

# THE KWAJALEIN HOURGLASS

Volume 41, Number 56

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U.S. Army Kwajalein Atoll, Republic of the Marshall Islands

## Washington Post writer chronicles missile defense

By Peter Rejcek  
Associate Editor

Bradley Graham's book on National Missile Defense is about a work in progress: It's something of a biography about a subject that has yet to hit maturity. But don't ask Graham about a sequel at this time.

"It's very exhausting writing a book about an unfolding controversy, especially one with classified and sensitive — diplomatically and politically sensitive — material," he said. "Logistically, it's really, really hard."

The book, "Hit to Kill: The New Battle Over Shielding America from Missile Attack," is about two weeks away from being sent to the publisher. It's due on bookshelves Nov. 6.

Graham was at USAKA last July for IFT-5 for research and returned last week to watch Sunday's test while putting the final touches on his manuscript. He sat down with the *Hourglass* Friday afternoon to talk about the book and its complex, evolving subject.

A *Washington Post* reporter who had covered the Pentagon for six years and has been with the paper since 1978, Graham took a hiatus from his job to fill what he saw as a vacuum of information about the NMD program. The book covers the development of the program's politics, the diplomacy and the technology since about 1994, when Graham said he first noted that missile defense had returned as a national issue.

By 1999, NMD had begun to dominate the political landscape. As a Pentagon reporter, Graham said he was ideally positioned to write the early biography of NMD, somewhat in the tradition of journalists who chronicled real-time events in previous decades, such as the arms race between the former Soviet Union and the U.S.

"I got the idea to take some time off and write about missile defense ... why it seemed to be coming back," he said. "I thought I'd try and revive a lost art form."

Graham said the catalyst behind NMD, at least in part, was the reclamation of Congress by the Republican party in 1994. With the rise of the so-called "rogue nations" and "nations  
(See REPORTER, page 6)

## IFT-6 hits, scores



(Photo courtesy of RTS Photo Lab)

The ground-based interceptor launches from Meck during Sunday's IFT-6 mission. The exoatmospheric kill vehicle successfully hit the reentry vehicle over the Pacific.

## Mission success will impact Kwaj

By Jim Bennett  
Editor

A year of pressure lifted with a single strike at 3:09:42 Sunday, when an exoatmospheric kill vehicle destroyed an incoming reentry vehicle over the Pacific Ocean.

The National Missile Defense program will now jump-start to four tests a year, after Sunday's successful "hit to kill."

"The world watched today," said Jerry Cornell, Boeing site manager. "This keeps the

program where it needs to be."

Cornell said the stepped-up testing schedule will not require more personnel living on Kwajalein, but will result in more numerous visits by the 315 or so TDY personnel who attended Sunday's launch.

And Cornell couldn't have understated the amount of interest in the test. In fact, 38 video teleconferencing centers across the U.S. showcased the event for people from the

(See THUNDER, page 4)

Editorial

# Kwaj teams serve the customer. Now, be the customer

I want to congratulate all of you for the successful intercept Sunday because it took all of you to make it happen. Don't forget that.

I sat at a console in the control center down at the Range ... the pace ... the anticipation ... steeling my nerves like everyone else. My mind raced. Minuteman II target, ballistic missile with kill vehicle, sensors ... the countdown clocks ticking on both. What is Greenpeace doing? And, my thoughts kept going back to all of you in this community. "Whether the thing intercepts or not, this workforce did a Hooah! job of supporting the customer for this mission."

Our customer for this mission is the Ballistic Missile Defense Organization and its National Missile Defense program and, as you know, people began arriving by the planeloads a couple of weeks ago. At that point, everything you do in your day-to-day routines becomes visible and



immediate and I want you to know the feedback our customer has given me about your service.

Whether you work in housing or transportation, construction or retail, aviation or food services, technician or laborer, mission support or logistical support, you have been sensitive to our customer's request, and they noticed. They have expressed to me that they didn't have to ask twice for anything; whatever they asked for, they received.

I thank you for being customer-focused. And, I want to ask you to be customer-focused when you are the customer.

Maybe I've stressed an "open door" policy so much that you don't empower yourself to find solutions to day-to-day needs and problems. If you have a question about any service on Kwajalein or Roi-Namur, talk to the manager or the frontline person there. Ask him or her the hard question. Give them a chance to be customer-focused to you, the internal customer.

Your peers — the workforce on Kwajalein and Roi-Namur — are capable of resolving your problem or at least presenting it to the right person who can. But, it isn't fair to go immediately to the top of that person's chain of command with your questions or problems without first giving him or her a chance to help you — to do their job.

A talk/listen exchange solves problems quicker than any committee or hotline. Again, your ongoing support and hard work reminds me daily of the thing I already know ... I know you're with me. Hooah!

## IFT made for great story

We've covered a lot of stories on Kwajalein in the past several years, but Sunday's mission represents a high point for us and the island.

Sure, as a community, we do good work, and important work, year round. Sunday, however, under extreme pressure from the outside and under the watchful eye of not just our customers, our government and our nation, but the entire

defense community around the world, we nailed it.

We blasted a dummy warhead traveling thousands of miles an hour out of the sky with another vehicle traveling thousands of miles an hour, all at a distance of thousands of miles. Pretty staggering stuff, when you think about it.

And we'll get our chance to do it again in October and four to six times a year in the future.

We report news. That's our job. But we enjoy it more when we can report good news. We look forward to more Sundays.

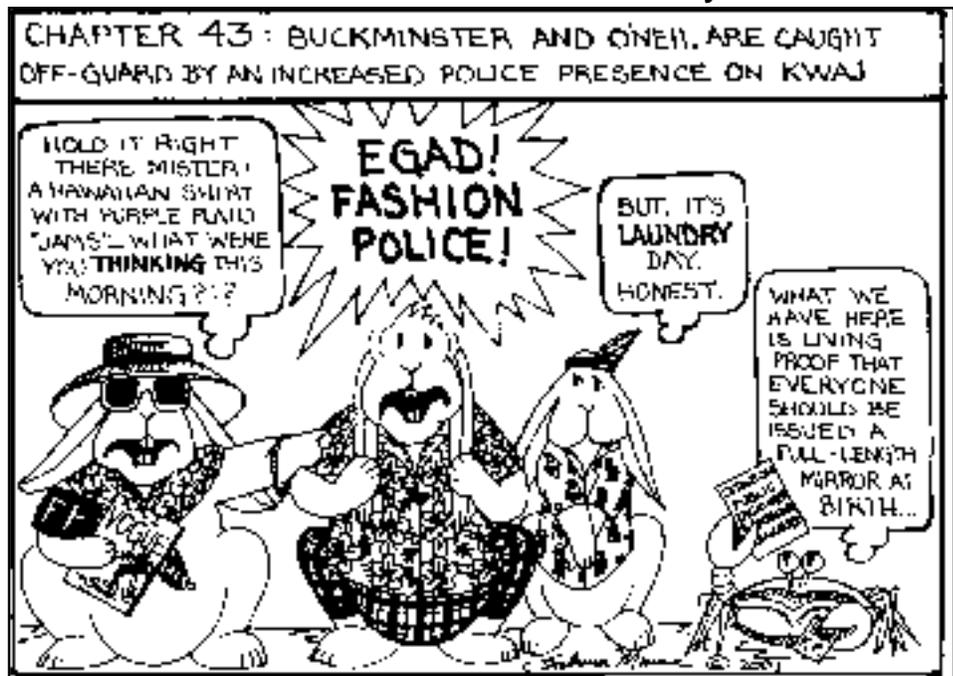
### The Kwajalein Hourglass

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## Buckminster and Friends — By Sabrina Mumma



# Community Activities pooling together more lifeguards

## Haney takes over pools and beaches

By Barbara Johnson  
Feature Writer

Pauline Alfred dove right in to her new job as a lifeguard. She had to rescue a child on her first day. Alfred was at Emon Beach on the Fourth of July a year ago, she said, and had just relieved Ian West, then coordinator of Pools and Beaches, at his post on the beach.

"Just as [Ian] was walking away, I saw a kid struggling, trying to get his head above the water," she said, adding that he wasn't far out and was within the roped-off area.

"I blew my whistle to get the other lifeguard's attention, then dove into the water. I had to carry him in to where he could stand," she said. "Then he started crying, and his parents came over and calmed him down."

After that first incident, although she worked all year, Alfred didn't have another until exactly a year later. This time, Alfred spotted a small child crying in the waves at Emon Beach. She went in and helped him to shore.

Lifeguards are a vital part of water safety at Kwaj, and currently they are in short supply.

Kristin Haney, new coordinator of Pools and Beaches for Community Activities, arrived June 30 and got right into the swim of things. She plans to offer lifeguard courses next month to remedy this situation and add a few more lifeguards to the roster.

Although 12 lifeguards are signed up to work, several are on vacation and three are leaving for college in August, Haney said. She can take up to 10 individuals in the class.

Lifeguard classes will be held sometime between August 11 and 24, at times to be determined by the students' schedules.

The classes, which are Red Cross-certified, comprise nine three-hour mod-



(Photo by Barbara Johnson)

**Kristin Haney, new Pools and Beaches Coordinator for Community Activities, keeps watch over the Family Pool during her lifeguarding shift. Haney will offer lifeguarding classes in August to help train more lifeguards for the Kwaj pool and beach.**

ules, plus an extra hour, totaling 28 hours of training, said Simone Smead, Community Activities manager. They include some in-pool testing, videos and hands-on training, and cover lifeguarding, CPR and first aid.

Everyone who completes the class is then eligible to become a lifeguard, but everyone is not necessarily slotted into a position, Smead said. This depends on the number of openings for lifeguard positions.

People who are not planning to lifeguard sometimes like to take the training anyway, she said.

"We live on an island, and we try to make this a safe community," Smead added.

Lifeguards are responsible for guarding the family pool and beach and making sure safety rules are followed. They must be at

least 15 years old.

Lifeguards work in three-hour shifts during the hours the pool and beach are open to the public.

Anyone interested should call Haney at 52847.

Haney came to Kwaj from Pittsburgh. She graduated from Shepherd College in West Virginia with a degree in sports and recreation and has been a lifeguard for nine years. Haney swam backstroke on her high school swim team and played basketball in college.

"It's a dream come true to run a facility and implement programs in my field," Haney said, adding that she was a pool manager in the states for three years, but there the work is seasonal.

"I had to move where it's hot if I wanted to do what I like to do," she said.

With summer in full swing, it's important to keep in mind some water safety rules that help prevent problems in and around the water. Both the family pool and Emon Beach have a more complete list of rules posted.

Smead said that residents should "be aware that this is a natural environment and there will be fish, coral and jellyfish in the water."

### Keeping Your Head Above Water

Remember to use the buddy system at all times at the pools and beach. Never swim alone.

Swim only in designated areas.

At Emon Beach, swim outside the ropes only when with a buddy and wearing a PFD.

Don't swim in the water-skiing area.

Don't swim oceanside, where the coral understructure is a hazard.

Know your swimming limits and stay within them.

Don't bring any glass containers to the beach or beverages into the water.

Watch out for the dangerous "too's": too tired, too cold, too much sun, too much hard playing.

A red cross flag on the lifeguard stand indicates that a lifeguard is on duty.

# 'Thunder in the exo' hits home . . .

(From page 1)

military, government and media. More than 10 centers in the Washington D.C. area, alone, featured video from the launches and control rooms. Other sites included Huntsville, Colorado Springs and California, to name a few.

## An Early Start

Mission day opened with an early morning boat ride from Kwajalein to Meck. More than 200 staff, TDY and local, crowded on the catamaran *Jelang-K* in the pre-dawn hour, around 6 a.m. As the boat passed Little Bustard, the sun rose over the ocean and a rainbow shone over Carlson, across the lagoon. It was a good omen, as a rainbow lit up Meck prior to the successful IFT-3 mission in October 1999.

Dressed in matching shirts, various groups gathered on the upper deck and in the two large cabins. Battle Management Command, Control and Communications team members dressed down in blue aloha shirts. Raytheon EKV and Boeing mission personnel wore golf shirts. Lockheed Martin staff sported baseball jerseys.

"Everybody has their thing," said Fred Lackey. Lackey has worked with numerous missions. He currently serves as a public affairs specialist for the NMD program.

"You won't see red, though. Red on a range



means stop," he said.

One group had worn red T-shirts during IFT-5, defying conventional superstition. For this mission, four of them had placed those red shirts below the interceptor in an attempt to burn them.

The teams seemed in good spirits Sunday morning with quiet jokes and conversations passed about the boat. Many talked about Greenpeace protester Alice Leney's deportation from Shell Island. Others wondered out loud what other protests might accompany the mission. But no one seemed unsure of the mission.

"There was a lot of confidence," said Mission Director Kemy Ivey. "We were *going* to have a success."

And yet, underneath all the confidence, Ivey said the team recognized the need to make an intercept after two failed attempts. The last successful hit had come in October 1999 during IFT-3. The last test, IFT-5, was in July 2000.

"There was more tension, more stress [than IFT-5]," Ivey said. "There was a lot of external pressure for the program. The program needed this success. And there was internal pressure for ourselves. This is what we live for."

Despite the pressure, preparations for IFT-6 seemed to go more smoothly than the past two missions, according to John Fratangelo, chief scientist for the independent assessment team.

"We didn't have the issues [on IFT-6]," Fratangelo said. "On the last two, we had something right down to the last day."

Fratangelo has worked on missile programs for more than 30 years. He spent 13 of those years on Kwajalein. He returned to the island for IFT-6. His job is to think of things that others might have forgotten, to consider possibilities others have not.

"What did I forget to think about?" That's the stuff that keeps you up at night," he said.

On Sunday at noon, however, with only hours to go, he remained cool and calm, visiting with his co-workers, but still not eating on launch day, a habit he developed decades ago in the missile program.

"You have the feeling that you've done everything you can do, that you've paid attention to the things you need to," he said.

And Fratangelo, like many, dismisses much of the criticism stemming from the first five tests of a 20-plus test program.

"We've never had a perfect program," he said. "If you could guarantee success, take away the money for the program. Deploy it. There's no need to fly."

## Fly Baby Fly

Shortly after lunch, for those who ate, the control room filled to capacity, each seat taken by an expert or representative of some group or another. At the center table facing a large video screen sat Maj. Gen. Willie Nance, NMD program manager, flanked by Brig. Gen. (P) John Urias, SMDC deputy commanding general, and Jim Evatt, Boeing vice president and program manager for NMD. All sat and whispered as radio traffic came over the intercom.

"This is a status check."



(Photo by Jim Bennett)

**Military police Sgt. Virgil Curry and his dog, Alan, search the rocks on Meck for any infiltrators Sunday before the mission.**



From left, Boeing executive Jim Evatt, Maj. Gen. Willie Nance and Brig. Gen. (P) John Urias discuss mission issues prior to launch.

(Photos by Jim Bennett)

“All is green, no exceptions.”

At T-7 minutes, however, 1:58 p.m., reports came in of two Zodiacs in the boat exclusion zone at Vandenberg Air Force Base. U.S. Coast Guardsmen picked them up, but the mission would briefly stop. At 2:15 p.m., the clock resumed at T-25 minutes.

At 2:40 p.m., the screen showed an open field at Vandenberg. When the countdown reached 0, a blast filled the center screen and a missile shot from the underground silo.

A chorus in the room rang out, “All right,” and the clock for the interceptor continued its countdown.

Throughout the mission building on Meck, groups of support people, with no buttons to push, sat in various rooms around televisions watching. A graphic display showed the trajectory of the target. All systems reported again, “green.”

Around 3 p.m., the countdown fell to the final seconds for the ground-based interceptor launch. As it shot into the heavens, the windowless rooms shuddered slightly, and all could hear the muffled roar of the blast off. Again, some low, quiet cheers accompanied the launch.

The video displayed the missile in flight so clearly one could read the decals on the side. As the booster separated, the groups cheered again. The displays returned to a map showing green and red lines approaching each other — one the target, the other the interceptor. Moments before the scheduled intercept, the screen changed to a black and white video feed. A little white dot known to be the interceptor seemed to hang in space until the countdown to intercept reached zero at 3:09:42. A pause followed, and a bright flash filled the screen. The audience erupted in cheers.

#### **Post-Op**

Though filled with excitement, team members still had to complete some final kill assessments, and many reports would have to be filed and briefings given.

The first, called a “Hot Wash,” united the control room teams for a quick overview of the mission.

Ivey reported with a smile on his face, “Everything was nominal.”

“It went extremely well,” Ivey said later. “It couldn’t have gone better.”

Ivey will PCS from Kwajalein this week. Of his departure and the mission he said, “I went out with a bang.”

The range collected large amounts of data, and the GBR assigned and discriminated the target complex as expected, he added.

Reporting for the BMC3, which collects the mid-flight data and directs the kill vehicle, Jim Estes simply said, “We had a good mission.”

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**You are committed to developing this technology to defend our country. You can be proud of your commitment and you can be proud of your success today.**

— Maj. Gen. Willie Nance  
NMD program manager

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Cornell presented the American flag that flew over Meck to Nance, saying, “Sir, we celebrated the Fourth of July as a team, watching the fireworks.

Today, we celebrated again, watching the fireworks of the thunder in the exo,” Cornell said, referring to a representative theme given to the mission.

“Though we’ve had some setbacks over the last year, we’ve learned a lot, too,” Nance replied. “It has been a long year and a lot of work by everyone here. You are committed to developing this technology to defend our country. You can be proud of your commitment and you can be proud of your success today. You are the world’s best at doing this.”

Urias agreed, adding later, “This is a big step for SMDC, and the NMD team is unbelievably professional.”

#### **What’s Next**

With Sunday’s success, NMD remains on schedule to host four or more tests a year in the upcoming years, and as Cornell said, “That will keep us extremely busy.”

But the test could have other ramifications for Kwajalein.

Mitch Kugler, staff director, Subcommittee on International Security, Proliferation and Federal Services, Committee on Governmental Affairs, sat at the table alongside Nance. He’ll take what he saw back to Congress, and he said the success will help him support the program.

“It’s not a question of whether or not we can do this, but whether or not we’ll put the distractions aside and do it,” Kugler said. “The people who support it will still be for it, and the people who are against it will still be against it. What this does is lend credence to the people who support it and goes against the people who say the technology is not there. We’ve done it twice now.”

# Reporter offers 'real-time' story about NMD ...

(From page 1)

of concern," the program grew in importance and gained public support.

Graham said he makes no judgments in the book. He takes readers into the Oval Office, the offices of congressional members, the conference rooms of NATO and into what Graham calls the "technological front trenches" of the program itself. Chapter 14 concerns the role of USAKA and first appeared as an article in *The Post*.

On a personal level, Graham said it would be irresponsible of the government not to deploy the system. "There is clearly a potential for missile attack," he said, but added that NMD is still unproven. "We're only at the beginning of it. I think the testing process should be allowed to proceed."

That certainly seems to be the opinion of the Department of Defense, which is backing an \$8.3 billion budget for missile defense — about \$3 billion more than originally budgeted. Pending congressional approval, Pentagon officials

said the money will be used to conduct more testing at Kwajalein Atoll in the Pacific and Vandenberg Air Force Base, Calif., and to establish more test facilities in Alaska, according to a July 13 article by Armed Forces Press Service.

An Associated Press story that same week said the Pentagon is piecing together a plan to create a "Pacific test bed" that would not only include the range at USAKA and Vandenberg AFB but also Fort Greeley and Kodiak Island in Alaska to "pursue more realistic missile intercept tests."

While fascinated by this technology and the many possibilities it offers, Graham said his story is about people, their creativity and their dedication.

"People don't realize what goes into these operations," Graham said. "There's a great drama in watching people ... who really know their jobs come together."

"It's a great story if they pull it off," he added. "It's a great story on many levels."



(Photo by Jim Bennett)

**Bradley Graham interviews Maj. Gen. Willie Nance prior to Sunday's launch.**

## Classified Ads and Community Notices

### We need you!

If you're detail-oriented, have computer skills ranging from basic to advanced and are able to solve problems, we want you to join our new **Raytheon After Hours Team**. The **Raytheon After Hours Team** is seeking hard-working, enthusiastic employees to work with our devoted Supply Department in its continuing effort to provide Kwajalein with an accurate, dependable supply and ordering system. We are seeking candidates to help with data analysis, management and input.

For those Kwaj residents working full time who are looking to make a little extra money we offer flexible evening and weekend hours. For those Kwaj residents who are taking time off from the full-time work world, we offer flexible day, evening or weekend hours for those willing to work part time. Training will begin in mid-July, and the project will continue through the end of the year. Visiting college students, stay-at-home parents and full-time employees are all encouraged to apply at the Raytheon HRO office.

**Classified ads are due by noon Wednesday for Friday's paper and noon Friday for Tuesday's paper.**

### HELP WANTED

**The following on-island positions are open with Raytheon. For more information or to submit a resumé or application, call HR employment, Andrea, 53705.**

**FOM SECRETARY**. Full time. Responsibilities include answering phones, manifesting helicopter flights, processing travel requests, memos and letters, completing accident and lost/damaged reports, ordering supplies, collecting and processing timecards, scheduling appointments, distributing mail and other administrative duties as assigned. Candidate should have the ability to prioritize and juggle many tasks on an on-going basis, work without supervision and take initiative in completing assigned projects. Must possess excellent computer, communication, writing and organizational skills.

**TRAFFIC AGENT**, Aviation Dept. Full time. Individual responsible for ensuring safe and timely loading and offloading of commercial and military passenger and cargo aircraft; conducting emergency ticketing; utilizing airline-style computer systems for cargo and passenger processing and accountability. Candidates must be fluent in English and Marshallese. Computer literacy required.

**PHYSICAL/OCCUPATIONAL THERAPIST**, Casual. Seeking qualified individual to work a few hours per week helping Kwaj patients with physical therapy. Flexible schedule. Experience in physical or occupational therapy required. Qualified candidates will be required to undergo a criminal back-

ground investigation.

**SUBSTITUTE TEACHER**, Elementary and High School. Casual. Teaching certificate preferred, but not required. Selected individuals will be required to undergo a background criminal history check.

**SECRETARY**, Education Dept. Full time. Responsible for maintaining attendance and records, preparing correspondence and assisting the teaching staff. Must have knowledge of Windows, MS Word and databases. Selected individual will be required to undergo a criminal history background check.

**Raytheon off-island positions are updated weekly in the Career Opportunities Book at the HR counter, Bldg. 700.**

### WANTED

LOOKING for roommate to share trailer with. Nice location, half block from Emon Beach, clean, new carpet and quiet. Must be a non-smoker and not married. Girl-friend OK. No children. Call 54120.

### LOST

FOUR KEYS on ring in adult pool area on Ocean Road. Call David, 51475.

TAN CLOGS at Coral Sands. Call 54530.

### FOUND

TIGER CAT, tan with black stripes, 15 lbs., corners of ears folded backwards. Call 52017.

MEDIUM-SIZED brown and green backpack with fishing gear, towel, sunscreen, sunglasses and an exacto knife at Emon

**Classified Ads and Community Notices**

Beach July 5; two small multi-colored beach chairs. Call Community Activities, 53331.

**SERVICES OFFERED**

COLLEGE STUDENT to cut lawns, work on bikes or other jobs. Call 58672.

**FOR SALE**

IKELITE UNDERWATER video housing with Sony 510 8mm camcorder, \$400; rugs; water filter. Call 51035.

FENCE: If you want to take it down, 100 feet plus two gates, needs new rattan, see at Qtrs.440-D, \$200. Call Tom, 54813 evenings.

JC PENNEY Home Collection Urban Garden king comforter, two matching pillows and six valances, \$150; matching lamp, \$35; two sets of king sheets with extra pillow cases, \$25 set; wicker basket, \$10; three matching throw carpets, \$15; Afghan, \$10; dust devil, \$10; Panasonic upright vacuum with extra bags, bulbs and belts, \$125; Hoover upright bagless wind tunnel vacuum, \$125. Call 52161.

COMPLETE SET of Spaulding golf clubs: RH steel shaft, includes one, three, five metal woods, three PW irons, three putters and sand wedge, new black nylon golf bag and pull cart, all for \$225. Call 54197.

15 HPEVINRUDE long-shaft outboard motor with tank, hose and manual, runs strong, \$750 or best offer; three women's Huffy bikes, \$20, \$30, \$40. Call 52642 and leave a message.

LIGHTWEIGHT Cannondale mountain bike; Trek 850 girls mountain bike; Dyno "Moto glide" kruiser, purple with smoke flames, all in brand new condition; Sears crib with mattress; two barbecue grills, one Weber and one gas; child's bike; cordless phone with answering machine; wet suits; patio

furniture; plants; blender; rugs; hand weights; wood shelving. Call 54952.

SONY MHC-BX2 three-disc exchange with mini Hi-Fi component system with two speakers and remote, \$200; Technics quartz synthesiser SA-GX100 AM/FM stereo receiver with remote and four Advent speakers, \$200; Pulsar stainless steel watch with date, stopwatch, dual-time settings and alarm, valued at \$375, sell for \$100. Call 54253.

THREE-WHEEL bike, \$70. Call 52693.

BEER-MAKING supplies, two carboys and more, \$100. Call 53888.

VARIOUS PLANTS, \$5-\$15. Call 53489.

**COMMUNITY NOTICES**

SPECIAL ORDERS for large toys can be made now at Retail Office. Christmas orders should be placed soon! Call 53307.

PUBLIC GARDENS is in desperate need of volunteer carpenters! We have a few wood-working projects and could use your help. For more information, call Sabrina, 54980 or 53410, or stop by the gardens between 9 a.m.-1 p.m.

SUMMERFUN ultimate frisbee will be played July 28, starting at 5:30 p.m. Come on down to Brandon Field and have some fun with us. Teams will be made on the field. Questions? Call Ian, 53331.

REGULAR MONTHLY meeting of American Legion Post 44 is tomorrow, 6 p.m., in the Vets Hall. All members, veterans and active duty military personnel are welcome.

SUMMERFUN basketball is just around the corner. Managers meeting is Friday, 5:30 p.m., in CAC Room 7. Scorekeepers and officials clinic is Wednesday. Scorekeepers at 5:30 p.m.; officials at 6:30 p.m. Questions? Call Audra or Ian, 53331.

HOSPITALITY KITS issued to new, arriving

residents in family housing should be returned within 72 hours after receipt of household goods. For pick-up, call 53434. If you are in family housing and are PCSing, at least 24 hours notice is needed to deliver a hospitality kit and you should arrange for pickup before departure.

ATTENTION RESIDENTS: Government property may not be removed or transferred from any quarters by the resident. Occupants are responsible for the security and care of all government furniture. Do not put furniture outside. Call Lexy at the Furniture Warehouse, 53434.

NO LAUNDRY will be allowed through the Dock Security Checkpoint until further notice. Only badged employees, Summer Fun, Job Corps, domestics and people with special access badges will be permitted to transit through the DSC.

MASONIC FELLOWSHIP meets tomorrow, 7 p.m., in the Yokwe Yuk Club Kabua Room. All Master Masons welcome.

KWAJALEIN BACHELOR Advisory Council meeting is tomorrow, 2 p.m., UPRC. The Bachelor Advisory Council has been established in accordance with USAKA regulation 15-3 to serve in an advisory capacity to the USAKA commander on matters pertaining to island policy and regulations affecting the social and living conditions of bachelors/bachelorettes residing on Kwajalein. Council members from each BQ building are solicited. Unaccompanied personnel wishing to have input to this meeting should contact their representatives. All Kwajalein residents are invited to attend. For additional information, call Community Services, 53400.

BOATING ORIENTATION CLASS will be held July 26-27 in CRC Room 1. Fee is \$20 and attendance both nights is required. Sign up at Small Boat Marina or Community Activities. Call 54394.



Echo Pier and the harbor area (north end of the Fuel Pier to buoy No. 9 to Ski Area Dock), including the Small Boat Marina and the marina ramp, will be closed to all non-essential personnel on Thursday from 7:30 a.m. until approximately 10 a.m. This closure is due to transferring hazardous cargo from the Barge Islander to the LCU.



**Firecracker Scramble**

**Monday, July 23**

**3-person  
9-hole  
Scramble**

**9:30 a.m. show**

**10 a.m. shotgun start**

**\$20 entry fee for KGA members and \$30 for others wanting to have fun.**

**Dogs and drinks at the finish and mulligans for sale**

**Wear something red, white and blue and get one free mulligan.**

**See you at the movies!**

**Saturday**

**Mr. Holland's Opus (PG, 1995)**

Glenn Holland begins teaching at JFK High School with the intent of staying for just a few years until his career as a composer takes off. But three decades later, he's still nurturing students while letting his home life deteriorate. The movie echoes the theme of such films as "It's a Wonderful Life": No life spent in worthy pursuit is ever wasted. (Richard Dreyfuss) (142 minutes)  
*Richardson Theater, 7:30 p.m.*

**Flirting with Disaster (R, 1996)**

Mel Copland is going through a mid-life crisis well before he's middle-aged. A control freak, Mel finds himself out of control when he embarks on a quest to find his biological parents, who apparently abandoned him as a baby. Dragging his wife and unnamed four-month-old son along for the ride, Mel runs into a strange cast of characters, including two gay federal officers, four parents and a brother who tries to send him on a bad acid trip. (Ben Stiller, Alan Alda, Patricia Arquette, Mary Tyler Moore) (92 minutes)  
*Yokwe Yuk Theater, 8 p.m.*

**Operation Condor (PG-13, 1997)**

Jackie Chan movie featuring his usual spectacular stunts, amazing fights and silly humor. The story blends Indiana Jones with James Bond, with Chan as a soldier of fortune who goes to North Africa on a treasure hunt for Nazi gold. In pursuit are all sorts of bad guys, including a couple of bumbling Arab terrorists. (95 minutes)  
*Tradewinds Theater, 8 p.m.*

**Sunday**

**Operation Condor (PG-13, 1997)**

*Richardson Theater, 7:30 p.m.*

**Flirting with Disaster (R, 1996)**

*Tradewinds Theater, 7:30 p.m.*

**Mr. Holland's Opus (PG, 1995)**

*Tradewinds Theater, 9:30 p.m.*

**Monday**

**Mr. Holland's Opus (PG, 1995)**

*Richardson Theater 7:30 p.m.*

**Flirting with Disaster (R, 1996)**

*Yokwe Yuk Theater, 8 p.m.*

**For movie updates, call 52700.**



*(Photo by Twilyn Sheet)*

**AST Field Office chief Al Gurevich, left, and Phil Van Valen, Boeing engineer, take a break from pretesting the modified 767 equipment for Sunday's NMD test.**

# AST 767 supports NMD operation

**By KW Hillis**

*Feature Writer*

Their call sign is simply "Boeing 767" and it was the first ever 767 built. Originally used to get FAA certification for 767s, today it follows a different flight path from all the others of its kind.

As the Airborne Surveillance Testbed, the plane contains a modified 86-foot-long cupola, or hump, on the back of the plane. It landed on Kwaj Thursday to support the NMD mission.

The cupola is divided into two modules, both containing infrared telescopes, said Kerry Koening, AST System Safety engineer. The

forward module weighs 5,000 pounds and is the size of a Volkswagen.

"[It is] to the best of our knowledge, the largest long-wave airborne infrared telescope in the world," said Al Gurevich, SMDC rep at the Seattle office. The aft module contains a Navy Theater Wide sensor for data collection for the Navy.

During Sunday's operation the aircraft climbed to an altitude of 45,000 feet to image the intercept event, Koeing said.

High-quality infrared data is collected on the entire event, Gurevich said. The data is then used to analyze the operation.

**WEATHER**  
Courtesy of Aeromet



**Sun • Moon • Tides**



**Tonight:** Partly cloudy tonight becoming mostly cloudy with widely scattered showers by early Wednesday morning.  
**Winds:** East-northeast at 10 to 15 knots; gusty near showers.  
**Tomorrow:** Mostly cloudy with widely scattered showers.  
**Winds:** East-northeast at 10 to 14 knots, with higher gusts near showers.  
**Temperature:** Tonight's low 79°  
Tomorrow's high 86°  
**July rain total:** 4.35"  
**Annual rain total:** 22.24"  
**Annual deviation:** -22.19"  
*Call 54700 for continuously updated forecasts and sea conditions.*

|                      | Sunrise/set | Moonrise/set | High Tide                | Low Tide                 |
|----------------------|-------------|--------------|--------------------------|--------------------------|
| Tuesday<br>July 17   | 0638/1912   | 0247/1535    | 0118, 4.6'<br>1342, 4.0' | 0749, 1.8'<br>1939, 1.6' |
| Wednesday<br>July 18 | 0638/1912   | 0338/1634    | 0212, 5.0'<br>1439, 4.2' | 0844, 1.4'<br>2031, 1.3' |
| Thursday<br>July 19  | 0638/1912   | 0435/1735    | 0300, 5.5'<br>1527, 4.5' | 0931, 0.9'<br>2118, 1.0' |
| Friday<br>July 20    | 0639/1912   | 0536/1838    | 0344, 5.9'<br>1612, 4.7' | 1014, 0.6'<br>2202, 0.7' |