

Your Magazine for Air Force Weather

OBSERVER

April 1997

Vol. 44, No. 4



School Days

Weather Education Takes On Many Forms,
For Enlisted, Officers, And Cadets

What's Inside for April 1997

PERSPECTIVES FROM THE TOP -- Air Force Director of Weather Brig. Gen. Fred Lewis ... **Page 3**

COMMAND LINE -- Pacific Air Forces Director of Weather Col. Charles W. French ... **Page 4**

CORE COMPETENCIES-- Rapid Global Mobility is the subject of this month's column ... **Page 5**

ENLISTEDVIEW -- Chief Master Sgt. of the Air Force Eric W. Benken... **Page 6**

OFFICER CAREER PROGRESSION -- Air Force enhances officer assignment system ... **Page 7**

WEATHER HISTORY -- Important dates and events in Air Force Weather ... **Page 8**

DATA ACCURACY -- For more than 50 years, accurate weather data recognized as "essential to overall (battlefield) success." ... **Page 9**

SCHOOL DAYS -- Weather education takes on many forms for enlisted, officers, and even cadets ... **Pages 12-15**

AFGWC -- Changing for the better: Special Mission/Contingency Forecast Section changing ... **Pages 16-17**

SPACE WEATHER -- Satellite spots solar storm ... **Page 20**



"Choose The Weather For Battle"

OBSERVER

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The OBSERVER Wins Third Place in 1996 Air Force Media Contest

The *OBSERVER*, your magazine for Air Force Weather, recently placed third in the magazine category at the 1996 Air Force Media Contest.

The *OBSERVER*, originally a tabloid-style newspaper for many years, became a full-color magazine in January 1995. Since then, the magazine's readership has skyrocketed, as weather people finally have a magazine they can truly call their own.

This success would not have been possible without former and present Air Weather Service commanders who had the foresight to start from scratch with a new format, and the

courage to allow it to develop and finally flourish.

And, of course, thanks go out to all the people of Air Force Weather who have contributed, in one form or another, to the success of the *OBSERVER*.

As I leave for an assignment to Kunsan AB, Korea, I want to say that it has been an absolute pleasure working with all of you. Thank you for every-



Steve Elliott
Staff Sgt. Steve Elliott
Editor, OBSERVER

Career Field Processes to Change Training, Career Ladder Adapt to Improve



**by Brig. Gen. Fred Lewis
Air Force Director of Weather**

One of the best things about working through the reengineering process has been finding improvement areas that we didn't originally expect. Establishing a single weather career ladder for our enlisted people and building a realistic training program for our newest officers and enlisted people is one of those areas.

Once implemented, these improvements will generate significant long term benefits for the entire careerfield. Both Air Force Weather officers and enlisted will receive the right training at the right time, and they will be assigned to positions commensurate with their training and skill level. But first, let me explain why we need to take AFW to a single, "weather technician" career ladder.

For several years we have not been able to produce enough enlisted forecasters to fill our forecaster manning requirements.

We originally had two separate career AFSCs, one for observing and one for forecasting, and all enlisted personnel entered the career field as observers. They could spend their entire career as observers, or they could become forecasters by attending forecasting school at the 7 skill level point. Senior NCO observers (chief observers) managed most weather station operations.

By the mid-seventies we started merging the two enlisted AFSCs, requiring all enlisted weather people to attend forecasting school in order to get their 7 skill level. The management of most station operations then transferred from the chief observer to the station chief or CWSO (Chief of Weather Station Operations).

Merging the career fields at the 7 skill level did not, however, solve the enlisted forecaster shortfall. Not only did we not have enough observers entering our career field to sustain forecaster manning needs (some of you probably remember the Christmas-tree-shaped manning slide that Brig Gen (Ret.) Chapman would brief), Air Force-wide grade roll-backs had now

replaced E6 and E5 forecaster authorizations with E5 and E4 forecaster authorizations.

To counter the need for E4 forecasters, we changed forecasting school from a 7-level technician school to an "A" suffix-awarding course for observers to attend once they had completed their initial 5-level upgrade training. This gave us a more balanced grade mix, but we were still short of forecasters to meet requirements. Since then we have established the fast-tracker program for exceptionally qualified initial skills course (ISC) students and briefly attempted a single school house (42 week course) to resolve our forecaster

directly related to the forecasting process. (Of course we will work closely with the other services as we do this.)

The ISC would probably be expanded from 18 weeks to around 22 weeks. From there, as shown in the figures on page 21, our plan is to assign all ISC graduates and second lieutenants to an operational regional weather squadron where they will receive OJT from senior NCOs and field/company grade officers. Additionally, with the help of new USAF distance learning programs and the effective use of the AFW-wide, standardized OJT program, our newest apprentices and second lieutenants will rapidly become skilled weather forecasters at the operational weather squadrons.

After about three years at the operational weather squadron, many officers will rotate to a combat weather team (CWT) to start working directly for operators and the warfighters at front-line units.

Once enlisted weather technicians obtain their 5-level, they will attend a course at Keesler to learn advanced forecasting and more observing techniques along with combat weather operations. They will

then be assigned to a CWT and will work directly with the front-line operators performing briefing, forecasting, and observing duties.

Upon completion of weather squadron and CWT assignments, enlisted technicians and officers can be assigned to AFIT (officers only), another CWT, another squadron, or a strategic center like the Air Force Global Weather Center, Air Force Combat Climatology Center, 55th Space Weather Squadron, or Joint Typhoon Warning Center. In addition to operational assignments, this is the point where

"Air Force Weather officers and enlisted will receive the right training at the right time, and they will be assigned to positions commensurate with their training and skill level."



**Brig. Gen. Fred Lewis
Air Force Director of Weather**

manning shortfalls. However, we truly believe we've come up with a solution to resolve the problem. It will be a mix of formal schools, OJT (on-the-job-training), and a "new" career path. Here's how we propose to make it work.

First, we need to think of our enlisted force as 3-, 5-, and 7-level weather technicians; not as observers and forecasters. In the reengineered AFW, all enlisted weather technicians will be capable of performing weather tasks commensurate with their assigned skills to include both observing and forecasting tasks.

To accomplish this we plan to restructure the Air Force's portion of the schoolhouse's ISC at Keesler to include more analysis and basic forecasting skills with observing skills limited to those

See LADDER

continued on Page 21

AFW Doing 'More With Less'

Reengineering Meets Multiple Challenges



When I came on active duty 24 years ago, we were in the midst of downsizing from the end of the Vietnam War. Most of us around today did not serve in that war, but like the 1990s we had to make force structure changes. We went from over 11,600 weather warriors in AFW to around 6,400 in about 8 years. The downsizing was very traumatic for many people. During this period, I first heard the phrase "Do more with less." We apparently had to increase our support to some missions but were losing manpower at the same time. Sounds familiar I'm sure. I grew to really dislike that phrase, as did most folks. Yet, it seemed as if bosses and commanders got rewarded for doing more with less. You got extra goodie points if you could encourage the personnel in your section or unit to put out the effort to accomplish some extra feat that no one else had. The net result was an extra 5, 10 or 20 extra hours per week, but at the expense of other tasks and unit morale.

As we look around today, we again face the challenge of how to accomplish everything that needs to be done. Everyone knows the ops tempo is higher now than at anytime since Vietnam; yet we are pressured to skinny down more while meeting more requirements for support around the world. How can we possibly do more with less? How can flight commanders and station chiefs meet customer expectations without burning out their folks. The only realistic solution is to reengineer the way we do our business. As we do this we should keep in mind that not all of what we do today is needed by our operators; not all that we do needs to be locally produced; and finally, not all of our services and products are effectively integrated into our operators activities and missions.

During the last eight months, lots has been written about AFW reengineering. The

**By Col. Charles W. French
Director of Weather
Pacific Air Force**

concept of regional centers and a smaller footprint forward is not new, but we have not institutionalized it across the board in AFW. What is new is the concept of regionalizing certain tasks -- like the production of Terminal Aerodrome Forecasts (TAF), Weather Warnings/Advisories (WW/WA), remote briefings, and, most importantly, the training and mentoring of less experienced forecasters and officers. This last task is criti-

ridic major exercises seems impossible with 4 or 5 fewer weather warriors. Reengineering directly addresses these concerns. What is being overlooked is that with the use of regional hubs actually comes a reduction in forecasting tasks at the local level. The combat weather team is no longer the slave to the forecast counter and the TAF. It will truly be a new paradigm with a new focus and priorities.

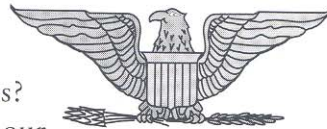
While much has been described about the hub functions and design, little has been written about the Combat Weather Team. Its role is significantly different than the current base/post weather station. Its real focus is on combat operations-- fighter ops,

airlift, recce, Army ops, etc. The CWT must take the forecasted weather conditions and tailor that information to meet operational requirements. While it sounds easy, it is not. The weather warrior must know all about the operators mission, tactics, and procedures. Your weather forecast can be correct, but if the bomb or rocket doesn't hit the target it may have been a lot of effort for little benefit. The CWTs must provide timely, accurate, relevant weather support.

Oh, by the way, relevant support means presented in a way that the operators can easily understand and use--not a bunch of cryptic symbols or contractions of scientific terms. Frequently operators have a very short period of time to assimilate a lot of information. Remember, at the CWT, we are migrating to a weather information exploitation role.

One of the toughest things that must be done for the new CWTs is to determine how we are going to measure our performance and benefit to the operators. If we are to show our worth to operators, we must quan-

"Can we do more with less?
Yes, but only if we optimize our organization, our training, and our operations -- NEVER at the expense of our people."



**Col. Charles W. French
Director of Weather
Pacific Air Forces**

tal to the improvement and survivability of the weather career field. I can remember how nervous I was when I first became a detachment commander in the mid 1980s. Proper training, mentoring, and experience are essential ingredients for success. The same holds true for flight commanders, station chiefs, OICs, and NCOICs.

Many of you have received or soon may receive a visit from Brig Gen Lewis to discuss reengineering. One of the concerns raised from these visits and the reengineering homepage chat is the loss of the TAF as a vital local function for the weather team at the base or post. Also, some find it crazy to reduce manning at the local level when we can't complete all the work we are given today. The idea of meeting out of theater taskings, high local exercise tempo, and pe-

**See MORE,
continued on Page 21**



Rapid Global Mobility

Ensuring Quick And Decisive Response Around The World

WASHINGTON—When a crisis erupts without warning anywhere in the world, the United States needs to rapidly deploy forces thousands of miles from bases in the continental United States to deter a potential aggressor or defeat an adversary.

This need for a fast response led senior Air Force leaders to reemphasize rapid global mobility as one of six core competencies in the service's new strategic vision: "Global Engagement: A Vision for the 21st Century."

"Rapid global mobility provides the nation its global reach and underpins its role as a global power," said Secretary of the Air Force Sheila Widnall.

"The ability to move rapidly to any spot on the globe ensures that tomorrow, just as today, the nation can respond quickly and decisively to unexpected challenges to its interests," she said. "As the number of forward-de-

ployed forces declines and the need for immediate response to overseas events rises, the Air Force's global mobility forces will be in great demand by future joint force commanders.

When an operation must be carried out quickly, airlift and aerial refueling will be the key players," said Widnall. She added that rapid global mobility builds the air bridge for joint forces, enables multinational peace efforts or speeds tailored forces wherever they are needed.

"Rapid deployment will remain the future joint team's most important combat force multiplier," said Air Force Chief of Staff Gen. Ronald Fogleman.

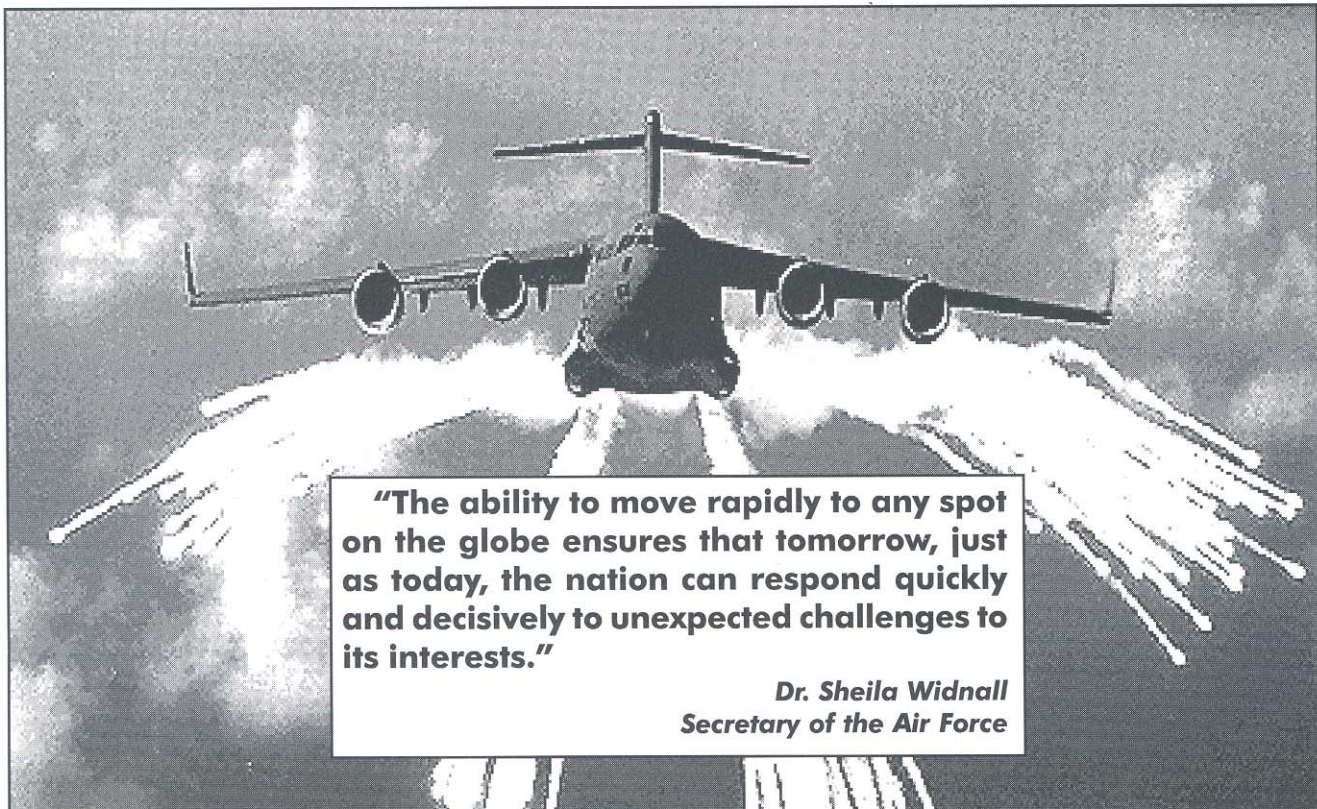
In the Global Engagement vision of the 21st century, rapid global mobility will be multifaceted. The speed with which forces are moved will increase, and airlift and air refueling capabilities must be able to deliver tailored forces operating in a smaller area.

"Rapid global mobility is driven by the nation's needs," Fogleman said. "Because we are going to have a CONUS-based contingency force, we've got to have the capability to get that force to the fight.

"That is what rapid global mobility does not only for combat operations, but for peacekeeping or humanitarian efforts.

"Airlifters and tankers give the national command authorities the ability to reach out and influence events around the world," the general said. "This trend will continue as far into the future as we can imagine."

(Editor's Note: This is part of a series on the Air Force's core values and core competencies. Other core competencies are: air and space superiority, global attack, precision engagement, information superiority and agile combat support.)



"The ability to move rapidly to any spot on the globe ensures that tomorrow, just as today, the nation can respond quickly and decisively to unexpected challenges to its interests."

**Dr. Sheila Widnall
Secretary of the Air Force**

Core Values

Explaining Integrity First, Service Before Self, Excellence

WASHINGTON (AFNS)-Integrity, service and excellence. These simple words epitomize the core values of our military profession.

The foundation is integrity fortified by a commitment to the service of our country and fueled by a drive in excellence in all that we do.

The Air Force recognizes integrity first, service before self and excellence as its core values. These are values every member must believe in, and more importantly, must live by.

We start with integrity because it is the essential element, or the foundation for which other values are built upon. It's being honest with others as well as yourself and doing what's right at all times.

Integrity remains the very bedrock of the military profession. Service members possessing integrity will always do what's right regardless of the circumstances, even when no one is looking. They will make no compromises in being honest in small things as well as great ones.

Next is our military ser-

**by Eric W. Benken
Chief Master Sergeant
of the Air Force**

vice, which is an uncommon profession that calls for people with an enduring commitment and dedication to the mission. It requires us to have a sense of service before self.

Each member must realize that his or her needs are secondary to the needs of our great country.

This is a 24-hour-a-day commitment and one that requires many personal sacrifices. Personal goals are important and often coincide with Air Force goals; however, there is no

room for personal agendas that interfere with the needs of the Air Force or the interests of our government.

This brings us to excellence, our third core value. Military members have been entrusted by all Americans with our nation's security. This encompasses many things, among which is the care of the resources of our nation—the most treasured of which is the lives of those who serve.

This makes competence or excellence in all things we do paramount. Doing the very best you can is not just a professional obligation, it's a moral one as well.

Integrity first, service before self and excellence in all things we do.

These core values serve as our road map and set the standard for our behavior. They serve to remind us of the importance of the profession we have chosen, the oath we took and the demands placed upon us as members of the profession at arms. Learn these lessons well. They will serve you well in your professional career and your personal life.

"These core values serve as our road map and set the standard for our behavior. They serve to remind us of the importance of the profession we have chosen, the oath we took and the demands placed upon us as members of the profession at arms."

**Chief Master Sgt. of the Air Force
Eric W. Benken**



Congratulations to the following individuals who were selected for promotion to the rank of Senior Master Sergeant:

Gerald C. Claycomb
Peter M. Copesky
Patrick R. Coyle, Jr.
Bruce G. David
Bryan K. Goforth
Frank J. Hall III
Paul F. Leidig
Michael A. Moore
Nancy J. O'Connell
Rodney S. Rabenneck
Donald W. Schmidt
Suzanne Smith
Martin W. Sprankle

Fairchild AFB, Wash.
HQ AWS/XOO, Scott AFB, Ill.
HQ AWS/SCMO, Scott AFB, Ill.
Fort Campbell, Ky.
HQ USAFE, Ramstein AB, Germany
Hurlburt Field, Fla.
Charleston AFB, S.C.
HQ AFGWC, Offutt AFB, Neb.
HQ AWS/SCTI, Scott AFB, Ill.
HQ AWS/XONS, Scott AFB, Ill.
HQ AWS/RMA, Scott AFB, Ill.
Maxwell AFB, Ala.
Yongsan AIN, Korea

Rick A. Suggs
Gary H. Tryon
John W. Underwood
Charles G. Vinson

McClellan AFB, Calif.
Fort Hood, Texas
HQ AWS/CVV, Scott AFB, Ill.
Giebelstadt, Germany



**AFW Senior
Master
Sergeant
Selectees**

Air Force Enhances Assignments

Streamlines Procedures For Filling Short-Notice Assignments

RANDOLPH AIR FORCE BASE, Texas (AFNS) -- Commanders with short-notice requirements will get their job openings filled quicker as a result of a new enhancement to the officer assignment system.

The enhancement focuses on streamlining procedures to fill valid short-notice requirements, reducing the time an organization waits for a backfill, officials at the Air Force Personnel Center here say.

Under current assignment system guidelines, the most eligible, qualified officer selected for an assignment is notified after the position is advertised for 30 days.

When the advertising phase is paired up with the selection and notification process, filling the position can, at times, exceed 150 days, officials say.

"(That amount of time is) just not responsive enough to support those compelling, short-notice requirements that occur from time-to-time," says Lt. Col. Nellie Riley, chief of the assignment procedures, programs and PCS budget branch.

"When things like a tragic loss or humanitarian assignments occur, or when an individual is relieved for cause, the clock starts ticking right away. Especially when the requirement is overseas."

Accordingly, after receiving a validated short-notice requirement from a major command, AFPC is now "immediately identifying the most eligible and qualified officer, and notifying the first colonel or O-6 equivalent in their chain of command of that officer's pending assignment, says Riley.

"At virtually the same time, we'll run an ad for the job for two weeks to give others in the field an opportunity to volunteer," she adds.

If an eligible, qualified volunteer steps forward, the previously iden-

tified officer is released and the volunteer is processed using current "More Voice, More Choice" procedures.

Riley says in addition, if there is no volunteer after two weeks, the ad closes and AFPC immediately processes the previously identified officer for the assignment.

"By doing this, officers will know as early as possible that they are po-

tentially going on a short-notice assignment, while we're simultaneously canvassing the field for volunteers to support the requirement," Riley explains.

Overall, the colonel says, the initiative increases responsiveness to commanders and provides more lead-time for officers and their families to prepare and plan for short notice assignments.

Center Explains Wear Of Badges For Combined Career Fields

RANDOLPH AIR FORCE BASE, Texas (AFNS) — Occupational badges for those who became communications and information officers and manpower and personnel officers were recently approved.

Officers in former Air Force Specialty Codes 13BXE, adjutants; 33SX, communication-computers; 33VX, visual information, and 37AX, information management, who integrated into the communications and information career field, will wear the communications and information badge and maintain the same level -- basic, senior or master -- as worn on their previous occupational badges, officials at the Air Force Personnel Center said.

However, as of Nov. 1, 1996, stars and wreaths are "earned" on the new communications and information badge only.

Former information management officers who integrated into the mission support, personnel career field (36XX), may also wear the manpower and personnel badge at the same level -- basic, senior or master -- as worn on their previous badge.

IM officers who crossflowed into the personnel career field prior to Nov. 1, 1996 may use their previous IM time to upgrade to the senior badge at the seven-year point and the master badge at the 15-year point, personnel officials said.

This is because many former IM officers (e.g., squadron section commanders and unit executive officers) were responsible for overseeing personnel programs within their organizations.

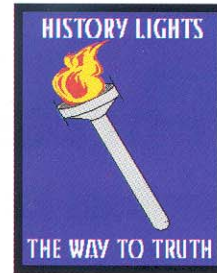
Those IM officers previously awarded the information management badge can continue wearing the IM badge; however, if more than one badge is worn simultaneously, the badge reflecting their current job is worn in the top position.

AFPC is incorporating the changes to the occupational badges into Air Force Instruction 36-2923 covering aeronautical, duty and occupational badges.

For more information on badges and their wear, contact your local military personnel flight. *(Courtesy of AFPC News Service)*

Historical Weather Events

From The 1940s To The 1960s



by Ms. Lil Wilbur
Air Weather Service
Chief of History

Did you know that Air Force Weather will celebrate an anniversary this year? Do you know when? Air Weather Service's 60th Anniversary is in July 1997. In honor of the upcoming anniversary, here are some AWS historical tidbits.

1940

The enlisted forecaster school moved from Patterson Field, Ohio and the observer school moved from Scott Field, Ill. Both schools were relocated at Chanute Field, Ill., where the Air Corps Weather School was established.

April 21, 1940

Capt. Robert M. Losey was the first officer to be killed by enemy action in World War II. While watching a German air raid on Dombas, Norway, he was killed instantly by a bomb that struck nearby.

1943

The short-range forecast verification program was inaugurated by the Army Air Force Weather Service.

1943

Weather Wing Flight Control Command was activated at the Pentagon under the command of Lt. Col. William O. Senter.

1945

April 1 was the beginning of "Operation Iceberg" (the invasion of Okinawa by U.S. forces). During the fighting that ensued, units from three 7th Weather Squadron detachments provided support to Tenth Army elements.

1946

HQ AAF Weather Service moved from a short stint at Langley Field, Va., to be part of Air Transport Command at Gravelly Point, Washington DC.

1947

On April 1, the Army Air Force transferred \$1 million to the Army Signal Corps for procurement of the first 25 AN/GMD-1 rawinsonde sets for Air Weather Service.

1965

The first C-130E was picked up at the factory and delivered to the 53rd Weather Reconnaissance Squadron at Hunter AFB, Ga.

1965

The first two C-135 aircraft to be assigned to Air Weather Service were transferred from Military Air Transport Service's 1501st Air Transport Wing, Travis AFB, Calif., to the 55th and 56th Weather Reconnaissance Squadrons on April 22. The aircraft were to be used by crews to maintain their proficiency while awaiting arrival of eight weather-modified C-135s later in the year.

April 1966

The tenth annual AWS Commander's Awards (for 1965) were announced as follows:

1. Merewether Award: Maj.

Robert W. Fett, 1210th Weather Squadron.

2. Zimmerman Award: Lt. Col. John T. McCabe, 1210th WS.

3. Bassett Award: OL-1, Det. 4, 21st WS.

4. Senter Award: 53rd Weather Reconnaissance Squadron.

5. Yates Award: Aircrew 7, 53rd WRS.

6. Williams Award: Det. 28, 26th WS.

7. Moorman Award: Det. 40, 28th WS.

April 1, 1967

Det. 15, 9th Weather Squadron, 3rd Weather Wing, Walker AFB, N.M., was inactivated due to base closure.

Did You Know is brought to you by the Air Weather Service History Office. For more information, contact Lil Wilbur at "wilburl@hqaws.safb.af.mil" or call DSN 576-5654, ext. 258 or (618) 256-5654, ext. 258.

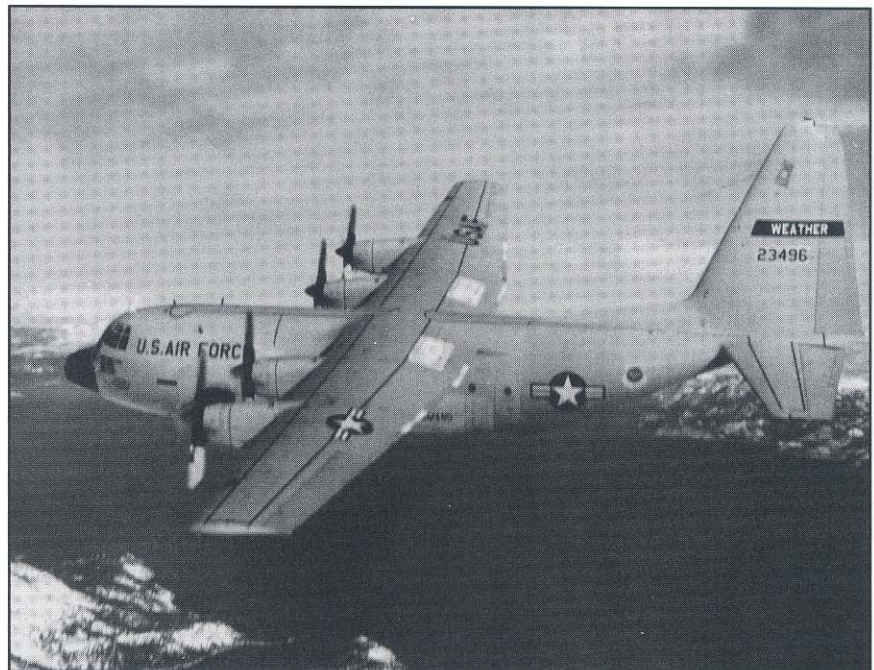


Photo Courtesy of AWS History Office

The first C-130E was picked up at the factory and delivered to the 53rd Weather Reconnaissance Squadron at Hunter AFB in 1965.

Keystone Of Air Operations

Accuracy Of Weather Data Important Throughout History

(Editor's Note: This story is reprinted from the January 1945 edition of The Weather Merchant, an official monthly unit newspaper published by, and for, all Army Air Forces weathermen in the Pacific Ocean Areas. While the article is more than 50 years old, its message still holds true today, especially in this year of the U.S. Air Force's 50th anniversary and Air Weather Service's 60th anniversary.)

"Every job in the weather service is important." So said Col. W.S. Stone, director of Army Air Forces Pacific Ocean Area Weather Services, at a staff meeting this month.

"No one should feel he is doing pointless work," the colonel said. "A single observation taken by a private first class at some rear-echelon base may provide the key to a difficult decision by tactical forecasters thousands of miles away, and indirectly may result in bombs on Tokyo."

Colonel Stone met with key officers in the AAF weather service in the Pacific to sum up results of weather work in both air and ground operations, and to plan further expansion of the service.

"Utmost care in the gathering and transmission of routine data is the keystone of successful results," Stone said. "The overall effectiveness of our forecasting depends entirely on the accuracy of our data. If an observer is careless in his elementary duties, he

lessens the efficiency of the whole service.

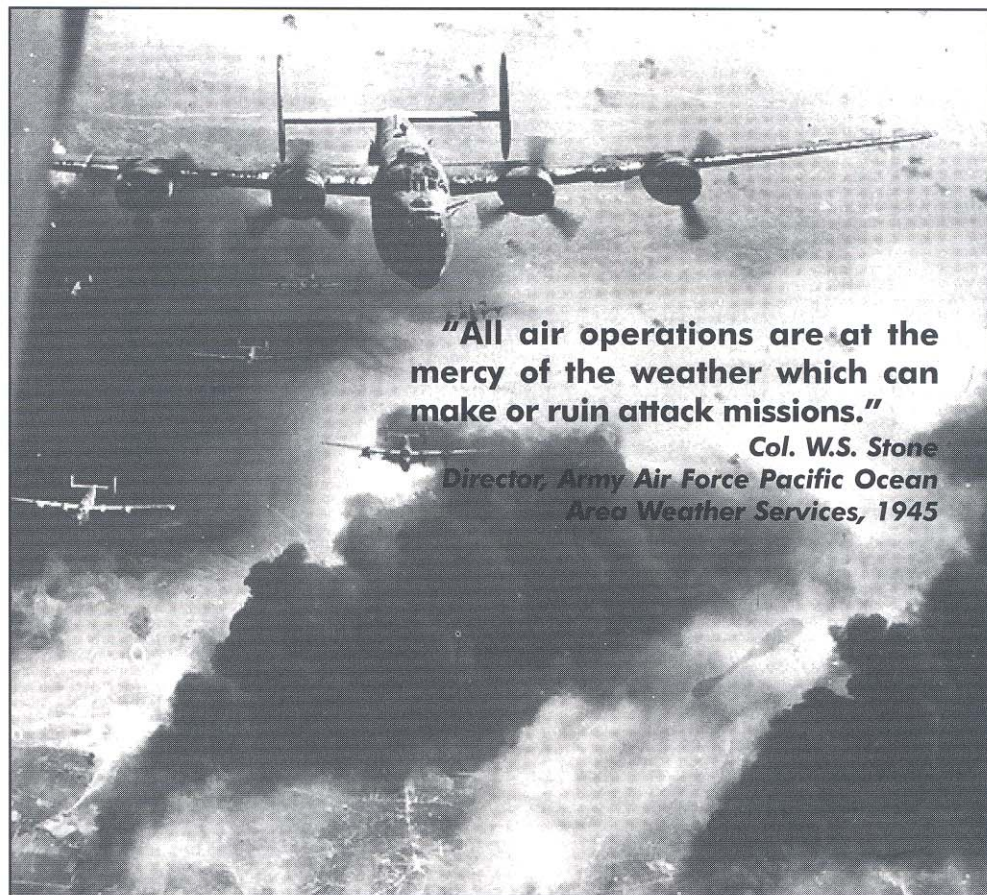
"A slipshod observation or rawinsonde run, a poorly spotted map, or an incorrectly encoded message may not be considered important by themselves," the colonel said. "But add a few of these together and you have an inaccurate map. If the forecaster in turn is careless, you have an inaccurate forecast. And on the basis of the poor forecast, planes can't find their targets."

All air operations are at the mercy of the weather which can make or ruin attack missions, interrupt the flow of supplies and replacements, or ground all planes for days on end, the colonel emphasized.

"We know by the recent breakthrough in Belgium what an implacable enemy weather can be, depriving our ground troops of all aerial support at a time they need it most," Stone said.

"The other side of the coin is true as well. For instance, weather was the best friend the Nazi high command could have. They timed their offensive perfectly to obtain the protection of bad weather," he said.

"We can do the same....turning weather into a help, instead of a hindrance," Stone said. "But the maintenance of a smooth-running weather organization, day in and day out, even in areas remote from action, is absolutely essential to our overall success."





Lt. Col. Nathan S. Feldman, 3rd WS, Fort Hood, Texas
Maj. David W. Sjostedt, 3rd WS, Fort Hood, Texas

AIR FORCE
MERITORIOUS SERVICE MEDAL



Staff Sgt. Alphonza V. Lesene, 3rd WS, Fort Hood, Texas
Senior Airman Jeffrey Godemann, 77th OSS/OSW, McClellan AFB, Calif.
Tech. Sgt. Gordon Given, 62nd OSS/OSW, McChord AFB, Wash. (4th OLC)
Capt. Bruce Van Aartsen, Det. 4, 7th WS, Trarbone Trarbach, Germany
Master Sgt. Gary D. Mercer, Det. 10, 7th WS, Giebelstadt, Germany
Tech. Sgt. Duane P. Bullard, 366th OSS/OSW, Mountain Home AFB, Idaho

AIR FORCE
COMMENDATION MEDAL

Senior Master Sgt. Jeffrey A. Fluegge, 25th ASOS, Wheeler AAF, Hawaii
Staff Sgt. Heidi J. Frost, 374th OSS/OSW, Yokota AB, Japan
Master Sgt. Milton G. Kooyman, 3rd WS, Fort Hood, Texas
Maj. Randall A. Skov, Det. 2, 7th WS, Hanau, Germany
Staff Sgt. John V. Weber, Det. 2, 7th WS, Hanau, Germany
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Staff Sgt. Allen Wright, Det. 6, 7th WS, Wiesbaden, Germany
Staff Sgt. James R. Tart, Det. 10, 7th WS, Giebelstadt, Germany
Staff Sgt. Mike Edelson, 21st ASOS/ASW, Fort Polk, La.
Tech. Sgt. Wasyf Hewko, 6th OSS/OSW, MacDill AFB, Fla.

ARMY COMMENDATION MEDAL

Senior Airman David M. Fischer, 325th OSS/OSW, Tyndall AFB, Fla.



Staff Sgt. Warren W. Weyer, 47th OSS/OSW, Laughlin AFB, Texas
Airman 1st Class Brian J. Deane, 47th OSS/OSW, Laughlin AFB, Texas
Airman 1st Class Jamileh Delcambre, 47th OSS/OSW, Laughlin AFB, Texas
Staff Sgt. Kevin Bourne, 353rd OSS/WX, Kadana AB, Japan
Staff Sgt. Dan Nelson, 62nd OSS/OSW, McChord AFB, Wash.
Tech. Sgt. Ramon Salmon, 62nd OSS/OSW, McChord AFB, Wash.
Senior Airman Anna M. Lewis, 92nd OSS/OSW, Fairchild AFB, Wash.
Airman 1st Class Kevin D. Helmbrecht, 92nd OSS/OSW, Fairchild AFB, Wash.
Airman 1st Class Keith J. Carter, 92nd OSS/OSW, Fairchild AFB, Wash.
Airman 1st Class John J. Jensen, 92nd OSS/OSW, Fairchild AFB, Wash.
Airman 1st Class James A. Catchpole, 366th OSS/OSW, Mountain Home AFB, Idaho

AIR FORCE ACHIEVEMENT MEDAL WITH VALOR

AIR FORCE
ACHIEVEMENT MEDAL

Tech. Sgt. Clyde R. Hunter, Det. 2, 10th CWS, Fort Campbell, Ky.
Staff Sgt. Brian H. Landroop, Det. 2, 10th CWS, Fort Campbell, Ky.
Senior Airman Timothy A. Sloan, Det. 2, 10th CWS, Fort Campbell, Ky. (1st OLC)
Senior Airman Steve D. Adams, Det. 2, 10th CWS, Fort Campbell, Ky. (1st OLC)
Staff Sgt. Ann C. Stubbs, 3rd WS, Fort Hood, Texas
Capt. Eric J. Barela, Det. 2, 7th WS, Hanau, Germany
2nd Lt. Jeffrey W. Budai, Det. 2, 7th WS, Hanau, Germany
Master Sgt. Michael J. Moll, Det. 2, 7th WS, Hanau, Germany
Staff Sgt. Randall V. Brooks, Det. 2, 7th WS, Hanau, Germany
Staff Sgt. Thomas J. Cardinal, Det. 2, 7th WS, Hanau, Germany
Staff Sgt. Dale A. Nelson, Det. 2, 7th WS, Hanau, Germany
Staff Sgt. John V. Weber, Det. 2, 7th WS, Hanau, Germany
Staff Sgt. Glenn P. Zilkentat, Det. 2, 7th WS, Hanau, Germany
Senior Airman William H. Ballard, Det. 2, 7th WS, Hanau, Germany
Airman Johanna R. Bruan, Det. 2, 7th WS, Hanau, Germany
2nd Lt. Kelly Doser, Det. 5, 7th WS, Katterbach, Germany
Staff Sgt. Israel A. Cruz-Colon, Det. 5, 7th WS, Katterbach, Germany
Senior Airman Troy Walker, Det. 5, 7th WS, Katterbach, Germany
Senior Airman Nicholas Ditano, Det. 5, 7th WS, Katterbach, Germany
Senior Airman Todd Mueller, Det. 3, 7th WS, Illshheim, Germany
Tech. Sgt. Raymond Perez, Det. 6, 7th WS, Wiesbaden, Germany
Airman 1st Class Eric C. Withrow, Det. 7, 7th WS, Grafenwoehr, Germany
Senior Airman Anna M. Lewis, 92nd OSS/OSW, Fairchild AFB, Wash.
2nd Lt. Patricia Vollmer, 21st ASOS/ASW, Fort Polk, La.
Staff Sgt. Kenny Brooks, 21st ASOS/ASW, Fort Polk, La.
Senior Airman Jake Arfa, 21st ASOS/ASW, Fort Polk, La.

ARMY ACHIEVEMENT MEDAL

JOINT MERITORIOUS UNIT AWARD

Tech. Sgt. John R. Walsh, Det. 2, 10th CWS, Fort Campbell, Ky.

1st Lt. Jason E. Hoffman, Det. 2, 10th CWS, Fort Campbell, Ky.
Tech. Sgt. Clyde R. Hunter, Det. 2, 10th CWS, Fort Campbell, Ky.
Staff Sgt. Brian H. Landroop, Det. 2, 10th CWS, Fort Campbell, Ky.
Senior Airman David D. Vachon, Det. 2, 10th CWS, Fort Campbell, Ky.



COMBAT READINESS MEDAL

Tech. Sgt. Clyde R. Hunter, Det. 2, 10th CWS, Fort Campbell, Ky.
Senior Airman Timothy A. Sloan, Det. 2, 10th CWS, Fort Campbell, Ky.



AIR FORCE
GOOD CONDUCT MEDAL

Airman 1st Class Christopher French, 374th OSS/OSW, Yokota AB, Japan
Senior Airman Christopher Conklin, 3rd WS, Fort Hood, Texas
Senior Airman Brian Bishop, 3rd WS, Fort Hood, Texas
Senior Airman Patrick Berry, 3rd WS, Fort Hood, Texas



SMALL ARMS EXPERT RIBBON

Staff Sgt. Ronald L. Richards, 25th ASOS, Wheeler AAF, Hawaii

KUWAITI LIBERATION MEDAL

Tech. Sgt. Clyde R. Hunter, Det. 2, 10th CWS, Fort Campbell, Ky.
Tech. Sgt. John R. Walsh, Det. 2, 10th CWS, Fort Campbell, Ky.
Staff Sgt. Rachelle J. McAtee, 3rd WS, Fort Hood, Texas



ARMED FORCES SERVICE MEDAL

Staff Sgt. Iwana Bruns, 21st ASOS/ASW, Fort Polk, La.
Staff Sgt. Kenny Brooks, 21st ASOS/ASW, Fort Polk, La.

NATO MEDAL

Staff Sgt. Iwana Bruns, 21st ASOS/ASW, Fort Polk, La.
Staff Sgt. Kenny Brooks, 21st ASOS/ASW, Fort Polk, La.

PROMOTIONS



Dave Pasqualini, ACC AOS/AOW, Langley AFB, Va.



Joseph Schwarz, 305th OSS/OSW, McGuire AFB, N.J.
Lendy G. Renegar, HQ AMCTACC/XOW, Scott AFB, Ill.



Leonard L. Czepiel, 77th OSS/OSW, McClellan AFB, Calif.
Ronald C. Mueller, OL-C, 18th WS, Fort Knox, Ky.



Jeffrey A. Fluegge, 25th ASOS, Wheeler AAF, Hawaii



Scott A. Schultz, Air Force Combat Climatology Center, Scott AFB, Ill. (STEP promotee)
Gary D. Mercer, Det. 10, 7th WS, Giebelstadt, Germany
Timothy J. Scheidt, Det. 10, 7th WS, Giebelstadt, Germany
Michael A. Willen, Det. 7, 7th WS, Grafenwoehr, Germany (STEP promotee)
Harold D. Eifert, HQ AMCTACC/XOW, Scott AFB, Ill.



Karl Lumbra, 3rd WS, Fort Hood, Texas
Lance Halsey, ACC AOS/AOW, Langley AFB, Va.
Patrick Barcelona, 62nd OSS/OSW, McChord AFB, Wash.
Brad A. Medlin, Det. 5, 7th WS, Katterbach, Germany
Raymond Perez, Det. 6, 7th WS, Wiesbaden, Germany
Scott Price, OL-D, 7th WS, Kaiserslautern, Germany (STEP promotee)
Wendell Foreman, 6th OSS/OSW, MacDill AFB, Fla.



Bill Morin, 3rd WS, Fort Hood, Texas
Tom Hakes, Det. 2, 7th WS, Hanau, Germany



Mike Thornbury, 31st OSS/OSW, Aviano AB, Italy
 Loline Brown, 305th OSS/OSW, McGuire AFB, N.J. (Below The Zone promotee)
 Lakisha Burton, 24th WS, Howard AFB, Panama
 James Durio, 24th WS, Howard AFB, Panama
 Jesse W. Naylor, OL-C, 18th WS, Fort Knox, Ky.
 Renee M. Torres, 366th OSS/OSW, Mountain Home AFB, Idaho



James Kramer, 3rd WS, Fort Hood, Texas
 Melanie Kytola, 3rd WS, Fort Hood, Texas
 Jonathon Barnes, 3rd WS, Fort Hood, Texas
 Amanda K. Glynn, 47th OSS/OSW, Laughlin AFB, Texas
 Robert J. Skelton, 25th ASOS, Wheeler AAF, Hawaii
 Linward C. Edwards, 25th ASOS, Wheeler AAF, Hawaii
 Tasha Fisher, 374th OSS/OSW, Yokota AB, Japan
 Ivet Besovic, 62nd OSS/OSW, McChord AFB, Wash.
 Johanna R. Braun, Det. 2, 7th WS, Hanau, Germany
 Jessica D. Cartegena, Det. 5, 7th WS, Katterbach, Germany
 Bret A. Schumacher, Det. 5, 7th WS, Katterbach, Germany
 Kevin Boehm, A Flt., 7th WS, Heidelberg, Germany
 Brian Macho, 27th OSS/OSW, Cannon AFB, N.M.
 Cindy Wright, 27th OSS/OSW, Cannon AFB, N.M.
 Scott B. Kormanyos, OL-C, 18th WS, Fort Knox, Ky.



William A. Everett, 77th OSS/OSW, McClellan AFB, Calif

HAIL AND FAREWELLS

Master Sgt. Bill Luther — to 3rd WS, Fort Hood, Texas, from 3rd ASOG, Fort Hood, Texas
 Master Sgt. Steven Yelenic — to 3rd WS, Fort Hood, Texas, from Keesler AFB, Miss.
 Staff Sgt. John Kovachich — to 3rd WS, Fort Hood, Texas, from Keesler AFB, Miss.
 Senior Airman Frank Kohler — to 3rd WS, Fort Hood, Texas, from 712th ASOS, Fort Hood, Texas
 Master Sgt. John Hampshire — to Davis-Monthan AFB, Ariz., from 3rd WS, Fort Hood, Texas
 Master Sgt. Gary Tryon — to 3rd ASOG, Fort Hood, Texas, from 3rd WS, Fort Hood, Texas
 Staff Sgt. Jim Barton — to Eielson AFB, Alaska, from 3rd WS, Fort Hood, Texas
 Staff Sgt. Tamela Gaskins — to Kunsan AB, Korea, from 3rd WS, Fort Hood, Texas
 Airman 1st Class Charlotte Hansen — to Keesler AFB, Miss., from 3rd WS, Fort Hood, Texas
 Airman 1st Class Tobias Manzanares — to Camp Humphreys, Korea, from 3rd WS, Fort Hood, Texas
 Senior Airman Mark Reed — to Osan AB, Korea, from 3rd WS, Fort Hood, Texas
 Staff Sgt. Ann Stubbs — to 3rd WS, Fort Hood, Texas, from Fort Campbell, Ky.
 Senior Airman Jason Miller — to 3rd WS, Fort Hood, Texas, from Keesler AFB, Miss.
 Senior Airman Patrick Berry — to 3rd WS, Fort Hood, Texas, from Keesler AFB, Miss.
 Senior Airman Brian Newman — to Camp Red Cloud, Korea, from 3rd WS, Fort Hood, Texas
 Airman 1st Class Jinhak Dakanee — to Hickam AFB, Wash., from 47th OSS/OSW, Laughlin AFB, Texas
 Airman 1st Class Brian J. Deane — to Grafenwoehr, Germany, from 47th OSS/OSW, Laughlin AFB, Texas
 Staff Sgt. Richard J. Ritter — to Hickam AFB, Hawaii, from 25th ASOS, Wheeler AAF, Hawaii
 Master Sgt. Tamody Crane — to 18th ASOG, Pope AFB, N.C., from 36th OSS/OSW, JTW, Andersen AFB, Guam
 Master Sgt. Ronald Hoover — to 36th OSS/OSW, JTW, Andersen AFB, Guam, from Keesler AFB, Miss.
 Tech. Sgt. Harry Lind — to 36th OSS/OSW, JTW, Andersen AFB, Guam, from Keesler AFB, Miss.
 2nd Lt. Elizabeth A. Boll — to 374th OSS/OSW, Yokota AB, Japan, from Keesler AFB, Miss.
 1st Lt. Morgan D. Mackey — to 374th OSS/OSW, Yokota AB, Japan, from Keesler AFB, Miss.
 Airman 1st Class Shelton Robinson — to 374th OSS/OSW, Yokota AB, Japan, from Little Rock AFB, Ark.
 Staff Sgt. Rodney C. Voshell — to Dyess AFB, Texas, from 374th OSS/OSW, Yokota AB, Japan
 Senior Airman Kenneth E. Harris — to Det. 2, 10th CWS, Fort Campbell, Ky., from Keesler AFB, Miss.
 Senior Airman Richard C. Bollinger — to Det. 2, 10th CWS, Fort Campbell, Ky., from Keesler AFB, Miss.
 Senior Airman James P. Harding — to Det. 2, 10th CWS, Fort Campbell, Ky., from Keesler AFB, Miss.
 Senior Airman Jeffrey Godmann — to Koon N Range, Korea, from 77th OSS/OSW, McClellan AFB, Calif.
 Staff Sgt. Michael Louridas — to 77th OSS/OSW, McClellan AFB, Calif., from Andersen AB, Guam
 Airman William Everett — to 77th OSS/OSW, McClellan AFB, Calif., from Keesler AFB, Miss.
 Tech. Sgt. Kevin Johnson — to 353rd OSS/WX, Kadana AB, Japan, from Charleston AFB, S.C.
 Senior Airman Maria Rollings — to 62nd OSS/OSW, McChord AFB, Wash., from Kelly AFB, Texas
 Tech. Sgt. Ramon Salmon — to 62nd OSS/OSW, McChord AFB, Wash., from Keesler AFB, Miss.
 Tech. Sgt. Gordon Given — to 62nd OSS/OSW, McChord AFB, Wash., from Keesler AFB, Miss.
 Senior Airman Michael Ramsey — to 62nd OSS/OSW, McChord AFB, Wash., from Camp Eagle, Korea
 Senior Airman Jeremy A. Entwistle — to Det. 1, 7th WS, Bad Kreuznach, Germany, from Altus AFB, Okla.
 Maj. David E. Landers — to Det. 1, 7th WS, Bad Kreuznach, Germany, from Pope AFB, N.C.
 Senior Airman Bruce A. Frost — to Keesler AFB, N.C., from Det. 1, 7th WS, Bad Kreuznach, Germany
 Senior Master Sgt. Scott D. Weber — to A Flt., 7th WS, Heidelberg, Germany, from Malstrom AFB, Mont.
 Maj. Robert Medred — to Det. 8, 7th WS, Heidelberg, Germany, from Fort Bragg, N.C.
 Staff Sgt. Robert Duff — to Det. 4, 7th WS, Traben Trarbach, Germany, from Fort Hood, Texas
 Tech. Sgt. Gary Bannick — to Andersen AFB, Guam, from Det. 4, 7th WS, Traben Trarbach, Germany
 Sgt. Christopher Browning — to Det. 4, 7th WS, Traben Trarbach, Germany, from Hurlbert Field, Fla.
 Senior Airman Eneko Maura — to Eglin AFB, Fla., from Det. 4, 7th WS, Traben Trarbach, Germany
 Staff Sgt. Wanda D. Camacho — to Hunter AAF, Ga., from Det. 9, 7th WS, Hohenfels, Germany
 Airman 1st Class Brian Hankey — to Det. 8, 7th WS, Sandhofen, Germany, from Keesler AFB, Miss.
 Tech. Sgt. Daniel W. Jones — to Holloman AFB, N.M., from A Flt., 7th WS, Heidelberg, Germany
 Airman 1st Class Donna Tiedel — to 36th OSS/OSW, JTW, Andersen AFB, Guam, from Tinker AFB, Okla.
 Airman Jason Dobbins — to 36th OSS/OSW, JTW, Andersen AFB, Guam, from Keesler AFB, Miss.
 Senior Airman Deron Harrison — to 21st ASOS/ASW, Fort Polk, La., from Camp Red Cloud, Korea
 Senior Airman Kevin Bottino — to Keesler AFB, Miss., from 21st ASOS/ASW, Fort Polk, La.
 Senior Airman Jake Arfa — to Keesler AFB, Miss., from 21st ASOS/ASW, Fort Polk, La.
 Airman 1st Class Troy Misiak — to Osan AB, Korea, from 6th OSS/OSW, MacDill AFB, Fla.
 1st Lt. Bruce B. Stansbury — to 27th OSS/OSW, Cannon AFB, N.M.
 Airman 1st Class Angela Gregoire — to Osan AB, Korea, from 27th OSS/OSW, Cannon AFB, N.M.
 Senior Airman David J. Correa — to 27th OSS/OSW, Cannon AFB, N.M., from Keesler AFB, Miss.
 Senior Airman William Eberly — to 27th OSS/OSW, Cannon AFB, N.M., from Kunsan AB, Korea
 1st Lt. Michael J. Richman — to 412th OSS/OSW, Edwards AFB, Calif., from Altus AFB, Okla.
 Staff Sgt. Lionel V. Garrett — to 412th OSS/OSW, Edwards AFB, Calif., from Ramstein AFB, Germany
 Senior Airman Jessica K. Clarke — to 412th OSS/OSW, Edwards AFB, Calif., from Keesler AFB, Miss.
 Airman 1st Class James J. Adams — to 412th OSS/OSW, Edwards AFB, Calif., from Grand Forks AFB, N.D.
 Tech. Sgt. Perry D. MacLain — to 366th OSS/OSW, Mountain Home AFB, Idaho, from 3rd OSS/OSW, Elmendorf AFB, Alaska
 Senior Airman Sharon Cobbs — to Keesler AFB, Miss., from 366th OSS/OSW, Mountain Home AFB, Idaho

1st Lt. David D'Arcangelo — to Pentagon, Washington, D.C., from 89th OSS/OSW, Andrews AFB, Md.
 2nd Lt. Terry Lane — to 89th OSS/OSW, Andrews AFB, Md., from Keesler AFB, Miss.
 Capt. Patrick Ludford — to HQ ACC, Langley AFB, Va., from 12th OSS/OSW, Randolph AFB, Texas

REENLISTMENTS

Staff Sgt. Gina Bates, ACC AOS/AOW, Langley AFB, Va.
 Staff Sgt. Thomas J. Cardinal, Det. 2, 7th WS, Hanau, Germany
 Staff Sgt. Israel A. Cruz-Colon, Det. 5, 7th WS, Katterbach, Germany
 Tech. Sgt. Gary R. Bannick, Det. 4, 7th WS, Traben Trarbach, Germany
 Tech. Sgt. Scott Kidder, Det. 6, 7th WS, Wiesbaden, Germany
 Staff Sgt. Iwana Bruns, 21st ASOS/ASW, Fort Polk, La.

RETIREMENTS

Chief Master Sgt. William M. Scheib, HQ AWS/XOOS, Scott AFB, Ill.
 Master Sgt. Sandra Bradley, Det. 4, 7th WS, Traben Trarbach, Germany
 Master Sgt. Uidell E. Mentola, Det. 5, 7th WS, Katterbach, Germany
 Tech. Sgt. Michael Blomquist, 89th OSS/OSW, Andrews AFB, Md.

SEPARATIONS

Airman 1st Class Galeasia L. Carter, 47th OSS/OSW, Laughlin AFB, Texas
 Staff Sgt. Tracey Ress, ACC AOS/AOW, Langley AFB, Va.
 Staff Sgt. Luis Espanola, ACC AOS/AOW, Langley AFB, Va.
 Staff Sgt. Eric G. Garcia, 374th OSS/OSW, Yokota AB, Japan
 Senior Airman Michael P. Homan, Det. 2, 10th CWS, Fort Campbell, Ky.
 Senior Airman Justin P. Levine, Det. 2, 10th CWS, Fort Campbell, Ky.
 1st Lt. Jason Hoffman, Det. 2, 10th CWS, Fort Campbell, Ky.

EDUCATION

Satellite Photo Interpretation Course

Senior Airman Dawn M. Ross, 47th OSS/OSW, Laughlin AFB, Texas
 Master Sgt. Ronald Hoover, 36th OSS/OSW, JTW, Andersen AFB, Guam

Advanced Weather and Able Forecaster Course (Class 961120)

Staff Sgt. William Baird — to NAS Willow Grove, Pennsylvania ANG
 Senior Airman Kenneth Ferland — to U.S. Air Force Academy, Colo. (Distinguished Graduate)
 Senior Airman Ken Galloway — to Cannon AFB, N.M.
 Senior Airman Michael Gordy — to Keesler AFB, Miss.
 Senior Airman Kelly Gould — to Fort Lewis, Wash.
 Senior Airman James Harding — to Fort Campbell, Ky.
 Senior Airman Shawn Harvey — to Barnes AFB, Mass. ANG
 Senior Airman Lawrence Promenchenkel — to Maxwell AFB, Ala.
 Airman 1st Class Paul Siegrist — to Peterson AFB, Colo.
 Staff Sgt. Gary Silvia — to Otis ANGB, Mass. ANG
 Senior Airman Christina Willis — to Oklahoma ANG

Squadron Officer School

Capt. William J. Carle, 36th OSS/OSW, JTW, Andersen AFB, Guam
 Capt. Mark R. Lajoie, HQ 7th WS, Heidelberg, Germany
 Capt. David C. Runge, OL-E, 7th WS, Vicenza, Italy

Tropical Weather Forecasting and Analysis

Master Sgt. Ronald Hoover, 36th OSS/OSW, JTW, Andersen AFB, Guam
 Tech. Sgt. Harry Lind, 36th OSS/OSW, JTW, Andersen AFB, Guam
 Staff Sgt. Craig Bouchillon, 36th OSS/OSW, JTW, Andersen AFB, Guam
 Senior Airman Steve D. Adams, Det. 2, 10th CWS, Fort Campbell, Ky.

NASA MDDAS Satellite Analysis Workstation Systems Manager Course

Staff Sgt. Craig Bouchillon, 36th OSS/OSW, JTW, Andersen AFB, Guam

101st Airborne Division Ropemaster Course

Senior Airman David D. Blankenship, Det. 2, 10th CWS, Fort Campbell, Ky.

Senior Airman David D. Vichon, Det. 2, 10th CWS, Fort Campbell, Ky.

EOTDA Course

Staff Sgt. Brian H. Landtroop, Det. 2, 10th CWS, Fort Campbell, Ky.

High Frequency Net Control Workshop

Senior Airman Timothy A. Sloan, Det. 2, 10th CWS, Fort Campbell, Ky.

Airman Leadership School

Senior Airman David J. Palumbo, 77th OSS/OSW, McClellan AFB, Calif.
 Senior Airman William Ballard, Det. 2, 7th WS, Hanau, Germany (Distinguished Graduate)
 Senior Airman Charles R. Hoffman, Det. 10, 7th WS, Giebelstadt, Germany (Distinguished Graduate)
 Senior Airman Shane Byrd, Det. 6, 7th WS, Wiesbaden, Germany

NCO Academy

Tech. Sgt. Gary Binnick, Det. 4, 7th WS, Traben Trarbach, Germany

Weather Officer Course Graduates (Class 961023)

2nd Lt. William Bagby — to Andersen AFB, Guam
 2nd Lt. Michael Darwin — to Grand Forks AFB, N.D.
 2nd Lt. Robin De La Vega — to RAF Mildenhall, United Kingdom
 2nd Lt. Robert Edwards — to Barksdale AFB, La. (Distinguished Graduate)
 2nd Lt. Todd Fine — to Kadana AB, Japan
 2nd Lt. Gregory Fox — to Peterson AFB, Colo.
 2nd Lt. Elton Gray — to RAF Lakenheath, U.K.
 2nd Lt. Thomas Holts — to Fairchild AFB, Wash.

Master of Education Degree (from University of Southern Mississippi)

Tech. Sgt. James Sullivan, 334th TRS/TM, Keesler AFB, Miss.

AWDS Systems Managers Course

Tech. Sgt. Paul W. Shelley, HQ AMCTACC/XOW, Scott AFB, Ill.

Weather Journeyman EOC

Airman 1st Class Emili A. Drennon, 412th OSS/OSW, Edwards AFB, Calif.

AWARDS

3rd WS Outstanding Company Grade Officer of the Quarter (3rd apr.)

2nd Lt. Michael Scott, 3rd WS, Fort Hood, Texas

3rd WS Senior NCO of the Quarter

Master Sgt. John Hampshire, 3rd WS, Fort Hood, Texas

See SALUTES,

continued on Page 22

School

**Weather Education Takes On Many Forms, For
Enlisted, Officers, And Cadets**

Days

The Weather Schoolhouse Keesler AFB,

**by Maj. Mike Babcock
334 TRS/TTMV
Weather Training Flight**

As the face of Air Force Weather begins to change with the advent of reengineering, the schoolhouse has started to tackle the new challenges necessary to improve training to satisfy requirements in the field.

The staff is incorporating new technology including electronic media instructional presentations and expansion of Internet access to AFWIN and other weather web sites. Moreover, upgrading of local area network capabilities will make resources readily available throughout the facility. Acquisition of new systems such as the Meteorological Information Standard Terminal (MIST) and the Tactical Forecast System (TFS) is also in progress.

The following are some of the major events going on in each of our key sections.

Officer Course

The officer's course has been in operation for more than a year and a half, with more than 50 lieutenants already graduated. Response from the field has been very positive, making it clear this was a valuable addition to the career field. Another first is underway: a class with international students—two

weather officers from Japan.

This small but busy section of the school is now working to incorporate officer combat/field skills training (CFST) at Hurlburt Field, Fla., adding another important dimension to officer training.

More than 400 enlisted apprentice students from Keesler go to Hurlburt for enlisted Combat Field Skills Training (CFST) each year. That leaves little opportunity for instructors to teach supplemental courses or add the officer training, but we're committed to making it happen, delivering new officers even better prepared for weather operations for the warfighter.

Forecaster Course

Forecaster training is under evaluation, as changes from the elimination of the single schoolhouse are now behind us. An enormous amount of time has been spent making improvements, such as strengthening the forecasting lab and reordering some instruction to provide a better flow and grouping of subjects. Mesoscale analysis and forecasting and convective severe weather are two areas that are completely revised. In the last 12 to 15 months, these improvements have resulted in a reduction of the elimination rate to an all-time low of five percent.

Preparations are being made for future implementation of the MIST systems, and an upgrade is in the works for our weather station operations labs to allow more realistic simulations of a base weather station. We're also looking to bring lightning detection data into each lab and provide LAN connectivity for access to AFWIN.

Apprentice Course

Apprentice students started going to Hurlburt Field for combat/field skills training about 15 months ago and it has proven to be a big success. While they're not ready to go directly into a combat situation with only one week of field training, at least they have been exposed to a tactical environment and the complexities it brings to the weather warrior's mission. The trainers at Hurlburt have been doing a great job!

Our weather station operations lab has been equally successful by tying everything together and forcing a review of all material at the end of the course. The students get hands-on experience in an environment simulating the weather station, enabling them to walk into a weather station and become productive in minimum time.

The METAR (aviation routine weather reports) conversion last summer continues to produce some occasional turbulence with minor code changes still occurring. We then coordinate appropriate training agreeable to all the services (forms and remarks differ).

Our main effort now is beefing up other areas of the course based on comments we've received from you. We're working toward more Automated Weather Distribution System (AWDS) and WSR-88D Next Generation Radar (NEXRAD) training.

Supplemental Courses

We culminated our NEXRAD mobile training team (MTT) mission in December 1996 with the completion of training at Lajes Field, Azores.

During the last three years, more than 150 units have been trained to employ this fantastic tool. Even though our radar MTTs are complete, the MTT mission for satellite and electro-optics training is growing considerably.

Improvements in the satellite course for resident and MTT training include the conversion to an electronic presentation format using new imagery from the current satellites. We're looking for a few more case studies to round out the course with new products, while incorporating more materials from the small tactical terminal (STT) to coincide with fielding of the system.

Implementation of the Tactical Forecast System looms large on the horizon and we're developing a supplemental course for system managers. We should receive at least three terminals late this year and plan to start the course in 1998. We're also looking at how we can incorporate TFS in our future apprentice, forecaster, and officer training.

We're busy with AWDS as well, installing and testing the VSAT system this month and then setting up one of the first operational sites early next fall. To meet increasing training needs, we recently installed our fifth AWDS and another is on the way. In September, we hope to hook all six up to VSAT and start developing training for this new capability.

The big project in the supplemental area is the development of the Electro-Optics Distance Learning (EODL) program. We will launch this course in the fourth quarter of FY97 as a replacement for the resident course and eventually for the MTT course as well. The EODL course is based on the same training standard as

the current resident and mobile courses, but will use a combination of videotape, interactive multimedia courseware provided by CD-ROM, and live satellite video teletraining links to education offices at Air Force bases across the country.

The Air Education and Training Command plans to expand the satellite links to reach overseas Air Force bases, then connect with Army installations, and finally to reach Navy ships at sea. In the interim, we expect to continue our mobile course to meet overseas training requirements. We've invested more than 1,000 extra hours of work in this project to make it a professional product. It's flexible,

"We continue to work hard to improve training that satisfies requirements in the field."

**Maj. Mike Babcock
334 TRS/TTMV
Weather Training Flight**

easy to use, and rivals the quality of any commercial CD-ROM interactive software. We'll be providing you more information through an article in the Observer and we'll be e-mailing a hypertext file with an introduction to EODL to your MAJCOMs.

Craftsman Course

One of the past Year of Training initiatives was a mandatory two-week 7-level course for all enlisted career fields. Weather was one of several career fields with courses initially postponed due to funding shortages, but we're now progressing toward a September 1997 launch. The course will

cover a range of topics that will prepare graduates to begin assuming management duties within a weather station.

Career Development Courses (CDCs)

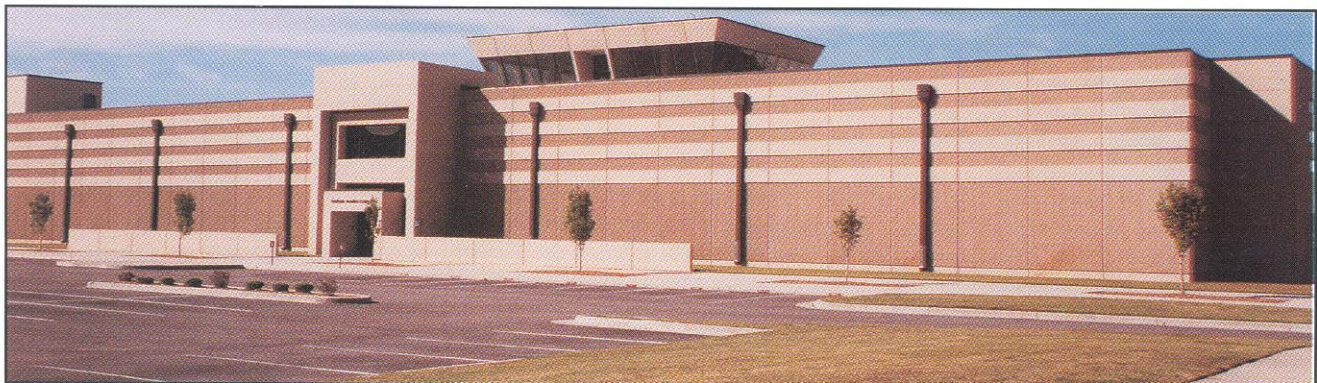
Our 5-level CDCs have been on the street for over a year now and have worked very well. We've just completed the first of two special courses (SC1W01) as a precursor to forecaster school and for mandatory review after forecaster school. This course started up about eight months ago and is working well. The final volumes of this course were recently published and are available to students.

Our CDC writers are working on a second special course in conjunction with the Craftsman Course due for launch in September. We plan to bring it on line in March 1998.

Summary

We continue to work hard to improve training to satisfy requirements from the field users. We appreciate the response we've received from you -- and we need more. Please complete and return the graduate assessment surveys and don't hesitate to pick up the phone and give us a call. My phone number is DSN 597-0361.

For questions on the officer course, contact Capt. Fred Williams at DSN 597-7153; on the forecaster course, Senior Master Sgt. Mike Dougherty, DSN 597-0331; on the apprentice course, Mr. Garey Simants, DSN 597-0300; and on supplemental courses, Capt. Chris Donahue, DSN 597-0201. We also have a web site with course information, school information, and links to some great weather sites. The URL is "<http://www.keee.aetc.af.mil/334trs/weather.htm>".



The Weather Schoolhouse at Keesler AFB, Miss.

Air Force Institute of Technology

Wright-Patterson AFB, Ohio

by Maj. Jason P. Tuell
Assistant Professor of
Atmospheric Physics

Beginning with the 1995-1996 academic year, the Air Force Institute of Technology began offering an in-residence graduate meteorology program focused on combat weather.

The first class of nine students from the in-residence meteorology program graduated March 25, 1997, almost 18 months after entering the new program. All in-residence meteorology students made significant research contributions to Air Force-sponsored problems.

This research represents approximately \$1 million dollars in savings – funds the Air Force would spend if this work were contracted out. Additionally, the students made valuable contributions to the Air Force mission, tackling problems which impact military systems today and in the future.

The in-residence program complements civilian institutions' meteorology programs, but does not replace them. The Air Force still sends students to civilian institutions for education in areas where the AFIT program offers little expertise. The in-residence program differs from its civilian counterpart in its military emphasis and length. It leads to a master's degree in 18 months compared to 21 months for the typical civilian program.

The purpose of the in-residence meteorology program is to produce mission-ready advanced weather officers who are capable of meeting the technical challenges of military meteorology.

The program emphasizes military applications throughout the entire curriculum. Instead of fostering narrow specialization, the in-residence program provides a broad meteorological education, preparing weather officers for the technical challenges encountered throughout an Air Force career.

AFIT's in-residence graduate meteorol-



Members of the first-ever AFIT in-residence graduate-level combat weather course and the AFIT staff and faculty, from left: (front row) Maj. Jason Tuell, assistant professor of atmospheric physics; Maj. Cliff Dungey, assistant professor of atmospheric physics; Capt. Allen Rabayda; Master Sgt. Peter Rahe, superintendent of meteorology lab operations; Capt. Andrew Doodnite; Capt. Clifton Stargardt; Lt. Col. Mike Walters, assistant professor of atmospheric physics; (back row, from left) Maj. Derrill Goldizen, assistant professor of atmospheric physics; Capt. Daniel Farris; Capt. Matthew Doggett; 2nd Lt. Edward Harris; Capt. Ronald Comoglio; Capt. Jay DesJardins; and Capt. Robert Asbury.

ogy program came about when Brig. Gen. Thomas J. Lennon, former director of weather, requested a program focusing on military meteorology.

The in-residence program is built around an integrated course of study with one quarter devoted to full-time research. The course work is divided into three areas: core courses, applications courses, and electives.

The core courses consist of classes in advanced dynamic meteorology, radiative transfer, and advanced synoptic meteorology.

These core courses have graduate level prerequisites in dynamic meteorology, physical meteorology and synoptic meteorology; students who meet the prerequisites may choose additional electives in their place.

The applications sequence consists of courses in mesoscale meteorology, numerical weather prediction, satellite meteorology, tropical meteorology, radar meteorology, and climatology.

Electives include courses in applied mathematics, statistics, and computer science.

Synoptic meteorology and the applications courses use the meteorology lab extensively. The meteorology lab consists of two NEXRAD workstations, eight Sun SPARC 20 and three Sun SPARC 2 workstations, a suite of observing equipment and personal computers, and a multimedia training system. The SPARC 20s will host the Tactical Forecast Systems software which is a follow-on to the Automated Weather Distribution System (AWDS) software.

This combat weather capability plus other software packages will enable the stu-

dents to do world-wide synoptic and climatological studies using weather data from the Air Force Global Weather Center, the National Centers for Environmental Prediction and other weather centers.

In addition, AFIT will have a software package which will enable students to conduct research improving the NEXRAD algorithms to better meet Defense Department needs. AFIT currently uses the Unidata suite of visualization software for data ingest and display.

AFIT has four faculty members dedicated to the in-residence graduate programs in meteorology and space environmental support. The faculty and staff are: Lt. Col. Mike Walters, Maj. Jason Tuell, Maj. Cliff Dungey, Maj. Derrill Goldizen and Master Sgt. Pete Rahe.

AFIT has a history of responding quickly to the changing needs of the Air Force, creating new educational programs designed to meet new and evolving technologies.

The new in-residence graduate meteorology program is a clear example of AFIT meeting Air Force needs in a timely and meaningful way. The program produces mission-ready advanced weather officers who can respond to challenges ranging from leading tomorrow's high technology base weather stations to providing highly technical staff meteorological services in support of research and acquisition programs.

More information about the in-residence meteorology program can be found at web site "<http://www.afit.af.mil/Schools/EN/ENP/Gdp/metprg.html>".

United States Air Force Academy

Colorado Springs, Colo.

The newest source of officer accessions into the weather career field is the U.S. Air Force Academy (USAFA), where a meteorology program began in 1993.

It is an interdisciplinary program with two faculty members assigned to the Department of Physics (DFP), and two faculty members and the NCOIC of the Meteorology Laboratory assigned to the Department of Economics and Geography (DFEG). The current faculty members are Capt. Kurt Brueske and Dr. Sue Haupt who join Lt. Col. Delores Knipp in DFP, and Dr. Tom Koehler, Capt. Ken Hart and Master Sgt. Fabrice "Frenchie" Clark in DFEG.

The main objective of academic programs at USAFA is to provide a concentration of study that will prepare graduates to become future air and space leaders. The meteorology program provides an academic curriculum equivalent to any other undergraduate meteorology program in the country, only in a military setting.

While graduates from our program meet the qualifications for entry into the weather career field, a majority of them move on to undergraduate pilot or navigator training (UPT/UNT) to become aviators. Their academic background in meteorology provides them with valuable insight about the environment in which they fly.

Three members of the Class of 1995 were first to graduate from the Academy with a bachelor of science degree in geography in what was called the meteorology track. One member of that class, 2nd Lt. Brian Schnitker, entered directly into the weather career field, while classmates, 2nd Lts. Brian Baldwin and Jason Palma worked at the Peterson AFB weather flight for several months, qualifying to wear the Air Force Meteorologist Badge, before they reported for UPT and UNT respectively.

A fourth member of the Class of 1995, 2nd Lt. Bob Wacker, took some additional meteorology courses while completing a B.S. in Physics. He recently graduated from Texas A&M University with a master's degree in meteorology, and entered the weather career field.

by Dr. Thomas Koehler
Associate Professor of
Meteorology
U.S. Air Force Academy

Three graduates from the Class of 1994, 2nd Lts. Lisa Hagerman (physics), Debra Hoium (mathematics) and Morgan Mackey (geography) also entered the weather career field after completing graduate meteorology studies.

Two of the six meteorology track graduates from the Class of 1996 entered the weather career field — 2nd Lts. Chris Finnigsmier and Jack Floyd. 2nd Lt. Christopher Wohlwend, a Physics graduate, is in the AFIT in-residence program at Wright-Patterson AFB, Ohio, working on an M.S. in meteorology. 2nd Lt. Chris Bacon also earned his Meteorologist Badge at Peterson before moving on to UPT.

Three of six graduates from the Meteorology Track in the Class of 1997, Cadets 1st Class Brian Kabat, Sean

engineering, social science, humanities, military science, physical education and aviation courses.

The electives for meteorology majors include two courses selected from a course in Geographic Information Systems, a physical geography course, a differential equations course and an aviation physics course.

State-of-the-art facilities available for meteorological instruction and learning at USAFA are the envy of many other undergraduate programs. Air Weather Service has provided invaluable support to our program from its inception, particularly by providing the equipment and data for use in instruction, including 14 AWDS workstations, a NEXRAD PUP associated with the Pueblo, Colo., radar, a satellite looper and 10 PC workstations capable of running the COMET modules for computer-based learning.

The Dean of the Faculty at USAFA has provided the resources for the unique classroom video display system in the Meteorology Laboratory that allows us to display up to three video sources in the classroom, simultaneously, from eight possible video inputs. DFP also uses a networked classroom with 12 computers linked to the Internet.

Another exciting recent development at USAFA has been the addition of meteorology to the core options. A new course, *Geography 210 — Geography and Weather: AirLand Regions and Processes*, will be taken by more than two-thirds of USAFA graduates (roughly 850 cadets), beginning with the Class of 2000. This course is a direct result of former Director of Weather Brig. Gen. Thomas J. Lennon's efforts, through the Air Force Chief of Staff, to increase weather awareness in Academy graduates. Half of the lessons in the course are devoted to meteorology.

With several graduating classes, increased enrollment in the new meteorology major, and part of a core option course, we anticipate more cadets will consider meteorology as a major, resulting in corresponding increase in the number of Academy graduates entering the weather career field.



Keaveney and Darron Smith plan to enter the weather career field.

Beginning with the Class of 1998, graduates from our program will earn a B.S. in Meteorology. There are 11 cadets from the Class of 1998, and 16 cadets from the Class of 1999 enrolled in the major.

A meteorology major at the Academy completes a minimum of 151 semester hours, consisting of 115 credit hours from core courses and 36 credit hours in meteorology and related courses. The core includes a broad background in science, mathematics,



Changing For The Better

Special Mission/Contingency Forecast Section Changing

Since 1981, virtually every major U.S. military mission requiring contingency weather support has called on the Special Mission/Contingency Forecast Section (DOBS) at the Air Force Global Weather Center, Offutt AFB, Neb.

DOBS uniquely provides short-range, long-range, and mission-specific forecasts from a secure environment 24 hours a day, 365 days a year. DOBS customers range from the White House Military Office, to the Joint Chiefs of Staff, to all major commands.

DOBS versatility in weather forecasting enhances the ability of combat decision makers to deliver bombs on target, insert or withdraw Special Operations Forces, and execute reconnaissance missions anywhere, anytime.

The Contingency Forecast Section

by Maj. Thomas J. Borland,
Chief, Eastern Region Branch
and TSgt Harry Druckenmiller,
Special Mission/Contingency
Forecast Section

provides an unparalleled spectrum of meteorological support, including short-range synoptic discussion bulletins along with current satellite discussions and Terminal Airdrome Forecasts (TAFs).

A prime example of DOBS proficiency occurred during Operation GUARDIAN ASSISTANCE. The section's forecasters were the sole providers of TAFs for 15 different sites in Africa, a synoptic discussion through 72 hours, and a current satellite discussion.

During GUARDIAN ASSIS-

TANCE, the Army needed precipitation data over western Zaire to plan convoy operations -- data not available in the past. However, DOBS capabilities are expanding to take advantage of new technology and meet sophisticated new customer requirements.

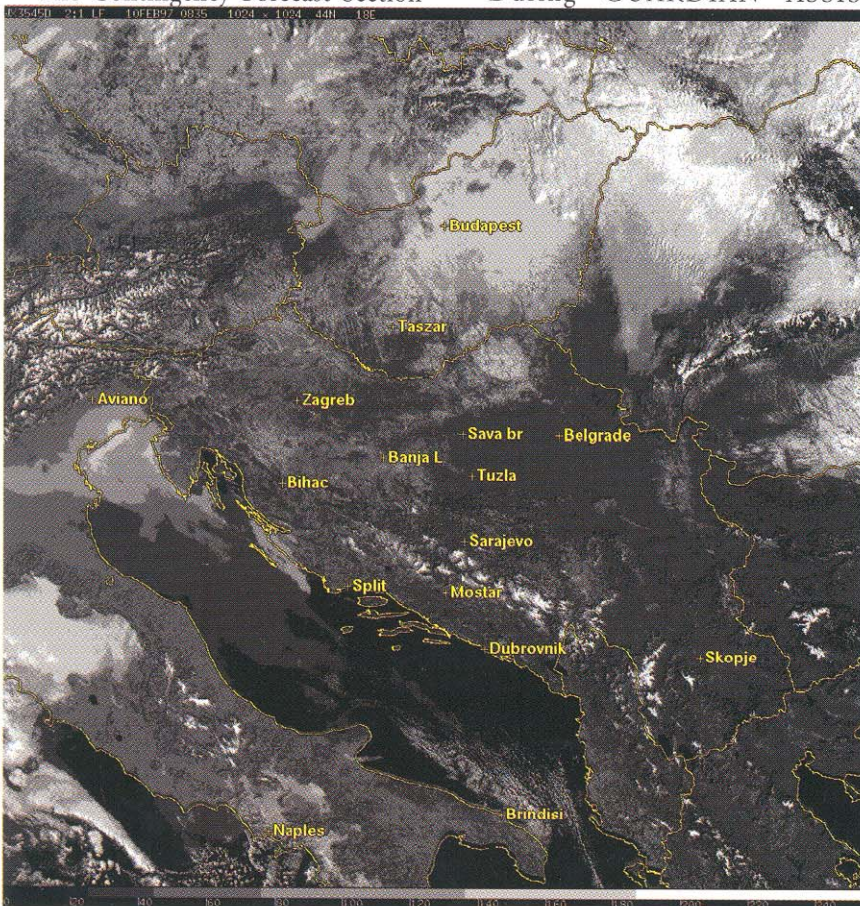
The AFGWC Scientific Services Branch (DONS) can develop five-day climatological METSAT images to allow forecasters to determine favored areas of precipitation over central Africa and other tropical regions.

This technology enables DOBS to give customers the data needed for trafficability analyses over data sparse areas. DOBS delivers this data to the field via AWN, Autodin, AFDIS, as well as AFWIN and SAFWIN. Operation GUARDIAN ASSISTANCE weather support served as a benchmark of DOBS capability to support short notice contingency tasking with a wide range of meteorological products disseminated over a myriad of communications systems.

DOBS is also capable of producing long-range weather products, including staff weather officer bulletins that extend out to four days, as well as planning forecasts to 15 days.

The Contingency Forecast Section can respond at a moment's notice. Along with routine taskings, the section receives many short-notice telephone requests, ranging from simple inquiries for routine weather worldwide to a real-time emergency scenario requiring immediate, large-scale weather support. DOBS supported U.S. flying missions during Operation ASSURED RESPONSE, when more than 2,800 Americans and foreign nationals were evacuated from three war-torn African countries.

Weather products over Southwest Asia are the responsibility of the Contingency Section. As customer focus has changed in this region during the past 15 years, so has the DOBS product suite. The Special Mission/Contingency Forecast Section now produces graphic Southwest Asia images to augment al-



The Contingency Forecast Section provided this satellite picture for commanders in Bosnia-Herzegovina.

phanumeric bulletins.

During Operation DESERT STRIKE, DOBS produced cloud-free forecasts over Iraq, which were used to schedule weather-sensitive battle-damage assessment missions.

DOBS is working very closely with the U.S. Air Forces in Europe Directorate of Weather and 7th Weather Squadron to produce weather products for NATO Operation JOINT ENDEAVOR/JOINT GUARD (see satellite picture over Europe on Page 16). Forecasts include flight weather over an 800-mile low-level corridor through the rugged mountains of southern Europe in support of the deployment of Blackhawk and Apache helicopters from Germany to Bosnia-Herzegovina.

DOBS is also issuing daily forecast bulletins for the Predator unmanned aerial vehicle flying from Tazar, Hungary, to locations over Bosnia-Herzegovina.

The Contingency Section is involved in many exercises throughout the world. DOBS hammered out high quality weather products for the U.S. Central Command Exercise BRIGHT STAR 95 over Cairo, Egypt. Closer to home, DOBS is taking a large role in the world's largest tactical air defense exercise: ROVING SANDS 97, conducted over the southwestern United States.

The Contingency Forecast Section is reengineering to stay in step with a rapidly changing Air Force, fusing technology and intelligence data with a highly experienced forecast team to provide armed forces worldwide unprecedented weather forecasting services. The new section stood up April 1, as the CINC Targeting Cell. The new cell incorporates the hottest technology available to provide warfighters the most accurate, relevant, and timely weather forecasts possible.

We are using the latest worldwide multi-spectral imagery and the AFGWC Short-Range Cloud Forecast Model (ADVECLD) to further enhance DoD reconnais-

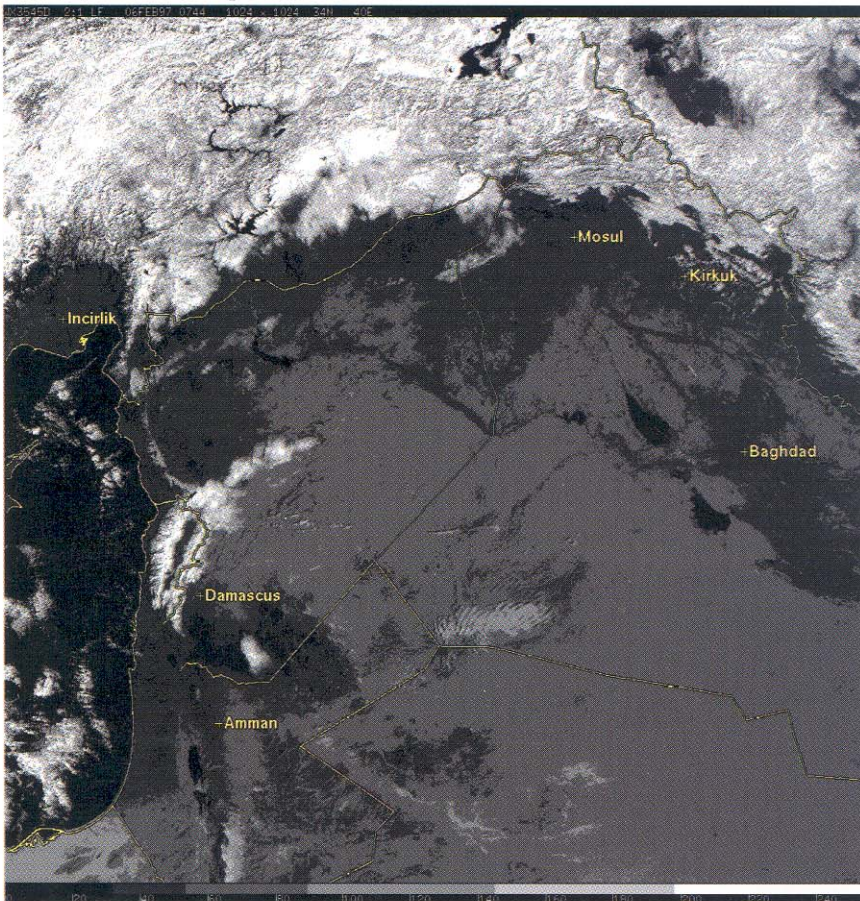
sance efforts. The MM90 mesoscale model will have a relocatable window with a 10-kilometer grid space available to DOBS this summer. This will allow us to detect small changes in weather elements that could have a great impact on mission accomplishment.

The Contingency Forecast Section is reengineering to stay in step with a rapidly changing Air Force, fusing technology and intelligence data with a highly experienced forecast team to provide armed forces worldwide unprecedented weather forecasting services.

While we don't go "looking for trouble," the CINC Targeting Cell keeps an eye out on any potential area where US troops may become involved. We're incorporating the most current intelligence data to closely monitor potential "hot

spots" and focus our weather support in those areas before US forces are deployed. Our proven forecast team will fuse all the data into a host of products tailored to each customer's mission requirements. The bottom line in our philosophy, "anytime, anywhere, we can support it!" will guide us.

If you need support from the CINC Targeting Cell, use the streamlined support assistance request (SAR), E-mail address GWCSAR@afgwc.offutt.af.mil. Provide the standard AFI 15-118 information and a customer support representative from HQ AFGWC/DOOF will contact you upon receipt of your request. In a fast-breaking situation when you need classified or unclassified support, call DSN 271-6558/2586.



Products such as this photo of Southwest Asia aided military leaders in making decisions during contingency operations.



Getting Deployed Troops Up To Speed

Weather, Climatological Info When You Need It

Flight commanders, flight chiefs, and station chiefs -- picture this hypothetical situation. It's 3 p.m. on a normally hectic Friday at your base in the central United States. The phone rings.

You have to provide two people for deployment into the Central African Republic to provide weather support for a non-combatant evacuation from Bangui. Your people have to be ready to deploy Sunday evening -- exact time unknown -- aboard a C-141. No one has any idea where the Central African Republic is, or knows anything about the typical weather and climate.

Now what?

The Air Force Combat Climatology Center can solve part of this problem. While we can't do anything about what losing two people to a deployment does to your staffing, we can help the deploying people with weather and climate data.

During the past eight years, we've refined our quick-turn climatological support capabilities significantly. In less than 24 hours, we can provide a tailored

by **Kenneth R. Walters**
Chief, Readiness Support
Branch

package that includes -- at a minimum -- a short narrative study covering at least the next one to three months, summarized airfield statistics, modeled ceiling and visibility (MODCV), modeled diurnal temperature, dew point, altimeter setting, and pressure altitude curves (MODCURVES) for each of the operations en route and at the destination airfields. We can often provide weather impacts to military operations (WxITO) climatology for the destination sites. Other information and products may also be provided, depending upon your needs and time available.

The information is sent out over our secure (SIPRNET) home page or our FTP site for easy access to the requester. If a secure transmission is not necessary, then the information can be posted to the non-secure (NIPRNET) web site.

What does this provide to the warfighter? They receive the best possible

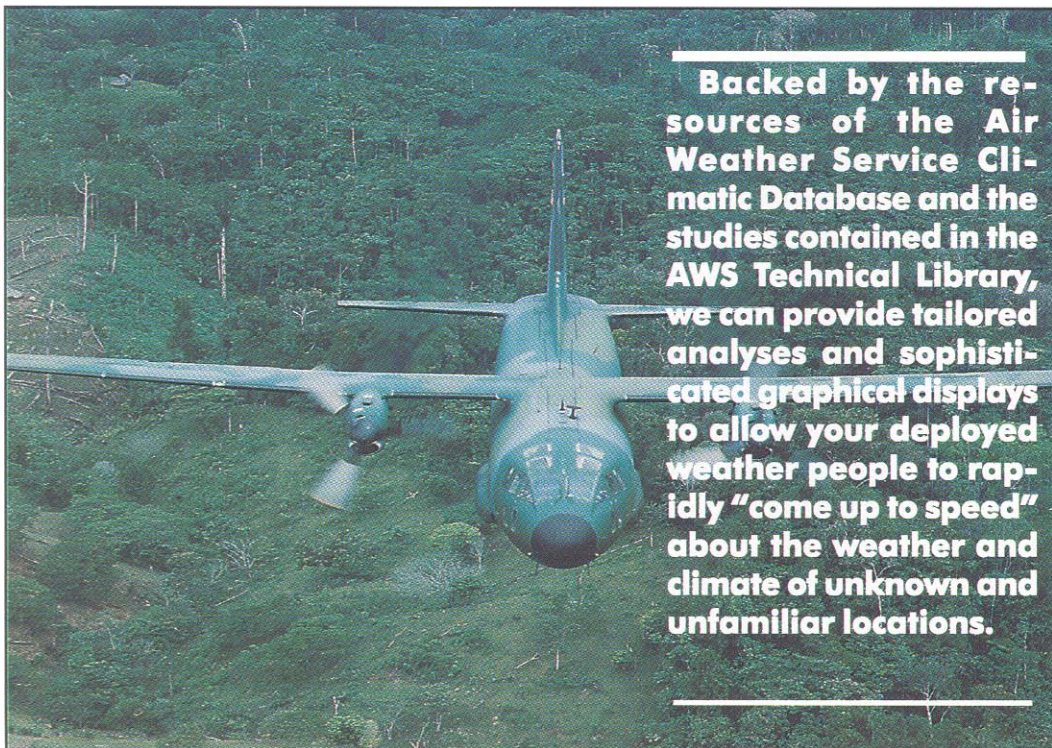
climatological evaluation of the area/site to which they are deploying, and where the operations are occurring -- provided by trained meteorologists at the Department of Defense's center of climatological excellence -- AFCCC.

Backed by the resources of the Air Weather Service Climatic Database and the studies contained in the AWS Technical Library, we can provide tailored analyses and sophisticated graphical displays to allow your deployed weather people to rapidly "come up to speed" about the weather and climate of unknown and unfamiliar locations. In essence, your forecasters have a mini-Terminal Reference Forecast Notebook (TRFN) for their use in forecasting and graphical displays of the operational weather "show stoppers" for briefing the operators.

How do you get this support? There are several ways to contact AFCCC. The non-secure DSN number is 576-4024, and the secure line is DSN 576-3465. A Support Assistance Request (SAR) can also be left on our NIPRNET site (thunder.safb.af.mil) or SIPRNET

(afcccwebamc.scott.smil.mil) site. During non-duty hours, or during weekends and federal holidays, call the 24-hour emergency beeper number (DSN 576-6789, ext. 2257). After the beeps, leave a phone number where you can be contacted. A senior member of the AFCCC staff will call back within one hour.

About that "hypothetical situation" that was an actual scenario some months ago. However, the request came from an overseas base and the complete package was in the requester's hands within 12 hours.



Backed by the resources of the Air Weather Service Climatic Database and the studies contained in the AWS Technical Library, we can provide tailored analyses and sophisticated graphical displays to allow your deployed weather people to rapidly "come up to speed" about the weather and climate of unknown and unfamiliar locations.



Air Force Reserve Becomes Major Command

WASHINGTON (AFNS) -- The Air Force Reserve Command was activated during the 1997 Reserve Officers Association Mid-Winter Conference and Military Exposition Feb. 17 at the Washington Hilton Hotel.

Gen. Ronald R. Fogleman, Air Force chief of staff, presided over the ceremony that made AFRC the ninth major command of the Air Force. Maj. Gen. Robert A. McIntosh is the commander.

The standup of the Air Force Reserve as an Air Force major command came as a result of Title XII—Reserve Forces Revitalization—in Public Law 104-201, the National Defense Authorization Act for Fiscal Year 1997.

Title XII revises the basic statutory authorities governing the organization and administration of the Reserve components of the armed forces. Its aim is to recognize the realities of Reserve component partnership in the total force and better prepare the American citizen-soldier, sailor, airman and Marine in time of peace for duties in war.

U.S. Rep. Greg Laughlin, D-Texas, and 33 co-sponsors proposed this revision by introducing H.R. 1646 May 16, 1995. This was a direct result of lessons learned during mobilization for Operations DESERT SHIELD and DESERT STORM. They felt that enhancements in day-to-day Reserve support were required to most effectively use the Reserve components.

There will be little change in how the Reserve works within the Air Force, according to McIntosh. Previously, the Reserve was a field operating agency. AFRC headquarters is at Robins Air Force Base, Ga.

Air Force Extends Wear Of Olive Field Jacket

A shortage of camouflage field jackets in stock has extended the life of the Air Force's olive field jacket.

The olive drab jacket was earmarked to remain in the closets of servicemembers as of Jan. 1 after the service's uniform board in November 1991 opted to switch to the camouflage jacket now issued. The new phase-out date is July 1.

"The field jacket is an organizational clothing item and each organization issues the jacket at no cost to the servicemember," explained Staff Sgt. Keith Lawrence of the Air Force Personnel Center's commanders' program branch. "Members who currently have an olive field jacket will not automati-

cally get it replaced; commanders replace these jackets based on need.

"There are still a number of organizations out there who've yet to issue the jackets and it is possible that the existing supply stock of the camouflage field jackets may not support full replacement," Lawrence said.

Uniform experts emphasize that the single and double-breasted all-weather coat is an authorized outer garment with the battle dress uniform.

Questions on the issue of the camouflage field jackets should be directed to the following agencies: Air National Guard point of contact, Senior Master Sgt. Glenda Darnell, DSN 278-8345; Air Force Reserve POC, Senior Master Sgt. Bernie Lalime, DSN 225-6220; Active-duty Air Force POC, Staff Sgt. Randy Larson, DSN 487-3996. (Courtesy Air Force News Service - Randolph AFB, Texas)

Air Force Secretary Denounces Sexual Harassment

WASHINGTON (AFNS) - The secretary of the Air Force has come out strongly against sexual harassment in the military.

Secretary of the Air Force Sheila E. Widnall spoke Feb. 4 before the Senate Armed Services Committee about how the Air Force approaches sexual harassment.

"The Air Force is absolutely committed to creating an environment in which all our people, whatever their gender or race or ethnic origin, can work free of harassment or discrimination," Widnall said. "It is their right."

Widnall went on to say that within the military, there is a second, equally important consideration—the absolute need to build cohesion and a sense of community across the Air Force.

"Nothing destroys military effectiveness more quickly or effectively than division in the ranks," Widnall said. "The success of missions depends in large measure on the degree of trust and understanding that exists

among the people in our units.

"Anything that might erode that trust is just not tolerable, so the 'zero tolerance' policy toward discrimination of any kind that the Air Force has maintained for years is a logical and necessary measure."

The secretary told the senators how the Air Force has taken steps toward an effective program. This includes combating the threat of sexual harassment, emphasizing commander's responsibility and personal accountability, articulating core values and revising the policy of fraternization.

"We expect our commanders at all levels to create an organizational culture where members are valued," she said. "We also expect them to make their commitment clear to those in their command and to take action when violations occur."

The secretary said that while the Air Force is not immune from sexual harassment, how an organization responds to such incidents is paramount. She said Air Force leaders are well equipped to handle sexual harassment issues.

1-800-558-1404
SEXUAL HARASSMENT HOTLINE

Solar Storm Spotted By Spacecraft

A large eruption on the Sun was detected at 10 a.m. EDT April 7 by the Solar and Heliospheric Observatory (SOHO) spacecraft, and scientists say the ejected matter, traveling through space as an interplanetary magnetic cloud, hit the Earth at 8 p.m. EDT April 9. The storm was large in size; however, it was moderate in strength compared to many others that have reached the Earth.

Although the SOHO findings are of interest to scientists, the National Oceanic and Atmospheric Administration Space Environment Center (SEC), provider of official government forecasts predicted, based on "classical indicators," that the solar storm would be an ordinary event and pose no danger to the population at large.

SEC noted the absence of energetic solar particles which would be expected to accompany a strong solar storm. Such particles, if present, can increase radiation levels for astronauts and cosmonauts in orbit. "We are forecasting an event with conditions below the threshold of concern for most of our users," said Dr. Ernie Hildner, head of the Space Environment Center.

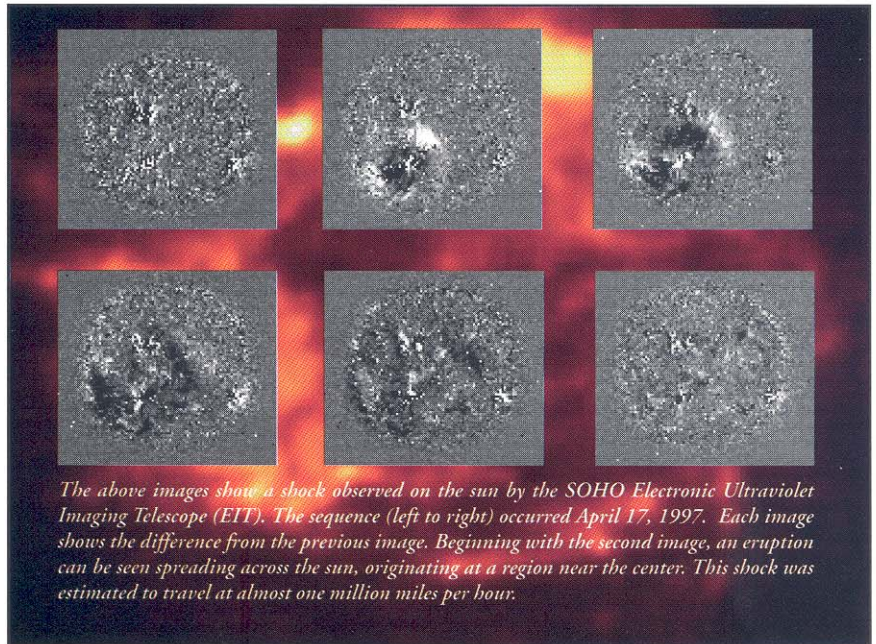
The center of the storm would miss the Earth, but it could have been broad enough to affect the Earth's space environment and could cause increased auroral activity (Northern and Southern lights) at high latitudes.

SOHO, a joint project of NASA and the European Space Agency, is positioned about 900,000 miles sunward of the Earth. The spacecraft has a continuous telescopic view of the Sun and also is equipped with sensors to sample solar particles as they sweep past.

The solar eruption, called a coronal mass ejection, was first spotted by Shane Stezelberger, a ground controller with SOHO's Large Angle Coronagraph and Spectrometer (LASCO) team at the SOHO Experiment Operations Facility at NASA's Goddard Space Flight Center in Greenbelt, Md.

"I knew it was a big one when I saw it," said Stezelberger, a recent graduate of Virginia Polytechnic Institute and State University in Blacksburg. He promptly notified SOHO scientists, in-

20



The above images show a shock observed on the sun by the SOHO Extreme Ultraviolet Imaging Telescope (EIT). The sequence (left to right) occurred April 17, 1997. Each image shows the difference from the previous image. Beginning with the second image, an eruption can be seen spreading across the sun, originating at a region near the center. This shock was estimated to travel at almost one million miles per hour.

cluding Dr. Barbara Thompson, whose immediate reaction was "Wow." Dr. Donald Michels of the U.S. Naval Research Laboratory said, "We've never before seen one headed directly at Earth that was as big and bright, and loaded with complex details, as this one." SOHO was launched on Dec. 2, 1995.

"The eruption seemed to blow open a hole in the Sun's corona that had opened and then healed previously," said Dr. Thompson, a physicist with SOHO's Extreme-Ultraviolet Imaging Telescope (EIT) team. Accompanying the coronal mass ejection was a powerful solar flare explosion, according to Dr. Arthur Poland, NASA's SOHO Project Scientist. "The flare triggered a supersonic wave that swept through the corona like a tsunami on the surface of the sea," Dr. Poland said.

A sensor called the WAVES experiment on NASA's WIND satellite detected bursts of radio emissions from high speed electrons associated with the explosion, also beginning at about 10 a.m. EDT April 7.

The interplanetary storm, traveling toward Earth at a speed of over 1,500,000 miles per hour, passed the WIND and SOHO satellites at about 7 p.m. EDT April 9, and struck the Earth's magnetosphere an hour later.

NASA's Earth-orbiting POLAR satellite trained its battery of visible, ultraviolet and X-ray cameras on the north and south polar regions of the Earth to observe "a likely considerable enhancement of the aurora," said Dr. Robert Hoffman, POLAR Project Scientist. And, with other POLAR onboard sensors, "we'll look for possible large increases in the intensity of the radiation belts." The impact of the interplanetary cloud on the magnetosphere could have been to compress it, driving the radiation belts closer to the Earth, as occurred Jan. 6 after a smaller coronal mass ejection lifted off the Sun.

Analysis of the spacecraft and ground sensor data on this solar storm and its effects on the Earth should lead to a better understanding of the basic physical processes involved and how such disturbed conditions of "space weather" can be predicted.

Images of this solar storm from SOHO's LASCO and EIT instruments are available from Goddard Public Affairs at 301/286-069 or on the internet at <http://pao.gsfc.nasa.gov/gsfsc/newsroom/flash/flash.htm>.

MORE

continued from Page 4

tify the value of our support--all of our support and not just the items that make us look good. Not only that, we must demonstrate that we support the entire mission -- from mission planning to pre-launch briefing to flight following and debriefing. We must be proactive and not reactive in our weather support. Once we become integrated into the warfighter's day-to-day business, we will have a bigger impact on their mission effectiveness. With a proper set of metrics this improvement should be very obvious. Ultimately, however, it is people that make the difference. All of you are empowered to make AFW reengineering succeed or fail.

The biggest concern that I hear from all of you is -- I don't have time to train. You know, I don't think we ever will. Our commanders always have another additional duty to give us, there is always another TDY or manning shortfall to fill, or the manpower people are looking to save money by cutting

a position. But if we reengineer the way we do our job, we can sure increase and improve our training and decrease the wasted efforts. If we get the bulk of our meteorological training in technical schools and regional hubs, then we will need only refresher training and war plan theater training. If our day-to-day operations look the same in peace and war, that in itself will greatly reduce our training work load. If we train with the operators and integrate into their operations, both operations and weather awareness will improve -- we will no longer be considered off by ourselves wasting time. Once integrated into the operators unit tasking, we will get to train with them and deploy with them when they are deployed to wartime and contingency locations.

Can we do more with less? Yes and no. We can't keep doing what we've done in the past, but we can meet more of the operator's needs while reducing redundancy in weather forecast functions, reducing slow or wasteful shifts, and reducing the need for complete bottoms-up training at each location. We can do more by supporting operator needs for fine scale, accurate, relevant, timely weather support. We can do more by reor-

ganizing and, like Henry Ford, retooling our support into an assembly line system where we depend on our fellow forecasters up the line to do their piece of the production and allow us to do ours -- each relying on the other. We can do more by gaining the respect of our operators as we integrate more closely into their operations.

I am optimistic that we have all realized it's time to revamp our way of doing business and that we are all trying to make our weather operations better. Can we do more with less? Yes, but only if we optimize our organization, our training, and our operations -- NEVER at the expense of our people. Yes, there will be times when we have to surge, but burning people out only makes a bad forecast or warning product and fails to meet the warfighter's needs. We have the brightest, most motivated young airmen and officers I have seen in my 24 years in the Air Force. I want to ensure that each of you can continue to grow and feel as excited as I do about being a part of the finest Air Force this world has ever known. Let's make "Owning the Weather for Battle" -- both for the Air Force and the Army -- a reality!

LADDER

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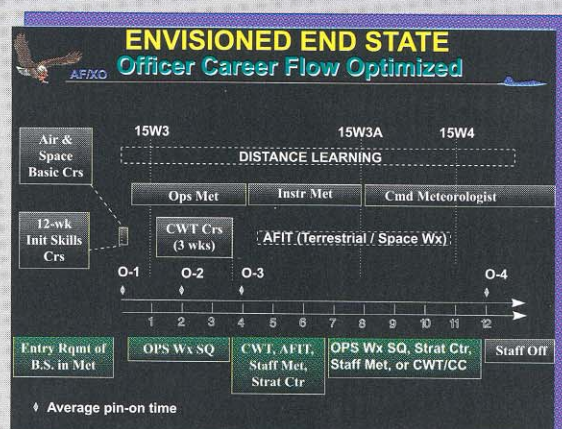
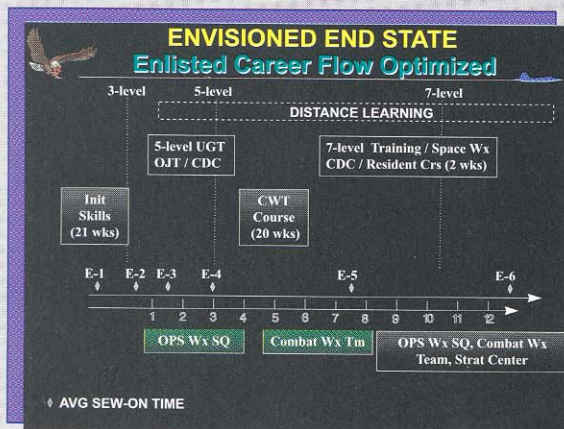
officer and enlisted career flow opens up to PME and other specialized positions.

We've included the officer and

enlisted assignment training plans and career paths mentioned above in the AFW Strategic Plan which is now out for coordination at the MAJCOMs and MACOMs. The Strategic Plan will be the subject for my next OBSERVER article. In closing, these processes--training

and assignments--are fundamental to the health and sustainment of our career field and, more importantly, they are crucial to ensuring we can provide the Air Force and Army operators and warfighters on-target weather support so they can "Own the Weather."

Optimized Career Flow



SALUTES,

continued from Page 11

3rd WS NCO of the Quarter
Staff Sgt. Marstan Johnston, 3rd WS, Fort Hood, Texas
3rd WS Airman of the Quarter
Senior Airman C.J. Sernik, 3rd WS, Fort Hood, Texas
47th OSS/OSW Observer of the Year (1996)
Airman 1st Class Joseph W. Cannon, 47th OSS/OSW, Laughlin AFB, Texas
47th OSS/OSW Airman of the Year
Airman 1st Class Joseph W. Cannon, 47th OSS/OSW, Laughlin AFB, Texas
47th OSS/OSW Forecaster of the Year
Staff Sgt. Warren W. Weyer, 47th OSS/OSW, Laughlin AFB, Texas
47th OSS/OSW NCO of the Year
Tech. Sgt. Raul Loyo-Rodriguez, 47th OSS/OSW, Laughlin AFB, Texas
47th OSS/OSW NCO of the Quarter (4th qtr. 1996)
Staff Sgt. Kevin A. Josephson, 47th OSS/OSW, Laughlin AFB, Texas
25th ASOS Senior NCO of the Year
Senior Master Sgt. Jeffrey A. Fluegge, 25th ASOS, Wheeler AAF, Hawaii
25th ASOS NCO of the Year
Staff Sgt. Richard D.T. Lucio, 25th ASOS, Wheeler AAF, Hawaii
334th TRS Officer-Instructor of the Year
Capt. Joseph W. Schaeffer, 334th TRS, Keesler AFB, Miss.
334th TRS Edited Instructor Supervisor of the Year
Master Sgt. Ronald L. Hoover, 334th TRS, Keesler AFB, Miss.
334th TRS Officer-Instructor Supervisor of the Year
Capt. Frederick D. Williams, 334th TRS, Keesler AFB, Miss.
334th TRS Civilian Training Manager of the Year
Mr. Martin D. Lester, 334th TRS, Keesler AFB, Miss.
334th TRS Training Flight Commander of the Year
Maj. Michael R. Babcock, 334th TRS, Keesler AFB, Miss.
334th TRS Senior NCOs of the Year
Master Sgt. Theresa A. DeBoer and Master Sgt. Robert R. Rios, 334th TRS, Keesler AFB, Miss.
334th TRS Company Grade Officer of the Year
Capt. Frederick D. Williams, 334th TRS, Keesler AFB, Miss.
81st Training Group Career Development Course Writer of the Year
Tech. Sgt. Rodger D. Campbell, 81st TG, Keesler AFB, Miss.
81st TG Civilian Instructor Supervisor of the Year
Mr. Garey D. Simants, 81st TG, Keesler AFB, Miss.
81st TG Enlisted Training Manager of the Year
Master Sgt. Theresa A. DeBoer, 334th TRS, Keesler AFB, Miss.
81st TG Military Flight Commander of the Year
Capt. Ben Holbrook, 334th TRS, Keesler AFB, Miss.
31st OSS Airman of the Year
Senior Airman Jeffrey George, 31st OSS/OSW, Aviano AB, Italy
31st OSS NCO of the Quarter (4th qtr. 1996)
Staff Sgt. John Joyce, 31st OSS/OSW, Aviano AB, Italy
36th OSS Company Grade Officer of the Quarter (4th qtr. 1996)
Capt. Richard A. Anstetter, 36th OSS/OSJ, JTWC, Andersen AFB, Guam
36th OSS NCO of the Quarter
Tech. Sgt. Dennis W. Miller, 36th OSS/OSJ, JTWC, Andersen AFB, Guam
36th OSS Airman of the Quarter
Senior Airman Samuel R. Pugh, 36th OSS/OSJ, JTWC, Andersen AFB, Guam
Sailor of the Quarter: Naval Pacific Meteorology and Oceanography Center West/JTWC, Nimitz Hill
Senior Airman Sean M. McDunn, 36th OSS/OSJ, JTWC, Andersen AFB, Guam
374th OSS/OSW Airman of the Year
Senior Airman Monique Pelletier, 374th OSS/OSW, Yokota AB, Japan
374th OSS/OSW NCO of the Year
Staff Sgt. Huy M. Vu, 374th OSS/OSW, Yokota AB, Japan
374th OSS Senior NCO of the Year
Master Sgt. Ronald Kommer, 374th OSS/OSW, Yokota AB, Japan
Senior Parachutist Badge
Tech. Sgt. John R. Walsh, Det. 2, 10th CWS, Fort Campbell, Ky.
Jordanian Jump Wings
Senior Airman Steve D. Adams, Det. 2, 10th CWS, Fort Campbell, Ky.
British Jump Wings
Tech. Sgt. John R. Walsh, Det. 2, 10th CWS, Fort Campbell, Ky.
10th CWS Outstanding Weather Officer of the Year
Capt. Brian D. Griffith, Det. 2, 10th CWS, Fort Campbell, Ky.
10th CWS Outstanding Airman of the Year
Staff Sgt. Brian H. Landtroop, Det. 2, 10th CWS, Fort Campbell, Ky.
305th OSS Senior NCO of the Quarter
Master Sgt. Paul Rano, 305th OSS/OSW, McGuire AFB, N.J.
77th OSS Airman of the Quarter (3rd qtr. 1996)
Senior Airman Bryan P. Garton, 77th OSS/OSW, McClellan AFB, Calif.
77th OSS Airman of the Quarter (4th qtr. 1996)
Airman 1st Class Sylvia Farling, 77th OSS/OSW, McClellan AFB, Calif.
353rd OSS/SOG Company Grade Officer of the Year
Capt. Don Shannon, 353rd OSS/WX, Kadena AB, Japan
353rd OSS NCO of the Quarter (2nd & 3rd)
Staff Sgt. Kevin Bourne, 353rd OSS/WX, Kadena AB, Japan
355th OSS NCO of the Year
Staff Sgt. Kevin Bourne, 353rd OSS/WX, Kadena AB, Japan
McChord AFB Senior NCO of the Quarter (4th qtr. 1996)
Master Sgt. John Galliano, 62nd OSS/OSW, McChord AFB, Wash.
McChord AFB Company Grade Officer of the Quarter
2nd Lt. Deean Emery, 62nd OSS/OSW, McChord AFB, Wash.
62nd OSS/OSW Forecaster of the Quarter
Airman 1st Class Rocco Minetti, 62nd OSS/OSW, McChord AFB, Wash.
62nd OSS/OSW Observer of the Quarter
Airman 1st Class Dave Hennig, 62nd OSS/OSW, McChord AFB, Wash.
McChord AFB Senior NCO of the Year

Master Sgt. John Galliano, 62nd OSS/OSW, McChord AFB, Wash.
AMC Outstanding Weather Station of the Year
62nd OSS/OSW, McChord AFB, Wash.
AMC Outstanding Weather Forecaster of the Year
Staff Sgt. Shane Castle, 62nd OSS/OSW, McChord AFB, Wash.
AMC Outstanding Weather Observer of the Year
Airman 1st Class Janel Heidebrink, 62nd OSS/OSW, McChord AFB, Wash.
7th WS Company Grade Officer of the Year
2nd Lt. Kelly Doser, Det. 5, 7th WS, Katterbach, Germany
7th WS CGO of the Quarter (4th qtr. 1996)
Capt. Lance Jensen, HQ 7th WS, Heidelberg, Germany
7th WS CGO of the Quarter (3rd qtr. 1996)
2nd Lt. Kelly Doser, Det. 5, 7th WS, Katterbach, Germany
7th WS Senior NCO of the Year
Master Sgt. Gary D. Mercer, Det. 10, 7th WS, Giebelstadt, Germany
7th WS/SOG Senior NCO of the Quarter (4th qtr. 1996)
Master Sgt. David Taylor, Det. 6, 7th WS, Wiesbaden, Germany
7th WS/SOG Senior NCO of the Quarter (3rd qtr. 1996)
Master Sgt. Gary D. Mercer, Det. 10, 7th WS, Giebelstadt, Germany
7th WS NCO of the Year
Staff Sgt. David Donahue, A Flt., 7th WS, Heidelberg, Germany
7th WS/SOG NCO of the Quarter (4th qtr. 1996)
Staff Sgt. David Donahue, A Flt., 7th WS, Heidelberg, Germany
7th WS/SOG NCO of the Quarter (3rd qtr. 1996)
Staff Sgt. Michael T. Ivey, Det. 7, 7th WS, Grafenwoehr, Germany
7th WS Airman of the Year
Senior Airman Ereno V. Maura, Det. 4, 7th WS, Traben Trarbach, Germany
7th WS Airman of the Quarter (4th qtr. 1996)
Airman 1st Class Jason B. McNulty, Det. 1, 7th WS, Bad Kreuznach, Germany
7th WS/SOG Airman of the Quarter (3rd qtr. 1996)
Senior Airman Ereno V. Maura, Det. 4, 7th WS, Traben Trarbach, Germany
92nd OSS Company Grade Officer of the Quarter (4th qtr. 1996)
2nd Lt. Scott Emert, 92nd OSS/OSW, Fairchild AFB, Wash.
92nd OG/92nd OSS Civilian of the Year
Mr. Mike Fietek, 92nd OSS/OSW, Fairchild AFB, Wash.
92nd OG/92nd OSS NCO of the Year
Staff Sgt. Ray Courtney, 92nd OSS/OSW, Fairchild AFB, Wash.
92nd OG/92nd OSS of the Quarter (4th qtr. 1996)
Staff Sgt. Ray Courtney, 92nd OSS/OSW, Fairchild AFB, Wash.
24th WS/24th OG Company Grade Officer of the Quarter (4th qtr. 1996)
1st Lt. Robert A. Stenger, 24th WS, Howard AFB, Panama
24th WS/24th OG NCO of the Quarter
Tech. Sgt. Kenneth A. Phelps, 24th WS, Howard AFB, Panama
24th WS/24th OG Airman of the Quarter
Airman 1st Class Brad J. Miller, 24th WS, Howard AFB, Panama
24th WS Civilian of the Quarter
Mr. Antonio Gradison, 24th WS, Howard AFB, Panama
24th WS CGO of the Year
1st Lt. Robert A. Stenger, 24th WS, Howard AFB, Panama
24th WS Senior NCO of the Year
Master Sgt. Kenneth Kingsbury, 24th WS, Howard AFB, Panama
24th WS NCO of the Year
Staff Sgt. James M. Vinson, 24th WS, Howard AFB, Panama
24th WS Airman of the Year
Airman 1st Class Michelle C. Versailles, 24th WS, Howard AFB, Panama
24th WS Civilian of the Year
Ms. Annette Quinn, 24th WS, Howard AFB, Panama
Air Combat Command Outstanding Weather Senior NCO
Master Sgt. Kenneth Kingsbury, 24th WS, Howard AFB, Panama
ACC Outstanding Weather NCO
Staff Sgt. James M. Vinson, 24th WS, Howard AFB, Panama
ACC Outstanding Weather Civilian
Ms. Annette L. Quinn, 24th WS, Howard AFB, Panama
ACC Best Award (Outstanding Air Force Weather Staff/Weather Support)
Capt. Peter J. Broll, 24th WS, Howard AFB, Panama
ACC Pierce Award (Outstanding Air Force Weather Forecaster)
Staff Sgt. Frank J. Klein, 24th WS, Howard AFB, Panama
ACC Moorman Award (Outstanding Air Force Specialized Weather Unit)
USSOUTHCOM Theater Weather Flight, 24th WS, Howard AFB, Panama
6th OG Senior NCO of the Year
Master Sgt. Vincent Adams, 6th OSS/OSW, MacDill AFB, Fla.
6th OSS/OSW NCO of the Year
Tech. Sgt. Wendell Foreman, 6th OSS/OSW, MacDill AFB, Fla.
6th OSS/OSW Airman of the Year
Airman 1st Class Leslie Hatch, 6th OSS/OSW, MacDill AFB, Fla.
27th OSS/OSW Airman of the Quarter (4th qtr. 1996)
Airman 1st Class Rachel Ramos, 27th OSS/OSW, Cannon AFB, N.M.
27th OSS/OSW Airman of the Year
Airman 1st Class Rachel Ramos, 27th OSS/OSW, Cannon AFB, N.M.
ACC Outstanding Weather Airman of the Year
Airman 1st Class Rachel Ramos, 27th OSS/OSW, Cannon AFB, N.M.
27th OSS/OSW NCO of the Quarter
Staff Sgt. Aquanetta W. Brobston, 27th OSS/OSW, Cannon AFB, N.M.
27th OSS/OSW Observer of the Quarter
Airman 1st Class Angela Gregoire, 27th OSS/OSW, Cannon AFB, N.M.
27th OSS/OSW Forecaster of the Quarter
Staff Sgt. Valerie Smith, 27th OSS/OSW, Cannon AFB, N.M.
27th OSS CGO of the Year
2nd Lt. Michael W. Engel, 27th OSS/OSW, Cannon AFB, N.M.
HQ AMC TACC Information Manager of the Year
Tech. Sgt. Royce S. Morton, HQ AMC TACC/XOW, Scott AFB, Ill.
OL-C, 18th WS & 18th WS Airman of the Year
Senior Airman Paul B. Krewson, OL-C, 18th WS, Fort Knox, Ky.
OL-C, 18th WS & 18th WS NCO of the Year
Staff Sgt. Robert E. Jarrell, OL-C, 18th WS, Fort Knox, Ky. (information manager)
OL-C, 18th WS AF/W Pierce Award Nominee
Tech. Sgt. William J. Simcox, OL-C, 18th WS, Fort Knox, Ky.

412th OSS NCO of the Year
 Tech. Sgt. Hardy A. Frey, 412th OSS/OSW, Edwards AFB, Calif.

412th OSS Civilian of the Year
 Mr. Philip O. Harvey, 412th OSS/OSW, Edwards AFB, Calif.

AMC Outstanding Weather Operations Support Civilian of the Year
 Mr. Alan M. Zahule, 89th OSS/OSW, Andrews AFB, Md.

89th OGI/OSS Civilian of the Year
 Mr. Alan M. Zahule, 89th OSS/OSW, Andrews AFB, Md.

12th FTW/OSS/OG Senior Officer of the Quarter
 Master Sgt. Curtis P. Cote, 12th OSS/OSW, Randolph AFB, Texas

12th FTW/OSS/OG NCO of the Quarter
 Tech. Sgt. Donna L. Lacourse, 12th OSS/OSW, Randolph AFB, Texas

AFMC Weather Airman of the Year
 Senior Airman Scott M. Maier, 46th WS, Eglin AFB, Fla.

AFMC Weather NCO of the Year
 Staff Sgt. Dorothy C. Posey, 72nd OSS/OSW, Tinker AFB, Okla.

AFMC Weather Senior NCO of the Year
 Master Sgt. Phillip A. Roseberry, 88th WS, Wright-Patterson AFB, Ohio

AFMC Weather Company Grade Officer of the Year
 Capt. Robert E. Handwick, 78th OSS/OSW, Robins AFB, Ga.

AFMC Weather Civilian of the Year
 Mr. Philip O. Harvey, 412th OSS/OSW, Edwards AFB, Calif.

AFMC Dodson Award
 Airman Barry W. Brooks, 412th OSS/OSW, Edwards AFB, Calif.

AFMC Pierce Award
 Staff Sgt. Paul G. Hamilton, 88th WS, Wright-Patterson AFB, Ohio

AFMC Zimmerman Award
 Capt. Steven T. Fiorino, 88th WS/WEL, Wright-Patterson AFB, Ohio

Mr. Chris E. Leak, Wright Lab, Wright-Patterson AFB, Ohio

Mr. Michael Squires, AFCCC, Scott AFB, Ill.

AFMC Best Award — Officer
 Capt. David J. Speltz, ESC/AXW, Hanscom AFB, Mass.

AFMC Best Award — Civilian
 Mr. Kirk E. Lehneis, 88th WS, Wright-Patterson AFB, Ohio

AFMC Best Award — Enlisted
 Senior Master Sgt. William H. Burr, AFMC/DOW, Wright-Patterson AFB, Ohio

AFMC Robert (Bud) Long Award
 Mr. Edward J. Keppel, 46th WS, Eglin AFB, Fla.

AFMC Williams Award
 72nd OSS/OSW, Tinker AFB, Okla.

AFMC Moorman Award
 88th WS (Acquisition Meteorology), Wright-Patterson AFB, Ohio

AFMC Grimes Award
 78th OSS/OSW, Robins AFB, Ga.

BIRTHS

Eamon Matthew Keane — to Staff Sgt. Sandy and Dennis Keane, 45th WS, Patrick AFB, Fla.

Goly James Brown — to Senior Airman Barbara Regio, 45th WS, Patrick AFB, Fla. and Airman 1st Class James Brown

Kathleen Debra Durio — to Airman 1st Class James J. and Heather A. Durio, 24th WS, Howard AFB, Panama

Samuel Yoon Williams — to Capt. and Mrs. Williams, HQ USAF/FOOO, Pentagon, Washington, D.C.

Karlyn A. Winters — to Capt. Kathy Winters, 49th OSS/OSW, Holloman AFB, N.M., and Lt. Col. (sel.) "Shelley" Winters

Claire Grace Cassel — to Staff Sgt. Bebbin and Michael Cassel, 436th OSS/OSW, Dover AFB, Del.

Jordan Lee Oulette — to Airman 1st Class Kelly and Dan Oulette, 16th OSS/DOW, Hurlburt Field, Fla.

Jacob Havelka — to Senior Airman Larry and Julie Havelka, 107th WF, Selfridge ANGB, Mich. (ANG) Samantha Paige Fillmore — to Staff Sgt. Wesley and Patricia Fillmore, ACC/AOS/AOW, Langley AFB, Va.

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

Madelaine Coakley Emert — to Capt. Jill and Chris Emert, 7th WS, Germany

William Alarie Cheman — to Capt. William and Eileen Cheman, 6th OSS/OSW, MacDill AFB, Fla.

Noah Michael Holmes — to 2nd Lt. Michael and Shannon Holmes, HQ AMC/TACCXOW, Scott AFB, Ill.

Christina Marie Macartney — to Staff Sgt. Jason and Un Suk Macartney, OL-C, 18th WS, Fort Knox, Ky.

McKenzie Taylow Krewson — to Senior Airman Paul and Tanya Krewson, OL-C, 18th WS, Fort Knox, Ky.

Lori Anne Fuson - to Airman First Class Carndi Fuson, 30th WS, Vandenberg AFB, Calif.

Fayth Vongsovanh - to Airman First Class Daravanh Vongsovanh, 30th WS, Vandenberg AFB, Calif.

Daigah Willis - to Airman First Class Mussette Willis, 30th WS, Vandenberg AFB, Calif.

Aundin Nededog - to Senior Airman Patrick and Rose Nededog, 30th WS, Vandenberg AFB, Calif.

Michael Griggs - to Airman First Class Eric and _____ Griggs, 30th WS, Vandenberg AFB, Calif.

MARRIAGES
 Airman 1st Class Monique Betterson, Det 6, 7th WS, Wiesbaden, Germany
 Senior Airman Jesse W. Naylor, OL-C, 18th WS, Fort Knox, Ky., to Leola Ruiz, Albuquerque, N.M.

MISCELLANEOUS
 Outstanding Performers — 353rd OSS ORI
 Capt. Don Shannon, 353rd OSS/WX, Kadena AB, Japan
 Staff Sgt. Kevin Bourne, 353rd OSS/WX, Kadena AB, Japan

1996 AIR FORCE WEATHER AWARD WINNERS

INDIVIDUAL AWARDS

Outstanding Air Force Weather (AFW) Company Grade Officer of the Year
 Capt. Donald G. Shannon, 353rd OSS/WX, Kadena AB, Japan (AFSOC)

Outstanding AFW Senior NCO of the Year
 Senior Master Sgt. Jeffrey A. Fluegge, 25th ASOS/DOW, Wheeler AAF, Hawaii (PACAF)

Outstanding AFW NCO of the Year
 Tech. Sgt. Tony B. Southerland, 100th OSS/DOW, RAF Mildenhall, U.K. (USAFE)

Outstanding AFW Airman of the Year
 Senior Airman Brian P. Hakey, 52nd OSS/WEF, Spangdahlem AB, Germany (USAFE)

Outstanding AFW Civilian of the Year
 Dr. Christy L. Crosiar, 30th WS/SY, Vandenberg AFB, Calif.

Outstanding Staff Support Best Award - Officer
 Maj. Ralph O. Stoffler, HQ USAFE/DOW, Ramstein AB, Germany

Outstanding Staff Support Best Award - Enlisted
 Senior Master Sgt. Michael A. Zimmer, HQ Air Force Global Weather Center, Offutt AFB, Neb. (AWS)

Outstanding Staff Support Best Award - Civilian
 Mr. Stanley W. Tkach, HQ Air Combat Command/DOW, Langley AFB, Va. (ACC)

Outstanding AF Weather Forecaster - Pierce Award
 Tech. Sgt. Gary L. Stevenson, 48th OSS/OSW, RAF Lakenheath, U.K. (USAFE)

Outstanding AFW Observer - Dobson Award
 Senior Airman Carmen A. Dominguez, 86th OSS/OSW, Ramstein AB, Germany (USAFE)

Most Significant Technical Contribution - Merewether Award
 Capt. Mark D. Conner, HQ AFGWC, Offutt AFB, Neb. (AWS)

Best Application of Climatology Zimmerman Award
 Mr. Michael F. Squires, Capt. Steven T. Fiorino, Senior Airman Kenneth J. Kreidall, Jr., AFCCC, Scott AFB, Ill. (AWS), and Mr. Chris E. Leak, 88th WS, Wright-Patterson AFB, Ohio (AFMC)

UNIT AWARDS

Outstanding Base/Post Weather Station Williams Award
 62nd OSS/OSW, McChord AFB, Wash. (AMC)

Outstanding Specialized Weather Unit Moorman Award
 24th WS/WSS, Howard AFB, Panama (ACC)

Outstanding Tactical Weather Unit Grimes Award
 7th Weather Squadron, Heidelberg AIN, Germany (USAFE)

