programs.

Established July 25, 1895, when the War Department issued General Order number 46 directing post commanders to establish an exchange at every post where practicable, AAFES continues to deliver a comprehensive and customer-focused benefit to troops and their families at installations throughout America, Europe, the Pacific and Middle East.

In addition to its flagship main base and post exchange facilities (aka PXs and BXs), modern AAFES operations now include convenience stores, car care centers, military clothing sales stores, fast food restaurants, retail concession services such as flower shops and gift stores, vending, telecommunications support and a wide variety of personal services through more than 3,100 facilities in 30 countries, five US territories and 49 states. The scope of current operations goes well beyond the conventional offerings the War Department might have envisioned in the late 1800's as

AAFES even operates bakeries, water bottling activities and provides 24,000 meals a day to troops' sons and daughters at 92 Department of Defense Schools in nine countries.

Just like the merchants who supplied provisions to America's troops in the late 19th century, AAFES associates continue to live and work alongside those they serve. In fact, more than 350 AAFES associates are currently deployed to Operations Enduring and Iraqi Freedom, actively delivering a slice of Americana to troops through 85 BX/PX operations, 75 phone centers and 197 fast food restaurants scattered throughout the Middle East.

Closer to home, the largest and most senior exchange service is focused on energizing outreach efforts to communicate the value, benefit and capabilities it brings to the military community. Recognizing the pivotal role National Guard and Reserve troops are playing as they transition from a strategic force to an operational force, AAFES is specifically reaching out to "Citizen Soldiers" families to ensure they understand the value of their exchange benefit not only downrange, but also on the installation, online or over the phone.

"AAFES' commitment to America's troops has never

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## PRINZ EUGEN, from Page 5

point just minutes away.

At 5:52am, the *Hood* and *Prince of Wales* opened fire. On the *Hood*, Vice-Admiral Holland had misidentified the lead ship as the *Bismarck*, when in fact it was the *Prinz Eugen*, and ordered the *Hood* to fire against 'the ship on the left.' It wasn't until two minutes into the battle that the mistake was realized. However, on the *Prince of Wales*, Captain Leach had correctly identified which ship was the *Bismarck* and concentrated his fire accordingly.

At 5:54 a.m., Admiral Holland ordered the gunners on the *Hood* to shift fire to 'the ship on the right.' This order was apparently never executed, as the *Hood* continued to fire at the *Prinz Eugen* until the moment the *Hood* was sunk. During this same minute, Captain Lindemann on the *Bismarck* gave the order to fire, and at 5:55 a.m. the German ships opened fire for the first time since the start of the battle.

At 5:56 a.m., *Prinz Eugen* scored a hit on *Hood*, which started a fire amidships aft. At almost the same moment, the *Bismarck* was hit by fire from the *Prince of Wales*. The hit impacted on the bow and ruptured a fuel storage bunker and as she steamed, *Bismarck* was leaving an oil trail.

At 5:57a.m., *Bismarck* scored its first hit on *Hood*. *Prinz Eugen* was still firing on *Hood*. At that point, *Bismarck* was hit by *Prince of Wales* for the second time.

At 5:58 a.m., *Bismarck* took a third hit from *Prince of Wales*. *Prinz Eugen* fired a final salvo at *Hood*, and then

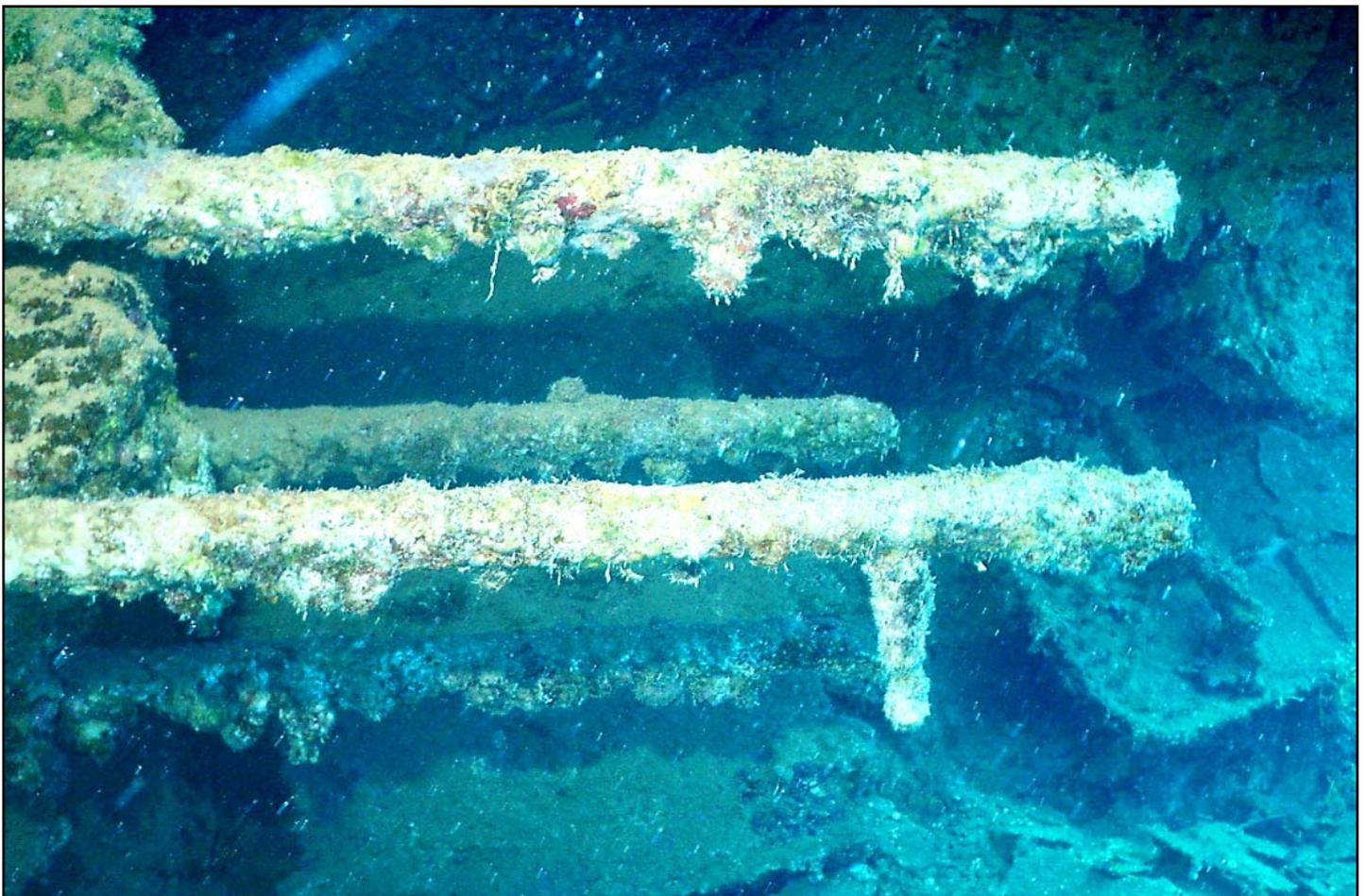
shifted fire to the *Prince of Wales*.

At 5:59 a.m., *Prinz Eugen* continued firing at the *Prince of Wales*, while both *Prince of Wales* and *Hood* continued to engage *Bismarck*. The *Bismarck* continued to concentrate its fire at *Hood*. At that point in the battle, British Admiral Holland on the *Hood* ordered a 20-degree course change for the *Hood* and *Prince of Wales*.

At 6 a.m., as both ships executed the turn, *Hood* received a fatal hit from *Bismarck* and exploded. A 15-inch shell from *Bismarck*'s fifth salvo against the *Hood* penetrated the light upper armor and touched off a 4-inch powder magazine, which in turn touched off a 15-inch magazine. The resulting explosion broke the *Hood* in half. The *Prince of Wales* had to change course quickly to avoid the remains of the *Hood*.

By 6:10 a.m., the Battle of the Denmark Strait was over. The *Hood* was gone, having sunk in only three minutes after the explosion, leaving behind only three survivors out of a crew of 1,500. The *Prince of Wales*, badly damaged by gunfire from both the *Prinz Eugen* and the *Bismarck*, had laid down a smokescreen and managed to escape from the fight. *Bismarck* headed for port, but British ships followed the oil trail she was leaving and would catch her for another fight.

*Editor's note: This concludes part one of Dan Farnham's article on the Prinz Eugen. Part two will be printed in the Aug. 1 issue of the Hourglass.*



Anti-aircraft guns near the *Prinz Eugen*'s superstructure are coral-encrusted.

# Wednesday is rainiest day at Kwajalein since 2005, brings drought relief to Atoll

**Mark Bradford**  
ATSC/RTS Chief Meteorologist

Wednesday, July 23, 2008 was the rainiest day at Kwajalein since Halloween 2005. La Nina conditions had caused dry weather here this year and we were 5.69" inches below normal rainfall as of Tuesday morning.

A large area of showers began to develop near Kwajalein Tuesday night and heavy showers began at 9:10 p.m., Tuesday evening. Between then and 12:48 p.m., Wednesday afternoon, when showers finally ended, we accumulated 4.64 inches of rain.

During the overnight hours Wednesday, the central Marshall Islands received widespread heavy showers with embedded thunderstorms. Four wind burst events accompanied the showers here, the first occurred between 10:30 and 10:40 p.m., Tuesday, with a peak wind gust of 34 knots.

It was followed by short events at 7:15 a.m., 9 a.m., and a long burst between 10 a.m. and 11



**Very strong storms like this one in 1954 are unusual for Kwajalein.**

a.m., Wednesday morning. The last wind burst had wind gusts up to 45 knots at 10:46 a.m..

The strong winds felled a few coconut trees, knocked down palm fronds, broke limbs on various small trees, and blew over garbage cans

and dumpsters. The rains caused localized flooding with lagoon road covered near the helicopter hangar. By Thursday morning the catchment areas of the Kwajalein runway

**See RAIN, Page 12**

## Desegregation order reflects American values

**By Gerry J. Gilmore**  
American Forces Press Service

President Harry S. Truman's 1948 executive order that desegregated the U.S. military was a definitive statement of equality that declared all servicemembers must be judged by individual merit instead of their racial background, Defense Secretary Robert M. Gates said Wednesday.

"No aspect of black Americans' quest for justice and equality under the law has been nobler than what has been called, "the fight for the right to fight," Gates said at the commemoration of the 60th anniversary of the integration of the armed forces held in the Capitol Rotunda.

"Our commemoration today of the racial integration of the armed forces makes us reflect on how far we have come toward living up to our founding ideals and yet how much remains to be done," Gates said.

The Defense Department began breaking down the barriers of race at the conclusion of World War II in 1945, Gates said. As in past wars, African-American troops had served in World War II with honor and distinction, he noted. However, African-American troops had to fight and live separately from all-white units.

America's sons and daughters fought in World War II to preserve freedom and human dignity for the world's people, Gates said. Yet, African-Americans who'd served with distinction in that war, he noted, "returned to face segregation and harassment at home," as so-called Jim Crow segregation laws in place across the South relegated African-Americans to second-class-citizen status.

Truman's Executive Order 9981, signed July 26, 1948, was an important statement and an important step, Gates said. However, he said, Truman's directive "had to overcome stiff institutional resistance, as deeply entrenched attitudes were hard to change."

For example, "segregated units remained the norm and integrated units the exception," Gates noted, for several years after the integration order was issued.

The start of the Korean War in June 1950 prompted the need to put hundreds of thousands of Americans into uniform after the U.S. military had demobilized following the end of World War II.

"With the sudden outbreak of war in Korea, the urgent demands of the battlefield trumped the old habit of Jim Crow," Gates said.

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## RAIN from Page 11

were still holding water.

The break in the drought has been presaged by an unusual number of thunderstorms this month. Since the 4th of July we have had five thunderstorm days and had lightning on several additional days.

Kwajalein averages only 10 thunderstorm days per year with most of them occurring in September, October, and November.

Oct. 30/31, 2005 was the last date that we had more than four inches of rain in a 24 hour period. In that case, a very intense thunderstorm dropped 3.25 inches of rain in 90 minutes and the total 24 hour storm rainfall was 4.05 inches.

As strong as Wednesday's storm was, it didn't approach record levels. The maximum single day rain-

fall for July at Kwajalein is 5.68 inches recorded in 1983.

The most rainfall ever recorded here in a single day was 17.15 inches in December 1972.

While Kwajalein has experienced much stronger winds during tropical cyclones, sustained winds over 30 knots with gusts to 45 knots are impressive for a wet season shower system.

## DESEGREGATION from Page 11

"Before the start of the Korean War," he said, "50 percent of African-Americans in the Marine Corps -- about 750 men -- served as stewards." At the end of the Korean War in 1953, Gates said, there were 17,000 African-American Marines, and only 3 percent served as stewards.

"By 1954, the Korean War was over, the last of the segregated units were dissolved, and the momentum for equality and civil rights was carrying over into American society as a whole," Gates said.

In the ensuing decades after Truman's directive took

effect, "black and white Americans trained, served, and fought together with honor and distinction," Gates said.

Today's integrated U.S. military continues to "put merit and integrity above all," Gates said, noting there's still more to achieve.

"My hope and expectation is that, in the years ahead, more African-Americans will staff the armed forces at the highest levels," Gates said. "We must make sure the American military continues to be a great engine of progress and equality."

# Range operation scheduled for Thursday

A range operation is scheduled for Thursday. Backup days for the operation are scheduled through Aug. 6.

The mid-atoll corridor will be closed from 4 p.m. (local) July 22 through mission completion. Both the east and west reefs

within the mid-atoll corridor are closed.

A broad ocean caution area will be in effect from 10 a.m. until 5 p.m. (local), Thursday.

The broad ocean caution area extends east of Omelek. If backup days are required, the broad ocean

caution is in effect each backup day.

Questions regarding the above safety requirements for this mission should be directed to USAKA Command Safety Directorate, Kwajalein Range Safety Officer at 51910.

Juon ien kokemelmol missile enaj koman ilo ran in Saturday 2 August 2008. Ne ejab dedelok jerbai in kokomelmol kein ilo ran in ba kake, renaj jerbali manlok nan 6 August 2008. Ene ko ilo iolap in aelon in renaj kilok jen 4 awa elkin raelep ilo 29 July 2008 nan ne enaj dedelok aer jerbai in kokomelmol kein. Aolep ene ko relik kab reiar iloan Aelon in rej kilok. Malo eo im enaj kauwotota ej malo eo tulik turearlak in Omelek.

Ne ewor am kajitok jouj im call e lok Kwajalein Range opija ro ilo 5-1361

### BOA SURFACE AREAS:

#### LATITUDE

9.100N  
9.350N  
9.700N  
9.700N  
8.100N  
8.100N  
8.750N  
8,990N

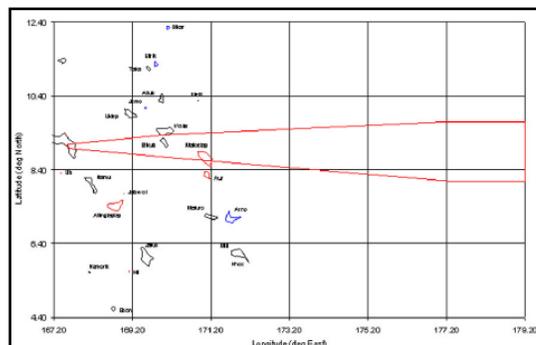
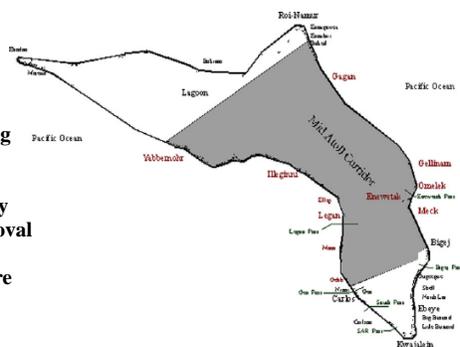
### Caution Area Coordinates:

#### LONGITUDE

167.570E  
170.000E  
177.250E  
179.200E  
179.200E  
177.250E  
170.000E  
167.570E

### Kwajalein Atoll: Mid-Atoll Corridor Lagoon Caution Area

**Kwajalein Atoll: Reference the mid-atoll caution map. No surface vessels shall be permitted in this area during the identified caution times (starting T-4 days, until released by the Range Safety Officer) without prior approval from the Command Safety Directorate. The area closure is indicated by the "red flag system".**



**Broad ocean area caution**

# Seventeen servicemembers die in Global War on Terror

Nine Soldiers died of wounds suffered when their outpost was attacked by small arms fire and rocket propelled grenades from enemy forces in Wanat, Afghanistan on July 13. They were assigned to the 2nd Battalion, 503d Infantry Regiment (Airborne), 173rd Airborne Brigade Combat Team, Vicenza, Italy. Killed were: **1st Lt. Jonathan P. Brostrom**, 24, of Hawaii; **Sgt. Israel Garcia**, 24, of Long Beach, Calif.; **Cpl. Jonathan R. Ayers**, 24, of Snellville, Ga.; **Cpl. Jason M. Bogar**, 25, of Seattle, Wash.; **Cpl. Jason D. Hovater**, 24, of Clinton, Tenn; **Cpl. Matthew B. Phillips**, 27, of Jasper, Ga.; **Cpl. Pruitt A. Rainey**, 22, of Haw River, N.C.; **Cpl. Gunnar W. Zwilling**, 20, of Florissant, Mo and **Pfc. Sergio S. Abad**, 21, of Morganfield, Ky.

**Lance Cpl. Jeffery S. Stevenson**, 20, of Newton, N.J., died July 13 from a non-hostile incident in Al Anbar province, Iraq. He was assigned to the 7th Engineer Support Battalion, 1st Marine Logistics Group, I Marine Expeditionary Force, Camp Pendleton, Calif.

**Aviation Boatswain Mate Third Class Petty officer Daniel R. Verbeke**, 25, of Exton, Penn., died July 14 in Paoli, Penn. of complications from injuries he suffered in a flight deck accident in December 2005 while serving aboard the USS Theodore Roosevelt, CVN-71.

**Staff Sgt. Jeremy D. Vrooman**, 28, of Sioux Falls, S.D., died July 15 in Baghdad, Iraq of wounds suf-



ferred when an improvised explosive device detonated while his unit was conducting combat operations in Kn'an, Iraq. He was assigned to the 2nd Squadron, 2nd Stryker Cavalry Regiment, 2nd Stryker Brigade Combat Team, 1st Armored Division, Vilseck, Germany.

**Staff Sgt. Danny P. Dupre**, 28, of Lockport, La., died July 15 from wounds sustained while supporting combat operations in Al Anbar province, Iraq. He was assigned to 1st Battalion, 9th Marines, 2nd Marine Division, II Marine Expeditionary Force, Camp Lejeune, N.C.

**Staff Sgt. David W. Textor**, 27, of Roanoke, Va., died July 15 in Mosul, Iraq of injuries suffered from a vehicle incident. He was assigned to the 3rd Battalion, 1st Special Forces Group (Airborne), Fort Lewis, Wash.

**Tech. Sgt. Jackie L. Larsen**, 37,

of Tacoma, Wash., died of natural causes July 17 at Balad Air Base, Iraq. She was assigned to the 9th Reconnaissance Wing, Beale Air Force Base, Calif.

**1st Lt. Jason D. Mann**, 29, of Woodlynne, N.J., died July 17 from a non-hostile incident in Helmand province, Afghanistan. He was assigned to the 1st Battalion, 6th Marines, 24th Marine Expeditionary Unit, II Marine Expeditionary Force, Camp Lejeune, N.C.

**1st Lt. Nick A. Dewhirst**, 25, of Onalaska, Wis., died Sunday in the Qalandar District of the Khost Province, Afghanistan of wounds suffered when his convoy came under attack by individuals using rocket propelled grenades and small arms fire. He was assigned to the 2nd Battalion, 506th Infantry Regiment, 4th Brigade Combat Team, 101st Airborne Division (Air Assault), Fort Campbell, Ky.



Do you have news you would like to share about your club, private organization or work department? Do you have an interesting story and photos of a vacation trip? How about a scuba dive with great photos you took? Have you got a good fish story? *The Hourglass* welcomes submissions of news articles written by members of the community. You can submit articles to the USAKA Public Affairs Officer, Vanessa Peeden, at [vanessa.peeden@smdck.smdc.army.mil](mailto:vanessa.peeden@smdck.smdc.army.mil)

**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 outside of DVD Depot, the Roi-Namur Terminal/Post Office bulletin board and at Human Resources in Building 700. Job listings for Contract positions are available at [www.krsjv.com](http://www.krsjv.com) and on the bulletin board outside of DVD Depot and on the Roi-Namur Terminal/Post Office bulletin board. Full job descriptions and requirements for Contract positions are located online at [www.krsjv.com](http://www.krsjv.com).**

NEED EXTRA money? KRS employment applications are continually accepted for all Community Services Departments and the Human Resources Temporary Pool for Casual Positions such as: Sport officials, scorekeepers, delivery drivers, lifeguards, medical office receptionists, temporary office support, etc. Questions? Call 54916.

**U.S. Army Kwajalein Atoll**

OFFICE AUTOMATION ASSISTANTS, GS-0326-6. Temporary position not to exceed two years. The employee provides clerical support to ensure efficient office operations. The employee accomplishes various duties to provide essential office automation support and production. The employee performs a variety of assignments using the advanced functions of various database software packages. The employee prepares varied documents with complex formats using the advanced functions of word processing, desktop publishing, and other software types. The employee performs systems maintenance functions for electronic mail systems. The employee performs a variety of assignments using the advanced functions of one or more spreadsheet software packages. The employee performs a variety of secretarial and other clerical and administrative functions, using judgment to answer recurring questions and resolve problems. Apply at <https://cpolwap.p.belvoir.army.mil>.

**VETS' HALL**

BARTENDER AND BAR BACK. Call Brianne, 53074 or 52279.

**AIRSCAN PACIFIC**

MECHANICS HELPERS for Aviation Maintenance Department. Must be able to lift 70 pounds, pass a drug test, possess or be able

to obtain a driver's license and be able to read, write and understand English. Applications will be taken at the AirScan administration office in Building 902. No phone calls.

**FOUND**

WRISTWATCH near SpaceX bicycles in front of Jabro TDY building. Call 53910.

**GIVEAWAY**

FREE SLEEPER/SOFA, beige and light green pattern, will help move. Call Rick, 52201.

**PATIO SALES**

SATURDAY, 8 a.m.-noon and MONDAY, 8 a.m.-noon, Quarters 223-B. Fishing gear, household goods, toys, clothing, furniture, shelving, carpets and plants.

MONDAY, 6:30-9:30 a.m., Quarters 407-A. Multi-person sale. Clothing, housewares, books, CDs, *Buckminster and Friends* cartoons and decorative items. No early birds. Rain cancels.

MONDAY, 8-10 a.m., Trailer 592. DVD bookcase, computer desk (giveaway), clothes, books and computer cables.

MONDAY, 8 a.m.-5 p.m., Trailer 721. Yard equipment, household goods, computer desk and equipment and technical books. Mission activities will cancel.

MONDAY, 8 a.m.-?, outside of the hospital, end of Reef bachelor Quarters. PCS sale. Fishing gear. Rain cancels.

**FOR SALE**

DOC LAUSCH surf prescriptions, hollow carbon s-core 6'2 surfboard with fins stomp pad, like new, \$500; full set of kite gear, 16M Naish X2, 12M RRD, two sets bar and line, harness and liquid force board, all in great condition, \$1,800. Call 56057, or email [wavehungry@hotmail.com](mailto:wavehungry@hotmail.com).

PRE-PCS SALE. Makita table saw and compound miter, saw, electric lawnmower and weed eater, 100-foot extension cord, storage sheds, three rolls of bamboo fencing, aquariums, 75-gallon and 30-gallon, HDTV antenna with amplifier and home-brew supplies. Call 53832, after 5 p.m.

2002 TROPHY 25-foot boat, looks and runs great, twin Mercury 150-horsepower saltwater series motors, hard top, outriggers; VHF, GPS/ depth finder, marine head, sink, transom

**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 at 12:30 p.m., in Roi chapel.

Protestant  
Sunday  
8 and 10:45 a.m., on Kwaj and Roi-Namur service at 4 p.m.  
Sunday school for all ages is at 9:15 a.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 for more information.

shower, wash down, aft cabin type storage or sleeping area, on newly sand-blasted/painted trailer, boathouse 310, \$40,000. Call Corinne or Gary, 54507, evenings.

HEWLETT PACKARD 882 color printer with ink cartridges, \$20 and three-person futon, \$50. Call 54778 and leave a message.

PCS SALE. Boat, 21-foot, fiberglass hull, bimini top, 225-horsepower outboard, 50-gallon fuel tank, radio, safety equipment, trailer and house, \$8,400; boat, 27-foot fiberglass Crown Line cabin cruiser, 350 merc, stern drive, 15-horsepower kicker, trailer and house. \$22,000 and Bose 901 speakers with Bose EQ, \$300. Call 59662.

MICROWAVE OVEN, \$50; ocean kayak, \$150; bicycle rack, \$20; hammock, \$20; cabana umbrella with crank, \$25; bunk bed with drawers/desk, \$300; loft - full/twin, \$75; blender, \$15; Morgan Out island sailboat, with boathouse and mooring, \$5,000 or best offer and 22-foot Boston Whaler with trailer, \$17,000. Too much to list. Call 54991.

WHITE MINI-BLINDS (six) for 400-series housing, \$20 each. Call 52161, after 4 p.m.

GE NAUTILUS portable dishwasher, great condition, \$125 and butcher block top kitchen cart, \$25. Call 54676.

FISHING SUPPLIES (hooks, heads, skirts, leader, crimps, and more), \$400 or best offer; wet suit, 5mm woman's small, \$15 and plastic shelving unit, \$20. Call 54519.

COLLAPSIBLE two-drawer mobile kitchenette,

**Lunch**

<i>Saturday</i>	<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Aug. 1</i>
Swedish meatballs	Smoked ham	Beef tips in Burgundy	Chicken/sherry sauce	Stuffed cabbage	Fried chicken	Roast turkey
Fish sandwich	Meat/cheese pizza	Whole roast chicken	Broccoli/rice casserole	Chicken pot pie	Short rib stew	Beef/broccoli stir-fry
Parsleid noodles	Szechuan beef	Ham Marco Polo	Beef/peapod stir-fry	Pasta a la pesto	Red beans in broth	Sage stuffing
Grill: Hot dogs	Grill: Brunch station open	Grill: Brunch station open	Grill: Sloppy Joes	Grill: Tuna melt	Grill: N/A	Grill: Hot dogs

**Dinner**

<i>Tonight</i>	<i>Saturday</i>	<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>
Stir-fry to order	Grilled minute steak	Spaghetti	Salisbury steak	Sweet-and-sour pork	Top round of beef	Roast pork
Charisiu spareribs	Chicken stew	Veal Alfredo	Spicy tofu	Chicken hekkia	Lemon herb chicken	Chicken enchiladas
Chicken nuggets	Grilled salmon	Baked mahi mahi	Spicy veggies	Korean beef steak	Noodles Romanoff	Texas-style chili

*Café Pacific*

**The Small Arms Range will be in operation from 8 a.m. to 2 p.m., Tuesday. Observe the hazard area between the red flags.**

great for bachelor quarters, \$30; Apex DVD player and seven-speaker surround sound system, good condition, \$100; woman's bicycle, less than one year old, paid \$300, will sell for \$80; snorkeling mask, new, never used; and Hawaiian sling, will only sell as combo, \$40. Call 52910 and leave a message.

DISHWASHER, \$50 and Navy blue carpets for 400 series house (five), \$30 each. Call Gina or David, 53990.

GUITAR, 12-STRING Larrivee, J-09, jumbo solid rosewood and spruce, near mint condition, see Acoustic Guitar Magazine, March 2008, for information, \$900 or best offer. Call 51061, after 6 p.m.

VHF/FM MARINE RADIO and charger, \$120; pots and pans, \$25; drinking glasses, Kitchen Aid, heavy-duty, \$150; Simac gelato/ice cream maker, \$100; Cuisinart DLC-7, \$100; computer desk and chair, \$25; shoe rack, \$10; shelving, assorted, rollerblades, woman's size 9, \$15.00 and digital phone, \$30. Call 52935.

JVC REAR PROJECTION 48-inch TV, \$550; Olympus digital camera with underwater housing, \$250; men's rashguards size medium-extra-large, new, \$20; Cabrinha harness/impact vest, new, \$30 and extreme water scooters, new, \$100. Call 52813 and leave a message.

GRADY-WHITE 240 off shore boat with Yamaha 150-horsepower outboard motors, 150-gallon fuel tank, stereo, VHF, and dual-axle trailer, cabin with lots of storage space, lots of spare parts including two Yamaha engines, located on Boat Lot 4, \$35,000 and two Penn 130 reels. Call 59335 or 59081.

**COMMUNITY NOTICES**

COOL SUMMER NIGHTS dance will be 7-10 p.m., Saturday, at the Youth Center. Open to Grades 7-12. Questions? Call 53796.

**THE MANDATORY ISLAND ORIENTATION**



**SCHEDULED FOR WEDNESDAY HAS BEEN CANCELLED. THE NEXT ORIENTATION WILL TAKE PLACE IN AUGUST.**



THE INSANE GECKO POSSE will play at 8 p.m., Sunday, at the Vets' Hall for Stephanie Smith and Kristen Frunk's PCS party. Wear your best toga.

TRY YOUR HAND at Frisbee golf July 19- Aug. 18. Check out discs from the Hobby Shop. The course starts at the Gear Locker.

RED PIN BOWLING will be held 1-4 p.m., Aug. 3, at the Bowling Center. Questions? Call 53331.

THE KWAJALEIN GOLF ASSOCIATION will hold a Backwards Fun Tournament Aug. 4. It will be a 10 a.m. shotgun start. Registration begins at 9 a.m.. Be at the course by 9:30 a.m. Format is nine-hole scramble with course played in reverse. Five players per team. \$25 for KGA members, \$35 for non-members. Call Larry Cavender, 52406, or e-mail [larry.cavender@smdck.smdc.army.mil](mailto:larry.cavender@smdck.smdc.army.mil).

BINGO NIGHT will be Aug. 7, at the Pacific Club. Card sales begin at 5:30 p.m., Bingo play begins at 6:30 p.m. Blackout at 57 numbers with a \$1,100 prize. Windfall completion at 29 numbers with a \$2,000 prize. Must be 21 to enter and play, bring identification.

FAMILIES THAT HAVE withdrawn their children from the Child Development Center and/or School Age Services before and after school programs must visit the Central Registration office to re-enroll for services prior to attending. Registration for the Before and After school program must take place not later than Aug. 16. The SAS before and after school program will begin on Aug. 19. For more information please contact Micah Johnson at 52158.

THE MOBILE KITCHEN will hold an intimate evening Aug. 16 at Emon Beach featuring live piano music. Menu to include avocado and shrimp terrine, cranberry freeze salad, baguettes, garlic herb-crusted prime rib, oven-roasted potato, green beans almandine, chocolate fondue with fruit and cake, beer, wine. Cost is \$30 for meal-card holders and \$35 for non meal-card holder. For payment, see Anna Choban at the Food Service Office, Building 805, next to the Bowling Center.

EMPTY PROPANE tanks can be returned to the 816 Essential Store for refund. Hours are: 9 a.m.-1 p.m., Mondays and 2-6 p.m., Tuesday through Saturday.

THE KWAJALEIN ART GUILD is looking for island artists and crafters who would be willing to share their talents (drawing, painting, candle making and scrap booking) with the community. Call Kathy, 54613.

THE VETERINARY CLINIC and Physical Therapy office have moved. The Vet Clinic is at Quarters 424-A and Physical Therapy is at Quarters 424-D. The phone numbers are the same.

THE 816 MINI-STORE is open 9 a.m.-1 p.m., Mondays, and 2-6 p.m., Tuesday through Saturday.

HOUSING RESIDENTS are reminded that IAW SPI 2600 R2 states: Existing bamboo/cane fence structures are grandfathered structures as of the approval date of this instruction. However, they must meet local building standards and IBC codes and regulations to keep their grandfathered status. Upon housing assignment, termination, or relocation, the owner must remove the grandfathered structure. The structure cannot be sold, traded or transferred to another individual for the purpose of relocation to another housing unit. If the owner moves to other family housing, they may request approval to reinstall the fence structure at their new quarters by gaining approval of a building permit.

HOUSING AND TRAILER occupants are reminded that before placing any plants in the ground a landscape application and an approved dig permit application must be submitted to the Logistics Housing Office in Building 908. Requests will be reviewed and requestor will be notified of approval or disapproval. Species of plants must be indicated on the application. For copies of the Residential Yard Care and Landscaping SPI 2601, go to KARDS or email [billy.abston@smdck.smdc.army.mil](mailto:billy.abston@smdck.smdc.army.mil).

HOUSING AND TRAILER occupants are reminded that before leaving island for more than 14 days, arrangements must be made for grass to be mowed and trimmed in their absence. Failure to make these arrangements could result in a \$75 Public Works service fee if the lawn care is not performed after two seven-day notices. For more information, e-mail [billy.abston@smdck.smdc.army.mil](mailto:billy.abston@smdck.smdc.army.mil).



The Commanding General,  
U.S. Army Space and  
Missile Defense Command/  
U.S. Army Forces Strategic  
Command, invites you to attend  
the U.S. Army Kwajalein Atoll  
Change of Command ceremony



at 1 p.m., Thursday, July 31,  
at which time

Col. Stevenson L. Reed  
will relinquish command to  
Col. Frederick S. Clarke.

Location is the fixed wing hangar.  
Dress is duty uniform for military  
and casual for civilians.

Reception follows immediately.



COL. STEVENSON L. REED



COL. FREDERICK S. CLARKE

## AAFES from Page 2

been stronger,” said Kwajalein General Manager, Kris Kovas, “Whether at their home station, deployed overseas, providing support in the wake of a natural disaster, or even in the hospital, AAFES is there.”

Since its establishment in 1895, AAFES has been involved in 14 major contingencies (to include the Spanish-American War, WWI, WWII, Korea, Vietnam, Grenada, Panama, the Balkans and Operations Enduring and Iraqi Freedom) and several dozen humanitarian and disaster relief contingencies.

AAFES is a joint command of the U.S. Army and

U.S. Air Force, and is directed by a Board of Directors who is responsible to the Secretaries of the Army and the Air Force through the Service Chiefs of Staff. AAFES has the dual mission of providing authorized patrons with articles of merchandise and services and of generating non-appropriated fund earnings as a supplemental source of funding for military Morale, Welfare and Recreation (MWR) programs.

To find out more about AAFES’ history and mission or to view recent press releases please visit our Web site at <http://www.aafes.com/pa/default.asp>.

## Weather courtesy of RTS Weather

**Saturday:** Mostly sunny, 10 per cent showers. **Winds:** E at 8-13 knots.  
**Sunday:** Mostly sunny, 10 per cent showers. **Winds:** E at 8-13 knots.  
**Monday:** Partly cloudy, 20 per cent showers. **Winds:** E at 5-10 knots.  
**Tuesday:** Mostly sunny, 10 per cent showers. **Winds:** ENE at 8-13 knots.  
**Wednesday:** Mostly sunny, 10 per cent showers. **Winds:** E 8-13 knots.  
**Thursday:** Partly cloudy, 30 per cent showers. **Winds:** E at 5-10 knots.  
**Aug. 1:** Partly cloudy, 30 per cent showers. **Winds:** E at 5-10 knots.

Annual total: 43.67 inches  
Annual deviation: -2.04 inches

Call 54700 for updated forecasts or visit [www.rts-ux.com](http://www.rts-ux.com).

## Sun • Moon • Tides

	Sunrise/set	Moonrise/set	High Tide	Low Tide
Saturday	6:29 a.m./7:03 p.m.	12:07 a.m./12:55 p.m.	9:03 a.m., 2.9'	3:08 a.m., 0.8'
			10:07 p.m., 3.3'	3:21 p.m., 0.5'
Sunday	6:29 a.m./7:03 p.m.	12:57 a.m./1:54 p.m.	10:31 a.m., 2.4'	4:44 a.m., 1.0'
			11:45 p.m., 3.3'	4:40 p.m., 0.8'
Monday	6:29 a.m./7:03 p.m.	1:52 a.m./2:57 p.m.	12:38 a.m., 2.3'	6:48 a.m., 0.9'
				6:25 p.m., 0.8'
Tuesday	6:29 a.m./7:03 p.m.	2:53 a.m./4:02 p.m.	1:19 a.m., 3.6'	8:15 a.m., 0.4'
			2:11 p.m., 2.5'	7:51 p.m., 0.5'
Wednesday	6:29 a.m./7:03 p.m.	3:58 a.m./5:06 p.m.	2:27 a.m., 4.0'	9:11 a.m., 0.1'
			3:09 p.m., 2.9'	8:52 p.m., 0.1'
Thurs	6:29 a.m./7:03 p.m.	5:03 a.m./6:06 p.m.	3:19 a.m., 4.5'	9:55 a.m., 0.5'
			3:54 p.m., 3.3'	9:41 p.m., 0.2'
Aug. 1	6:29 a.m./7:03 p.m.	6:06 a.m./7:01 p.m.	4:04 a.m., 4.8'	10:34 a.m., 0.8'
			4:33 p.m., 3.7'	10:23 p.m., 0.5'