

Seatbelts give new lease on life

See page 4.

Technical award winners

See page 6.

AWS family lauded

See page 8.

AWS OBSERVER



VOL. 37 NO. 5

HEADQUARTERS AIR WEATHER SERVICE

MAY 1990

Air Force lifts lid on F-117A STEALTH FIGHTER

Awesome lean, mean fighting machine

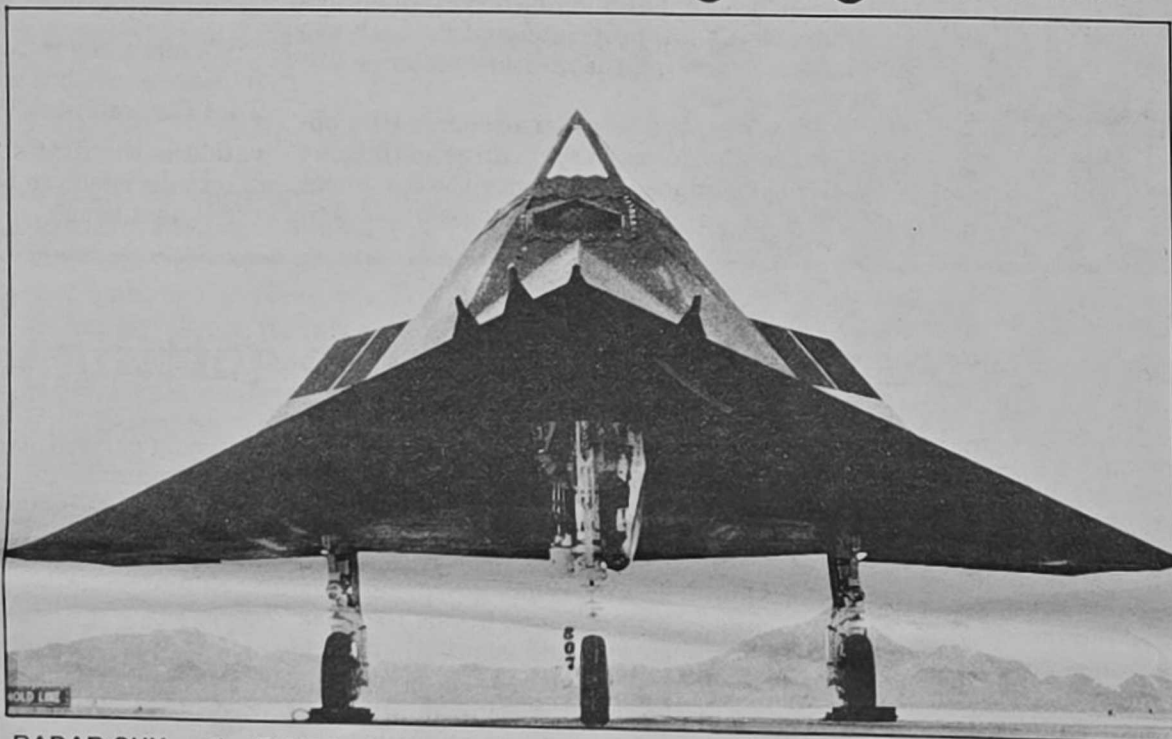
Batman would have been proud to fly it. He would have liked its looks: dark, menacing and at ease with the night.

But the comic-book hero won't be around as the Air Force raises the cloak of darkness that has surrounded the latest addition to its active inventory — the F-117A Stealth Fighter.

The F-117A, boasting an arrowhead-shaped design, is the world's first operational aircraft that uses low-observable stealth technology, setting the stage for future aircraft development. Its unique design, coupled with several other features, gives the Air Force another lethal punch in its worldwide commitment.

A single-seat fighter, the F-117A is about the same size as the F-15 Eagle although its profile appears much less bulky. It sports twin, General Electric F-404 turbofan engines and multiple backup systems for its

Continued on page 12



RADAR SHY — the F-117A, designed to be illusive to current radar, has already proven itself a valuable asset during Operation JUST CAUSE. (U.S. Air Force photo)

F-117A

Armed, dangerous and invisible — tomorrow's battles may be fought with weapons such as the F-117A Stealth Fighter.

SPECS

Function:

Attack fighter

Prime contractor:

Lockheed

Power plant:

Two General Electric F-404 engines

Dimensions:

Wingspan — 43 ft., 4 in.

Length — 65 ft., 11 in.

Height — 12 ft., 5 in.

Weight:

52,500 lbs.

Speed:

High subsonic

Range:

Unlimited with air refueling

Crew:

One

Armament:

Internal weapons carriage

Status:

Ready

AWS IMA Brig Gen. Lee retires after 35 years

The Individual Mobilization Augmentee to the commander of Air Weather Service, Brig. Gen. Clarence B.H. Lee retired April 1, 1990, after more than 35 years of faithful service to the Air Force and the Air Force Reserve.

General Lee served as the senior advisor to the AWS Commander, Brig. Gen. John J. Kelly Jr., for the training and application of AWS reserve forces to wartime requirements.

In a farewell letter, General Kelly said, "Your 35 years of devoted professional service contributed mightily to the defense of the nation, and certainly to the vitality and readiness of the Air Force Air Weather Service." He also passed on several certificates and mementoes from President Bush and the Commander of the Air Force Reserve, Maj. Gen. Roger P. Scheer.

General Lee was born Sept. 22, 1933, in Wahiawa, Hawaii. He received a bachelor of science degree in general engi-

neering in 1955, and a master of science degree in geophysics (meteorology) in 1968, both from the University of Hawaii at

"Your 35 years of devoted professional service contributed mightily to the defense of the nation, and certainly to the vitality and readiness of the Air Force Air Weather Service."

— Brig. Gen. John J. Kelly Jr.
Commander, Air Weather Service

Honolulu. He completed the National Security Seminar at Fort Lesley J. McNair, Washington D.C. in 1975, graduated from the Air Command and Staff College in 1977 and the Industrial College of the Armed Forces in 1977. He completed the Reserve Components National Security Seminar at Vandenberg Air Force Base, Calif.,

in 1978 and the Defense Strategy Seminar at Fort McNair in 1981.

He received his commission as a second lieutenant in June 1955 through the University of Hawaii's Air Force Reserve Officer's Training Corps. General Lee completed the Air Force Institute of Technology basic meteorology training program at the University of California at Los Angeles (UCLA) in June 1956 and was awarded a certificate of completion.

After UCLA, General Lee was assigned to Headquarters, 30th Weather Squadron, Osan Air Base, Korea. In August 1956, he was reassigned to Detachment 27, 30th Weather Squadron, Kunsan Air Base, Korea as a detachment weather officer. From February to May 1957, he was acting detachment commander for that unit.

General Lee returned to Hawaii in May 1957 and was assigned as a team chief in the newly-formed Kunia Forecast

Continued on page 12



Brig. Gen. Clarence B.H. Lee

Command Line



Brig. Gen. John J. Kelly Jr.
AWS Commander

Observing: A cornerstone of our support system

Previous AWS leaders have viewed observing as the service "we do best." That fact is still true today and in stating it, I don't believe we demean or lessen the importance of our forecasting mission. What does surprise me is the number and frequency of questions I receive about the importance of the observation, observer duties, and what the future holds.

Are we about to "automate" the observer out of a job? No way! That's a goal, and a step we have planned in our AWDS program, but I believe it will be years before we get fully automated weather observation that the DOD flying safety/certification people will put their trust in and say, "We'll be confident to land, take off, or fly, based on the quality of that automated observation." It's an admirable and appropriate goal for both the commercial sector and the military sector — but it's down the road.

In the interim, the weather observer (the observation and the duties) remain an essential part of the decisions made each day by the Air Force and Army to fly and to fight, if necessary, and to

do it as safely as possible.

I have had many examples to remind me of this importance in the last year. How about the PIREP that didn't make it out in long-line transmission. Would it have made a difference to the aircrew? Would they have flown the mission differently? Tough to judge now. How about the surface winds for that SAC ORI mission — it's absolutely critical to positioning the aircraft on the runway and their ability to quickly respond and get the aircraft airborne. That's not a trivial observation you are making, and we're never sure when it will count. The same can be said about the other factors in the observation — altimeter, clouds, visibility — unfortunately, too often we hear of it or learn of it when we've let something slip.

We often say in MAC... "We practice every day in peacetime what we will have to do in wartime." That fits well in AWS — and that quality observation is the first step in a critical process that allows decisions to be made.

Till next time.

From CINCMAC:

Communication vital to getting job done

By Gen. H.T. Johnson
CINCTRANS and CINCMAC

In the 1990s, we will continue to see major technological advancements in Military Airlift Command. The C-17 will represent a quantum leap forward in airlift technology, and our computer systems will continue to revolutionize the way we do business in medical centers, aerial ports, maintenance facilities, consolidated base personnel offices and administrative centers.

I am excited about the efficiencies we can obtain from these technological advances, but I am also concerned that our concentration on technology may foster an atmosphere where insufficient attention is paid to our most important resource — people. I am certainly not the first to discover that our advances in the social sciences do not always keep pace with our technological advances. But as the commander of 90,000 people in MAC, I want to ensure that we maintain a balanced focus on technology and people.

The single most important people program in any organization is communication. It is vitally important that communication is bi-directional. In other words, it must go from the commander down the chain of command, but it must also move up the chain of command back to the commander.

Unfortunately, this is not always the case. I know we are committed to the concept of preventive maintenance on our airplanes and support equipment, but in the field of interpersonal relations and organizational communications, we sometimes forget the idea of preven-

tive maintenance and pay little attention to the system until it breaks down.

The communications flow from commander, through middle managers, to the workers and back to the commander, is critical. If that free flow of communications breaks down, suspicion develops, rumors and misperceptions increase, trust begins to decrease, and gradually morale declines and the entire unit will suffer.

Our officers and noncommissioned officers need to be sensitive to what our people are feeling and thinking. Their feelings and ideas must move up the chain of command. They must move freely and without filters. If our commanders are not informed of problems, they will not be able to take corrective actions.

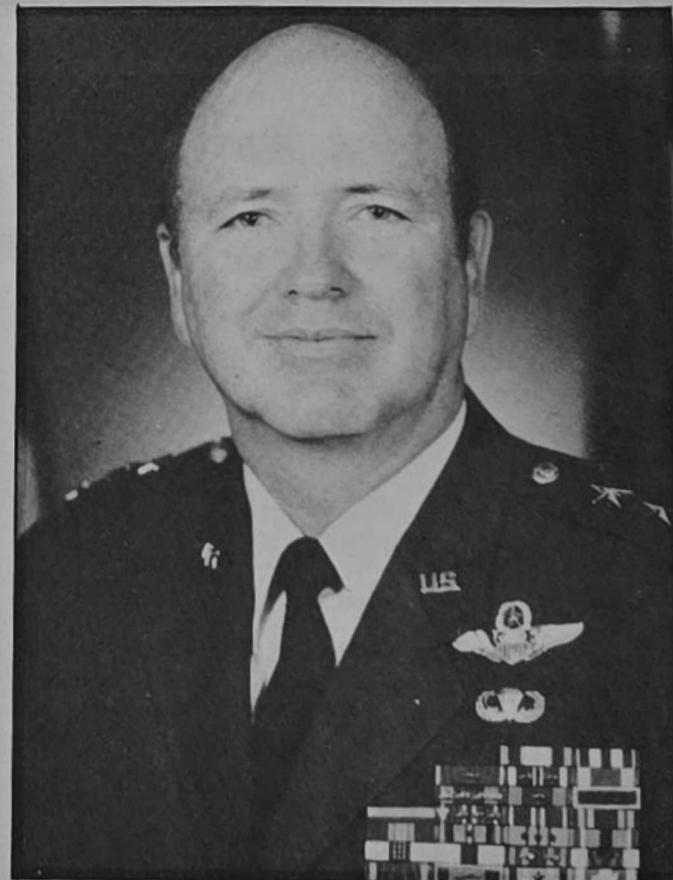
Much of the responsibility for proper communication within an organization is in the hands of the middle managers. Our officers and NCOs must ensure that the decisions and policies of our senior leadership are properly communicated to our people, but they are also responsible to ensure that they are receptive to feedback, and pass this feedback up the chain.

MAC's Action Eagle program is providing our commanders with increased authority. They will have significantly greater authority to correct problems at the local level, but first, the problems must be clearly identified. Without effective communications up and down the chain of command, we cannot correct the problems.

This command will have the equipment and technology to meet the challenges of the 90s.

Our senior leadership from Secretary of Defense Dick Cheney on down has made a

strong commitment to providing a quality environment for our people. The officers and NCOs of MAC must continue to meet the needs of the people. The success of this commitment will be dependent upon our ability to communicate.



Gen. H. T. Johnson

Brig. Gen. John J. Kelly Jr.
AWS Commander
AWS Editorial Staff
MSgt. David L. Black
Editor

The AWS Observer is published monthly for personnel of the world-wide Air Weather Service of the Military Airlift Command. This funded Air Force newspaper is an authorized publication for members of the U. S. military services, both CONUS and overseas. Contents of the AWS Observer are not necessarily the official views of, or endorsed by, the U. S.

Government, the Department of the Air Force. The editorial content is edited, prepared and provided by the Public Affairs Office of Air Weather Service. All photos are U. S. Air Force unless otherwise marked. Editorial phone numbers are: 618-256-2065 or Autovon 576 2065. The mailing address: HQ AWS/PA, Scott AFB, IL 62225-5008.

Chief's corner

Professional development

"The most successful man is the one who has the best information."

— Disraeli

Each time I thumb through my roster of Air Weather Service NCOs, I'm amazed at the number of people who haven't secured their associate degree from the Community College of the Air Force (CCAF).

A significant group of names stand out, as they are the ones who repeatedly tell me that no matter what they do, they can't seem to raise their promotion test scores. Participation in a planned program of continuing education is a proven way to improve your study habits and test-taking abilities.

The central purpose of the CCAF is to offer enlisted people educational opportunities which will provide for increased job performance, for personal recognition within the Air Force, as evidenced by promotions and increased responsibilities and for recognition from society appropriate to the educational accomplishments represented by the associate degree.

The goals of the college are:

- To contribute to the development of NCOs by better preparing them for leadership roles within the increasingly complex technological Air Force.
- To integrate military instruction and voluntary education of airmen into consistent, meaningful, career-relevant patterns of growth.
- To have Air Force instruction recognized for its full value by the organizations that set standards for individual qualifica-

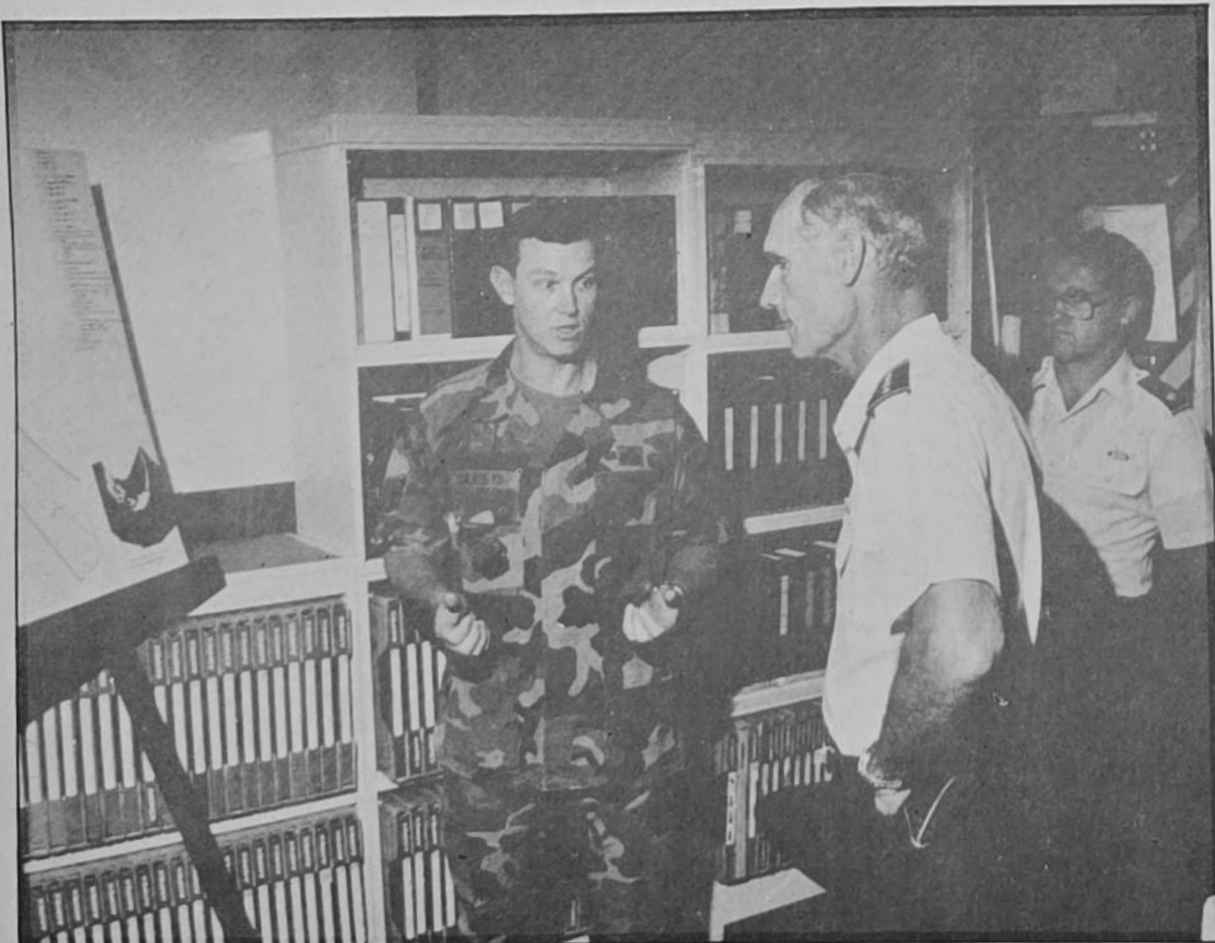


CMSgt. John L. Williams
Senior Enlisted Advisor

tions and institutional excellence.

- To improve the educational and career-related incentives for the retention of high-quality Air Force people.

The CCAF is now almost 20 years old and has been very successful in motivating its students toward the goal of realizing their maximum potential. Shouldn't you be one of those students? For more information, contact your local base education office.



Four star interest! — TSgt. John Culbreath, noncommissioned officer-in-charge at Air Weather Service's Defense Meteorological Satellite Program site at Hickam AFB, Hawaii, briefs the CINCPACAF, Gen. Merrill A. McPeak on the program's operation. The general stopped in during a recent visit to the area. (U.S. Air Force photo)

hot off the wire

Out-standing!

— Kathryn M. Elmore, secretary and information management specialist at Det. 3, Headquarters Air Weather Service, Onizuka AFB, Calif., won the



Kathryn M. Elmore

1989 Onizuka AFB Civilian of the Year Award. Mrs. Elmore was assigned to Det. 3 for only five months, but in that short time she greatly improved the administrative efficiency of the unit. She has taken much of the day-to-day paperwork burden off of the staff meteorologists allowing them to give more attention to their customers. Always active in base activities, she organized the 1989 Consolidated Space Test Center (CSTC) Christmas party, and the program for the first-ever CSTC Dining Out. Kathi, along with her husband Duane, are professional musicians and perform in many northern California supper clubs and restaurants. During her free time, she also gives private music lessons. Congratulations from HQ AWS!

EES videotape — A videotape version of the enlisted evaluation system Showcase II briefing is being produced for people who are unable to attend EES briefings. The tape mirrors the content of current briefings that inform people about the latest EES refinements. The tape will be available in three formats: 16mm film, 3/4-inch videotape and 1/2 inch Beta and VHS videotapes. The Aerospace Audiovisual Service at Norton AFB, Calif., will reproduce and distribute the tape. Bases will receive one 16mm film version and from one to three each of the 3/4-inch and 1/2-inch videotapes, depending on base populations.

Housing survey — The 1990 Variable Housing Allowance Survey is being mailed to all active-duty Air Force and National Guard members drawing basic allowance for quarters. People assigned in the United States, including Alaska and Hawaii, who live off base and receive BAQ will receive the survey. Those assigned overseas whose families live in the United States will also receive it. According to VHA survey officials, it is important to fill out the survey and return it as soon as possible. Results from the survey will be used to readjust VHA rates beginning in January 1991.

Medal for JUST CAUSE —

Chairman of the Joint Chiefs of Staff, Army Gen. Colin L. Powell has approved the Armed Forces Expeditionary Medal for military members who directly supported Operation JUST CAUSE. People who served in direct support of the U.S. military activity in the area of Panama, including internal waters, territorial seas and the airspace above and adjacent to Panama. For more information, contact your local Consolidated Base Personnel Office.

AWS update!

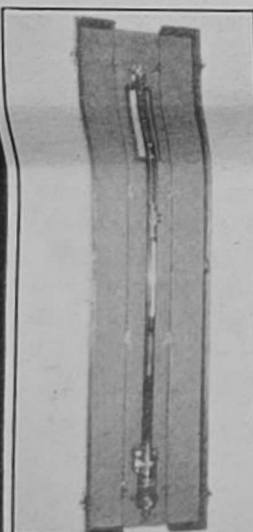
Four star recognition —

Former TSgt. Robert L. Hugg, an assistant station chief assigned to Det. 17, 26th Weather Squadron, Elsworth AFB, S.D., is now a master sergeant thanks to CINCMAC Gen. H. T. Johnson and the Air Force's Stripes for Exceptional Performers program. The NCO was notified March 23, 1990, at shift change via telephone call from the 3rd Weather Wing Commander, Col. George L. Frederick Jr.



MSgt. Robert L. Hugg

The CINCMAC STEP promotion was an addition to the AWS normal quota of four. Sergeant Hugg was noted as an exceptional performer during the MAC Unit Effectiveness Inspection. He was responsible for the renovation of the base weather station and former CINCMAC, Gen. Duane H. Cassidy, called it the best weather station he had ever seen. The noncommissioned officer developed a self-test program to help keep members of his unit proficient and the program was rated superb by the MAC Inspector General. He was also recognized by the SAC ORI team for his assumption alert briefing. Congratulations from HQ AWS!



No. 1's back! — The first mercurial barometer (Serial No. 1) is back on display in the lobby at Headquarters Air Weather Service, Scott AFB, Ill., thanks to the members of the 2046th Communications Group at Wright-Patterson AFB, Ohio. The barometer was recently restored and its natural brass given a high polish to enhance the display. The barometer, designated the ML-512GM, was first delivered to the Army Weather Service. It was easily recognizable in its normal military, oxidized finish by "old-timers" in weather maintenance and by weather observers. The barometer was the standard for giving altimeter

settings to aircraft pilots and barometric readings to weather observers for more than 50 years. The mercurial barometer has been replaced over the past few years by the Digital Barometer and Altimeter Setting Indicator.

Olympic Gold!! — Det. 4, 26th Weather Squadron, Loring AFB, Main, grabbed the gold recently during the base's annual snowfest carnival. Twenty-five members in the unit were the winners of the base trophy in the small organization category which was any unit with less than 150 people. Competition was fierce and spanned five days including such bizarre sports as human curling, which involved flinging one of your co-workers down a patch of ice, to more socially accepted sports like swimming relay races. Det. 4 placed first in the ice skating relay races, snow tubing, snow shoe racing and human curling. The det took second place awards in the tug-of-war, snowmobiling, and third in broomball. Points were picked up as well in the snowmobile poker run, talent competition, racquetball and log sawing.

Weather flight ready to forecast, fight

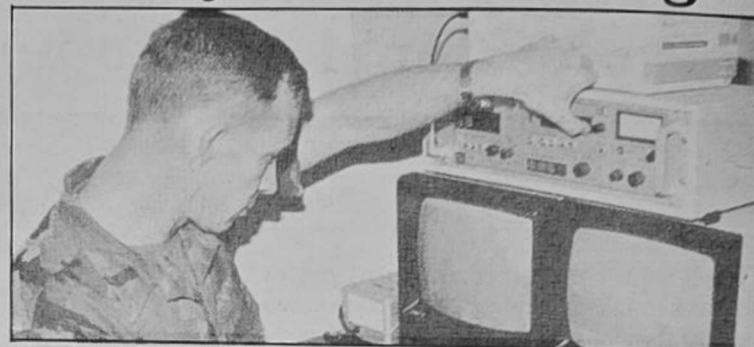
By TSgt. Chuck David
142 FIG Public Affairs
Portland IAP, Ore.

Some of the Army's best soldiers may wear Air Force uniforms, and they might be at Portland International Airport, Ore. They are the 123rd Weather Flight. Their expertise ranges from high-tech to hand-to-hand combat.

Under the command of Lt. Col. George Bluhm, the 13-member unit serves the 41st Infantry Brigade, headquartered in Tigard. As Capt. Wes Lashbrook explained, under longstanding agreements the Air Force supplies the Army with weather information. In return, the Army provides logistical and other support for attached Air Force weather units. "It's an interesting mission," Captain Lashbrook said. "We bring people into the Air Force but, for all practical purposes, we are in the Army."

As always, weather data is critical to the success of modern military operations. The Weather Flight's mission is to provide such data to the 41st Brigade's S-2, or intelligence officer, who in turn incorporates it into the "big picture" for the commanding general.

The unit's forecasters have state-of-the-art gear at their disposal. A 36-inch dish can bring in



Weather watcher, Sgt. Gary Chambers, 123rd Weather Flight, Portland IAP, Ore., monitors satellite transmission. (U.S. Air Force photo by MSgt. Linnay Lowery)

National Oceanographic and Atmospheric Administration photos from geostationary satellites 22,000 miles out in space. The satellites cover the globe and the Weather Flight can have pictures from anywhere on Earth, that are no more than six hours old, according to Sgt. Gary Chambers.

Sergeant Chambers said the unit has even tuned into Soviet and Japanese weather satellite transmissions. "The Russian transmissions are in 'real time,'" he explained, which means the photos lack computer enhancement and grid lines denoting longitude and latitude. "Still," he said, "we know they're right over us."

The satellite receiving equipment is incredibly compact and — most important — durable. Sergeant Chambers estimated that it can be set up in the field in 10

to 15 minutes. Other sophisticated but tough equipment includes a laser cloud height detector, which is accurate to more than 3,000 feet.

The flight has only one full-time member, TSgt. Dan Johnson, and only one civilian forecaster, Capt. Nick Yonker. He is employed with the State Forestry Meteorology Group in Salem. Most members have other non-weather related jobs, so weather forecasting is a real change of pace.

Whenever possible, the Weather Flight trains with their Army colleagues. The Army supplies vehicles and most non-technical equipment, and all-important training in combat skills, because the flight must be prepared to defend itself. "In wartime, we're at the front," said Captain Lashbrook.

Seatbelt gives observers new lease on life

Editor's note: The attached seatbelt article is a true life experience written by A1C Steven Moffit of Det. 21, 2nd Weather Squadron, Edwards AFB, Calif.

On a recent weekend outing, Amn. Trevor Crane and I, A1C Steven Moffit, set out to visit friends in Thousand Oaks, Calif. We had no idea what was in store for us that day, but I know I speak for both of us when I say it changed our lives forever.

Let me start off by describing the events that led up to our life-altering experience. We were at the home of our friends in Thousand Oaks trying to decide what to do that day. After throwing around some ideas, we finally decided on a trip to the beach which was only 15 minutes away. So we piled into the car and headed out.

After picking up some food for the trip, we headed west on Decker Canyon Road. Now, if you have never been on this road, you really can't appreciate how dangerous it is. The road is only about one and a half lanes wide, two-way of course, and it has so many sharp curves and blind corners that you would think you were on a ride at an amusement park rather than on a public road.

Well, while starting up the side of this mountain, we were all laughing and having a good time, but the driver momentarily took her eyes from the road to look at a bag she was trying to move. This was just enough time to allow the car to leave the road, and while off the pavement, the right front tire plummeting into a 4-foot deep concrete ditch. All this was happening while the car was still moving.

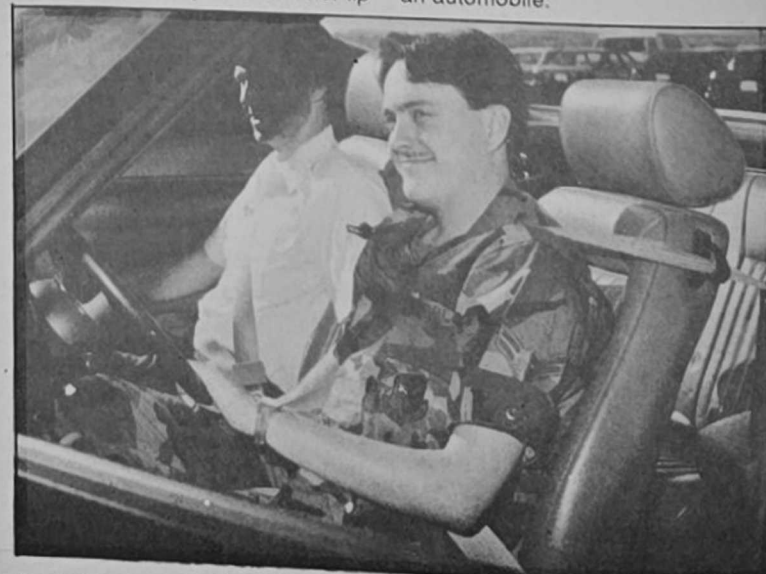
Now, imagine that you are sitting in front of your TV at home. Remember that show with Bo, Luke, and Daisy? Yea, you remember, "The Dukes of Hazard". Well, that's how we felt. The car left the ditch and sailed into the air. We didn't get as lucky as those Duke boys, though. We landed nose first.

The only thing that kept us off that windshield was the seatbelts we were all wearing. Even those of us in the back seat were wearing the lap belts, which kept us semi-safe. The more severe injuries received were to those in the back seat, due to the fact we were only wearing lap belts and no shoulder restraints. Katrina, sitting beside me in the back seat, had the most severe injury, which required six stitches to patch up a hole in her lip

from where her head hit the head rest on the front seat. I hit my head also and, besides some sore muscles, I was otherwise unharmed.

Airman Crane and Robbie sustained both a sore neck and back from the accident, but considering the possibilities, I am sure we would all agree that our injuries are acceptable compared to what they could have been. I mean, if we were not wearing the seatbelts, we could have ended up going through the windshield or worse.

I know I speak for both Airman Crane and myself when I say that from now on, the seatbelt won't just be a necessary evil to keep my superiors happy, but it's a lifesaver, and one I plan to use whenever I get into an automobile.



Amn. Trevor Crane and A1C Steven Moffit, Det. 21, 2nd Weather Squadron. (U.S. Air Force photo)

Scientists, meteorologists gather for 1990 Tropical Cyclone Conference

By Capt. Bruce Thompson, USAF
and
Ensign Richard Jeffries, USNR

The Naval Oceanography Command Center/Joint Typhoon Warning Center (NAVOCEANCOMCEN/JTWC), Guam, was host for the 31st annual USCINCPAC Tropical Cyclone Conference held Feb. 14-16, 1990.

This year's conference brought 60 military and civilian meteorologists, as well as research scientists from around the Pacific basin and the United States together at the Navy's Top of the Mar Officers Club on Nimitz Hill, Guam.

Participants included representatives from Australia, Japan, Korea, the Philippines, Hawaii, and CONUS who are users or supporters of the United States Pacific Command tropical cyclone warning system.

The Joint Typhoon Warning Center couples the experience of U.S. Air Force and Navy meteorologists with modern technology to do its unique warning job, constantly striving to improve the efficiency and accuracy of tropical cyclone forecasting. JTWC's area of responsibility covers 53 million square miles, and extends from the east coast of Africa to the international dateline, in both hemispheres. Seventy percent of the world's tropical cyclones occur within this area.

The theme of this year's conference was "educating the users." During the conference, attendees critically evaluated the current tropical cyclone warning system in order to make the system more responsive to the user's needs and requirements. To help define these needs and requirements, representatives from all the military services, including the Coast Guard, and several U.S. government agencies spent many long hours addressing agenda items. The representatives from

the National Weather Service and the Office of the Federal Coordinator for Meteorological Services and Supporting Research, which coordinates inter-agency meteorological plans and programs as an advisory body to Congress, were instrumental in the discussions.

Admiral T.J. Johnson, commander of the U.S. Naval forces Mariana, in his opening remarks spent considerable time praising the recently instituted Rapid Response Team (RRT).

During the conference, attendees critically evaluated the current tropical cyclone warning system in order to make the system more responsive to the user's needs and requirements.

The RRT was developed to ensure that warnings on tropical cyclones which affect Guam or the Northern Mariana Islands are released to the military, local news media, and civil defense in an expeditious and consistent manner, and in a format readily understood by the general public. The team uses modern computer and telecommunications technology to provide hourly updates on a storm's progress when condition No. 2 or higher is set for the local area.

The conference began with a review of the year presentations which described the forecasting performance and operational support of the NAVOCEANCOMCEN/JTWC, Guam for the 1989 season. Both the NAVOCEANCOMCEN Commanding Officer, Capt. Robert Plante, and the JTWC Director, Lt. Col. Chip Guard summarized 1989 as an extremely busy season. In 1989 JTWC issued a total of 1,066 warnings on 65 tropical cyclones compared to 773 warnings

on 52 tropical cyclones in 1988. It was noteworthy that JTWC outperformed all the objective forecast aids (numerical models which forecast tropical cyclone motion) and did this with a 70 percent turnover in forecasters. Colonel Guard attributed the success to the exceptional quality of the people at JTWC. Captain Plante expanded the praise stating that he would match his typhoon forecasters against those on duty anywhere in the world.

Numerous informational briefings were presented by the attendees. In the area of JTWC satellite support, presentations included the development of new satellite enhancements, the development of an operational intensity forecast technique using satellite climatology, new wind distribution analysis and forecast techniques, and the future direction of the Defense Meteorological Satellite Program (DMSP) and development of the Mark IVB tactical satellite terminal.

Attendees from the Fleet Numerical Oceanography Center, the Naval Oceanographic Atmospheric Laboratory West, and the Naval Postgraduate School discussed their

support over the year to JTWC. Collectively referred to as the Monterey connection, they outlined ongoing and future tropical cyclone forecast improvement programs.

Scientists from the Air Force Global Weather Central and the Air Force's Geophysics Laboratory discussed advances in Special Sensor Microwave Imagery (SSM/I) technique development and operational applications.

The 1990 USCINCPAC Tropical Cyclone Conference was heralded as one of the most informative and successful ever held.

SSM/I was used extensively at JTWC in 1989 to help determine the radius of gale force winds associated with tropical cyclones and to a lesser degree to help locate the center of poorly defined tropical cyclones.

Scientists from the research community presented the status of research currently being pursued at the Naval Oceanographic and Atmospheric Research Laboratory West (formerly

NEPRF), the Office of Naval Research and the Naval Postgraduate School. These presentations were followed by a status report on the 1990 Tropical Cyclone Motion experiment which will be run out of JTWC during August and September.

Finally and most importantly, representatives from the operational forces discussed the impact of the tropical cyclone season and the performance of the tropical cyclone warning system on their Army, Navy, Air Force, Marine Corps and Coast Guard units — both fixed and afloat — around the western Pacific and Indian Oceans.

Attendees spent the final one-and-a-half days of the conference in committees determining how JTWC could best support its customers and how to maximize the use of its resources. The 1990 USCINCPAC Tropical Cyclone Conference was heralded as one of the most informative and successful ever held. All who attended left the conference feeling a great deal had been accomplished.

The social highlight of the conference was a moonlight, prime rib dinner cruise on the catamaran Stars and Stripes.



Members attending the 1990 Tropical Cyclone Conference in the photo above are: Capt. A. Ostle, ENS R. Jeffries, Capt. D. Shoemaker, LT D. Crittenden, Capt. B. Thompson, 1st Lt. R. Falvey, LT R. Bouchard, LT S. Stewart, Capt. W. Olsen, Capt. R. Glaes, CDR R. Pentimonti, Mr. R. Hagemeyer, Capt. J. Bross, Col. K. Klein, Lt. Col. S. Carroll, Capt. J. Tupaz, LCDR N. Gural, AG2 B. Brockman, Mr. E. Fukada, CDR G. Handlers, Lt. Col. S. Pryor, Lt. Col. C. Holliday, Lt. Col. A. Adams, Col. Y. Randmaa, SMS R. Young, Mr. D. Boucher, Col. F. Hauth, CDR D. Roman, Mr. R. Partridge, Lt. Col. C. Guard, Capt. D. Rudolph, Maj. J. Martin, Dr. R. Elsberry, CDR C. Johnson, LCDR J. Mundy, Dr. M. Lander, CDR T. Cummings, CDR Liechty, SSgt. W. Gentry, LCDR R. Robison, Dr. G. Holland, Mr. J. Meeks, Mr. T. Yoshida, Capt. J. Jensen, Mr. R. Miller, Mr. D. Carver, Mr. M. Glass, Dr. D. Jensen, Capt. Wealon, Mr. F. Wells, AGCS C. Kaempfer, CDR D. Whitford, Lt. Col. R. Kandler, Col. M. Turner, Lt. Col. K. Nash, Capt. R. Plante, Mr. R. Kozak, Dr. M. Florino, Lt. Col. J. Woessner, CMS Hahn, LCDR L. Carr III, Mr. C. Mauck, MSgt. C. Bonini, Lt. Col. J. Dushan, Mr. B. Sampson, Maj. Key, MSgt. J. Scheldegger, Capt. Umberger, Capt. R. Lefebvre, and LCDR Lundberg.

Air Weather Service 1989 technical award winners

Unit Awards



GRIMES AWARD: Det. 7, 20th Weather Squadron, Schofield Barracks, Hawaii, has been named as the 1989 AWS Grimes Award Winner. This award honors Col. Keith R. Grimes, former commander of 10th Weather Squadron. It is presented to the outstanding AWS weather unit exhibiting the highest state of readiness to support the wartime tactical Air Force or tactical Army mission. From left, beginning with the front row, are: Sgt. David A. Hammond, Sgt. Michael D. Compton, SrA. Gary R. Silvia, TSgt. Donald E. Allen Jr., SrA. Gregory S. Deutschlander. Second row: TSgt. Gerald C. Claycomb Jr., Sgt. Darin M. Hurst, TSgt. Benito R. Chavarria, Maj. Lawrence E. Key (commander), SSgt. Richard A. Herbert, 1st Lt. William L. Willis, Sgt. Glen P. Bordelon, Sgt. Joseph L. Nicos Jr., SSgt. Brian A. Ramsey, SSgt. Glenn A. Davis, SMSgt. Mariano De La Ossa Jr. (Unavailable for photo were: TSgt. James S. Ellis and SSgt. James J. Barber).



COLLENS AWARD: The 110th Weather Flight, Missouri Air National Guard has been named as the 1989 AWS Collens Award winner. This award honors Maj. Gen. John W. Collens, former commander of AWS (1974-1975). It is presented to the most outstanding Air National Guard weather flight. Nominees for the Collens Award are judged on the unit's mission, readiness training, technical training, participation in host/supported unit activities and voluntary support (in addition to annual training and training activities). From left to right, from the first row are: Sgt. James W. Gelger, SSgt. Donald D. Tompkins, MSgt. Robert S. Rowling, SSgt. James B. Robinson, Sgt. Audry L. Williams, TSgt. Michael A. Skipper. Back row: 2nd Lt. Perry L. Dunlap, 1st Lt. Thomas W. Keel, MSgt. Larry K. Williams, Lt. Col. John W. Louer III, Sgt. George L. Dovgin and SSgt. David L. Whanger.



WILLIAMS AWARD: Det. 25, 5th Weather Wing, Howard AFB, Panama, has won the 1989 Williams Award. This award honors Col. Randolph P. Williams, who organized the Army Air Corps Weather Service in 1937. The award is presented to the most outstanding AWS unit serving as a weather station with a weather observing and forecasting or briefing function. Members of Det. 25, front row, left to right, are: TSgt. Larry D. Jackson, SSgt. Milinka B. Watson, SrA. Ana P. Guzman Evans, Amn. Lois E. Peck, SSgt. Allura P. Welmer, Sgt. Randolph R. Houle, A1C Julie C. Tallon, A1C Devon Verdecuzo, A1C Tina M. Fink, 2nd Lt. Carl A. Battis. Second row: TSgt. Dennis W. Snyder, Capt. Donald C. Cole, SSgt. Howard A. Westbrook, MSgt. Currey R. Buchanan, A1C Matthew L. Mansfield, 1st Lt. Phillip J. Reding, TSgt. Larry D. Dyer, TSgt. Newton A. Reid, 1st Lt. Benny D. Holbrook, Maj. Alfonse Mazurowski. Third row: Capt. Kurt A. Nelson, A1C Michael D. Engen, MSgt. Leonard W. Gibson, MSgt. Charles H. Morrison, MSgt. Peter M. Copeskey, SSgt. Vincent C. Hereford, A1C James D. McCluskey, and SSgt. Lewis H. Williamson.



MOORMAN AWARD: 21st Air Force Weather Support Unit, 15th Weather Squadron, McGuire AFB, N.J., has been selected to receive the 1989 AWS Moorman Award. This award honors Lt. Gen. Thomas S. Moorman, former commander of AWS (1954-1958). It is presented for the most outstanding support by an AWS unit other than a weather station. This includes weather support units, branches of AFGWC, and USAFETAC, and elements of the Automated Weather Network. Units eligible for the Williams Award are not eligible for this award. Members of the 21st Air Force Weather Support Unit are (front row, left to right): Capt. Linda McMillan, Sgt. Laura DeBaker, Sgt. Roger Elismore, Sgt. Deborah Bunce, Sgt. Gregory Spurck, A1C Brian Argutto. Back row: TSgt. Darryl Roth, 1st Lt. Kevin Crupi, Sgt. Eric Ashman, 1st Lt. Harold Vanasse, 1st Lt. Patrick Ludford. Unavailable for photo were: 1st Lt. William Callahan and MSgt. Dennis Francis.

Individual awards

Dodson Award

A1C Rhoda Y. Carr, Det. 17, 28th Weather Squadron, RAF Upper Heyford, England, has been selected to receive the 1989 AWS Dodson Award. This award recognizes individual excellence by an AWS noncommissioned officer (NCO) or airmen (excluding supervisors) performing weather observer duties at a base weather station or operating location dedicated to airfield, range or tactical weather support.



A1C Rhoda Y. Carr



Lt. Col. Charles R. Holliday



Capt. Kenneth Waters

Merewether Award

Lt. Col. Charles R. Holliday and Capt. Kenneth R. Waters, Data Base Management Branch, Forecasting Services Division, Air Force Global Weather Central, Offutt AFB, Neb., have been selected for the 1989 Merewether Award.

This award honors Col. Arthur P. Merewether, former chief of the Weather Section, Army Air Forces (1940-1942). It recognizes the AWS individual or individuals making the most significant technical contribution to the aerospace environmental support mission of AWS.

Specialized Support Award

SrA. John P. Baker, Det. 3, 5th Weather Squadron, Fort Bragg, N.C., has been selected to receive the 1989 AWS Specialized Support Award. This award recognizes individual excellence by an AWS NCO or airman in AFSC 25XXX providing specialized support.



SrA. John P. Baker

Best Award

Maj. Norman E. Buss, Det. 11, 2nd Weather Squadron, Patrick AFB, Fla., has been selected to receive the 1989 Best Award. This award honors Brig. Gen. William H. Best Jr., former commander of AWS (1970-1973). It recognizes individual excellence in performing environmental services support of a staff nature.



Maj. Norman Buss

Pierce Award

TSgt. Jeffrey P. Cunningham, Det. 18, 30th Weather Squadron, Yongsan Army Installation, Korea, has been selected to receive the 1989 Pierce Award. This award honors Maj. Gen. Russell K. Pierce Jr., former commander of AWS (1965-1970). It recognizes individual excellence in meteorology or astrophysics by an AWS forecaster assigned to a non-centralized support facility.



TSgt. Jeffrey Cunningham

Zimmerman Award

Capt. Mark J. Andrews has been selected to receive the 1989 Zimmerman Award. This award is presented in honor of Brig. Gen. Don Z. Zimmerman, former director of Weather, Army Air Forces (1942). It recognizes the AWS individuals demonstrating the best application of climatology during the year, or developing a device or technique which proves of greatest value in furthering the use of climatology in AWS.



Capt. Mark Andrews

Technical Supervisor Award

MSgt. Richard A. Fiske, Det. 13, 7th Weather Squadron, Illenheim, West Germany, has been named to receive the 1989 AWS Technical Supervisor Award. This award recognizes individual excellence by an AWS NCO or airman in technical supervision of a weather function. Eligible persons are AWS noncommissioned officers (excluding NCO detachment chiefs) or airmen in AFSC 25XXX who supervise an AWS observing, forecasting or specialized function.



MSgt. Richard Fiske

Forecaster Award

SSgt. James J. Rouiller, CONUS Severe Forecast Unit, Production Branch, Forecasting Services Division, AFGWC, has won the 1989 AWS Forecaster Award. This award is presented for individual excellence in meteorology or astrophysics by an AWS forecaster assigned to a centralized facility. These facilities are Air Force Global Weather Central, Joint Typhoon Warning Center, weather support units and tactical forecast units.



SSgt. James Rouiller

AWS family receives Great American Family Award



TSgt. Dale S. Roth, forecaster at Det. 1, 15WS, with his wife, Melinda and sons Jason and Joel. (U.S. Air Force photo)

TSgt. Dale S. Roth, a forecaster at Det. 1, 15WS, his wife, Melinda, and sons Jason and Joel were recently honored by receiving "The Great American Family Award" for Andrews AFB, Md.

The "Great American Family Award" is sponsored by the American Family Society, whose honorary chairman is the First Lady, Barbara Bush.

The American Family Society seeks to recognize those families whose lives not only exemplify the best values of American society, but also families whose lives inspire others to follow their example. By recognizing the "Great American Families", the American Family Society hopes to build-up all American families.

The panel which selected the Roths was a cross section of base personnel and included representatives from the First Sergeant's Council, the Officer and Enlisted

community service.

The award was presented to the Roths by the base commander, Col. Richard R. Heinzman, during the 12th Annual Andrews AFB Awards Banquet honoring Andrews AFB outstanding personnel.

The Roths were cited for their volunteer work in the scouts, PTA, youth sports programs, and a childhood cancer support group. The Roths will now represent Andrews for consideration as MAC's Great American Family.

This award capped off an exemplary year for the Roths as Sergeant Roth was also a distinguished graduate at the MAC East NCO Academy and selected 1989 Forecaster of the Year for both 15WS and 7WW.

The American Family Society seeks to recognize those families whose lives not only exemplify the best values of American society, but also families whose lives inspire others to follow their example.

Wife's Clubs and the Chaplain's Office. The basic criteria for selection consists of individual growth, love, teamwork, friendship, and

Detachment members support REFORGER 1990

By SrA. Randolph Rodriguez
Det. 5, 5WS
Ft. Knox, Ky.

Members of Det. 5, 5th Weather Squadron deployed for Germany in support of the Return of Forces to Germany (REFORGER) 1990 exercise.

REFORGER is an annual exercise designed to prepare stateside troops for the rapid deployment of equipment and personnel that would be necessary should conflict arise in the European theater.

Four members from Det. 5 deployed with the 194th Separate

Armored Brigade from Fort Knox, Ky. in January. Capt. Michael G. Josias, SSgt. James A. Sullivan, SrA. Randolph Rodriguez, and A1C Shannon Wolf quickly became involved in the tactical operations of the brigade.

Forecasters and observers kept their customers aware of the current and forthcoming weather and its potential impact on ongoing military operations by utilizing tactical meteorological equipment. The 9315TRT minifax enabled reception of

weather charts over the FM frequencies, while the WRAASE portable satellite imagery set provided pictures from both polar orbiting and geostationary satellites. Using the WRASSE generated images, which are no larger than an instant photograph, proved challenging for forecasters used to much larger pictures. Observers also operated in tactical mode. The new TMQ-34 meteorological set provided continuous wind, temperature, dewpoint, and pressure data. These observations were sent out to customers using the Goldwing tactical communications system.

Another challenge Det. 5 members had to meet was the varied and unique operating locations. Equipment had to be set up as quickly as possible in various strategic locations depending on the needs of the customer.

At one location, the antennas were erected



SrA. Randolph Rodriguez adjusts the WRAASE satellite dish on top of the roof of an empty German warehouse.

on the roof of an empty warehouse. At another, members provided constant metwatch from the back of a two-and-a-half ton truck. These challenges gave the weather team a sense of pride in doing a job well done.

Although they were in Germany for three weeks, it wasn't all work and no play. During off-duty hours, members were able to do a little sight-seeing. They visited the walled city of Dinkelsbühl which is over 1,000 years old.

While in the city, Det. 5 members got a first-

hand look at German culture. They listened to German music, tasted German food, and enjoyed the hospitality of the local German people. This in itself made the deployment a rewarding experience. But more importantly, each member agrees that all of the experience gained during the exercise will make them more efficient in the operation of a tactical weather station should the need ever arise in a real world situation. Besides, it makes for great war stories.



A1C Shannon Wolf and Capt. Michael Josias stop for a quick pose as they travel through the pastoral landscapes of Germany.

Det. 11, 2WS members support Naval sea launch

By SSgt. Salinda Larabee
Det. 11, 2nd Weather Squadron

An observer assigned to Patrick AFB, Fla., these days may not always be on firm ground — that's because volunteer observers at the detachment are trading their land legs for sea legs in support of the U.S. Navy.

Observers at Det. 11 take turns supporting U.S. Navy submarine missile launch tests at the Eastern Space and Missile Center's Eastern Test Range. The detachment's observers have been called upon at least nine times recently.

All Air Weather Service observers are prepared to take observations in high winds and driving rain. But add 15- to 25-foot seas, blinding sea spray driven by 55 knot winds, slippery decks, the chance for a sudden cold swim, and the disorienting effects of 16 hours on a rolling ship and it's easy to see why this is a challenging new procedure for typical land-loving

observers.

Volunteer observers travel out on Navy surface vessels to provide information on lightning activity and other critical weather data which could be detrimental to a submarine missile launch.

The information is relayed back to Det. 11's Cape Canaveral Forecast Facility where forecasters and Launch Weather Officers use it to decide if off-shore weather conditions are safe to launch.

"At least in one instance, the Range potentially saved thousands of dollars when a weather scrub was prevented because a shipboard weather observer's report verified safe launch conditions."

"We must have clear convincing evidence conditions are safe. Unfortunately, at sea we don't

have the extensive data network of lightning detectors, field mills, towers, etc., available at Cape Canaveral and Kennedy Space Center for land-based launches," said Col. John T. Madura, the detachment's commander.

According to Capt. Tom Schiano, the launch weather officer in charge of Navy launches, having an observer on board is extremely beneficial. "At least in one instance, the Range potentially saved thousands of dollars when a weather scrub was prevented because a shipboard weather observer's report verified safe launch conditions."

A typical support day starts before dawn when the observer links up with Navy personnel to be escorted aboard the ship. The day doesn't end until approximately 10 p.m. when the ship usually returns to port.

The weather observations taken consist of estimated sky conditions, visibility, winds, and weather conditions with a special eye toward thunderstorm activity. Aboard ship, wind instruments are used but corrections must be computed and applied for the ship's direction and speed.

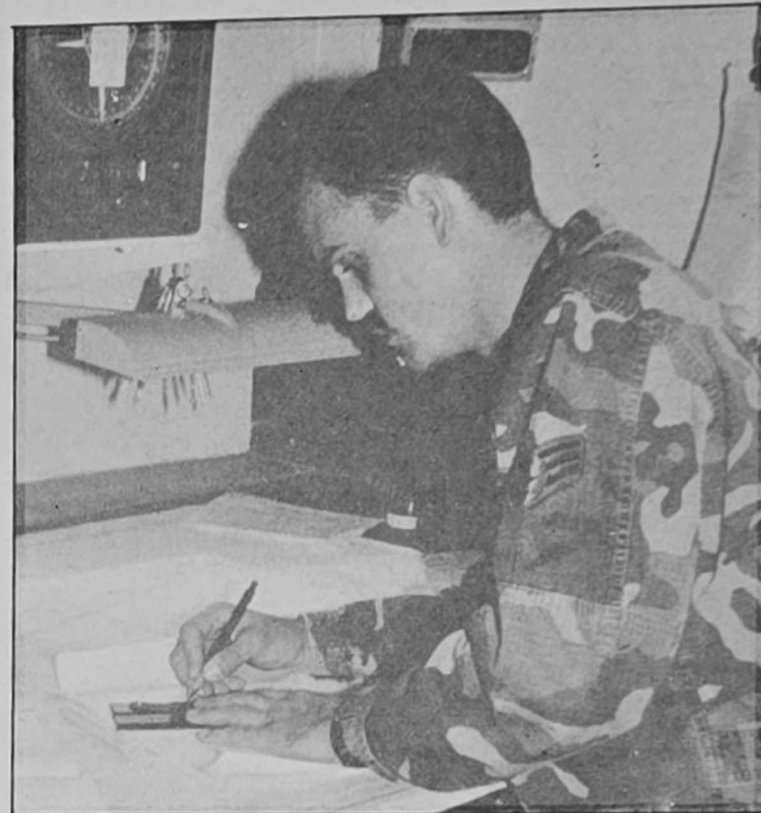
Perspective from the ship is totally different

from observing on land. There are no reference points for visibility and no cloud height measuring equipment. To make matters more difficult, in rough seas, the inner ear can become disturbed and cause difficulty in clear, logical thinking. SMSgt. Daniel O'Connell, the detachment's operations superintendent, went out to take observations for the Trident launch in May 1989.

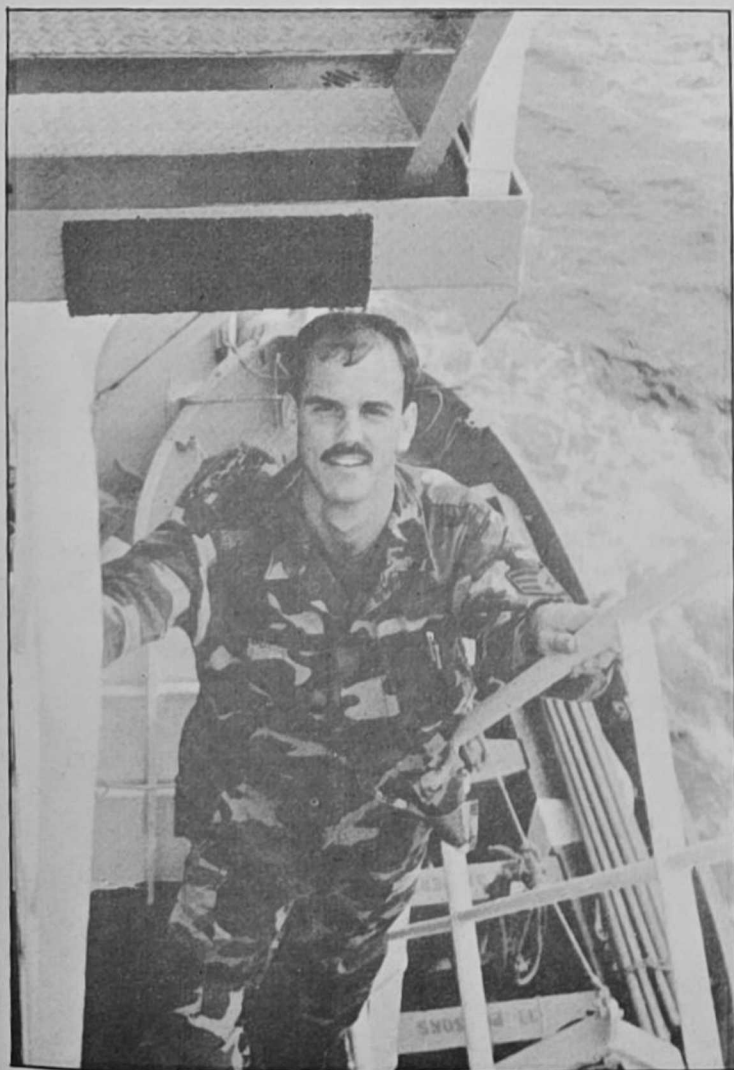
"There was extremely low visibility and ceilings, high winds howling and

driving rain and spray," Sergeant O'Connell said. "I had occasional difficulty computing simple math problems. I triple checked all my work because of my lack of equilibrium in the 20-foot seas."

Of the more than 4,000 members of Air Weather Service, not many can say they've supported Naval sea launches. But there's four observers at Det. 11 who have shared the thrill of this adventure — and they say it's an experience they'll never forget.



Sgt. Rod Swick manually computes the winds.



Sergeant Swick goes out on deck to make an observation.



Sergeant Swick takes advantage of the ship's radar. (U.S. Air Force photos)

Medals

Meritorious Service Medal:

BELLUE, Lt. Col. Dan B., 209WF, TXANG
CLARK, Maj. Terrance, Det. 14, 31WS
ELLIOTT, MSgt. John, Det. 19, 31WS
FORISTER, MSgt. John D., USAFETAC
GAMASH, TSgt. John, Det. 7, 31WS
GOLDING, Lt. Col. Wayne L., 6WS (SOLC)
NAPPIER, TSgt. Dennis E., 1WS

Air Force Commendation Medal:

ALEXANDER, TSgt. Lawrence J., Det. 1, 17WS
BERGMANN, SSgt. Joan K., Det. 19, 15WS
BUNCH, SSgt. Lucy D., Det. 17, 28WS
CARPENTER, Sgt. Tami S., Det. 13, 2WW
COBLENTZ, Sgt. Robert C., Det. 1, 17WS
FJELLIN, SSgt. Kim T., Det. 1, 5WS
GOETZ, Capt. Paul, Det. 2, 31WS
LEE, TSgt. Charles J., Det. 11, 25WS
MICHALCO, SrA. Robert, AFGWC
ROBINSON, Sgt. Laurie L., Det. 7, 7WS
PURVIS, TSgt. David E., AFGWC
VAN WART, SSgt. William C., Det. 29, 17WS

Army Commendation Medal:

BRENNER, SSgt. Valerie A., 209WF, TXANG
CARRILLO, SSgt. Victor G., Det. 7, AFGWC
CORNELIUS, TSgt. David A., 209WF, TXANG
HAMILTON, TSgt. Paul, 209WF, TXANG
PHILLIPS, TSgt. Daniel E., AFGWC
REID, SSgt. John H. II, Det. 3, 5WS

Air Force Achievement Medal:

ALEXANDER, TSgt. Lawrence J., Det. 1, 17WS
ASHFORD, TSgt. Carl A., AFGWC
BARROS, SSgt. Michael, Det. 5, 3WS
CONDRA, Sgt. Majory F., USAFETAC
COWLEY, SSgt. Mark, Det. 32, 3WS
CRUISE, 1st Lt. Lester, Det. 13, 7WS
DES JARDIN, SMSgt. Richard R., Det. 1, 17WS
HAUGE, A1C Timothy, Det. 13, 2WW
MADDOX, Sgt. James D., AFGWC
MARCI, TSgt. Anthony C., Det. 1, 17WS
MCELHANEY, 1st Lt. Larry D., AFGWC
MYRICK, Sgt. Robert, Det. 11, 17WS
PETRESCU, SrA. Eugene M., Det. 13, 25WS
PITRE, A1C Jerry G., Det. 1, 17WS
RASMUSSEN, Lt. Col. Richard A., Det. 1, 17WS
ROOF, A1C Ronald J. Jr., Det. 36, 28WS
SANDERS, A1C Barry L., Det. 1, 17WS
SIMON, TSgt. Thomas M., Det. 1, 17WS
SHARKEY, Capt. Michael J., 6WS
WARANAUSSKAS, 1st Lt. Brian R., HQ 2WW
WEBB, SSgt. Monty D., Det. 1, 17WS
YORK, SSgt. John M., AFGWC
ZENNER, SSgt. Michael A., Det. 1, 17WS

Army Achievement Medal:

ANGEL, TSgt. Laura S., Det. 2, 5WS
PLUMMER, Sgt. Kenneth J., Det. 2, 5WS

Air Force Good Conduct Medal:

BONDI, SrA. John, Det. 19, 31WS
BOWMAN, SrA. Terry, Det. 2, 31WS
BROUSSARD, SrA. Victoria, Det. 2, 31WS
BUNCH, SSgt. Lucy D., Det. 17, 28WS
GARDNER, TSgt. Samuel, Det. 14, 31WS
HENDERSON, Sgt. Andrew C., Det. 26, 7WS
JENNINGS, Sgt. Michael L., Det. 36, 28WS
KLEMPIN, SrA. Michael B., Det. 11, 7WS
LEE, Sgt. Brian, Det. 19, 31WS
PIERRE, Sgt. Rollin D. II, Det. 31, 5WS
SCHIERHOFF, Sgt. Raymond, Det. 6, 5WS

Promotions

To Lieutenant Colonel:

HOUSE, Tamzy J., HQ AWS
LADWIG, David S., HQ AWS

To Captain:

FORTSON, Christopher, 131WF, MAANG
KROGH, David, OL-A, 31WS

To Senior Master Sergeant:

ANDERSON, William Jr., AFU, 11WS
JOHNSON, Richard M., Det. 11, 17WS (IMA)
LARSEN, Richard A., 30WS

To Master Sergeant:

CARTER, Phil R., Det. 4, 11WS
FRAZIER, Brenda J., AFGWC
JOHNSON, Kevin E., OL-F, 7WS
KIRBY, Stephen C., AFU
SCHWABER, Robert W., 131WF, MAANG

To Technical Sergeant:

CHAMBERS, Curtis, Det. 6, 5WS
DEMPSEY, Robert L., Det. 1, 3WS
ELLIS, Derrick T., Det. 36, 28WS
JONES, Melvyn J., Det. 19, 30WS
JONES, William A., Det. 6, 2WW
MILLER, Louis, Det. 1, 11WS
MIRELES, Mark R., AFGWC
RAHE, Peter J., Det. 9, 3WS
ROUILLER, James J., AFGWC (STEP)
RUNGE, David C., AFGWC

To Staff Sergeant:

GWINDAIL, Rice, 7WW
HOLLEY, Janet, Det. 14, 31WS
KAMM, Douglas R., Det. 8, 5WS
LUOMA, Ernest J., Det. 4, 11WS
WAYTE, Kevin E., Det. 11, 25WS

Appointed to Sergeant:

BUSTANY, Brady M., Det. 12, 7WS
HUDSON, Mark, Det. 7, 31WS
JILLSON, Ernest T. Jr., Det. 6, 3WS
JONES, Scott A., Det. 6, 5WS
MILLER, Michael J., Det. 6, 5WS
MYERS, Det. 40, 2WW
PELLETIER, Raymond L., Det. 8, 7WS
PRINCE, Donald R., 209WF, TXANG

ROBERTSON, Melinda, Det. 20, 31WS
RYMERSON, Dawn D., Det. 15, 28WS
SOJA, Jeff A., 131WF, MAANG

To Senior Airman:

BARBER, Karen L., Det. 13, 2WW
BARBER, Rhonda, Det. 7, 31WS
BLANCHARD, Daniel, Det. 32, 3WS (BTZ)
BOWMAN, Vince B., Det. 3, 5WS (BTZ)
BOYNTON, Kevin M., Det. 11, 25WS
BUXTON, Patricia G., Det. 4, 28WS
CLARKE, Robert D., 6WS
CLAY, Alicia K., 131WF, MAANG
CURTIS, Christine A., Det. 14, 5WS
HILL, Dale L., Det. 1, 3WS
HUDSON, Tom, Det. 2, 31WS
KOFRON, Paul J., Det. 3, 28WS
LAMBERT, Darren C., AFGWC
LAND, Lisa M., Det. 21, 15WS
LEWIS, Christopher, OL-H, 7WS
LINGERFELT, Richard A., Det. 18, 25WS
MCCROCKLIN, John D., Det. 6, 7WS
MCKINNEY, Christopher, Det. 1, 7WS
PASSANIST, Gail, Det. 2, 7WS
PRUDEN, Donald, Det. 7, 7WS
RAINWATER, Dennis E., Det. 4, 28WS
SEIFERT, Joerg, OL-D, 7WS
SIMMONS, Lisa, Det. 8, 31WS
TEBBEN, Robert, Det. 7, OL-A, 7WS

To Airman First Class:

CANNON, Patrick R., Det. 6, 17WS
CASTELL, Scott A., Det. 7, 5WS
COLONA, Keith L., Det. 1, 15WS
COOPER, James, Det. 16, 31WS
EICHENBERGER, A1C Joseph, Det. 6, 17WS
GROVES, Stephanie R., 7WW
JOHNSON, Marston S., Det. 31, 5WS
LATHAM, Joseph E., Det. 9, 3WS
LEPORE, Rick A., Det. 9, 3WS
MCATEE, Rachelle J., Det. 14, 5WS
ORLICH, Jennifer A., 131WF, MAANG
PIERCE, John P., Det. 31, 5WS
ROBLES, Moses, Det. 7, 17WS
RUSSO, Michael J., Det. 14, 5WS
SLOAN, Timothy A., Det. 7, 5WS
STEELE, Michael A., Det. 1, 3WS
WILLMS, Anthony, Det. 9, 17WS

To Airman:

BRITTAIN, Marvin L., AFGWC
GAUDETTE, Scott M., AFGWC
HIGGINS, Dale J. Jr., Det. 1, 15WS
HOLT, Tasha M., Det. 1, 15WS
HUANG, Eugene Y., Det. 13, 5WS
JARVENPAA, Aimee L., Det. 2, 3WS
OTTE, Aaron M., Det. 9, 5WS
PATTERSON, Gary L., Det. 18, 25WS
RADECKE, Karen J., AFGWC
TUMBLIN, Wallace L., Det. 9, 3WS
WALKER, Jarrod T., AFGWC

Unit honors

Company Grade Officer of the Year:

1WW-RUSSELL, 1st Lt. Robert L., Det. 5, 20WS
3WS-BEAUDOUIN, 1st Lt. Paul T., Det. 2

Senior NCO of the Year:

1WW-KLUMB, SMSgt. Thomas E., Det. 8, 20WS
28WS-HEINEN, MSgt. Penny M., Det. 15, 28WS

NCO of the Year:

1WW-GREEN, TSgt. Alfred, 30WS
31WS-HOFF, TSgt. Terence, Det. 1

Airman of the Year:

31WS-HODSON, SrA. Mark F., Det. 7

Company Grade Officer of the Quarter:

31WS-KNOWLES, 1st Lt. John, Det. 20

Senior NCO of the Quarter:

3WS-WILLIAMS, MSgt. Ronald L., Det. 9
6WS-LANGLEY, MSgt. Terry W., Det. 75
31WS-RINTALA, MSgt. Roy, Det. 14

NCO of the Quarter:

5WW-STEVENSON, TSgt. Karl H., Det. 23, 3WS
6WS-PERKINS, SSgt. Bruce W., Det. 75

Airman of the Quarter:

5WW-FROST, Amn. Susan L., Det. 2, 3WS
6WS-WEINMEISTER, A1C Channing M., Det. 23

Civilian of the Quarter:

3WS-BURNS, GS-4 Diana L., Det. 2

Education

NCO Academy:

DAVIS, TSgt. Charcoe L., Det. 8, 17WS
ELYEA, TSgt. Mark L., Det. 17, 28WS
GIBBONS, TSgt. John E., AFGWC
MERCER, TSgt. Gary D., AFGWC (DG)
SHELTON, TSgt. Ronald F., AFGWC
THORNSBERRY, MSgt. Steven J., Det. 21, 5WS

NCO Leadership School:

BOCK, SSgt. Ronald, Det. 6, 5WS
CHOPLICK, SSgt. Daniel E., Det. 2, 5WS
COMSTOCK, SSgt. Kerry, Det. 11, 7WS (DG)
HALL, Leslie G., Det. 14, 5WS, (DG)
HANCOCK, SSgt. John K., Det. 3, 28WS

HOLLEY, SSgt. Janet, Det. 14, 31WS (DG)
LACROIX, SSgt. Eddie P. Jr., Det. 6, 17WS
MCCOY, SSgt. Colin W., Det. 1, 3WS
ROGERS, SSgt. Jody D., Det. 9, 3WS
SCHONOVER, Sgt. Stephen P., OL-A, Det. 2 (DG)
STASKO, SSgt. Franky W., Det. 11, 17WS
WALTON, SSgt. Clifford, Det. 3, 7WS

NCO Preparatory Course:

AUSTIN, SrA. Lori, HQ 31WS
CULBERTSON, SrA. Daniel L., Det. 6, 5WS
HICKMAN, SrA. Eddie, Det. 10, 7WS (DG)
HOOD, SrA. Robin V., Det. 18, 28WS
JACKSON, SrA. Lajuna K., Det. 17, 28WS (DG)
JOHNSON, SrA. Russell B., Det. 6, 3WS (DG)
LEAHY, SrA. Michael A., Det. 15, 28WS
MONTESINO, SrA. Jesus M.O., Det. 14, 25WS (DG)
PFENDER, SrA. Scott P., USAFETAC (Levitow)
RAINWATER, A1C Dennis E., Det. 4, 28WS
RYMERSON, SrA. Richard A., Det. 15, 28WS
SCHOOLCRAFT, SrA. Rodney L., Det. 4, 7WS
SEYMORE, SrA. Tabatha, Det. 2, 31WS
WEBER, SrA. Charles G. Jr., Det. 21, 5WS

Academy of Military Science:

HELMS, David R., 209WF, TXANG

Master's Degree to:

HERGERT, SMSgt. Mary, Det. 8, 31WS

Bachelor's Degree to:

BRESSIE, SSgt. Stephen R., Det. 26, 28WS

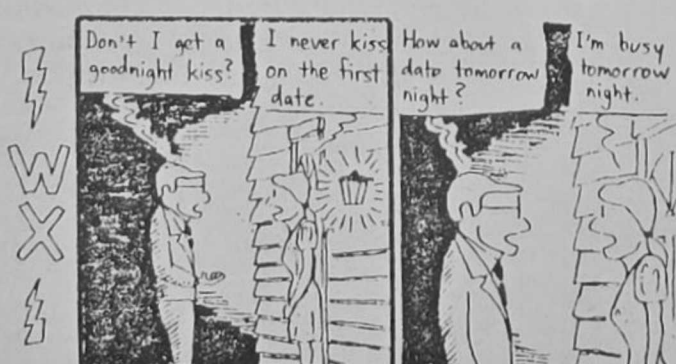
Reenlistments

ALKEMA, Sgt. Kevin D., USAFETAC
APODACA, Sgt. Michael, Det. 26, 7WS
BUCHANAN, TSgt. James, Det. 26, 7WS
BURKHALTER, SSgt. Ronald J., Det. 3, 3WS
DALE, SrA. Bennett, 17WS/WSU
DUNLAP, SSgt. Dora A., Det. 1, 7WW
FERRO, TSgt. Francis J. Jr., Det. 36, 28WS
HUNTER, TSgt. Raymond E. Jr., Det. 18, 28WS
KING, SSgt. Michael E., Det. 31, 5WS
LOVELADY, SSgt. Deborah C., AFGWC
O'BRIEN, TSgt. Raymond E. Jr., Det. 18, 28WS
PELLETIER, Sgt. Raymond L., Det. 8, 7WS
SEYMORE, Tabatha, Det. 2, 31WS
SWANSON, SSgt. Gori L., Det. 2, 17WS
TURKOVITCH, SSgt. Stephen, Det. 26, 7WS

Retirements

BENTON, SMSgt. Franklin O.H., Det. 29, 17WS
BIRD, SSgt. Keith R., Det. 7, 17WS
SWAN, Sgt. Randy, Det. 7, 17WS

By SSgt. Daniel Geis



Spotlight on Performers

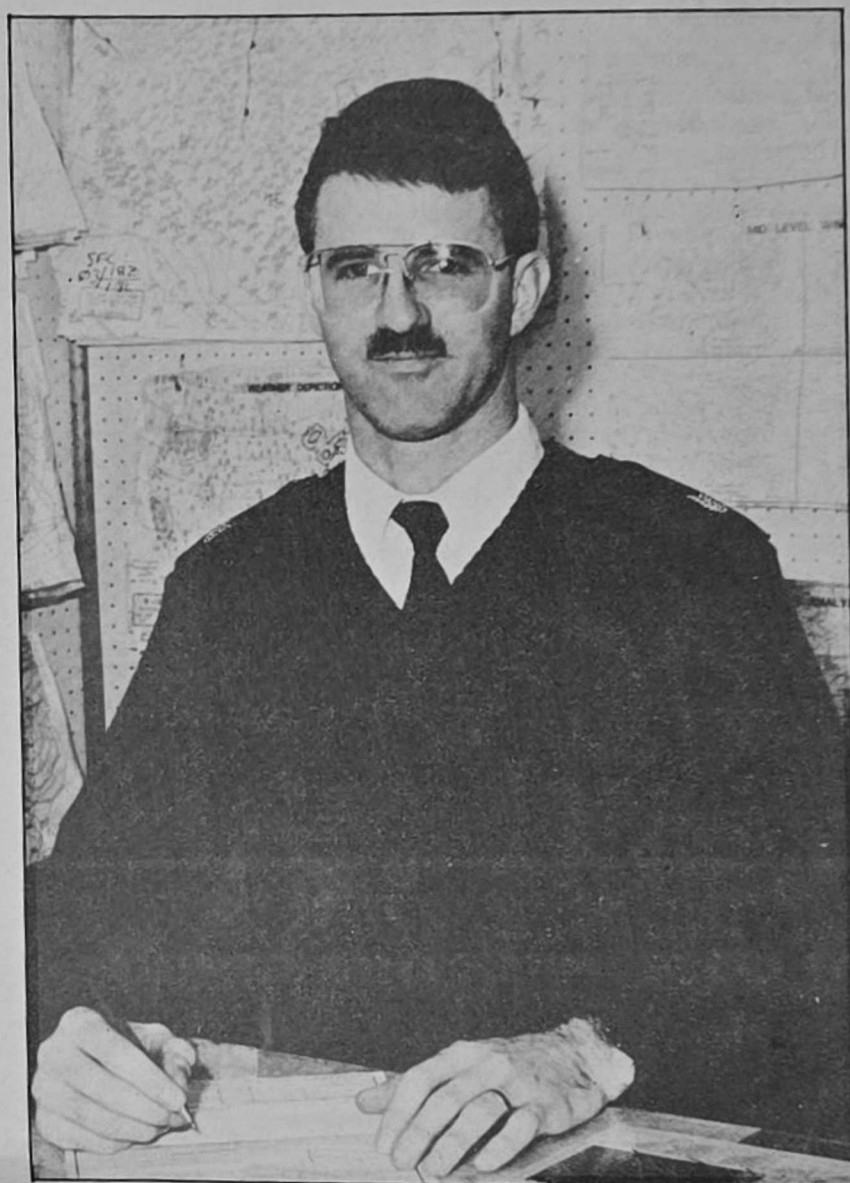
Editor's note: AWS/PA has received a number of laudatory letters on our AWS members, but unfortunately most without accompanying photos. If you or members of your unit have been recognized in a laudatory finding by the MAC/IG since the beginning of the year, have your base photo lab take an on-the-job photo. Send the photo, with individuals identified on the back, along with the words "Spotlight on Performers," to HQ AWS/PA, Attn: MSgt. Dave Black, Scott AFB, Ill. 62225-5008. Let's give our members the recognition they deserve.

Who: MSgt. Vincent J. Delaney, Management Assistant.

What: Identified in a laudatory finding as an outstanding performer by the HQ MAC/IG during a recent Unit Effectiveness Inspection.

Where: 207 WF, Shelbyville, Ind.

How and Why: Sergeant Delaney developed innovative ways to enhance flight recruitment. His initiatives helped to improve the flight's serious personnel shortage. He initiated a public service announcement aired on television about the recruitment of a new member. He developed articles about the flight, its mission, and its recruitment needs that appeared in several newspapers. He also operated information booths at fairs and festivals which stirred the interest of the public in not only the weather flight, but the Air National Guard and Army National Guard as a whole.



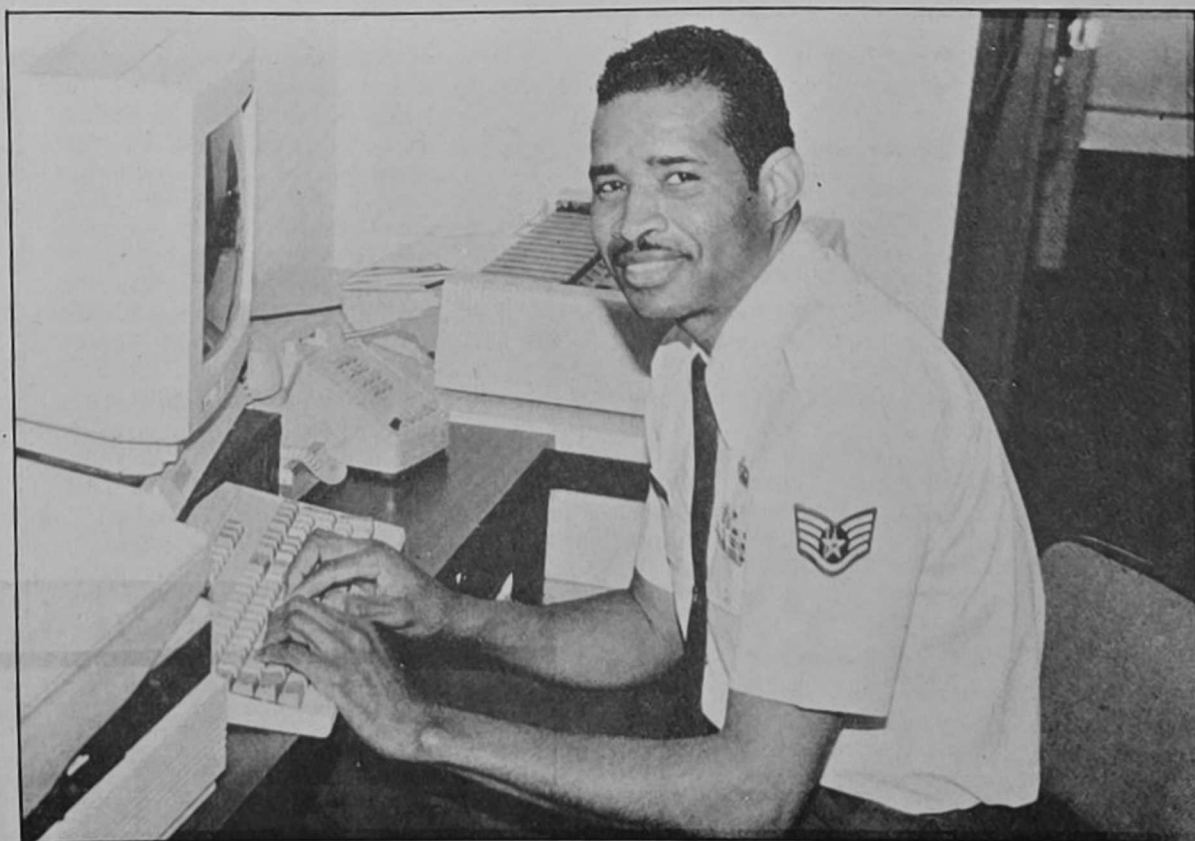
MSgt. Vincent J. Delaney

WHO: SSgt. Willie C. Sherin

What: Identified in a laudatory finding as an outstanding performer by the Headquarters Military Airlift Command Inspector General during a recent Unit Effectiveness Inspection.

Where: Det. 7, 3rd Weather Squadron, Langley AFB, Va.

How and Why: Sergeant Sherin exhibited superior management and innovative skills as the unit information manager. He provided superb services and support to unit personnel by developing an outstanding "on-base" information binder containing up-to-date guidance, procedures, and forms from base agencies. He also volunteered to assist shift workers in obtaining and completing routine forms and then hand carrying them to the appropriate agency. In addition, Sergeant Sherin developed an outstanding INTRO program that unit newcomers unanimously rated as either "outstanding" or "exceptional".



SSgt. Willie C. Sherin

Stealth...

Continued from page 1

flight controls. It also can be air-refueled, giving the aircraft unlimited range.

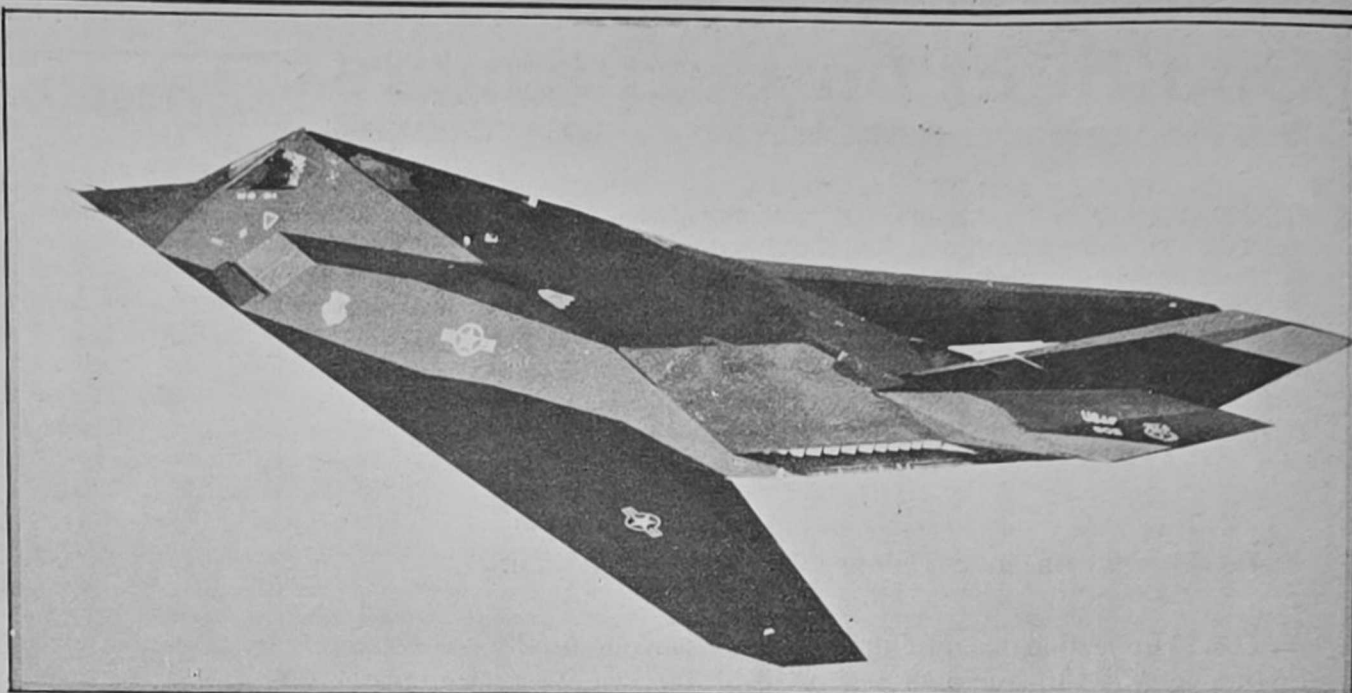
The as yet unnamed F-117A was developed and designed as a fighter of the future, its mission to penetrate densely protected areas and attack high-value targets with pinpoint accuracy. For that mission, the plane is capable of carrying a variety of weapons while the pilot can call on sophisticated navigation and attack systems integrated into state-of-the-art avionics.

Its night-fighting ability was demonstrated in December during Operation Just Cause when the F-117A made its combat debut. Shortly after the invasion began, Secretary of Defense Dick Cheney confirmed that F-117As were used to drop two 2,000-pound bombs near a Panamanian Defense Force stronghold. The bombing, Secretary Cheney said, was to stun and disorient the PDF before Army Rangers parachuted into the area.

Although the F-117A became operational in October 1983, its existence was not publicly announced until 1988. A year later the Air Force-Lockheed team that fielded the plane was chosen winner of the coveted Robert J. Collier Trophy, presented annually by the National Aeronautical Association.

The F-117A Systems Program Office of the Aeronautical Systems Division, and Lockheed's Advanced Development Projects, a division of the Lockheed Aeronautical Systems Co., were selected based on the production and deployment of the stealth fighter.

The winners were tapped for designing, developing, producing and deploying the F-117A. "Working in total secrecy and with virtually no outside assistance, this small team of hand-picked experts fielded the sophisticated fighter in near-record time," read the team's nomination for the Collier. "Incorporating advanced low observable technologies into a radical new design, this aircraft changes the entire concept of military aircraft design and combat employment for the future."



Gen. Lee...

Continued from page 1

Center. At the Center, he was instrumental in devising and implementing new high-altitude wind forecast methods for experimental four-dimensional flight planning procedures. In 1958, he was detailed to Clark Air Base, the Philippines, in support of the activities resulting from the Formosan crisis.

He separated from active duty in June 1959 and immediately entered the AWS mobilization augmentee program, U.S. Air Force Reserve. He was attached to the base weather station at Hickam Air Force Base, Hawaii for training.

In September 1959, he joined the U.S. Weather Bureau in Honolulu as a meteorologist. In 1960, he transferred with promotion to Wake Island, Pacific as a principal aviation meteorologist. In 1961, he returned to Honolulu as a district meteorologist. In 1968, he was promoted to supervisory meteorologist with subsequent promotions to principal assistant meteorologist in 1976 and to his present position as Director, Central Pacific Hurricane Center in 1977.

General Lee volunteered for additional reserve duty as a U.S. Air Force Academy Liaison Officer in 1975. In 1980, he was selected as the Outstanding Air Force Academy Liaison Officer. In 1981, he volunteered for additional reserve duty status in the Civil Air Patrol Reserve Assistance Program. The general served on the Hawaii Civil Air Patrol Executive Board and as the senior Air Force Reserve advisor to the Civil Air Patrol, Hawaii Wing.

In 1976, he was reassigned as the mobilization augmentee to the Commander, 1st Weather Wing, Hickam AFB. In July 1983, he assumed his present position. In his civilian capacity, he serves as the Area Manager of

the National Weather Service in Hawaii, Director of the Honolulu Satellite Field Services Station, Meteorologist in Charge of the Weather Service Forecast Office in Honolulu and the National

Weather Service representative for the Regional Response Team, Region IX, headquartered in San Francisco.

General Lee is a member of the Reserve Officer's Association, Air Force Association, American Meteorological Society and the Community Board, an advisory board to the administrative body of the municipal government of the city and county of Honolulu.

He is currently serving his fifth consecutive elected term on that body. He is active in numerous civil defense and community activities involving natural hazards preparedness and mitigation.

General Lee's military decorations and awards include the Meritorious Service Medal, Air Force Outstanding Unit Award and Armed Forces Reserve Medal. He was promoted to brigadier general on Sept. 21, 1985 with the same date of rank.

General Lee is married to the former Mildred Togashi of Wahiawa, Hawaii. They have two children, Aaron and Sherri.

HQ 1ST WEATHER WING 17

HICKAM AFB HI 96853

HQ AWS/PA
SCOTT AFB, IL 62225-5008

BULK RATE
POSTAGE & FEES PAID
USAF
PERMIT No. G-1