

Your Magazine for Air Force Weather

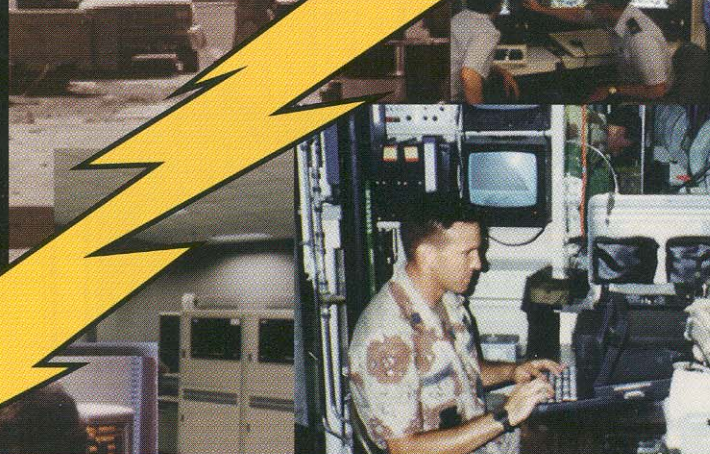
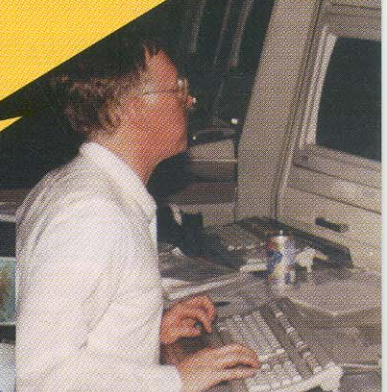
OBSERVER

July/August 1997

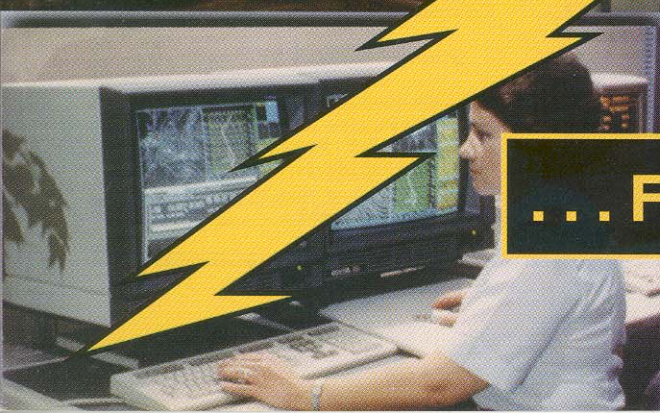
Vol. 44, No. 6



60 YEARS OF SUCCESS ...



... FORGING A PROUD FUTURE



What's Inside for JULY/AUGUST 1997

PERSPECTIVE FROM THE TOP — Air Force Director of Weather, Brig. Gen. Fred Lewis takes a quick look at the future of Air Force Weather as the organization progresses to implementation stages of reengineering...**Pages 3-4.**

COMMAND PERSPECTIVE — Air Mobility Command Director of Weather, Lt. Col. Web Tileston focuses on reasons for change and commitment necessary for Air Force Weather to evolve...**Page 5.**

GUEST EDITORIAL — Former Air Weather Service Commander, Maj. Gen. (Ret.) John W. Collens reflects on the Air Force Weather mission and its relation to organizational names...**Page 6.**

HISTORICALLY SPEAKING — The Air Weather Service Office of History provides a glimpse into the past "60 Years of Success" for this issue celebrating the anniversary of Air Weather Service...**Pages 7-13.**

STANDARDIZATION AND EVALUATION — With 27 Stan-Eval visits as a knowledge base, a team member shares some "secrets of success" with the field ...**Pages 14-15.**

WEATHER SCHOOLHOUSE — Instructors use technology to reduce training costs and expand training opportunities while creating an innovative method of instruction...**Pages 16-17.**

MOORMAN AWARD PRESENTED — History is made during presentation of the Moorman Award to the 24th WS/WSS at the Pentagon...**Pages 18-19.**

SALUTES — Awards, decorations, promotions, education and more from Air Force Weather units around the world... **Pages 20-23.**

SPOTLIGHT

These days, an Air Force Weather person can hardly sling a psychrometer without hitting a colleague involved in the reengineering process. Air Force Weather is engulfed in a time of rapid change and rapid progress, applying a "build a little, test a little, field a little" process which will define the future of the organization, the weather career field, and the critical weather support provided to our nation's warfighters.

The men and women of Air Force Weather share a proud organizational history which has set the stage and has laid the foundation for even greater achievements in the future.

Our view of history shapes our perception of the present and therefore dictates our vision of the future. Appropriately, this month's Observer Magazine reflects on "60 Years of Success" and focuses on "Forging a Proud Future" through current reengineering efforts.



OBSERVER

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The AIR FORCE WEATHER AGENCY

A Quick Look at the Future



by Brig. Gen. Fred P. Lewis, Air Force Director of Weather

In past Observer articles, we have focused on some of the fundamentals needed to ensure our reengineering efforts succeed. Simply put, our organization must evolve to focus the right number of people with the right level of experience on our customers' requirements—that is, highly-accurate, timely, fine-scale, relevant weather information. Since we began our reengineering efforts nearly a year ago, our vision has not changed appreciably. We must continue to work each and every day to become: The Operators'/Warfighters' Choice for Air and Space Weather Information on Demand for Global Engagement; Providing the Knowledge Needed to Own the Weather.

Our road toward this vision has been very productive, but like any worthwhile endeavor, it has involved a lot of hard work from many of you. We have called on many of you for your expertise and innovative thinking. Your efforts paid real dividends when, in June, we briefed the senior commanders of the Air Force on our proposed changes. Thanks to your hard work, often with short suspenses, our detailed planning efforts have met with solid success. Air Force senior leaders support what we are doing to improve our functional area—as was demonstrated by our AFW Strategic Plan being approved on Aug. 18, 1997 by AF/CV!

With that in mind, it's time to begin implementing our plans. One of our first changes will occur on Oct. 15, 1997, when we will stand up the new Air Force Weather Agency (AFWA) at Offutt AFB, Nebraska. But the AFWA really won't be so new. It will be formed by redesignating Air Weather Service (AWS) and thus will carry all of AWS's heritage. It will combine today's AWS and Air Force Global Weather Center (AFGWC) into a single, operations-focused, Field Operating Agency (FOA) with Col. Jack Hayes being its first commander.

So why are we changing the name and location of our FOA? The AFWA will fulfill many of the fundamentals we have discussed in previous articles. Since AFW changed in 1991, we have spread our talented people within the FOA too thin by maintaining the FOA Headquarters (AWS) as a separate and distinct entity from its largest production center. We can no longer afford to maintain that old paradigm—it is time for a change. By combining, redefining, and streamlining the roles of the Air Weather Service and Air Force Global Weather

Center, we will reduce management overhead and eliminate duplication while putting more experts at the center of the action—the premier Strategic Center for our reengineered Air Force Weather—the AF Weather Agency.

By concentrating our talented experts together in one organization, the AFWA, we will achieve a synergy that will allow us to achieve more of an end-to-end, operations focus in our support functions and better deal with officer to enlisted conversions that will occur through FY00. The new AFWA can be more customer focused as it aligns itself with the primary source of our weather data collection and weather products. This will directly result in improved operational support for our MAJCOM and other important customers—the main reason why we are reengineering!

How will the new AFWA be organized? Right now the final touches are being coordinated at all levels, but the organization will consist of the two other external centers, a command staff, and four internal directorates. The high-level organizational structure is reflected in the wiring diagram on the following page.

Besides the AFWA, Col. Hayes will direct two strategic centers: the AF Combat Climatology Center (AFCCC); and the AF Combat Weather Center (AFCWC) at Hurlburt Field, Florida. As you probably already know, AFCCC is moving from Scott AFB to Asheville, N. C., to combine with AFCCC OL-A and be collocated with the National Climatic Data Center.

The heart of AFWA will be the four directorates. Each will be under the direction of a colonel and all will ultimately be located at Offutt AFB as we form the AFWA over the next two years.

The Operations Directorate (XO) will oversee AFWA weather operations. It will manage the scheduling and production of highly accurate, worldwide, mission-tailored weather products 24-hours-a-day to meet the requirements of the National Command Authorities, DoD, Unified Commands, Joint Operations, the Air Force and the Army, and other SECAF-directed programs. It will assist AF/XOW and the MAJCOMs in establishing AFW observing and forecasting procedures and standards. AFWA/XO will also assist AF/XOW and the MAJCOMs by consolidating AFW operational

requirements.

The Air and Space Sciences Directorate (DN) will be the focal point for developing improved methods, processes, and tools to help do the job; managing the training of all of our weather people; and maintaining the quality of our worldwide weather support by exploiting applied meteorological/geophysical techniques and visualizations. AFWA/DN, working closely with the schoolhouse at Keesler AFB and MAJCOMs, will help standardize and centrally produce on-the-job-training (OJT) programs. It will also assist AF/XOW, AETC, and the other MAJCOMs in working and coordinating all AFW training issues. It will also direct operational air and space science activities to improve the weather support capabilities and operations based on the newest techniques, products, and visualizations.

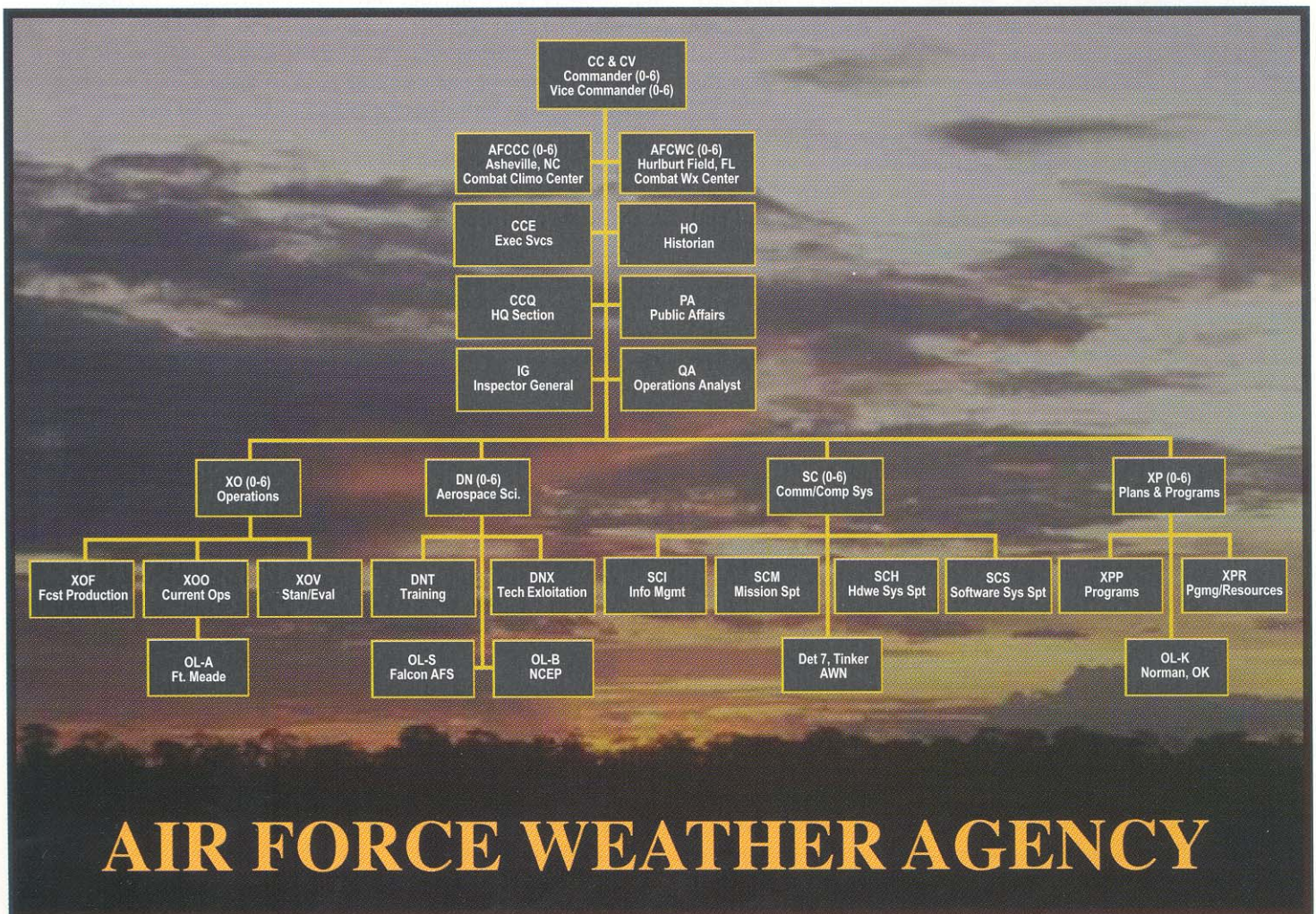
The Communications and Computer Systems Directorate (SC) will be responsible for the critical communications and computer processing technology that makes AFW work. We will depend on this group to coordinate the communications and computer technology for AFW. They will be responsible for coordinating weather communications programs with Air Force, Army, Joint, DoD, and MAJCOM agencies. AFWA/SC will also be responsible for weather computer hardware operations and software development.

The Plans and Programs Directorate (XP) will look to the

future as AFW moves forward. The mission for this directorate will be to assist AF/XOW and the MAJCOMs in planning and executing programs to acquire, field, and sustain capabilities for all of AFW. It will assist AF/XOW and the MAJCOMs in providing guidance on new systems and software by keeping the user's requirements in focus. Finally, through the long-range, strategic planning process, AFWA/XP will assist AF/XOW and the MAJCOMs in analyzing mission support shortfalls in order to ensure we are on target to meet our customers future needs.

Each component of the new Air Force Weather Agency is necessary to assist the MAJCOMs and AF/XOW in providing needed weather information, training, systems, and future development as we take the next step towards being the operators choice for weather information, allowing them to fully exploit the air and space environment.

As always, I invite your comments and suggestions as we move forward. While we continue to work together to build the best military weather capability in the world, forming the AFWA is one of those very important steps to making this a reality. It's time for us to continue to steadily move towards a new way of doing business in AFW. It's time to stand-up the Air Force Weather Agency - and on 15 October, we will do just that so our operators can OWN THE WEATHER!



AIR FORCE WEATHER AGENCY

Commitment to Change



By Lt. Col. Web Tileston,
Director of Weather
Air Mobility Command

By now, most of you are aware that the Air Force Director of Weather, Brig. Gen. Fred P. Lewis, was very successful in briefing Air Force Weather (AFW) reengineering to the Air Force Chief of Staff, Gen. Ronald R. Fogleman, and to all the Air Force 4-star generals attending the CORONA TOP conference held at Scott Air Force Base in June. The Air Force senior leaders approved the AFW reengineering concept that will result in creation of "operational weather squadrons" (regional hubs) in addition to base level combat weather teams (CWT).

I realize there are varying levels of familiarity with the reengineering plan resulting in a wide range of perceptions. The entire project has many facets, few of which are trivial. It is an extremely complex undertaking that is going to require enormous effort and most importantly, teamwork, to implement. But, I can assure you that from an Air Force perspective, and most assuredly, from an AMC perspective, AFW needs to change. Never has it been more necessary to change. We can't afford to do nothing. Let me give you a few reasons why change is needed.

In my first year as the AMC/DOW, I've been able to observe many symptoms of an AFW system that is broken and results in absolutely terrible impacts to our people. Operational forecaster manning across the Air Force continues to be in the low to mid 80 percent range. The average experience level in the base weather stations has dropped over the last 5 years from approximately 13.5 years to around 4. We have inexperienced people trying to teach and lead lesser experienced people. There are now airmen first class and senior airmen working as forecasters at the counter

where we once had only staff and technical sergeants and some master sergeants. The station leadership now consists mostly of master sergeants with modest to little experience in the weather career field and junior captain flight commanders as opposed to majors and lieutenant colonels. These lowered experience levels have resulted in a decreased mission awareness on the part of AFW, compounded by decreased operator awareness of what weather can do for the mission.

Base weather station manning today is based on a manpower standard that was geared to the Cold War. During that time, it was fairly uncommon for the weather station to have someone deployed. Only a few people a year would deploy, and then not for extended periods of time. Last year the ten AMC weather flights logged 5,500 deployed TDY mandays. Today, within AMC alone, every weather station has at least one, and in many cases two forecasters deployed. Additionally, there are observers deployed from nearly every station. Most of these deployments are for 90 days or more.

AFW has discovered that the new technology it brought on line in the late 80s, designed to eliminate labor intensive tasks and reduce manpower, has in fact resulted in an increased manpower requirement. Stations must man the forecast counter with two people for approximately 12 hours per day (0600-1800), because one person cannot handle the briefing counter duties and simultaneously operate the Automated Weather Distribution System (AWDS) to put together a forecast. Stations are not authorized two bodies—only one for the forecast function.

Before the Selective Reenlistment

term Bonus was upgraded, first reenlistment rates were 35 percent and lower. The youngest members of AFW don't see a promising or enjoyable future as a forecaster in the USAF. They are voting with their feet. And if it continues, we won't be able to sustain the force.


As you can see from the above, we're not lacking for reasons to change. And that is just the tip of the iceberg. First and foremost, we need to change to improve AFW support across the board. Secondly, we need to make things better for our people. No one likes to change. Change is difficult, and it seems as if that's all AFW has been doing since 1991. Many believe we need to just stop for awhile. Unfortunately, we can't afford to right now. Never in the 60 year history of AFW has change been more necessary.

To be successful, we need all of AFW to come on board and be open-minded to the changes being proposed. As John Dickenson once stated in the Liberty Song, first published in the Boston Gazette in 1768, "United we stand, divided we fall." We don't intend to rush into this (as evidenced by the 10 months it took to develop the strategic plan). Complete implementation is going to take up to 6 years. The AFW senior leadership is committed to properly implementing reengineering. This includes ensuring the all-important training piece doesn't drop out as has happened so many times over the last 40 years.

We can do it. We can all be a part of the most revolutionary and exciting changes ever experienced by AFW. But we need to be committed to working together. Join me for what will prove to be a most interesting ride into the future!

What's In a Name?

by Maj. Gen. (Ret.) John W. Collens
AWS/CC 1974-75



Air Weather Service (AWS) is to become the Air Force Weather Agency (AFWA). Some may moan the loss of a name that has endured since 1937. Grieve not, my fellow weather service associates; the AWS name has been a misnomer for several decades. Here's why.

AWS has been providing space environment support for at least 30 years. No one on active duty today in AWS predates the beginning of its venture into space observation and forecasting. There were proposals in the 1970s to change the name of AWS to Aerospace Environment Service or other such connotations.

So, what's in a name? AWS is already more than a weather support agency. It is on the leading edge of the Air Force's transition to a probable name change. General Estes, CincSpaceCom, alerted the gathering of worldwide air chiefs in April to the U.S. Air Force's need to gain dominance through space operations. He suggested that by the year 2025 "we'll be routinely operating space-planes".

Desert Storm made great use of space-based resources for intelligence and target detection and selection. As additional Air Force operations move from earth's atmosphere into its space environment the "weather" in AFWA's name might also be a misnomer.

Whether it eventually becomes the Aerospace Environment Support Agency or some other label, those currently serving in Air Force Weather can take pride in their mission. The name, Air Weather Service, no longer fits that mission description.

We are a part of the U.S. Air Force that evolved from the Army's Air Service to its Air Corps, then the Army Air Forces. That evolution continues. As AWS retires its colors, it moves to a higher destiny. What's in a name? Nothing really - it's the mission that counts.

History Reflects

... Progress

... Service

... Excellence

By Patricia K. Warner
Writer, Air Weather Service History Office



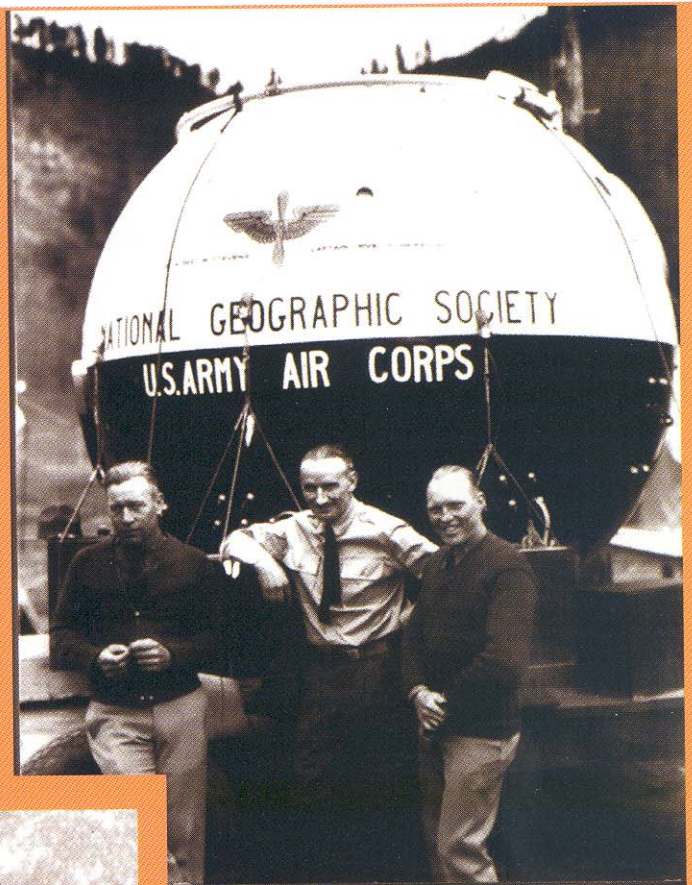
Air Weather Service celebrated a momentous anniversary Jul. 1, recognizing more than 60 years of weather support to the nation's warfighters. Air Weather service was officially born July 1, 1937, when the Air Corps assumed responsibility for military weather services from the Signal Corp. But, looking back more than a century earlier, one can attain a better historical perspective of the important role weather warriors played in our national defense efforts.

In 1814, a physician and Surgeon General of the United States Army directed hospital surgeons to keep a record of the weather, a tradition that continued and expanded with his successors. These early weather observers' only instruments were thermometers, wind vanes, and determination. The importance of this early work was recognized and rewarded by Congress in 1842 with the establishment and appointment of a "Meteorologist to the U.S. Government" who was assigned to the Surgeon General's Office.

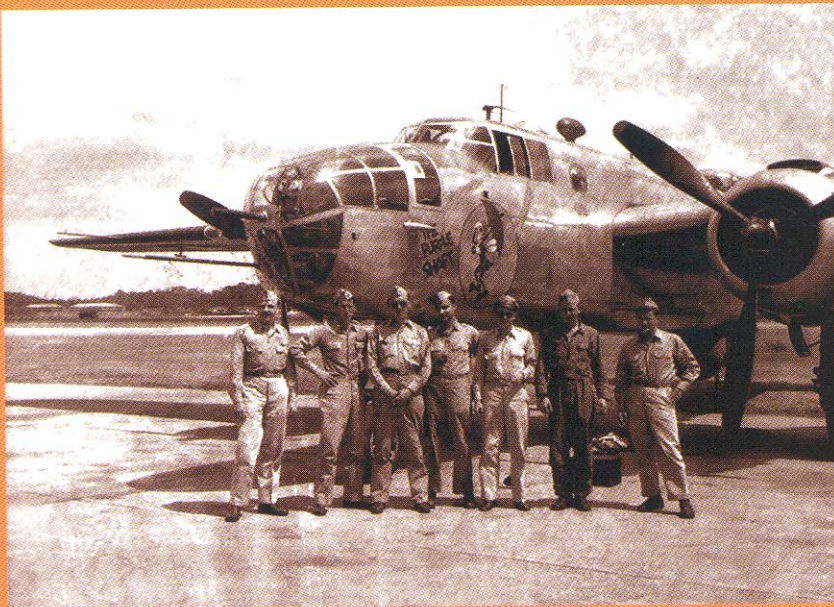
In 1870, Congress formally instructed the War Department to take meteorological observations at military stations and warn of approaching storms on the northern lakes and seacoasts. The Secretary of War assigned this task to the Army Signal Corps which bore the responsibility for twenty years until Congress created the U.S. Weather Bureau in 1890. At that point, all of the military weather equipment and records transferred to the new agency. As a result, virtually no American military weather service existed from 1891 to 1917.

American involvement in World War I returned military weather services to the forefront. A request for weather support in July 1917 from the Chief Signal Officer of the American Expeditionary Forces in France led to the creation of a Meteorological Section in the Army Signal Corps. By war's end, the Army had trained approximately 500 weathermen.

Despite the fact that World War I had certainly demonstrated the need for and potential of a military weather service, by 1935, only about 160 enlisted weathermen and about a half dozen officers remained. However, at this lowly juncture, there also existed a



1935 - Captains Albert W. Stevens, Orvil A. Anderson and Randolph P. "Pinkie" Williams stand next to the Explorer II gondola in Rapid City, S.D.



1944 - Crewmembers pose in front of the "Purple Shaft," a WB-25 aircraft used for weather reconnaissance in the Panama Canal Zone.

to investigate and report the performance of the Air Corps in carrying the U.S. mail, recommended the Air Corps operate the weather service in time of war. This recommendation led to a reluctant Chief Signal Officer suggestion that the Meteorological Section of the Signal Corps be transferred to the Air Corps. After study and debate, the Secretary of War directed the Chief of the Air Corps to assume responsibility for the military weather service on Jul. 1, 1937, thus establishing the birth date of the Air Weather Service, although it did not

weather officer at the newly created General Headquarters Air Force who was about to bring about crucial change. His name was Captain Randolph P. "Pinkie" Williams, who would later be known as the "Father of the Air Weather Service."

During 1935 and 1936, Williams wrote numerous reports on the shortcomings of the military weather service as it then existed. These reports led to a decision by the Chief Signal Officer of the Army to expand the Signal Corps' Meteorological Section on Jul. 1, 1935. Also in 1935, a committee, charged by the Secretary of War

receive that name until eleven years later.

The new Air Corps Weather Service of 1937 consisted of approximately 22 officers and 280 enlisted personnel. Again, a war raging in Europe brought about significant changes. Amazingly, by the time the United States entered the war in December 1941, the Weather Service had grown to 2,650 personnel! This explosive growth made recruiting and training weathermen a major challenge during the war years. After Army Air Forces Commander Gen. Henry H. "Hap" Arnold expanded the Weather Service to include support to



A technician adjusts a theodolite.

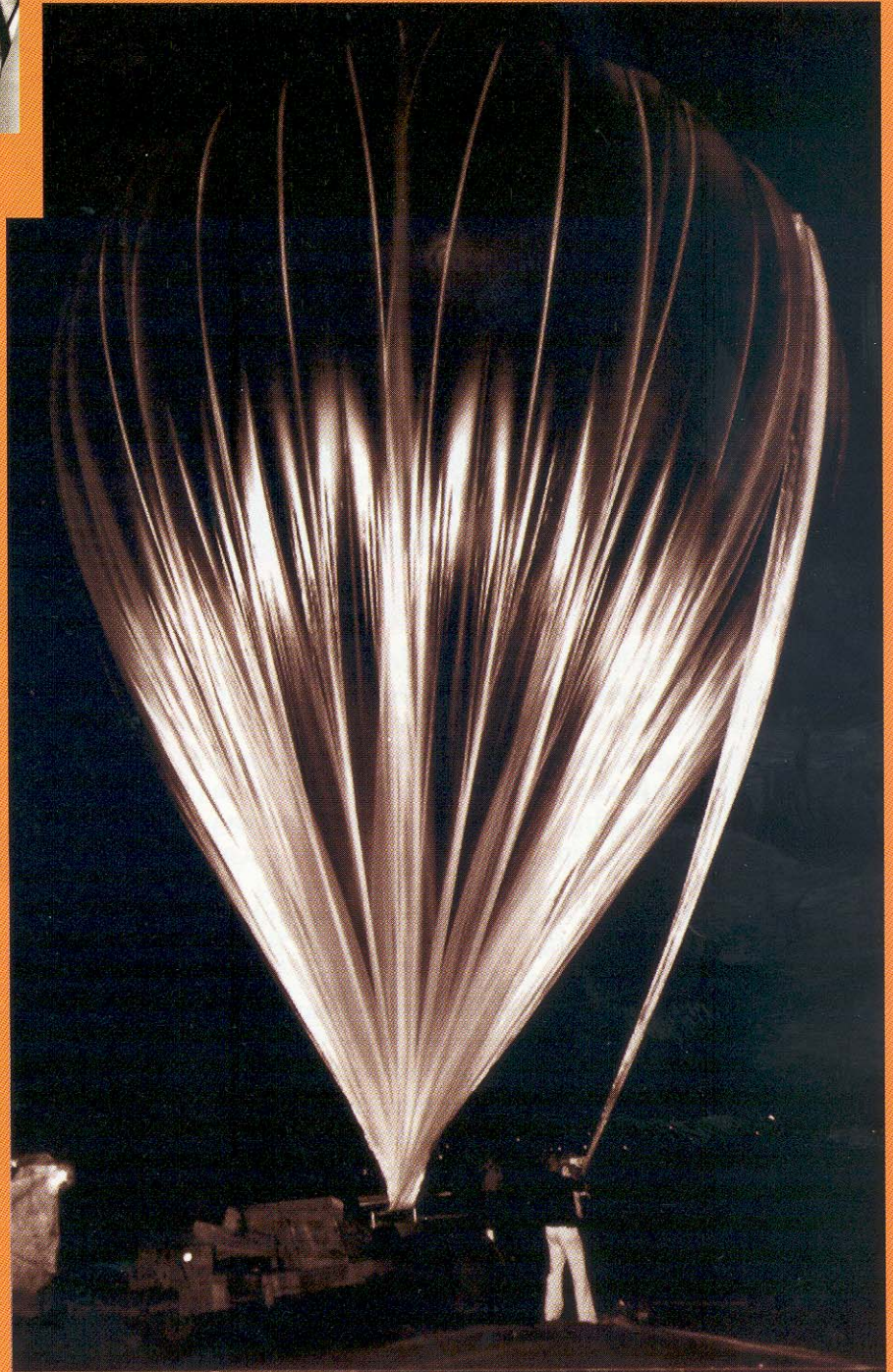
Army Ground and Service Forces, the AAF Weather Service reached a peak strength of 19,000 in early 1945. It operated some 900 weather stations, nearly 700 of which were located overseas in 58 different countries. Members of the AAF Weather Service helped to prepare critical weather forecasts in support of the D-Day invasion of Europe and of the first atomic bomb mission. World War II claimed the lives of 68 AAF Weather Service personnel—30 officers and 38 enlisted personnel.

A year after war's end, the number of weather personnel again diminished to a post-war low of 4,198 people. This drop was short-lived, however, as the numbers increased to 8,300 by the end of 1948. As is often the case during wartime situations, the AAF Weather Service also underwent many organizational changes, going from Weather Section to Weather Directorate to Weather Division. On Jul. 1, 1945, AAF abolished the Weather Division at the Air Staff and redesignated the Weather Wing at Asheville, N. C., as the AAF Weather Service. The Chief of AAF Weather Service remained in Washington, DC where he continued to function as staff weather officer to the Commanding General, AAF, while the AAF Weather Service headquarters remained at Asheville.

In addition to name changes, the Weather Service endured three moves in three years immediately following World War II. In January 1946, it

moved from Asheville to Langley Field, Va. Five months later it relocated to Gravelly Point, Virginia, near Washington, DC, and a move across the Potomac River to Andrews Air Force Base followed on Dec. 1, 1948. For a time, AAF Weather Service functioned as a worldwide command, but on Mar. 13, 1946, the Weather Service was assigned to the Air Transport Command, at which time the organization became the Air Weather Service.

During the war and the immediate post-war years, there were significant strides and accomplishments attributable to the Weather



A balloon is prepared for launch in support of Project ASHCAN. The project was developed to acquire high-altitude radioactivity measurements from 1957 to 1983.

Service. Among them were the introduction of a system of weather centrals which provided daily analyses of weather conditions throughout the northern hemisphere; support of atomic testing; an aerial weather reconnaissance capability; and, in 1948, issuance of its first tornado warning. Also, weather scouts flew wartime missions over Europe with P-51

AWS personnel entered the combat zone of Korea in 1950. During the next three years AWS provided extensive weather support to United Nations air and ground forces. In the process it introduced "pinpoint" forecasting for bombing targets. It also successfully used, for the first time in combat, the principle of a weather central connected by radio to subordinate forecasting stations.

Forecasting efforts were difficult in Korea because the enemy controlled the areas to the west of South Korea, but with persistence and determination, forecasting improved despite this obstacle. Ultimately, five weather officers and one enlisted man lost their lives in Korea. Likewise, in the next decade, AWS' presence in South Vietnam began in December 1961 with the deployment of a single weather forecaster to Saigon to provide briefings for an RF-101 reconnaissance operation.

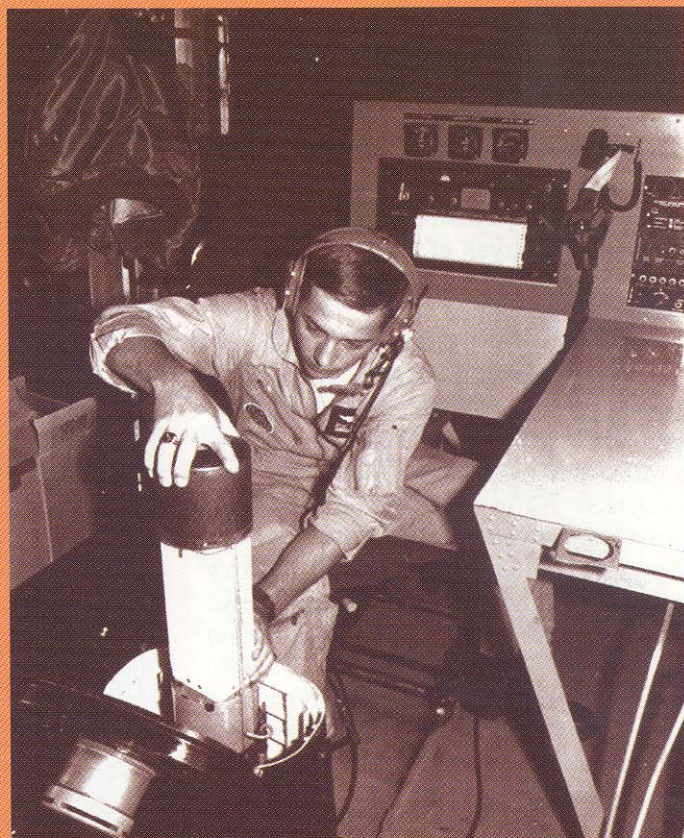


Satellite receivers stand ready to receive weather imagery from space for use in providing critical data to warfighters.

aircraft to determine winds, cloud cover and cloud height, and then radioed the information back to bomber strike forces.

In the spring of 1944, Headquarters AAF assigned four B-25 aircraft and crews to conduct hurricane reconnaissance. The first official, authorized hurricane penetration occurred Sept. 10, 1944 in a mission out of Puerto Rico over the western Atlantic, although an unofficial "recce" flight had occurred over the Gulf of Mexico on Jul. 23, 1944. Soon thereafter, B-17s replaced the B-25s in hurricane reconnaissance. Other AWS jobs were not as perilous, but no less important in ensuring human safety and well being.

The Air Weather Service played a significant part in one of the largest and most well known humanitarian missions—the Berlin Airlift of 1948 and 1949. This massive airlift, which generated more than 189,000 flights, carried precious cargo such as food, coal and medicine into blockaded Berlin. Low clouds, fog, freezing rain, turbulence, and ice frequently hampered the humanitarian effort. Weather forecasters prepared exact ceiling and visibility forecasts for daily operations and special climatological studies and forecasts for operational planning purposes. As the decade of the 1940s closed, American involvement in another war loomed ahead.



A crewmember loads dropsonde equipment.

Soon the demand for weather personnel rose faster than AWS could fill the positions. By the beginning of 1968, AWS had approximately 600 personnel in Southeast Asia. Gen. William C. Westmoreland, Commander, U.S. Military Assistance Command, Vietnam, commented that no other U.S. military commander had ever had the advantages of the outstanding weather support he had at his disposal.

In a television interview at Tan Son Nhut Air Base, Republic of Vietnam, the 7th Air Force Commander, Lt. Gen. William W. Momyer said, "The weather satellite picture is probably the greatest innovation of the war." When U.S. troop disengagement began in 1969, AWS underwent a drawdown in Southeast Asia even more dramatic than its buildup. Four AWS enlisted men were killed in action during the Vietnam conflict.

As the U.S. wound down its presence in Southeast Asia, AWS, like most of the military, faced a major force reduction because of the austere post-Vietnam military budget climate. The cuts were dramatic, decreasing manpower by 757 spaces in 1969 and causing the loss of 2,315 manpower authorizations in 1972 alone. When all was said and done, the 11,624 manning positions which existed in 1968, were reduced to 6,402 by the end of 1977, AWS's lowest point since the post-World War II demobilization in 1946.

Despite this downsizing, the Vietnam and post-Vietnam eras brought about the initiation of new services and modernization of equipment. In 1965, the Air Force launched its first Defense Meteorological Satellite, upgraded space environmental support activities and inaugurated a Solar Observing and Forecasting Network. It also implemented a high speed (4,500 words per minute) Automated Weather Network which linked AWS's two overseas weather centrals with the Air Force Global Weather Central at Offutt AFB. The first segment of an upgraded weather communications system for the CONUS, the Meteorological Data System, became operational in 1976.

In 1975 and 1978, respectively, AWS started operating new solar optical (AN/FMQ-7) and radio (AN/FRR-95) telescopes at its solar observatories. All of these technological advances in the 1970s served as a precursor to a tremendous modernization surge in the decade of the eighties.

The top three priority AWS procurement initiatives of the 1980s were the Automated Weather Distribution System (AWDS), Next Generation Weather Radar (NEXRAD), and Battlefield Weather Observation and Forecast System (BWOFS) programs. AWDS utilized state of the art computer, display and communications technology to gather, process and disseminate weather data. NEXRAD, which was a joint undertaking of the National Weather Service, AWS, and the Federal Aviation Administration, replaced unreliable weather radar equipment with new, highly automated Doppler weather radar systems that vastly improved severe weather forecasting.

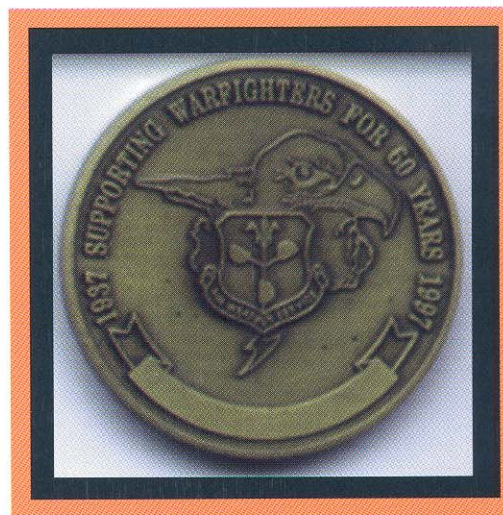
The BWOFS program consisted of two parts: the Pre-Strike Surveillance Reconnaissance System (PRESSURS) and Electro-optical Tactical Decision Aids (EOTDAs). The PRESSURS program did not thrive and was eliminated in 1988, but the EOTDA program did well. EOTDAs were essentially predictions of the performance of electro-optical precision guided weapons

and target acquisitions systems based both on weather and non-weather data.

Also in the eighties, AWS inaugurated weather support to NASA's space shuttle operations; worked on the construction of a Space Forecast Center at Falcon AFB, Colorado; and sought to secure manifesting for a weather officer on a space shuttle mission. And, although the decade of the eighties did not see U.S. involvement in a war, AWS participated in a number of contingencies including URGENT FURY, the Grenada invasion in October 1983; ELDORADO CANYON, the 1986 air strike against Libya to deter international terrorism; and JUST CAUSE, the military intervention in Panama to reestablish a democratic government. Air Weather Service participated in the prominent 1990-1991 contingency, Operation DESERT SHIELD/DESERT STORM, which drove Iraqi forces out of Kuwait.

A new era began in Air Weather Service history on Apr. 1, 1991 as the Air Force terminated AWS's 45-year status as a subordinate organization of the Military Airlift Command and made it a field operating agency. As a FOA, the Air Weather Service reports directly to the Air Staff through a Directorate of Weather in the Office of the Deputy Chief of Staff for Air and Space Operations. As the oft-used phrase "history often repeats itself" suggests, this new organizational alignment restored AWS to a position similar to that which it possessed prior to becoming part of Air Transport Command in 1946.

Now, with reengineering efforts, Air Force Weather once again embarks upon a time of organizational and operational change to better tailor support to our nation's warfighters. The men and women of the Air Weather Service can justly consider their heritage a rock-solid base upon which to build the future Air Force Weather. Air Weather Service's "60 Years of Success" will serve as a solid foundation in "Forging a Proud Future."



The Air Weather Service Anniversary coin was designed to commemorate 60 years of Air Force Weather progress, service and excellence. It was released for sale on the organization's anniversary date July 1, 1997.

HISTORY LIGHTS T

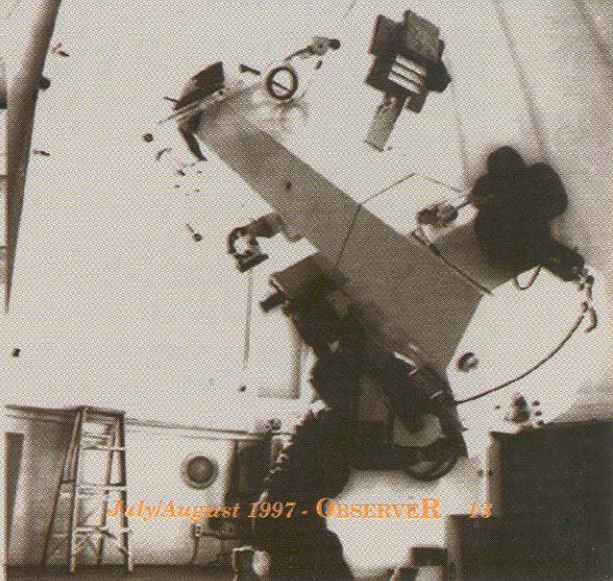
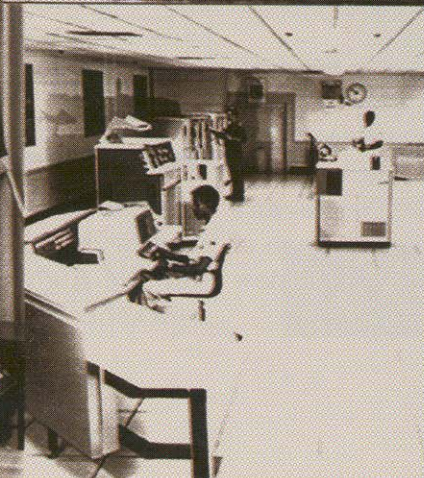
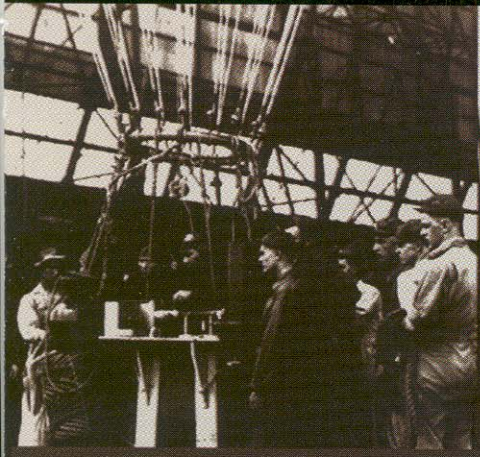
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1. Circa 1937 - Capt. Randolph P. "Pinkie" Williams. Williams is generally known as the "Father of Air Weather Service."
2. 1935 - Captains "Pinkie" Williams and Orvil Anderson prepare for substratospheric flight at Scott Field, Ill.
3. Circa 1936 - 1st. Lt. Thomas S. Moorman, II. Moorman, at the rank of brigadier general, was appointed as the Air Weather Service Commander Apr. 23, 1954.
4. 1954 - 53rd Weather Squadron members (left to right): aircraft commander Capt. Francis E. Wilson; pilot Capt. Charles W. Fleischer; Dr. Robert H. Simpson; and world-renowned journalist Edward R. Murrow stop for a photograph in front of a 53rd Weather Recon Squadron WB-29.
5. 1956 - Air Weather Service "WAFS" prepare to launch a weather balloon.
6. "A weather technician takes a surface observation with a TMQ-34, tactical meteorological system (TMOS), sensing winds, temperature, dewpoint and atmospheric pressure."
7. 1968 - (left to right) Sgt. Alton D. Keel, Jr, Sgt. Gary R. Nunns and Capt. Dennis C. Moreno of the 5th Weather Squadron pose in front of a weather bunker at Landing Zone Baldy, Republic of Vietnam, while supporting the 1st Calvary Division.
8. 1994 - Staff Sgt. Jon Hubble prepares to launch a helium weather balloon while supporting the 314th Marine Science Technician (MST) Weather Station in Mogadishu, Somalia.
9. 1996 - Forecaster Staff Sgt. Tom Cardinal, Det. 2, 617th Weather Squadron, Hanau, Germany, prepares a weather bulletin via a secure data line in support of Operation Joint Endeavor at Tuzla AB, Bosnia.
10. Circa 1940's - A technician gives a telephonic weather briefing while annotating data onto a log sheet.
11. Circa 1960 - A commander views an early closed-circuit weather broadcast.
12. 1969 - Operators work at the Automated Digital Weather Switch at Carswell AFB, Texas.
13. 1963 - A technician operates equipment in support of the Apollo IV mission.

Photos courtesy of Air Weather Service History Office

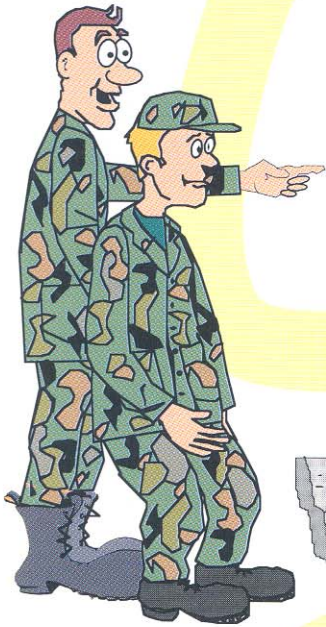


THE WAY TO TRUTH



Another method is to start daily discussions with a quick talk on how yesterday's forecast worked out, focusing on the meteorological whys and why nots. What kind of mistakes are station personnel prone to? Was the forecasting too optimistic last year during the transition to winter? If so, without wise use of select metrics, you can bet it will be again this year.

Insist written forecast reviews contain a lesson learned. Circulate the review, with attached comments from leadership. Jot down those sensible tips from your veteran folks whenever you get them, and refer to them for your next Local Analysis and Forecast Program update. Don't forget the observers. They can provide valuable short term forecasting tips based on how they've seen events unfold in



relevant factors. Teamwork means station leaders are in the heat of it during weather, actually pitching in with production as well as leading the charge. This adds credibility to unit guidance too.

Another integral part of teamwork is discipline. Nothing saps teamwork like inconsistently enforced standards or standards that are not enforced at all. Not only must folks know how to conduct a disciplined METWATCH and analysis routine, they must do it every day. People can't get in the habit of requesting PIREPS the day before Stan-Eval arrives. They have to know it by heart. The same principle goes for loading continuity before doing the analysis or for checking surrounding stations' observations periodically.

Finally, perseverance is a common trait of the successful weather leaders. They don't give up at the first obstacle to reaching a goal and then write a memo for record explaining why the goal can't be met. They move the obstacle, or find a new path, or discover a suitable substitute. They are insistent. When it's important to the mission or to the people in the unit, the successful leader is, at times, even a little confrontational. Remember, you can move organizational mountains just by "not going away" with your concerns.

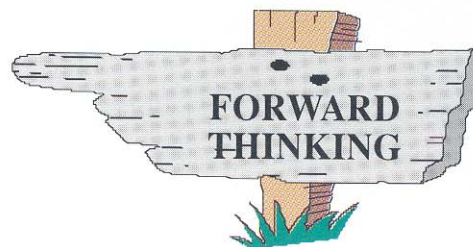
Well, that's hardly a complete list of everything I've seen done well out on my visits, but if it helps even one NCO or airman, I've spent my time well. Thanks for yours.



the past. That's teamwork, perhaps the most critical common denominator of superior weather units.

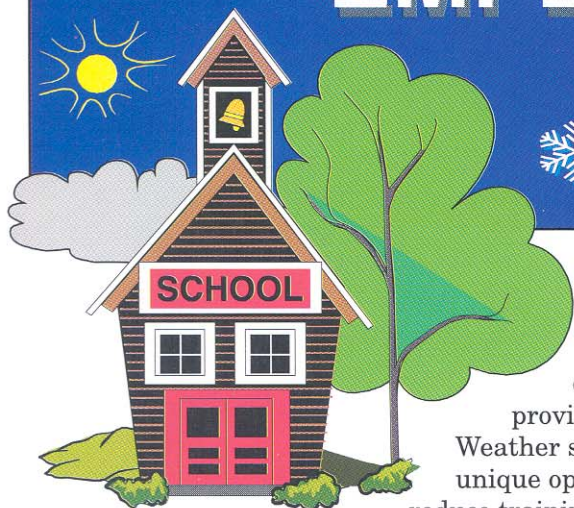
Recently, during an evaluation at Camp Humphreys, I heard an evaluator say, "they really work together well here, isn't this great." I had to agree. The unit displayed an uncanny cohesion. Our evaluation checklist contains more than 200 items and the Camp Humphreys team nearly aced the evaluation as a result of teamwork. There are many good ways to foster a group effort in a weather station. Here are a few things to keep in mind.

Does the observer help out with the METWATCH of the forecast and the flimsy, or do a quality check on the code before it is sent? Have observers been taught to take requests for flight briefings? With teamwork, forecast discussions are just that — discussions. Through steering by technical leaders, discussions can provide a two-way means of communication that fosters teamwork and keeps the discussion from straying from



WEATHER SCHOOLHOUSE EMPLOYS DISTANCE LEARNING

*Contributed by: Capt. Chris Donahoe, Scott Gibbins and Dennis Spurlin
Supplemental Weather Courses, Weather Training Flight, Keesler AFB, Miss.*



Mandated operational cost reduction efforts have provided the Weather schoolhouse a unique opportunity to reduce training costs and make training available to more people worldwide. Operational cost constraints, which also make it difficult for weather units to send members to attend courses in residence, are now being overcome through an innovative approach by members of the Weather Schoolhouse who are exploring Distance Learning (DL) technologies as a remedy to high-cost training options. "We now have an opportunity to increase the number of students trained and, at the same time, reduce the impact on the operational units," said Maj. Michael Babcock, commander of the Weather Training Flight.

Interactive Video Teletraining — Something New at the Weather School

The Air Education and Training Command has already realized a savings through the use of satellite communications. They have invested in a program called Interactive Video Teletraining with each base maintaining a downlink classroom at the Base Education Office. Each down-link site should have a Job Site Training Point of Contact or a site monitor available to answer IVT-related questions, including signing up for a class.

Within the last few years, AETC bases began broadcasting classes from up-link studios that provide one-way video to each student and two-way audio for interaction between student and instructor. IVT adds

yet another dimension to the methods of remote instruction, but one that provides a direct, real-time, two-way interface with an instructor.

Distance Learning media include student training literature, along with Interactive Courseware products, videotape, and World Wide Web applications. Choosing the appropriate medium for a unit of instruction is critical and depends on the topic and level of training required. "That is why we must move into this technology with caution," said Dennis Spurlin, Supplemental Course instructor. "Some performance topics require an 'over-the-shoulder' approach to training and must be done in residence. Conversion should not be at the expense of the standard of instruction, nor at the level of support that we, the weather school, provide to the field."

Governed by this precept, the Supplemental Weather Element, with the support of base agencies, contractors, and volunteers from other Weather Training Elements, has converted the supplemental course Environmental Support for Electro-Optical Systems to a complete distance media presentation.

EO Distance Learning

This new EODL course went on-line during the fourth quarter of FY97. "Resident and mobile training team classes scheduled for that quarter were canceled and replaced with the new course," said Captain Chris Donahoe, Officer-in-Charge of Supplemental Weather Courses. "We began the development of a DL version of the electro-optics course for two reasons. Primarily,



it gets the Weather Training Flight involved in the process of what will be the "way of the future" for training. Secondly, it gives us a role in the establishment of the structure and procedures that AETC will implement for this technology. We want this new technology to be forecaster-friendly, to accommodate the scheduling challenges that face small units, and to be flexible enough for a joint service environment," said Donahoe.

The goal of the EODL conversion is to continue to provide the same level of support. The topics in the DL course will continue to be taught to the same level of instruction as was taught in the old residence course. The new course is divided into six modules. There are two separate ICW products that require each student to use a multi-media computer with a sound card and a monitor capable of supporting 800 by 600 screen resolution and at least 256 colors.

Each student will be scheduled for two four-hour IVT sessions at the nearest downlink classroom. In some cases, especially with the Navy and Marine Corps, students may be required to travel a short distance to the nearest downlink site.

"IVT gives us an opportunity to use tomorrow's classroom today," said Scott Gibbins, Instructor,

of the principles of a topic. The modular design facilitates development and maintenance of the course.

All AETC training is currently under consideration for application of DL technologies. At present, we have no tasking to convert other weather courses. However, as forecasting becomes more automated, additional over-the-shoulder training may be converted to DL.

This teaching method doesn't just save money, it offers many other advantages. It can provide a standard level of instruction that is visible to the field. Supervisors will also be able to review course products and make informed comments, but they will not be required to conduct training. All students will be able to contact the Keesler AFB instructor assigned to them throughout the duration of the class. Supervisors need only ensure that sufficient time is allowed to complete training.

Since supervisors have more flexibility and control to schedule training integrated with duty time, it is to their advantage. In fact, two or three members of a unit may be trained with less cost and duty impact than is currently sustained by sending one member TDY for training.

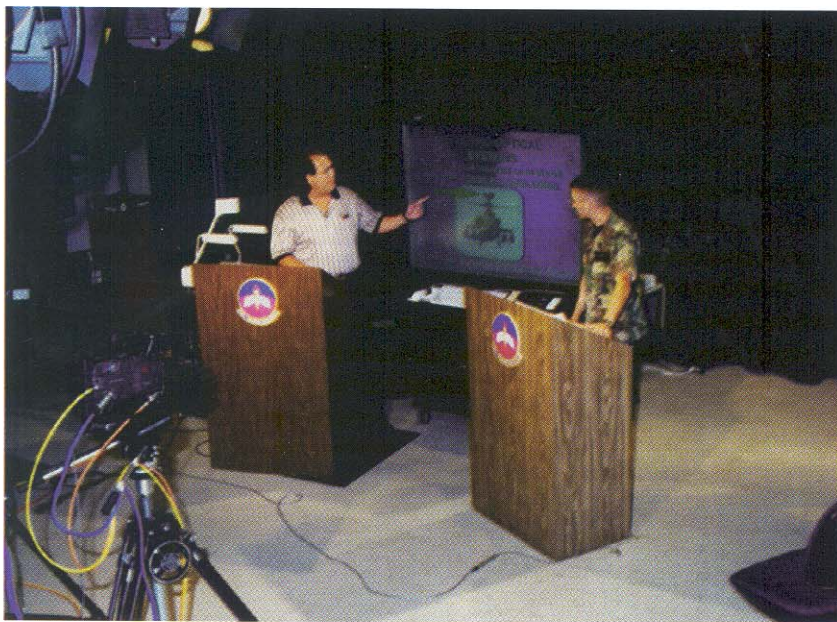
Not a Cure-all

This new technology will not solve all training needs. It does, however, provide a way to extend Schoolhouse resources to more students. It will not reduce the workload for the instructors at the Schoolhouse. Stand-up lectures are being replaced with individualized assistance by telephone and email. In addition, DL products must be managed, maintained, and distributed. This process involves coordination to prepare and equip each class, to provide services at the downlink classrooms, and to track student progress. Supervisors in the field will need to understand the training media and integrate study time into the duty schedule. In return they will have more flexibility to manage their resources to reduce the impact of training.

Of course, a new method of training will initially add a few speed bumps to the training highway, but the more information supervisors and students have about the conversion, the smoother the road will be.

For more information on the new EODL course and other courses available from Supplemental Weather, visit their homepage at:

<http://www.kee.aetc.af.mil/334trs/weather/supple>.



"Instructors Ed Ring (left) and Capt. Chris Donahoe conduct a video teletraining course via satellite communications. The instruction method reduces operational costs and allows more students to "attend" the class." U.S. Air Force photo

Supplemental Weather Courses. "We are able to combine text, graphics, and state-of-the-art animations, giving the instructor total control of the lesson flow." As solutions to interoperability are implemented, these classrooms will extend to all branches of the service and even out-to-sea. The course also has two videotaped modules which is an effective way to convey knowledge and understanding

MOORMAN PRESENTS MOORMAN

Historic Ceremony Honors Theater Weather Flight

by Maj. Scott C. Van Blarcum, Executive Officer, Air Force Directorate of Weather

HISTORY WAS MADE

July 9, 1997, as the 24th Weather Squadron, Theater Weather Flight, Howard AFB, Panama, was awarded the 1996 Moorman Award during ceremonies at the Pentagon. The unprecedented event marked the first time General Thomas S. Moorman, Jr., Vice Chief of Staff of the Air Force and his father, Lt. Gen. (retired) Thomas S. Moorman, Sr., were in attendance for presentation of the award named in honor of the senior Moorman.

The Moorman award was established in 1962 in honor of Lt. Gen. Moorman who served as the commander of Air Weather Service from 1954 to 1958. The award, presented each year to the most outstanding Air Force weather unit providing specialized weather or space environmental support, went to the U.S. Southern Command's 24 WS/WSS for

meteorologist throughout the world supporting Army and Air Force operations, has continued to be an ardent supporter of Air Force Weather over the years.

The award citation from the Commander in Chief, USSOUTHCOM recognized the 24 WS/WSS for performing a demanding mission as the operational-level weather organization for all DoD and US governmental agencies operating in 19 Latin American countries. The citation characterized the unit as a "truly joint operation, which expertly integrated weather intelligence into every aspect of theater command and control and made weather a force multiplier." The integration was critical to the success of combined counter drug Operation LASER STRIKE and directly contributed to the force-down or destruction of 31 narcotic-trafficking aircraft and to the seizure of 80 metric tons of cocaine.

Representing USSOUTHCOM, Brig. Gen. Mark Schmidt, Commander, 24th Wing, Howard AFB, Panama, accepted the award from the vice chief of staff on behalf of the members of the 24 WS/WSS. He noted the important role

weather forecasting played in accomplishing missions over a large geographical area containing diverse weather activity. "Weather forecasting is vital to the USSOUTHCOM mission because divert bases can be as much as 100 miles away," he said. He defined forecasting as "invaluable" (to the mission) and lauded the award recipients for a 90% accuracy rate during 1996.

After the official ceremony, Brig. Gen. Fred P. Lewis, Air Force Director of Weather, presented the senior Moorman a set of meteorological badges representing the basic, senior, and master meteorologist. Brig. Gen. Lewis followed the presentation by "pinning" the master meteorologist badge onto Moorman's lapel.

It was indeed an honor to have the Moormans preside over a truly historic event. The ceremony, which honored both the past and the present, was a grand event which allowed participants to trace a continuum of outstanding weather support from the days of the Army Air Force to the present-day award winner's accomplishments some 60 years later. Air Force Weather congratulates the 24 WS/WSS and all of the Air Force Weather award winners for outstanding commitment to realizing the Air Force Weather vision to be the operators' and warfighters' weather supplier of choice!



(Left to Right) Brig. Gen. Mark Schmidt, Gen. Thomas S. Moorman, Jr., Lt. Col. Kevin Johnston, Capt. Peter Broll and Tech. Sgt. Kenneth Phelps participate in the Moorman Award presentation ceremony at the Pentagon July 9, 1997. U.S. Air Force photo

their outstanding support to the unified command during 1996.

The vice chief of staff opened the award ceremony by reminiscing about his father's tour in Japan, where part of his father's job included naming "typhoons" in the Pacific. During the award proceedings, the senior Moorman talked about his love for weather and his continued support for weather throughout his life. Lt. Gen. Moorman, who served in many positions as a



Brig. Gen. Fred P. Lewis (left) presents a set of meteorological badges to retired Lt. Gen. Thomas S. Moorman in honor of Moorman's staunch support of Air Force Weather throughout his active-duty career and subsequent retirement years. U.S. Air Force photo

What's **YOUR** Most Memorable Weather **STORY?**

Editors Note: What's YOUR most memorable weather story? We'd like to hear your most interesting, amusing, or unique weather stories. Keep the story short – no more than a few medium-length paragraphs. Names need not be used, although a specific or general geographic location would be appreciated. Also, include the year of the event. You may remain anonymous or have your name printed.

Naturally, keep your story within the realms of good taste – no off-color or risqué stories, please! Send your submissions via e-mail to: "observer@hqaws.safb.af.mil"

or to "gjulianr@hqaws.safb.af.mil" or fax them to DSN: 574-5401 (commercial 618-256-5401). If you don't have e-mail or fax capability, mail them to HQ AWS/PA, 102 w. Losey St., Rm. 105, Scott AFB, IL 62225-5206.

We won't promise your story will be used, and if it is, we reserve the right to edit it to conform to Air Force editorial standards.

So, that said, have fun! Dig through those memories and drop us a line. Meanwhile enjoy some of the following stories from your Air Force Weather colleagues.

We were on a C-12 flying west (to Offutt AFB I believe). Somewhere over North Central Missouri we encountered a strong cold front moving through the midwest. Now, I've flown quite a bit and have encountered my share of turbulence and I've even been through a spin, but what we hit for the next forty-five minutes that day was intense.

The aircraft weather radar was inop or non-existent. The aircraft was rolling, falling, twisting and performing every combination of moves. Our heads were making contact with the windows and seats depending upon which way the wind was going. After some very uncomfortable moments, the Air Weather Service commander, who happened to be on board, asked to use the radio to talk to the McConnell AFB Weather Station via PMSV. So there we were, getting beat up with turbulence and our crew trying to take us out of our dilemma with guidance from the BWS as to where the storms and fronts were the strongest.

I don't know if McConnell BWS ever knew who they were talking to on the PMSV and I don't know if we ever gave them a formal PIREP, but (whatever they told the crew) worked! It was good to have a weather shop on the other end of the radio.

I knew at that point, (sitting in that aircraft), that sitting in a weather station, safe and secure, makes it difficult to always comprehend the support you provide and how critical that support can be.

I was a 1st lieutenant at Ft. Knox, Ky., under the tutelage of one TSgt John Slaby, a person to this day I would swear had an innate sense when it came to severe weather.

I came in to work one morning in April and he proceeded to tell me we would have severe thunderstorms with possible (or likely) tornadoes that afternoon. When his shift ended, he wouldn't go home – he wasn't going to let anyone back away from that forecast!

Slaby was producing a LAWG hourly and we could see the warm moisture jet coming up from the Gulf as the strong cold front entered Illinois. What a classic situation! Every possible indicator was there – the Skew-T indices, the upper level support, etc. We shut down flying and I got control of the ground control approach radar to track the approaching squall line. The first one hit at noon and gave us moderate thunderstorms.

A couple of hours later, the next one hit – severe all right! I tracked the cells moving at 60 kts in the line and the line itself moving at nearly 40 kts. The TROP was 55Kft and the tops were 70Kft — I saw a classic hook return.

We had the leadtime – the sirens blew, they released everyone and a massive traffic jam ensued.

Just outside the base, 17 people died when a tornado hit Brandenburg, Ky. The next day, I went into the community to see if anyone picked up the reported large hail. I still have pictures of the three and one-half inch hail with the graupel rings clearly visible.

That was the super-outbreak of tornadoes, April 3 and 4, 1974.

SALUTES from Around the World

AIR FORCE WIDE WEATHER SELECTS

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Peter J. Broll	Jeffery R. Linskens	John B. Knowles	Philip J. Reding	John S. Shattuck
Ricardo C. Davila	Jeffery B. Lorens	Brian A. Maves	Vincent T. Ries	Dawn L. Stewart
Kathlene R. Dowdy	Patrick P. Ludford	David A. Miller	Stephen J. Romolo	Mary A. Walkerirvin
Fredrich L. Fahlbusch	Terence J. Given	Mark B. Miller	Peter B. Roohr	Brian R. Waranauskas
Robert J. Falvey	Robert E. Hardwick	Mark A. Mitchell	Robert L. J. Russell	Matthew R. Williams
Michael R. Farrar	Scot T. Heckman	Charles A. Pappas	Mark L. Schrader	Curtis M. Winstead

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Amando Azua, Jr.	Timothy W. Dunman	Derrick D. Gurley	John Jones	Ernest G. Samuel, Jr.
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Richard L. Bertram	Robert G. Fournier	Shawn M. Hannah	Matthew K. Lee	Shawn T. Verrill
Christopher Blanch	Jeffrey T. George	Wayne R. Hardesty	Lili D. Llanas	Channil Weinmeister
Floyd A. Brown	Jon P. Glenn	Phillip N. Hardin	Raymond A. J. Miller	Richard C. Wright
Duane H. Bruce, Jr.	Louie Gonsalves	Gregory S. Healy	Melissa K. Murphy	John Zanifardino

MERITORIOUS SERVICE MEDAL

Senior Master Sgt. Lawrence J. Alexander, OL-A 18th WS, Ft. Belvoir, Va.
 Senior Master Sgt. Rich Gideons, 18th WS, Ft. Bragg, N.C.
 Maj. Randy Thomas, 18th WS, Ft. Bragg, N.C.
 Capt. Stephen Romolo, 31st OSS/OSW, Aviano AB, Italy
 Master Sgt. Dale Williamson, 31st OSS/OSW, Aviano AB, Italy
 Senior Master Sgt. Jeff Fluegge, 25th ASOS, Wheeler AAF, Hawaii
 Master Sgt. Mike Nelson, 25th ASOS, Wheeler AAF, Hawaii
 Master Sgt. Marvin Million, Det. 5, 7th WS, Katterbach, Germany
 Capt. Mark Schrader, 20th ASOS, Fort Drum, N.Y.
 Capt. Steve McMillan, 46th WS/CCS, Eglin AFB, Fla.
 Master Sgt. Milton G. Kooyman, Jr., 3rd Weather Squadron, Fort Hood, Texas
 Master Sgt. Samuel Carter, HQ AMC Tanker Airlift Control Center

AIR FORCE COMMENDATION MEDAL

Staff Sgt. Tom Hakes, Det. 2, 7th WS, Hannau, Germany
 Staff Sgt. Thomas Wenger, Det. 7, 7th WS, Grafenwoehr, Germany
 Staff Sgt. Angela Uribe-Olsen, 16th OSS, Hurlburt Field, Fla.
 Capt. Layne E. Kasper, 47th OSS/OSW, Laughlin AFB, Texas
 Senior Airman Scott M. Maier, 46th WS, Eglin AFB, Fla.
 Tech. Sgt. Gordon Girvin, 62th OSS/OSW, Mchord AFB, Wash. 4th OLC)
 Staff Sgt. Shane Castle, 62th OSS/OSW, Mchord AFB, Wash. (1st OLC)
 Tech. Sgt. David J. Oginski, 209th WF, Austin, Texas
 1st Lt. Neil Sanger, 51st OSS/OSW, Osan AB, Korea
 Staff Sgt. David Gray, A-Flight, 7th WS, Heidelberg, Germany
 Staff Sgt. Charles Bloodworth, Det. 4, 7th WS, Traben Trarbach, Germany
 Staff Sgt. Thomas Wenger, Det. 7, 7th WS, Grafenwoehr, Germany
 Staff Sgt. Gary N. Shaw, 12th OSS/OSW, Randolph AFB, Texas
 Staff Sgt. Brent Baker, 27th OSS/OSW, Cannon AFB, N.M.
 Staff Sgt. Andrew J. Grimm, 51st OSS/OSW, Osan AB, Korea
 Staff Sgt. Scott Bawek, HQ AFGW/PA, Offutt AFB, Neb.
 Staff Sgt. Joseph Cruz, HQ AFGW/PA, Offutt AFB, Neb.

ARMY COMMENDATION MEDAL

Staff Sgt. Jimmy R. Odom, 12th OSS/OSW, Randolph AFB, Texas

JOINT SERVICE COMMENDATION MEDAL

Maj. Lori Pope, Det. 4, 7th WS, Traben Trarbach, Germany

JOINT SERVICE ACHIEVEMENT MEDAL

Senior Airman Amy Whiteman, 16th OSS, Hurlburt Field, Fla.
 Lt. Col. William Burnette, HQ 7th WS, Heidelberg, Germany
 Maj. Kenneth Smith, HQ 7th WS, Heidelberg, Germany

AIR FORCE ACHIEVEMENT MEDAL

Senior Airman Johnnie L. Church, 47th OSS/OSW, Laughlin AFB, Texas

Senior Airman Angela Zepher, 16th OSS, Hurlburt Field, Fla.
 Senior Airman Jeffrey M. Cerza, 46th WS, Eglin AFB, Fla.
 Airman 1st Class Darin L. Berndt, 46th WS, Eglin AFB, Fla.
 Staff Sgt. Andrew J. Grimm, 12th OSS/OSW, Randolph AFB, Texas
 Tech. Sgt. William Andrus, 16th OSS, Hurlburt Field, Fla.
 Staff Sgt. Dan Nelson, 62th OSS/OSW, Mchord AFB, Wash.
 Tech. Sgt. Ramon Salmon, 62th OSS/OSW, Mchord AFB, Wash.
 Senior Airman Denzor Richberg, 62th OSS/OSW, Mchord AFB, Wash.
 Tech. Sgt. Katherine A. Zupan, OL-A 18th WS, Ft. Belvoir, Va.
 Staff Sgt. Michael E. Williams, AIN, Yongson, Korea
 Senior Airman Sara L. Peterson, 31st OSS/OSW, Aviano AB, Italy
 Master Sgt. Dale Williamson, 31st OSS/OSW, Aviano AB, Italy
 Airman 1st Class Angela Carter, 51st OSS/OSW, Osan AB, Korea
 Staff Sgt. Jeremy A. Entwistle, Det. 1, 7th WS, Bad Kreuznach, Germany
 Senior Airman Eno Maura, Det. 4, 7th WS, Traben Trarbach, Germany
 Senior Airman Michael E. Adkins, 12th OSS/OSW, Randolph AFB, Texas
 Staff Sgt. Kenneth Winston, 46th WS/CCS, Eglin AFB, Fla.
 Senior Airman Troy Kirk (2 Oak-leave Clusters), 46 WS/CCS, Eglin AFB, Fla.
 Senior Airman James Coker, 46th WS/CCS, Eglin AFB, Fla.
 Senior Airman William Eberly, 27th OSS/OSW, Cannon AFB, N.M.
 Airman 1st Class Eric F. McGuire, Det. 5, 7th WS, Katterbach, Germany, received medal from 305th OSS (AMC), McGuire AFB, N.H.
 Staff Sgt. Loren J. Rudd (First OLC), 51st OSS/OSW, Osan AB, Korea
 Senior Airman Patrick S. Hill, 51st OSS/OSW, Osan AB, Korea

ARMY ACHIEVEMENT MEDAL

Staff Sgt. Wanda D. Camacho, OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga.
 Capt. Brian Griffith, Det. 2., 10th Combat Weather Squadron/SOWT, Fort Campbell, Ky.
 Staff Sgt. Travis Longmire, Det. 2, 10th Combat Weather Squadron/SOWT, Fort Campbell, Ky.
 Staff Sgt. Jeff Maytes, Det. 1, 7th WS, Bad Kreuznach, Germany
 Staff Sgt. Jeremy A. Entwistle, Det. 1, 7th WS, Bad Kreuznach, Germany
 Airman 1st Class Gordon Clark, Det. 1, 7th WS, Bad Kreuznach, Germany
 Airman 1st Class Jason McNulty, Det. 1, 7th WS, Bad Kreuznach, Germany
 Airman 1st Class Joel Decker, Det. 1, 7th WS, Bad Kreuznach, Germany
 Airman 1st Class Katherin Anholt, Det. 1, 7th WS, Bad Kreuznach, Germany
 Senior Airman Darrel D. Lankford, Det. 3, 7th WS, Illesheim, Germany
 Staff Sgt. Israel A. Cruz-Colon, Det. 5, 7th WS, Katterbach, Germany

Airman 1st Class Eric Withrow, Det. 7, 7th WS, Grafenwoehr, Germany
 Staff Sgt. William Green, Det. 8, 7th WS, Sandhofen, Germany
 Staff Sgt. Rolando Zbikowski, Det. 8, 7th WS, Sandhofen, Germany
 Staff Sgt. Richard McCarthy, Det. 8, 7th WS, Sandhofen, Germany
 Airman 1st Class Brian Hankey, Det. 8, 7th WS, Sandhofen, Germany
 Senior Airman Tim Sawyer, Det. 9, 7th WS, Hohenfels, Germany
 Airman 1st Class Scott Radden, Det. 9, 7th WS, Hohenfels, Germany
 Senior Airman A Jason M. Davis, OL-A, 18th WS, Fort Belvoir, Va.
 Senior Airman Les Rouell, Dragon Flight, 18th WS, Fort Bragg, N.C.
 Airman 1st Class Cory Lane, Dragon Flight, 18th WS, Fort Bragg, N.C.

GOOD CONDUCT MEDAL

Senior Airman John A. Rosario, OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga.
 Senior Airman Keith A. Verdi, OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga.
 Senior Airman Lakisha A. Burton, 24th WS, Howard AFB, Panama
 Senior Airman James Durio, 24th WS, Howard AFB, Panama
 Airman 1st Class Darin L. Berndt, 46th WS, Eglin AFB, Fla. (1st OLC)
 Senior Airman Jennifer C. Perey, 46th WS, Eglin AFB, Fla. (1st OLC)
 Staff Sgt. Kenneth B. Winston, 46th WS, Eglin AFB, Fla. 4th OLC)
 Senior Airman Kenny Sutton, 3rd OSS/WE, Elmendorf AFB, Alaska
 Staff Sgt. Michael L. Allstott, HQ AFGWC, Offutt AFB, Neb.
 Staff Sgt. Dennis M. Casteel, 3rd ASOS, Fort Wainwright, Alaska
 Tech. Sgt. Edward D. Coleman, HQ AFGWC, Offutt AFB, Neb.
 Tech. Sgt. Edward Czopkiewicz, HQ AFGWC, Offutt AFB, Neb.
 Tech Sgt. John A. Diorio, HQ AFGWC, Offutt AFB, Neb.
 Senior Airman Roges J. Druhet IV, HQ AFGWC, Offutt AFB, Neb.
 Senior Airman Paul R. Larsen, HQ AFGWC, Offutt AFB, Neb.
 Senior Airman Rebecca L. Ramirez, HQ AFGWC, Offutt AFB, Neb.
 Master Sgt. Douglas A. Rishel, HQ AFGWC, Offutt AFB, Neb.
 Staff Sgt. Dale E. Slider, HQ AFGWC, Offutt AFB, Neb.
 Staff Sgt. Warren Tolkinson, 3rd ASOS, Fort Wainwright, Alaska
 Senior Airman Pamela Detour, 3rd ASOS, Fort Wainwright, Alaska
 Senior Airman Hilton R. Wells, 3rd ASOS, Fort Wainwright, Alaska
 Senior Airman Clint Dobry, 3rd ASOS, Fort Wainwright, Alaska
 Staff Sgt. Dale E. Slider, HQ AFGWC, Offutt AFB, Neb.

LONGEVITY MEDAL

1st Lt. Joe Bason, Det. 2, 10th Combat Weather Squadron/SOWT, Fort Campbell, Ky.
 Senior Airman Shannon Flowers, 3rd ASOS, Fort Wainwright, Alaska
 Senior Airman Antonio Pressley, 3rd ASOS, Fort Wainwright, Alaska

ARMED FORCES EXPEDITIONARY MEDAL

Senior Airman David M. Fischer, 325th OSS/OSW, Tyndell AFB Fla.
 Senior Airman Randy Hughes, 325th OSS/OSW, Tyndell AFB Fla.

AIR FORCE EXPEDITIONARY MEDAL

Senior Airman Shannon Flowers, 3rd ASOS, Fort Wainwright, Alaska.
Senior Airman John Lawless, 3rd ASOS, Fort Wainwright, Alaska

US ARMED FORCES SERVICE MEDAL

Senior Airman Antonio Pressley, 3rd ASOS, Fort Wainwright, Alaska
Senior Airman Clint Dobry, 3rd ASOS, Fort Wainwright, Alaska

NATO MEDAL

Senior Airman Randy Hughes, 325th OSS/OSW, Tyndell AFB, Fla.
Senior Airman Todd Morris, 325th OSS/OSW, Tyndell AFB, Alaska
Senior Airman Curtiss K. Akim, 195th WF, Channel Island ANGB, Calif.
Lt. Col. William Burnette, HQ 7th WS, Heidelberg, Germany
Maj. Kenneth Smith, HQ 7th WS, Heidelberg, Germany
Maj. David E. Landers, Det. 1, 7th WS, Bad Kreuznach, Germany
Master Sgt. Todd Barrett, Det. 1, 7th WS, Bad Kreuznach, Germany
Staff Sgt. Jeff Maytes, Det. 1, 7th WS, Bad Kreuznach, Germany
Staff Sgt. Jim Graefe, 51 OSS/OSW, McGuire AFB, N.J.
Senior Airman Rafael Pavvoski, 51 OSS/OSW, McGuire AFB, N.J.
Senior Airman Shannon Flowers, 3rd ASOS, Fort Wainwright, Alaska
Senior Airman Antonio Pressley, 3rd ASOS, Fort Wainwright, Alaska
Senior Airman Clint Dobry, 3rd ASOS, Fort Wainwright, Alaska

KUWAIT LIBERATION MEDAL

Staff Sgt. John Weber, OL-B 18th WS, Ft. Eustis, Va.
Senior Master Sgt. David Jenkins, Det. 9, 7th WS, Hohenfels, Germany
Tech. Sgt. Brad Medlin, Det. 5, 7th WS, Katterbach, Germany

PROMOTIONS

Jeffrey R. Hedges, 127th WF, Topeka, Kan.
David G. Montgomery, 204th WF, McGuire AFB, N.J.
Mark A. Clausen, 203rd WF, Fort Indiantown, Gap, Pa.
Richard H. Grumm, 203 rd WF, Fort Indiantown, Gap, Pa.
John F. Hanavan II, 202nd WF, Otis ANGB, Mass.
Stephen Logobardi, 159th WF, Camp Blanding, Fla.
James D. Miller, 207th WF, Indianapolis, Ind.
Martin C. Nehring, 195th WF, Channel Islands, Calif.
Scott A. McMillin, 120th Buckley ANGB, Colo.
Galo Nieves, Jr., 159th WF, Camp Blanding, Fla.

Bruce G. Shapiro, Det. 3, 7th WS, Illsheim, Germany

Nicole M. Pendley, 46th WS/CCS, Eglin AFB, Fla.

Ronald D. Cloninger, 156th WF, Charlotte, N.C.
Narriman Sheridan, 131st WF, Westfield, Mass.
Tagg A. Timm, 31st OSS/OSW, Aviano AB, Italy
Kelly B. Doser, Det. 5, 7th WS, Katterbach, Germany
Steven E. Vilpors, OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga.

Ronald C. Mueller, OL-C 18th WS, Ft. Knox, Ky.

Gerry Claycomb, HQ 7th WS, Heidelberg, Germany
Charles Vinson, Det. 10, 7th WS, Giebelstadt, Germany

Larry D. Beck, 181st WF, Dallas, Texas
Donald M. Coash, 127th WF, Forbes Field, Kan.
David Oetting, 31st OSS/OSW, Aviano AB, Italy
Tom Hoffman, ALCOM/ANR/11th AF
Jeffery Rosbach, 51st OSS/OSW, Osan AB, Korea
Deborah J. Williams-Mitchell, 46th WS, Eglin AFB, Fla.
Derrick R. Brown, 62nd OSS/OSW, Mchord AFB, Wash.
Stephen McConnell, 30th WS, Vandenberg, Calif.
Raul Loyo-Rodriguez, 47th OSS/OSW, Laughlin AFB, Texas
Phillip W. Watts, OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga.

Gary Eshelbrenner, 120th WF, Buckley ANGB, Colo.
Dennis C. Rittle, 110th WF, St. Louis, Mo.
Theodore Prichard, Det. 3, 7th WS, Illsheim, Germany
Rodger Smith, Det. 6, 7th WS, Wiesbaden, Germany

Karl Kleinbeck, Det. 10, 7th WS, Giebelstadt, Germany
Patrick Barcelona, 62th OSS/OSW, Mchord AFB, Wash.
John M. Edwards, HQ AMC Tanker Airlift Control Center, Scott AFB, Ill.

Robert E. Toner, 341st OSS/OSW, Malmstrom AFB, Mont.
Tom Hakes, Det. 2, 7th WS, Hanau, Germany
Charles Hoffman, Det. 10, 7th WS, Giebelstadt, Germany
Wayne Hardesty, 51st OSS/OSW, Osan AB, Korea
Marc Gahagan, 18th WS, Ft. Bragg, N.C.
Christopher Smoke, OL-B 18th WS, Ft. Eustis, Va.
David Hanck, Davis-Monthan AFB, Arizona

John H. Millen, 210th WF, Ontario, Calif.
Clinton N. West, 110th WF, St. Louis, Mo.
Miron T. Whitmore, 104 WF, Baltimore, Md.
Paul A. Wilkerson, 154th WF, Little Rock, Ariz.
Stacey Branch, 25th ASOS, Wheeler AAF, Hawaii
Michael McConahay, 51st OSS/OSW, Osan AB, Korea
Troy Misiak, 51st OSS/OSW, Osan AB, Korea
Jason S. Blackerby (BTZ), A-Flight, 7th WS, Heidelberg, Germany
Timothy Sawyer (BTZ), Det. 9, 7th WS, Hohenfels, Germany
Farrell Brassell, 12 OSS/OSW, Randolph AFB, Texas
Darin Berndt, 46 WS/CCS, Eglin AFB, Fla.
John P. Rogers, 20th OSS, Fort Drum, N.Y.
Angela Gregoire, 51st OSS/OSW, Osan AB, Korea
Angela A. Carter (BTZ), 51st OSS/OSW, Osan AB, Korea
Keith A. Verdi, OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga.
Kelly Quелlette, 16th OSS, Hurlburt Field, Fla.
Teresa A. Gatling, 46th WS, Eglin AFB, Fla. (BTZ)
Christopher T. Reddington, 12th OSS/OSW, Randolph AFB, Texas

Rodney Menezes, 30th WS, Vandenberg, Calif. (BTZ)
Rocco Minetti, 62th OSS/OSW, Mchord AFB, Wash.
Jason M. Davis, OL-A 18th WS, Ft. Belvoir, Va.
Jennifer Mooney, 18th WS, Ft. Bragg, N.C.
Barry W. Brooks, 412th OSS/OSW, Edwards AFB, Calif.
Roderick Buen, Davis-Monthan AFB, Arizona
Joseph Ellis, Davis-Monthan AFB, Arizona
Christopher Sevin, Davis-Monthan AFB, Arizona

Gerry Q. Thompson, A-Flight, 7th WS, Heidelberg, Germany
Joy Donath, Det. 3, 7th WS, Illsheim, Germany
Adrian L. Freeman, Det. 5, 7th WS, Katterbach, Germany
Leah Harris, Det. 7, 7th WS, Grafenwoehr, Germany
Sandra Alpers, 97th OSS/DOW, Altus AFB, Okla.
Theodore W. Myers, 46th WS/CCS, Eglin AFB, Fla.
Jason M. Laughlin, 27th OSS/OSW, Cannon AFB, N.M.
Robert B. Clark, 412th OSS/OSW, Edwards AFB, Calif.
Ivett Bezovic, 62th OSS/OSW, Mchord AFB, Wash.
Shannon B. Ahern, 46th WS, Eglin AFB, Fla.
Jeni E. Bullock, 46th WS, Eglin AFB, Fla.
Elizabeth Choquette, OL-B 18th WS, Ft. Eustis, Va.
Daniel A. Crosby, OL-A 18th WS, Ft. Belvoir, Va.
Josh Murray, 3rd OSS/WE, Elmendorf, Alaska
Michael A. Cialini, OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga.
James Funkhouser, OL-B, 18th WS, Fort Eustis, Va.
Kelly Harris, OL-B, 18th WS, Fort Bragg, N.C.

HAILS AND FAREWELLS

Capt. John Bertha - to 31st OSS/OSW, Aviano AB, Italy, from 64th OSS/DOW, Reese AFB, Texas
Tech. Sgt. Ian Bohnen - to 31st OSS/OSW, Aviano AB, Italy, from 437th OSS/OSW, Charleston AFB, S.C.
Senior Airman John Glenn - to 31st OSS/OSW, Aviano AB, Italy, from 437th OSS/OSW, Charleston AFB, S.C.
Capt. Stephen Romolo - to HQ AMC/DOW, Scott AFB, Ill., from 31st OSS/OSW, Tinker AFB, Okla.
Master Sgt. Dale Williamson - to 12th OSS/DOW (AETC), Randolph AFB, Texas, from 31st OSS/OSW, Tinker AFB, Okla.
Senior Airman Wayne Hardesty - to 51st OSS/OSW, Osan AB, Korea, from Wright-Patterson AFB, Ohio
Tech. Sgt. Molly Kruezer - to 51st OSS/OSW, Osan AB, Korea, from Keesler AFB, Miss.
Senior Airman Maria Rollings - to 63rd OSS/OSW, McChord AFB, Wash., from Kelly AFB, Texas
Senior Airman Denzor Richber - to 62nd OSS/OSW, McChord AFB, Wash., from 334th TTS, Keesler AFB, Miss.
Tech. Sgt. Ramon Salmon - to 62nd OSS/OSW, McChord AFB, Wash., from 334th TTS Keesler AFB, Miss.
Tech. Sgt. Gordon Girven - to 62nd OSS/OSW, McChord AFB, Wash., from 334th TTS Keesler AFB, Miss.
Staff Sgt. Karl Kolumban - to 62nd OSS/OSW, McChord AFB, Wash., from 203rd Wx Flt., Ft. Indiantown Gap, Pa.
Senior Airman Michael Ramsay - to Camp Eagle, Korea, from 62nd OSS/OSW, McChord AFB, Wash.
Staff Sgt. Kevin Safreed - to Dover AFB, Del., from 62nd OSS/OSW, McChord AFB, Wash.
Master Sgt. Deborah J. Williams-Mitchell - to 611th OSF (AWOC), Elmendorf AFB, Alaska, from Eglin AFB, Fla.

Staff Sgt. Michael E. Williams - to Yongson AIN, Republic of Korea, from 611th OSF (AWOC), Elmendorf AFB, Alaska
Senior Airman John Carpenter - to USAF Honor Guard, Bolling AFB, Washington, DC., from 16th OSS, Hurlburt Field, Fla.
Staff Sgt. Richard Hollingsworth - to Kunsan AB, Republic of Korea, from 16th OSS, Hurlburt Field, Fla.
Staff Sgt. Kurt Lundberg - to Yongson AB, Republic of Korea, from 16th OSS, Hurlburt Field, Fla.
Senior Airman Tammie R. Carroll - to Forecasting School, from 12th OSS/OSW, Randolph AFB, Texas
Airman 1st Class Dalia Sutton - to 3rd OSS/WE, Elmendorf AFB, Alaska, from 12th OSS/OSW, Randolph AFB, Texas
Tech. Sgt. Harry F. Lind - to 12th OSS/OSW, Randolph AFB, Texas, from 36th OSS/OSJ, Joint Typhoon Warning Center Guam
2nd Lt. Zane G. Marshall - to 12th OSS/OSW, Randolph AFB, Texas, from 65th OSS/OSW, Lajes AB, Azores
Senior Airman Stephen L. Moore - to 12th OSS/OSW, Randolph AFB, Texas, from Forecasting School
Senior Airman Emily Gleason - to 12th OSS/OSW, Randolph AFB, Texas, from prior service civilian status
Senior Airman Jennifer Habberfield - to Kunsan AB, Republic of Korea, from 20th OSS/OSW, Shaw AFB, S.C.
Senior Airman Jeffrey M. Cerza - to 46th WS, Eglin AFB, Fla., from Camp Station, Republic of Korea
Airman William R. Reisner - to 46th WS, Eglin AFB, Fla., from Keesler AFB, Miss.
Senior Airman Jennifer J. Shields - to 46th WS, Eglin AFB, Fla., from Keesler AFB, Miss.
Staff Sgt. David Gray - to Heidelberg AIN, Germany, from 46th WS, Eglin AFB, Fla.
Senior Airman Richard Gagne - to 46th WS, Eglin AFB, Fla., from Misawa AB, Japan
Senior Airman Scott M. Maier - to Keesler AFB, Miss., from 46th WS, Eglin AFB, Fla.
Airman 1st Class Shannon D. Kusajewski - to Luke AFB, Ariz., from OL-A 15th ASOS/ASW, Hunter Army Airfield Ga.
Staff Sgt. Thomas P. Lane - to OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga., from Keesler AFB, Miss.
Senior Airman John R. Rosario - to OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga., from Keesler AFB, Miss.
Senior Airman Angela S. Joy - to OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga., from Wiesbaden AIN, Germany
Staff Sgt. Wanda A. Camacho - to OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga., from Det 9, 7th WS, Hohenfels, Germany
Airman Katrina Janke - to 30th WS, Vandenberg AFB, Calif., from 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Eric Griggs - to 30th WS, Vandenberg AFB, Calif., from 334th Training Squadron, Keesler AFB, Miss.
Airman William Rehkamp - to 30th WS, Vandenberg AFB, Calif., from 334th Training Squadron, Keesler AFB, Miss.
Senior Airman Stephen Ober - to 30th WS, Vandenberg AFB, Calif., from 334th Training Squadron, Keesler AFB, Miss.
Tech. Sgt. Paul Hay - to 30th WS, Vandenberg AFB, Calif., from Eglin AFB, Fla.
Airman Joshua Lewis - to 30th WS, Vandenberg AFB, Calif., from 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Tori Temple - to 30th WS, Vandenberg AFB, Calif., from 334th Training Squadron, Keesler AFB, Miss.
Staff Sgt. April Rousch - to 27th OSS/OSW, Cannon AFB, N.M., from 31st CCS/CYFR, Tinker AFB, Okla.
Senior Airman Lawrence R. Promenchenkle - to 27th OSS/OSW, Cannon AFB, N.M., from Keesler AFB, Miss.
Staff Sgt. Brent B. Baker - to 27th OSS/OSW, Cannon AFB, N.M., from 62nd SPS/SPAP, McChord AFB, Wash.
Staff Sgt. Kirk D. Bailey - to Tinker AFB, Okla., from 27th OSS/OSW, Cannon AFB, N.M.
Airman Philip B. Murphy - to 27th OSS/OSW, Cannon AFB, N.M., from Keesler AFB, Miss.
2nd Lt. Samuel R. Shearer - to 412th OSS/OSW, Edwards AFB, Calif., from Keesler AFB, Miss.
Airman 1st Class Emily A. Drennon - to Illsheim AFB, Germany, from 412th OSS/OSW, Edwards AFB, Calif.
Senior Airman Joeli Godin - from Keesler AFB, to Davis-Monthan AFB, Arizona
Lt. Lynne Berkowitz - from Keesler AFB, Miss., to HQ AMC TACC/XOW
Staff Sgt. Steven Glass - from Tinker AFB, Okla., to HQ AMC TACC/XOW
Senior Airman Jefferey D. Boeckman - from Keesler AFB, Miss., to Edwards AFB, Calif.
Tech. Sgt. Hardy Frey - from Edwards AFB, Calif., to Keesler AFB, Miss.
Tech. Sgt. William J. Simcox - to Fort Campbell, Ky., from OL-C, 18th WS, Fort Knox, Ky.
Senior Airman Michele Fellbaum - to 6th WF, 18th WS, Fort Rucker, Ala., from Korea
Airman Jose Marrereo Garriga - to 6th WF, 18th WS, Fort Rucker, Ala., from Keesler AFB, Miss.
Airman Tonya Trythall - to 6th WF, 18th WS, Fort Rucker, Ala., from Keesler AFB, Miss.
Airman Daniel M. Bigley - to 18th WS, Fort Bragg, N.C., from Keesler AFB, Miss.
Airman Everett A. Carson - to 18th WS, Fort Bragg, N.C., from Keesler AFB, Miss.

Airman Michael J. Ritner -- to 18th WS, Fort Bragg, N.C., from Keesler AFB, Miss.
Airman Richard T. Caswell -- to OL-A, 18th WS, Fort Belvoir, Vg., from Keesler AFB, Miss.
Staff Sgt. John Baker -- to AFSOC/ASOS, Fort Bragg, from Det. 1, 10th WS, Fort Bragg, N.C.
Master Sgt. Jim Gallagher -- from USSOCOM, to AFSOC/ASOS, Fort Bragg, N.C.
Staff Sgt. Landen King -- from 334th Training Squadron, Keesler AFB, Miss., to 51st OSS/OSW, McGuire AFB, N.J.
2nd Lt. Ginger Pohlmann -- from OTS, to 51st OSS/OSW, McGuire AFB, N.J.
Captain Daniel Armstrong -- from 621st AMDG, to McGuire AFB, N.J.
Staff Sgt. Jim Graefe -- from Keesler AFB, Miss., to 51st OSS/OSW, McGuire AFB, N.J.
Senior Master Sgt. Teresa Lockner -- from STRATCOM, to Offutt AFB, Neb.
2nd Lt. Chris Cherry -- from Maxwell AFB, to Offutt AFB, Neb.
Capt. Mark Miller -- from Elmendorf AFB, to Offutt AFB, Neb.
Capt. Jeffrey Stewart -- from AFIT, to Offutt AFB, Neb.
Staff Sgt. Richard Gomez -- from Kirtland AFB, to Offutt AFB, Neb.
Staff Sgt. Michael Sadovsky -- from Kirtland AFB, to Offutt AFB, Neb.
Capt. John Shattuck -- from Vandenberg AFB, to Offutt AFB, Neb.
Airman Basic Luis Palomaresdelaguila -- from Keesler AFB, to Offutt AFB, Neb.
Tech. Sgt. Frank Bumgarner -- from Davis-Montham AFB, to Offutt AFB, Neb.
Senior Airman Ernest Samual -- from Camp Humphries, Korea, to Offutt AFB, Neb.
Staff Sgt. Michael Claxton -- from Eglin AFB, to Offutt AFB, Neb.
Tech. Sgt. William Howerton -- from Geilenkirchen, Germany, to Offutt AFB, Neb.
Tech. Sgt. Patrick McGuffin -- from Ramey Solary Observatory, to Offutt AFB, Neb.
Master Sgt. Doug Rishel -- from Osan AB, to Offutt AFB, Neb.
Tech Sgt. Daniel Seals -- from Hill AFB, to Offutt AFB, Neb.
Staff Sgt. Jimmy Tate -- from Camp Humphreys, Korea, to Offutt AFB, Neb.
Master Sgt. Walter Mathie -- from Fort Campbell, to Offutt AFB, Neb.
Staff Sgt. Daniel Anderson -- from STRATCOM, to Offutt AFB, Neb.
Staff Sgt. Becky Jones -- from 55th Logistics Group, Offutt AFB to HQ AFGWC, Offutt AFB, Neb.
Staff Sgt. Scott Thompson -- from Offutt AFB, to Wright-Patterson AFB, Ohio
Tech. Sgt. James Thorsbakken -- from Offutt AFB, to Dhahran, Saudi Arabia

REENLISTMENTS

Staff Sgt. Chris Buchanan, Det. 4, 7th WS, Traben Trarbach, Germany
Tech. Sgt. Duane Limberg, Det. 4, 7th WS, Traben Trarbach, Germany
Master Sgt. David Taylor, Det. 6, 7th WS, Wiesbaden, Germany
Senior Airman Gary Porter, Det. 6, 7th WS, Wiesbaden, Germany
Staff Sgt. Chris McKinney, Det. 9, 7th WS, Hohenfels, Germany
Staff Sgt. Robin Betsch, Det. 9, 7th WS, Hohenfels, Germany
Staff Sgt. Erik Boehm, Det. 10, 7th WS, Giebelstadt, Germany
Master Sgt. George Statler, 18th WS, Ft. Bragg, N.C.
Senior Airman Erwin Grove, 18th WS, Ft. Rucker, Ala.
Master Sgt. Deborah J. Williams-Mitchell, 46th WS, Eglin AFB, Fla.
Staff Sgt. Willie T. Worsham, 46th WS, Eglin AFB, Fla.
Staff Sgt. David N. Joyce, 46th WS, Eglin AFB, Fla.
Tech. Sgt. Sylvia V. Elder, OL-A 15th ASOS/ASW, Hunter Army Airfield, Ga.
Senior Airman Valerie A. Wynn, OL-C, 18th WS, Fort Knox, Ky.
Staff Sgt. Lyle Tayer, 51st OSS/OSW, McGuire AFB, N.J.

RETIREMENTS

Senior Master Sgt. Earl J. Simon, 18th WS, Ft. Bragg, N.C.
Tech. Sgt. Robert Figuly, 6th WF, Ft. Rucker, Ala.
Senior Master Sgt. Paul Walsh, 62nd OSS/OSW, McChord AFB, Wash.
Master Sgt. John McDonald, HQ 7th WS, Heidelberg, Germany
Capt. Jill Coakley, Det. 10, 7th WS, Giebelstadt, Germany
Master Sgt. Jimmy Long, 97OSS, Altus AFB, Okla.
Capt. Steven McMillan, 46th WS/CCS, Eglin AFB, Fla.
Mr. Lee Brano, 46th WS/CCS, Eglin AFB, Fla.
Master Sgt. Samuel Carter, HQ AMC TACC/XOW
Master Sgt. Josh Godsey, OL-B, 18th WS, Fort Eustis, Va.
Lt. Col. William C. Dejager, 123rd WF, Portland, Ore.
Maj. Raymond A. Crisio, 107th WF, Selfridge ANGB, Mich.

DEPLOYMENTS

Sgt. Steve Bell, Brindisi, Italy
Staff Sgt. James Fashing, 3rd OSS/WE, Elmendorf AFB, Alaska, to exercise COMBAT HAMMER, Hill AFB, Utah
2nd Lt. Christian Barnes, 3rd OSS/WE, Elmendorf AFB, Alaska,

to exercise COPE EXPOSURE, McChord AFB, Wash.
Staff Sgt. Dave Tyler, to Al Jabber, Kuwait, from 3rd ASOS, Fort Wainwright, Alaska
Tech. Sgt. Keith Wagner, 2nd WF, Fort McPherson, Ga., to OPERATION JOINT GUARD

SEPERATIONS

Senior Airman Westley T. Belcher, 20th OSS/OSW, Shaw AFB, S.C.
Senior Airman Amy Whiteman, 16th OSS, Hurlburt Field, Fla.
Senior Airman Sara L. Peterson, 31st OSS/OSW, Aviano AB, Italy
Senior Airman Franklin Edwards, Det. 1, 7th WS, Bad Kreuznach, Germany
Staff Sgt. Robert Pucci, Det. 9, 7th WS, Hohenfels, Germany
Senior Airman Michael Adkins, 12th OSS/OSW, Randolph AFB, Texas
Staff Sgt. Gary N. Shaw, 12th OSS/OSW, Randolph AFB, Texas
Senior Airman Craig Hays, 46th WS/CCS, Eglin AFB, Fla.
AIC Michael Chamberlain, 2nd OSS/OSW, Barksdale AFB, La.
Staff Sgt. Brian Gipperich, HQ AMC TACC/XOW, Scott AFB, Ill.
Senior Airman Michael Keeley, HQ AFGWC, Offutt AFB, Neb.
Senior Airman Samantha McCormick, HQ AFGWC, Offutt AFB, Neb.
Master Sgt. Charles Williams, HQ AFGWC, Offutt AFB, Neb.
Capt. Keith Force, HQ AFGWC, Offutt AFB, Neb.
Senior Airman Patrick Naberhaus, HQ AFGWC, Offutt AFB, Neb.
Senior Airman Kyle Burris, HQ AFGWC, Offutt AFB, Neb.
Staff Sgt. James D. Anderson, 2nd WF, Fort McPherson, Ga.

EDUCATION

NCO Academy, Hurlburt Field, Fla.
Tech. Sgt. Brad Wieman, AFSOC, ASOS

Joint Professional Military Education, Norfolk, Va.
Maj. Ken DeMoyle, JSOC

Weather Apprentice Course, Keesler AFB, Miss. (Classes 970515 & 970522)
Senior Airman Jeffrey D. Boeckman (Distinguished Graduate)
Staff Sgt. Terri L. Lewis
Senior Airman Roscoe A. Moore
Senior Airman Joel L. Godin
Airman 1st Class Russel D. Ward II
Airman Richard T. Caswell
Airman Erzulie S.N. Clarke
Airman Brian J. Kennedy
Airman James W. Pfeiffer (Distinguished Graduate)
Airman Tonya L. Trythall

CCAF Degree, Weather Technology

Weather Apprentice Course, Keesler AFB, Miss. (Class 970709)
Staff Sgt. Michael T. Dannelly (Distinguished Graduate)
Senior Airman Larry L. Law (Distinguished Graduate)
Senior Airman Mark E. Augustine III
Airman 1st Class Jessica J. Bukovak
Airman Joseph W. Casey
Airman Douglas J. Grant, Jr.
Airman Andrea N. Hutchison
Airman Jefferson A. Joseph
Airman Clint N. Long
Airman Arnevad D. Mason
Airman Jennie E. Ravitch
Airman Jenny L. Vittitow

Bachelor of Science degree (Professional Aeronautics), Embry Riddle Aeronautical University
Staff Sgt. Todd Grebel, Keesler AFB, Miss.

Community College of the Air Force Degree

Senior Master Sgt. Jeff Fluegge, 25th ASOS, Wheeler AAF, Hawaii
Senior Airman Lena M. Toner, 341st OSS/OSW, Malmstrom AFB, Mont.
Staff Sgt. Jim Graefe, 51st OSS/OSW, McGuire AFB, N.J.
Senior Airman Shannon Flowers, 3rd ASOS, Fort Wainwright, Alaska
Senior Airman Hilton R. Wells, 3rd ASOS, Fort Wainwright, Alaska

Tropical Weather School

Master Sgt. Mike Nelson, 25th ASOS, Wheeler AAF, Hawaii
Staff Sgt. Tony Soots, 25th ASOS, Wheeler AAF, Hawaii

METSAT Course

Tech. Sgt. Lloyd D. Golden, 412th OSS/OSW, Edwards AFB, Calif.

Airman Leadership School

Senior Airman Kelly B. Ryun, 412th OSS/OSW, Edwards AFB, Calif.

Weather Apprentice Course (Class 970407)

Staff Sgt. Samuel T. Simmons (Distinguished Graduate)
Airman Phillip Murphy (Distinguished Graduate)
Senior Airman Vance C. Clark
Airman 1st. Class Omar E. Nurse
Airman 1st. Class Tori L. Temple

Airman Tamiko E. Ahwah
Airman Jeremy A. Dalton
Airman Christina A. Guiles
Airman George Hulburt
Airman Joshua Lewis
Airman Michelle Mosher
Airman Bonnie L. Stavenger

(Class 970306)

Michael Heitt, 334th Training Squadron, Keesler AFB, Miss.
Staff Sgt. John T. Dick, 334th Training Squadron, Keesler AFB, Miss.
Staff Sgt. Robert G. Loyd III, 334th Training Squadron, Keesler AFB, Miss.
Senior Airman Steven W. Harmon, Jr. (Distinguished Graduate), 334th Training Squadron, Keesler AFB, Miss.
Senior Airman Norman S. Keith (Distinguished Graduate), 334th Training Squadron, Keesler AFB, Miss.
Senior Airman Jaisua R. Tate, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Anastasia L. Brennan, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Sirius Bontea, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Edward P. Gideons, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Brian W. Tassia, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Tracy L. Woodard, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Robert W. Von Dohlen, 334th Training Squadron, Keesler AFB, Miss.
Airman Jessica R. Dezarn, 334th Training Squadron, Keesler AFB, Miss.

(Classes 970313 and 970320)

Staff Sgt. Kenneth Brookshire, 334th Training Squadron, Keesler AFB, Miss.
Staff Sgt. Daniel Kuepper (Distinguished Graduate), 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Amy Brannon, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Dennis Crum, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Philip Hancock (Distinguished Graduate), 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Jennifer Jones, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Jennifer Lemire, 334th Training Squadron, Keesler AFB, Miss.
Airman 1st Class Charles Streimer, 334th Training Squadron, Keesler AFB, Miss.
Airman Eric Bauer, 334th Training Squadron, Keesler AFB, Miss.
Airman Holly Beupre, 334th Training Squadron, Keesler AFB, Miss.
Airman Brian Lundrum, 334th Training Squadron, Keesler AFB, Miss.
Airman Basic Bradley McCullough, 334th Training Squadron, Keesler AFB, Miss.

Advanced Weather and Able Forecaster Course (Class 960917- Graduated 970410)

Senior Airman Danny Athanasaw—to Va. ANG
Senior Airman Robert Branham—to Pa. ANG
Staff Sgt. Dean Chapman—to Ore. ANG
Staff Sgt. Robert Chauvin—to Altus AFB Okla.
Senior Airman Richard Lopes—to Travis AFB, Calif
Senior Airman Darrel Onizuka—to Hawaii ANG (Distinguished Graduate)
Senior Airman Leslie Pike—to Travis AFB, Calif.
Senior Airman David Sligar—to Offutt AFB, Neb.
Senior Airman Paul Walker—to Altus AFB, Okla.

(Class of June 97)

Senior Airman Christine Blais, to Dover AFB, Del.
Senior Airman Melody Browning, to McConnell AFB, Kan.
Staff Sgt. Gregory Espinosa, to Scott AFB, Ill.
Senior Airman Carl Garcia, to MacDill AFB, Fla.
Senior Airman Megan Reinhard, to Fort Rucker, Ala.

Small Tactical Terminal Course

Staff Sgt. Deborah A. Northern, 27th OSS/OSW, Cannon AFB, N.M.
Staff Sgt. April Rousch, 27th OSS/OSW, Cannon AFB, N.M.
Staff Sgt. Brent B. Baker, 27th OSS/OSW, Cannon AFB, N.M.
Senior Airman Amy M. Mazingo, 27th OSS/OSW, Cannon AFB, N.M.
Senior Airman Lawrence R. Promenchenkel, 27th OSS/OSW, Cannon AFB, N.M.
Airman Phillip B. Murphy, 27th OSS/OSW, Cannon AFB, N.M.
Airman Jamie Whalen, 27th OSS/OSW, Cannon AFB, N.M.

Weather Officer Course

2nd Lt. Lynne Berkowitz, Scott AFB, Ill.
2nd Lt. James DeDominici, Elmendorf AFB, Alaska
2nd Lt. Brian Kabat (Distinguished Graduate), Hickam AFB, Hawaii
2nd Lt. Sean Keaveney, Holloman AFB, N.M.
2nd Lt. Jonathan Leffler, Ellsworth AFB, S.D.
2nd Lt. Rhonda Leverett, Seymour Johnson AFB, N.C.
2nd Lt. Danielle Lewis, Moody AFB, Ga.
2nd Lt. Robert Moelter (Distinguished Graduate), Robins AFB, Ga.
2nd Lt. Charles Morgan, Fort Carson, Colo.
2nd Lt. Adam Stevens, Fort Drum, N.Y.

Squadron Officer School

Capt. James K. Vickers, 46th WS, Eglin AFB, Fla.

Weather Satellite Course

Staff Sgt. Robert E. Curry, 46th WS, Eglin AFB, Fla.

Satellite Interpretation School

Staff Sgt. Aquanetta Brobston, 27th OSS/OSW, Cannon AFB, N.M.
Staff Sgt. Deborah A. Northern, 27th OSS/OSW, Cannon AFB, N.M.
Staff Sgt. April Rousch, 27th OSS/OSW, Cannon AFB, N.M.
Senior Airman Amy M. Mazingo, 27th OSS/OSW, Cannon AFB, N.M.
Airman Phillip B. Murphy, 27th OSS/OSW, Cannon AFB, N.M.

Satellite MTT

2nd Lt. Timothy Kuntz, 25th ASOS, Wheeler AAF, Hawaii
Staff Sgt. Mike Nehls, 25th ASOS, Wheeler AAF, Hawaii
Staff Sgt. Jack Suther, 25th ASOS, Wheeler AAF, Hawaii
Staff Sgt. Howard Westbrook, 25th ASOS, Wheeler AAF, Hawaii
Senior Airman Steve Horsman, 25th ASOS, Wheeler AAF, Hawaii
Senior Airman Anondra Williams, 25th ASOS, Wheeler AAF, Hawaii
Airman 1st Class Stacey Branch, 25th ASOS, Wheeler AAF, Hawaii
Airman 1st Class Stephanie Brooks, 25th ASOS, Wheeler AAF, Hawaii
Airman 1st Class Mike Reilly, 25th ASOS, Wheeler AAF, Hawaii
Airman 1st Class Robert Skelton, 25th ASOS, Wheeler AAF, Hawaii
Airman 1st Class Eric Sotomayer, 25th ASOS, Wheeler, AAF, Hawaii

Air Force ROTC Scholarship Program

Senior Airman Troy A. Kirk, 46th WS, Eglin AFB, Fla.

160th Special Operations Aviation Regiment S&T (Selection and Training)

Senior Airman Richard Bollinger, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.
Senior Airman Guy Bishop, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.
Senior Airman Jim Harding, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.

Australian Jump Wings

1st Lt. Joe Benson, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.
Senior Airman Guy Bishop, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.
Senior Airman Walt Chumney, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.
Senior Airman Timothy Sloan, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.

Jordanian Jump Wings

1st Lt. Joe Benson, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.
Tech Sgt. John Walsh (Jumpmaster), Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.
Senior Airman Timothy Sloan, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.

Air Assault School

Capt. Brian Griffith, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.

AWARD WINNERS

62nd OSS/OSW SNCO of the Quarter

Master Sgt. John Galliano, 62nd OSS/OSW, McChord AFB, Wash.

62nd OSS/CGO CGO of the Quarter (3rd Quarter)

2nd Lt. Deeann Emery, 62nd OSS/OSW, McChord AFB, Wash.

McChord AFB Forecaster of the Quarter

Airman 1st Class Rocco Minetti, 62nd OSS/OSW, McChord AFB, Wash.

McChord AFB Observer of the Quarter

Airman 1st Class Dave Hennig, 62nd OSS/OSW, McChord AFB, Wash.

Forecaster of the Month and Quarter (January/March)

Staff Sgt. Dan Nelson, 62nd OSS/OSW, McChord AFB, Wash.

62nd OSS/OSW Forecaster of the Month (August 1997)

Senior Airman Lonnie Clute, 62nd OSS/OSW, McChord AFB, Wash.

62nd OG NCO of the Quarter

Tech. Sgt. Patrick Barcelona, 62nd OSS/OSW, McChord AFB, Wash.

62nd OSS/OSW Observer of the Quarter

Airman 1st Class Janel Heidebrink, 62nd OSS/OSW, McChord AFB, Wash.

Excellence in Leadership Award First Quarter 1997

Tech. Sgt. Patrick Barcelona, 62nd OSS/OSW, McChord AFB, Wash.

62nd OSS/OSW SNCO of the Year

Master Sgt. John Galliano, 2nd OSS/OSW, McChord AFB, Wash.

1996 PACAF Moorman Award Winner

Alaskan Weather Operations Center (AWOC), 611th Operations Support Flight, Elmendorf AFB, Alaska

1996 PACAF Pierce Award Winner

Tech. Sgt. Ronald B. Sharp, 611th Operations Support Flight, Elmendorf AFB, Alaska

Alaskan Theater Forecaster of the Quarter

Staff Sgt. Thomas S. Prochazka, 611th Operations Support Flight, Elmendorf AFB, Alaska

Air Force Achievement Medal

Staff Sgt. Michael E. Williams, 611th Operations Support Flight, Elmendorf AFB, Alaska

27th OSS/OSW Diamond Sharp Award

Staff Sgt. Joseph A. Kempfer, 27th OSS/OSW, 102 N. Torch BLVD, Cannon AFB, N.M.

27th OSS Airman of the Quarter

Airman 1st Class Cindy A. Wright, 27th OSS/OSW, 102 N. Torch Blvd, Cannon AFB, N.M.

(Weather) Airman of the Quarter

Airman 1st Class Cindy A. Wright, 27th OSS/OSW, 102 N. Torch Blvd, Cannon AFB, N.M.

47th OSS Airman of the Quarter

Senior Airman Johnie L. Church, 47th OSS, 561 Liberty Dr. Ste. 3, Laughlin AFB, Texas

47th OSS NCO of the Quarter

Staff Sgt. Kurt R. Rohl, 47th OSS, 561 Liberty Dr. Ste. 3, Laughlin AFB, Texas

47th OSS Forecaster of the Quarter

Staff Sgt. Kurt R. Rohl, 47th OSS, 561 Liberty Dr. Ste. 3, Laughlin AFB, Texas

47th OSS Observer of the Quarter

Airman 1st Class Amanda K. Glynn, 47th OSS, 561 Liberty Dr. Ste. 3, Laughlin AFB, Texas

19th Air Support Operations Squadron Officer of the Year

1st Lt. Joe Benson, Detachment 2, 10th Combat Weather Squadron, Fort Campbell, Ky.

15th ASOS NCO of the Quarter

Tech. Sgt. Sylvia V. Edler, OL-A ASOS/ASW, Hunter Army Airfield, Ga.

OL-A ASOS/OSW Airman of the Quarter (2nd Quarter 1997)

Senior Airman Wanda Franco, OL-A ASOS/ASW, Hunter Army Airfield, Ga.

24th WS Company Grade Officer of the Quarter

Capt. Brent Helmick, 24th WS, Howard AFB, Panama

24th WS NCO of the Quarter (1st Quarter 1997)

Tech. Sgt. Donovan Williams, 24th WS, Howard AFB, Panama

24th WS Airman of the Quarter (1st Quarter 1997)

Senior Airman Lakisha A. Burton, 24th WS, Howard AFB, Panama

24th WS Civilian of the Quarter/1st Quarter 1997

Omar Moreno, 24th WS, Howard AFB, Panama

24th Operations Group, CGO of the Quarter

Capt. Brent Helmick, 24th WS, Howard AFB, Panama

24th Operations Group, NCO of the Quarter

Tech. Sgt. Donovan Williams, 24th WS, Howard AFB, Panama

24th Wing NCO of the Quarter

Tech. Sgt. Donovan Williams, 24th WS, Howard AFB, Panama

1996 AFMC Weather Airman of the Year

Senior Airman Scott M. Maier, 46th WS, Eglin AFB, Fla.

1996 AFMC Bud Long Award

Mr. Edward J. Keppel, 46th WS, Eglin AFB, Fla.

20th FW Specialist of the Year (1996)

Staff Sgt. David P. Jordan, 20th OSS/OSW, Shaw AFB, S.C.

16th OSS Company Grade Officer of the Quarter

1st Lt. Jaelyn Patton, 16th OSS, Hurlburt Field, Fla.

30th Space Wing Launch Team of the Quarter

1st Lt. Michael Mills (Multi-Service Launch System Minuteman II), 30th WS, Vandenberg AFB, Calif.
Capt. Tamara Parsons (Titan IV K-13), 30WS, Vandenberg AFB, Calif.

AF Space Command & Air Force Weather Civilian of the Year 1996

Dr. Christy L. Crosiar, 30th WS, Vandenberg AFB, Calif.

Airman of the Quarter (30th Operations Group)

Airman 1st. Class Rodney Menezes, 30th WS, Vandenberg AFB, Calif.

412th OSS Airman of the Quarter

Senior Airman Jessica K. Clarke

412th OSS NCO of the Quarter

Tech. Sgt. Hardy Frey

412th OSS Senior NCO of the Quarter

Master Sgt. Bruce B. Babcock

92nd OSS Company Grade Officer of the Quarter (April/June)

2nd Lt. Tom Holts

92nd OSS NCO of the Quarter (April/June)

Tech. Sgt. Ray S. Courtney

92nd OG and 92nd OSS Airman of the Quarter (July/Sept)

Senior Airman Bruce Frost

Fairchild's Airman Leadership School John Levitow Honor Graduate (Class 97-F)

Senior Airman Bruce Frost

3rd ASOS NCO of the Quarter (April/June 1997)

Master Sgt. Tom Wiseman

3rd ASOS Airman of the Quarter (April/June 1997)

Senior Airman John Lawless

MARRIAGES

Airman 1st Class Emili A. Drennon to Brian K. Sadler, 27th OSS/OSW, Cannon AFB, N.M.

Airman 1st Class Brian Macho to Jamey Kolleen Riker, 412th OSS/OSW, Edwards AFB, Calif.

1st Lt. Douglas M. Brunell to Sheryl Ann Gable, 60th OSS, USAFR.

Tech. Sgt. Rudy Tingelhoff to Heidi Shanafelt, 2nd WF, Fort McPherson, Ga.

BIRTHS

Hannah Kristin Walker—to Senior Airman Shawn and Airman 1st Class Carol Walker, 47th OSS/OSW, Laughlin AFB, Texas

Stevn Paul Rigby—to Staff Sgt. Richard Rigby and Dawn Rigby, 1st OSS/OSW, Langley AFB, Va.

Lisa Nicole Hennig—to Airman 1st Class David Hennig and Rachel Hennig, 62nd OSS/OSW, McChord AFB, Wash.

Savannah Elise Gow—to 2nd Lt. Dale Gow and Stacey Gow, HQ AWS, Scott AFB, Ill.

Connor Joseph Maytes—to Staff Sgt. Michael Maytes and Lisa Maytes, Det. 1, 7th WS, Bad Kreuznach, Germany

Brittany Ann Eifert—to Master Sgt. Harold D. Eifert and Ila Eifert, HQ AMC TACC/XOW, Scott AFB, Ill.

Erin Elizabeth Harris—to Senior Airman Kenneth Harris and Monica Harris, Det 2, 10th WS, CWS (SWOT), Ft. Campbell, Ky.

Michael Presley Schierer—to Staff Sgt. Michael Schierer and Diana Schierer, Det 2, 10th WS, CWS (SOWT), Ft. Campbell, Ky.

Myana Nielle Walker—to Airman 1st Class Donnetta Walker, OL-B, 18th WS, Fort Eustis, Va.



AIR FORCE WEATHER

celebrates

60 YEARS OF WEATHER OPERATIONS (1937-1997)

Col. Randolph P. "Pinkie" Williams, a figure long known as the "Father of Air Weather Service," might better be remembered today as the "Father of Air Force Weather." His many dissertations delivered to military leaders led to vast improvements in, and a greater appreciation of, the role of weather in the military.



"Continuing a proud tradition as we move into the 21st Century, Brig. Gen. Fred P. Lewis and the people of Air Force Weather are implementing reengineering efforts which are shaping our future."