



*The Magazine For Air Force Weather*  
**OBSERVER**

January 1995  
Issue

Inaugural

*Inside Air Force Weather*

*Where We've Gone Since 1991*



## *Air Force Vision*

*Air Force people  
building the world's  
most respected air  
and space force...  
global power and  
reach for America*

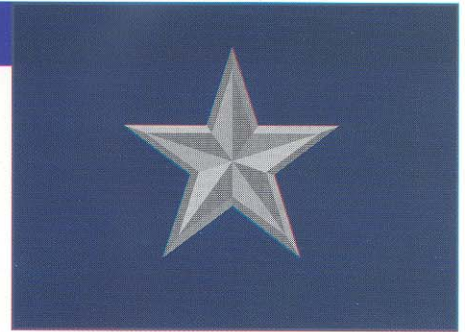


## *AWS Vision*

*Total Force  
Professionals  
Arming America's  
Combat Forces  
with the Winning  
Edge — The  
World's Best  
Military Weather  
Capability*

# Perspectives From The Top

Brig. Gen. Thomas J. Lennon  
Air Force Director of Weather



Welcome to the New Observer! We've chosen to reshape this publication with a new magazine format -- a new look to accomplish several important new objectives.

First, and foremost, is to open communication channels throughout Air Force weather from the top down and the bottom up, to bring the Weather community in touch with what is going on in each command, at Air Weather Service, and here on the Air Staff.

Second, is to produce a premiere periodical which includes articles and information covering all aspects of military meteorology and Air Force Weather -- a magazine we can all point to with pride.

The last is to provide a forum for all weather warriors, and those with a vested interest in military meteorology, to ask questions, exchange ideas, and stay current in the operational science. I believe we're off to a great start with this first edition, but we'll need your inputs to make it even better and more responsive to your needs in the coming months.

To kick things off, here's my vision for Air Force Weather. It is a vision that I believe you share with me. First, we are all

warfighters. The guiding principles of warfighting -- Know Yourself, Know the Enemy, Know the Environment, Know the Weather, and Have the Courage to Exploit this Knowledge -- dictate that Air Force Weather be integrated into the complete range of warfighter actions, from the individual to the strategic decision level.

Perhaps General Hap Arnold best summed up our warfighting role -- "Weather is the essence of successful air operations."

Today, each of you applies your expertise toward not only air operations, but space and ground operations as well. You make knowledge of the weather, throughout the seamless aerospace medium, the force multiplier that will give us the winning edge over our adversaries.

Air Force Weather succeeds as a force multiplier only with high quality professionals, properly trained and equipped.

As Air Force Director of Weather, my staff and I are dedicated to getting the weather warfighter the right training and equipment needed to do the job. It is not a mistake that people are foremost in this list of priorities and equipment is last. The term

"people" is all-inclusive, and applies equally to everyone who makes up Air Force Weather: computer programmers, communicators, members of the reserve and guard, and Air Force civilians, in addition to those with weather AFSCs. All members of the Air Force Weather team have an equal opportunity to contribute to its success and advance professionally.

As a team, we must strive for continuous improvement to keep the winning edge. Each of us must aspire to achieve our personal and professional best in what we do, everyday. Be creative, exploit technology, seek out opportunities, be ready, and stay ready. Inspire others with your enthusiasm -- it can be contagious.

With your wholehearted commitment to our shared vision, I'm convinced that Air Force Weather will continue to live up to its proud tradition -- providing the "winning edge" for our military forces worldwide.



# Command Line

Col. Frank J. Misciasci Jr.  
Air Weather Service  
Commander



## Changes

## You Wanted It; Here It Is

**H**appy New Year and welcome to the “New OBSERVER”. Over the past several months, many talented people have been hard at work throughout Air Weather Service to design and produce our new format. Well, here it is.

This new format was developed with you in mind. Our goal is to make it a conduit for the entire weather family to abreast of the Air Force Weather issues — where we’ve been, where we’re going and how we’re going to get there.

Since the reorganization in 1991, many of you have told us you feel out of touch with current weather issues. In fact, some thought that Air Weather Service itself had gone away. Well, we didn’t, and we corporately

pledge to keep you informed of what’s up with the people, programs, plans and new capabilities which are coming your way.

Now, keeping this magazine interesting will take the help of all who support Air Force Weather. We need for you to tell us what it is you like, or dislike about the OBSERVER; what it is that you want to read about.

One of the changes we’ll institute is a direct dialog between our readers and the senior leadership at the Air Staff, AWS and the major commands. We solicit any questions you have on topics relating to the weather career. Let’s hear from you!

Now, I’d like to take the time to say good-bye to TSgt. Bill Rhodes, who’s headed for Osan, AB, South Korea.

Bill is the creative genius behind our new OBSERVER. For the last year he’s been gearing up for this change in formats; and for my money, he is the best public affairs NCO in the Air Force! Without his talent we wouldn’t have succeeded. We’re looking forward to Bill’s return to AWS after he buys out all the souvenirs, leisure suits, and jogging shoes in Korea.

As we go to press, we’ve had some outstanding news. The Chief of Staff of the Air Force has approved the establishment of our Combat Weather Center at Hurlburt Field in Florida! Watch the February OBSERVER for more details.

Again — let us hear from you. This is your magazine — we want it to serve your needs.



## Headquarters Air Weather Service

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formation about this publication.

## FOCUS

Putting this first magazine together was not easy. In early 1993, Col. George L. Frederick Jr., then the AWS commander, decided to set the wheels in motion for the change of the *OBSERVER* from a



tabloid to a magazine. Over the next year, Air Weather Service purchased the required equipment. In 1994, Brig. Gen. Thomas J. Lennon, Air Force Director of Weather directed AWS to proceed with the magazine.

The idea was to make the new magazine a forum where the "weather family" could turn to for news on their careers and for technical information in forecasting. To make this dream come true, Col. Jack Hayes, AWS vice commander, created the integrated product team to map out the first and future editions of the Observer Magazine. Pictured above are five of the six member team. SSgt. Steven Elliott, the new AWS chief of public affairs; 2nd Lt. Sara Terison, representing the Systems and Communications Directorate (SY), Capt. Brian Bietter, representing the United States Air Force Environmental Technical Applications Center; 2nd Lt. Jahna Schadt, also representing SY, and Capt. John Pino. Not pictured are MSgt. Mike Spaulding and TSgt. William Rhodes. Pino, a manager for Future, Centralized Weather Projects with the Technology, Plans and Programs Directorate (XO), is the lead officer for the IPT and recently transferred to AWS from the Air Force Special Operations Command.

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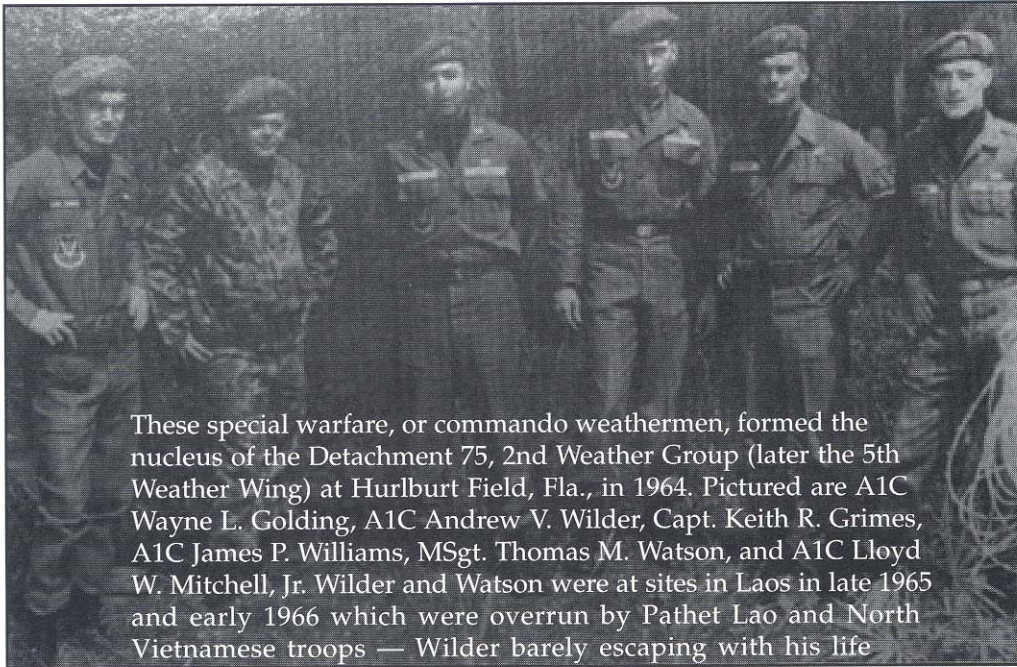
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# Weather Heritage



These special warfare, or commando weathermen, formed the nucleus of the Detachment 75, 2nd Weather Group (later the 5th Weather Wing) at Hurlburt Field, Fla., in 1964. Pictured are A1C Wayne L. Golding, A1C Andrew V. Wilder, Capt. Keith R. Grimes, A1C James P. Williams, MSgt. Thomas M. Watson, and A1C Lloyd W. Mitchell, Jr. Wilder and Watson were at sites in Laos in late 1965 and early 1966 which were overrun by Pathet Lao and North Vietnamese troops — Wilder barely escaping with his life

conditions without diplomatic protection.

On Nov. 20-21, 1970, a small U.S. force led a daring night raid on the prisoner of war camp at Son Tay, North Vietnam. The date for the raid was largely determined by Air Weather Service climatological study and forecasts provided by Grime's weather team. The overall raid commander later wrote "as far as tactical considerations were concerned, weather was probably the most critical factor."

AWS special warfare weathermen remained

A unique aspect of Air Weather Service's mission involved deployment of some commando weathermen to Thailand in early 1965 where they trained Laotians as forward weather observers for use in developing a limited weather observing net in Laos to support air operations during the Vietnam War.



The team primarily consisted of members from the 2nd Weather Group, 5th Weather Wing, Detachment 75, at Hurlburt Field, Fla., lead by Capt. Keith R. Grimes. Later that year, Grimes' men entered Laos and operated in an atmosphere they described as "super secret, cloak and dagger." They functioned not only as weathermen and advisors, but as forward air controllers, intelligence gatherers, and fighters. Posing as civilians with varying cover stories and carrying only a civilian identification card, they labored under the most hazardous

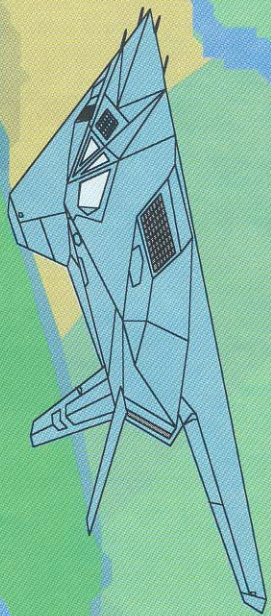
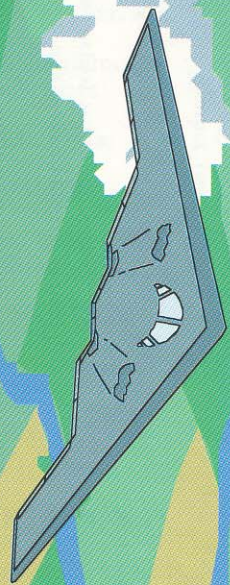
in Laos nearly continuously until the conflict's end keeping the vital weather-observing net functioning.

Although not involved in the Son Tay raid, one initial member of this "commando-style" weather unit was A1C Wayne L. Golding. Golding advanced to the rank of Staff Sergeant before he was commissioned through Officer Training School (OTS) in March 1971.

Today, Colonel Golding is Chief, Environmental Services for the United States Special Operations Command, headquartered at MacDill AFB, Fla., where he's responsible for providing, arranging, or monitoring meteorological and oceanographic support to special operations forces worldwide.

After more than 36 years in the Air Force, Golding is due to retire in March.

# Air Force Weather



**"WEATHER IS THE  
ESSENCE OF ALL  
AIR OPERATIONS"**

*GENERAL "HAP" ARNOLD*

## Operations

### Air Force Support

- ✓ Wing Weather Officer
  - ✎ Supporting fighter, bomber and airlift wings worldwide
- ✓ Force Enhancer—Cutting edge of Air Operations and Force Employment
  - ✎ Integral part of the combat team
  - ✎ Expert in weather and impacts on weapons and mission
  - ✎ Part of the team that plans and executes Air Ops
  - ✎ Work, live and deploy with your wing

### Army Support

- ✓ Officer In Charge, Cadre Weather Team
- ✓ Critical member of Division or Corps Commander's staff
  - ✎ Expert in unit mission and weather sensitivities
  - ✎ Play critical role in planning and executing combat ops
- ✓ Combat trained and mission ready
- ✓ Deploy with your unit—Move as part of the combat forces on the battlefield

### Special Operations Support

- ✓ Special Operations Weather Team, Parachute-qualified Special Forces, Rangers
- ✓ Where the action is!
- ✓ Key member of the special ops commander's staff
  - ✎ Advises strategy and tactics best suited for forecast weather
- ✓ Combat trained and ready to go at a moments notice
  - ✎ Airborne, jumpmaster, night navigation, marksman and field operations
- ✓ Deploys as part of the SpecOps team
  - ✎ Part of the action—from initial planning to actual airborne or airlift maneuvers

## Growth

### Air Force Institute of Technology

- ✓ Outstanding opportunities for obtaining advanced academic degrees
  - ✎ 40 Master of Science slots per year
  - ✎ 2 Doctorate slots per year
- ✓ Obtained through Civilian Institutions
  - ✎ Texas A&M, North Carolina State, Penn State, Colorado State and many others
- ✓ Wide range of specialties: Radar, Physical, and Dynamic meteorology; Space Ops; Computer Science; and many others

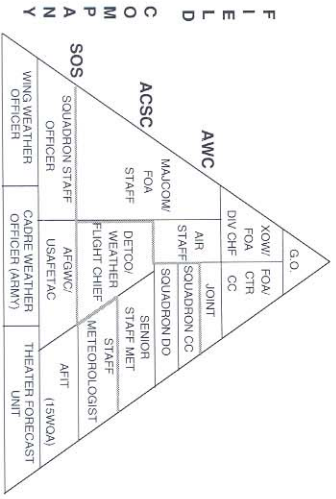
### Professional Military Education

- ✓ Tremendous opportunities to further professional development through In-Residence attendance.
  - ✎ Squadron Officer School
  - ✎ Intermediate Service School
  - ✎ Senior Service School

### Promotion

- ✓ AF Weather provides a variety of challenging, yet unique, career paths to senior rank

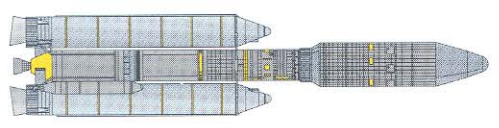
### 15WX CAREER PYRAMID



## Career Broadening Opportunities

The weather career field opens up an unlimited horizon of opportunities for career broadening, to include:

- Flying Operations
- Space Operations
- Air Base Operations
- Space and Missile Launch
- Acquisition
- Weapons Research and Development
- Wargaming and Simulation
- Comm-Computer Systems
- ROTC, USAFA, SOS, ISS Instructors





# Officer Opportunities

**Capt Tim Hutchison**  
Air Weather Service  
Chief of Personnel



The Air Force weather officer career field is an exciting one with tremendous opportunities. This column is designed to augment the officer career information made available through the Air Force Military Personnel Center, your supervisors and your senior leaders.

In this magazine, you've probably already found the Air Force Weather careers brochure, which provides a high-level synopsis of an officer's career and the many opportunities available. Each month, this column will address a different topic. This month, let's look at the initial assignment in Air Force Weather.

The Air Force accesses weather officers through several means: USAF Reserve Officer Training Corps (ROTC), the Airman Edu-

cation and Training Program (AECPT), Officer Training School (for individuals holding an

undergraduate degree in Atmospheric Science), and through the Meteorology track at the USAF Academy.

If you're a newly accessed weather officer, you are most likely assigned to a base weather station where you support either Air Force or Army operations.

Initially, the primary focus should be to learn the mission of your customer and how to tailor a forecast for military operations. Once trained as a forecaster, you become one of the following: a Wing Weather Officer (WFO), if supporting the Air Force; an Officer in Charge of a Cadre Weather Team, if supporting the Army; a member of a Special Operations Weather Team, if supporting Special Operations; or as a forecaster at a weather forecast unit.

What should be your focus?

THE OPERATIONAL CUSTOMERS! Learn their combat missions, understand the weapon systems they employ, how weather affects them and how to forecast the weather most critical to the warfighter you support.

You are an integral part of the operational team—that's why the Air Staff put the weather specialty in the 1XXX AFSC series. Take up the challenge—visit your customers, study their op plans, and get to know the other members of your combat team!

This column is written specifically to meet your needs and concerns. If you have specific career questions, or issues which you need addressed, contact me and I'll either answer them in future columns or call you back.

My address is: Capt Tim Hutchison, HQ Air Weather Service, Chief of Personnel (AWS/RMP), 102 West Losey St, Room 105, Scott AFB IL 62225-5206 or DSN 576-4895, ext 344. You can also contact me through my electronic mail address at "Hutch@hqaws.safb.af.mil".

# Enlisted Opportunities

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**CMSgt. Jim Hoy**  
Superintendent of Weather

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The Air Force weather enlisted career field is an exciting one with tremendous opportunities. This column is designed to augment enlisted career information made available through the Air Force Military Personnel Center, your supervisors and your senior leaders. Each month, this column will address a different topic. This month, let's focus on the pipelines into your first assignment.

With the Air Force Chief of Staff's Year of Training initiatives and the Air Force Weather's "single" schoolhouse, dramatic changes are occurring in the enlisted weather career field.

In March, 1993, the senior noncommissioned officers of Air Force weather drafted the

specialty training standard that directed the change to the "single" schoolhouse. where the AF needs you.

As a first assignment, you won't be assigned to any of the AF weather centers, short tour overseas units or headquarters units, since at this stage of your career, it is absolutely critical that you, as a new member of the AF weather team, learn the "core" weather tasks.

Your primary focus in this initial assignment is to further develop the observing and forecasting skills you learned in the ISC. Some exciting and challenging times are ahead as we integrate the new ISC program into AF weather operations.

This column is written specifically to meet your needs and concerns. If you have specific career questions, or issues which you need addressed, contact me and I'll either answer them in future columns or call you back. Chief Master Sergeant Jim Hoy, HQ USAF/XOW, 1490 Air Force Pentagon, Washington DC 20330-1490 or DSN 224-7410.

The new Weather Initial Skills Course (ISC) begins in March 1995.

In January 1996, the ISC will graduate a different student than in the past, one that is educated in both observing and forecasting the weather.

The Air Force Weather Career Field Education and Training Plan directs that you, as a 3-level graduate of the ISC, must be assigned to a unit which can train you in the "core" tasks of a weather enlisted member. These include such tasks as taking an observation, issuing a forecast, and briefing an aircrew, just to name a few. Initially, you can expect to be assigned to either a stateside or overseas base weather station, supporting either Air Force or Army operations.

Your specific assignment depends, most importantly, on

# Air Weather Service

*What is it, “who cares?”*

▼ Provides centralized weather and space environmental services to the Air Force, Army, Joint Staff, designated unified and specified commands, and other agencies as required

▼ Ensures standardization of procedures and interoperability of Air Force Weather

▼ Assess the technical performance and effectiveness of weather services provided by Air Force Weather

▼ Provides technical advice and help to all agencies supported by Air Force Weather

▼ Fields and sustains weather systems for the Air Force and Army



*“In this age of rapid deployments to contingencies and for relief efforts, Air Weather Service is committed to providing the weather forces the best in manpower and equipment to meet the needs of every warfighting commander.”*

**Col. Frank J. Misciasci Jr.  
Commander, Air Weather Service**

*Military  
commanders  
depend on  
accurate  
weather  
information  
to plan and  
direct their  
operations.  
Air Force  
weather  
personnel  
provide*

*Story by TSgt. William M. Rhodes*

Air Weather Service Public Affairs

information on the past, present and future states of the air and space environments within which weapon systems and their supporting infrastructure operate.

In recent years, the technological advances in observing and forecasting methods have increased the capability and accuracy by military meteorologists.

Weather has been and is an integral part of combat operations. Weather exerts a constant influence on the readiness, morale, and effectiveness of military forces, the choice of military strategy and tactics, and the performance and useful life of military weapons systems. It is this military use of weather that separates the television weather person from the military one. Today's post-cold war military is called upon to provide its services anywhere and at any moment. Only one organization has a goal of making sure Air Force weather personnel have the best capability to support U.S. Army and Air Force commanders — Air Weather Service.

"In this age of rapid deployments to contingencies and for relief efforts, Air Weather Service is committed to providing the weather forces the best in manpower and equipment to meet the needs of every warfighting commander," states Col. Frank J. Misciasci Jr., AWS commander.

When Misciasci took over in mid-1993, the Air Force Weather structure was into its second year of reorganization. Prior to April, 1991, AWS owned every Air Force weather station worldwide.

With his "One-Base, One-Boss" initiative,

former Air Force Chief of Staff, Gen. Merrill A. McPeak, gave ownership of base weather functions to the owning command (*see ACC page 20*).

Formerly assigned under the then Military Airlift Command, AWS is now a Field Operating Agency which reports directly to the Air Force Directorate of Weather, Office of the Vice Chief of Staff for Plans and Operations (AF/XOW). That position is currently held by Brig. Gen. Thomas J. Lennon, who is no stranger to either weather or air combat.

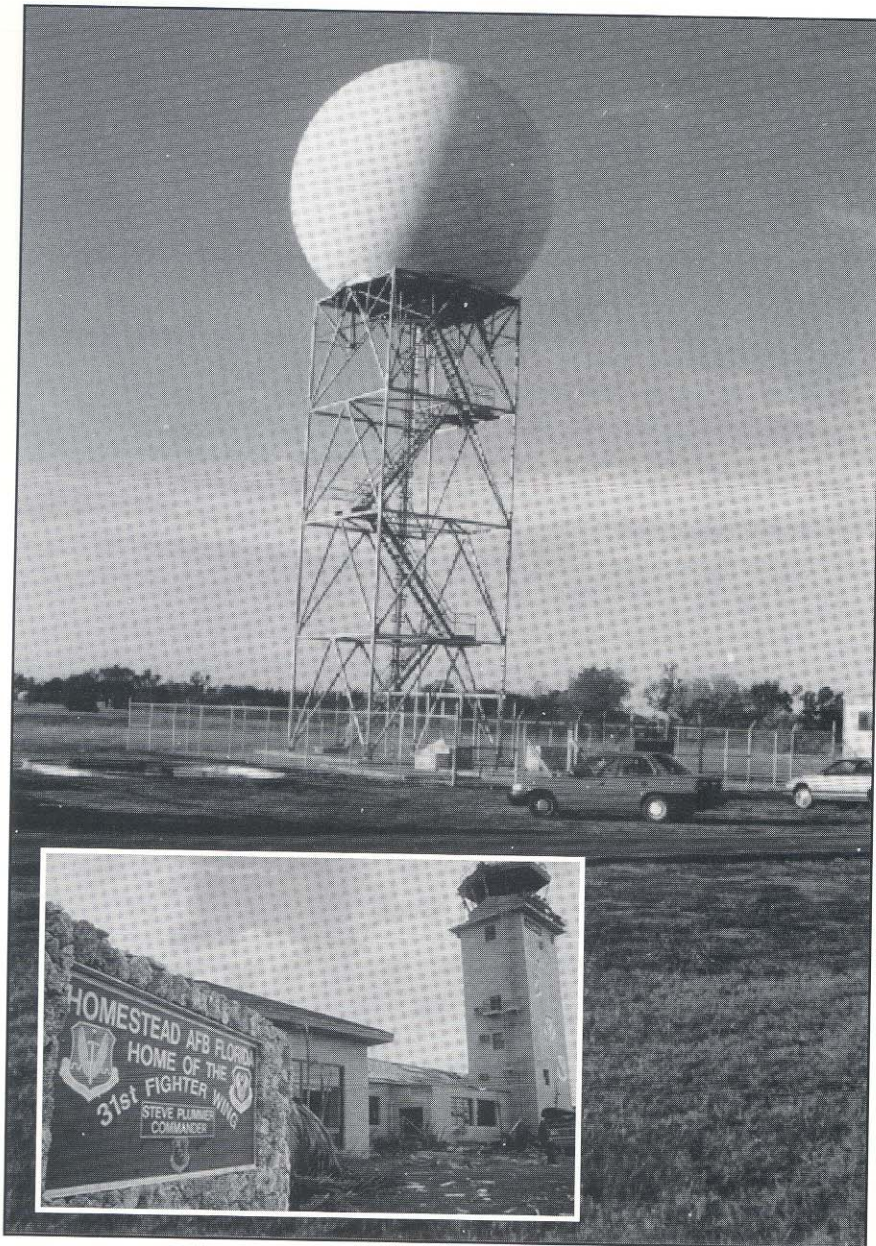
From August 1990 to March 1991, Lennon led the 48th Tactical Fighter Wing, RAF Lakenheath, England, on its deployment to Taif, Saudi Arabia, for Operations DESERT SHIELD and DESERT STORM.

That wing included 66 F-111F aircraft from the 48th TFW and 20 EF-111A aircraft from Mountain Home AFB, Idaho and RAF Upper Heyford, England. More than 3,000 people representing 243 units from 74 bases were assigned to the wing. The general has 409 combat missions under his belt during three combat tours.

"My challenge is to continue to improve our focus as a force multiplier for combat operations. And that doesn't only mean in wartime, but in peacetime also," says Lennon.

"You must train as you fight. We in the Air Force need to learn how to use the weather and to be able to operate across all spectrums of weather conditions at all

# New Technology



***Air Weather Service played a major role in the development and procurement of the Next Generation Radar system to base weather stations. This technology detects severe weather better than ever before and gives commanders more time in making critical decisions for base resource protection.***

OBSERVER

levels of operations from tactical to operational to strategic levels of operations.”

To accomplish this mission, the AF/XOW fields specific technology, training and equipment requests from the major command directors of weather. Those requests are then sent to AWS, which researches and designs programs consistent with the MAJCOM's needs.

To do this, AWS has two directorates and an equal number of satellite units providing current and long range plans and day-to-day mission requirements.

The Air Force Global Weather Central at Offutt AFB, Neb., maintains a weather database and applies it in real-time to satisfy worldwide requirements of Air Force combat forces, the National Command Authorities, Department of Defense, and multi-billion-dollar sensitive National Programs controlled by the Secretary of the Air Force (*see AFGWC, page 24*).

The United States Environmental Technical Applications Center at Scott AFB, Ill., collects, saves, and applies weather data to generate environmental products in support of worldwide operations of the Air Force, Army, and other DOD and U.S. Government agencies.

*(see USAFETAC, page 25)*

Inside AWS, the Technology, Plans and Programs Directorate (XO) along with the Systems and Communications Directorate (SY) makes up the bulk of the FOA's functional area.

The XO develops the initial

***continued on Page 29***



The Headquarters Air Weather Service, Directorate of Technology, Plans, and Programs (AWS/XO) is composed of the recently merged Operations and Technology Directorates. We're here to serve Air Force Weather — while names have changed, the fundamental jobs performed regarding operations and technology actions and issues have not. As in the past, we occupy the second floor of AWS and we continue to provide direct service across AFW.

Our job spans every facet of AWS programs — gathering requirements to field and sustain systems, meeting training needs, assisting field units to apply technical expertise to tailor products and services to meet a wide-range of customer needs, and ensuring centralized and climatological products and services are provided worldwide — that, and much much more. To accomplish this, XO is organized into five divisions: Requirements, Operations and Standardization, Technology Plans, Technology Training, and Special Projects.

In our Requirements Division (XOR) we conduct long range studies and analyses to identify future needs of the weather functional area, plan and develop, or acquire training to meet those needs; and manage requirements for initial and continuation training across the career field. XOR works in concert with the major commands during initial phases of program and training development.

Even though "operations" no longer

*continued on Page 28*

## XO Functional Areas

### XOO — Operations

#### and Standardization Division

**XOOM:** Contingency Branch — contingency and exercise planning

**XOOO:** Centralized Operations Branch — centralized weather services

**XOOS:** Weather Standardization Branch — standardized weather procedures

### XOR — Requirements Division

**XORR:** Future Weather Plans and Programs Branch — new AFW programs

**XORT:** Training Requirements Branch — training requirements for new systems

### XOS — Special Projects Division

**XOSP:** Special Support Branch — SCI and SAR requirements

**XOSS:** Security Branch — individual security program

### XOT — Technology Training Division

**XOTS:** Field Support Branch — direct technical assistance to weather units

**XOTT:** Weather Unit Techniques Branch — exploits technology and techniques

### XOX — Technology Plans Division

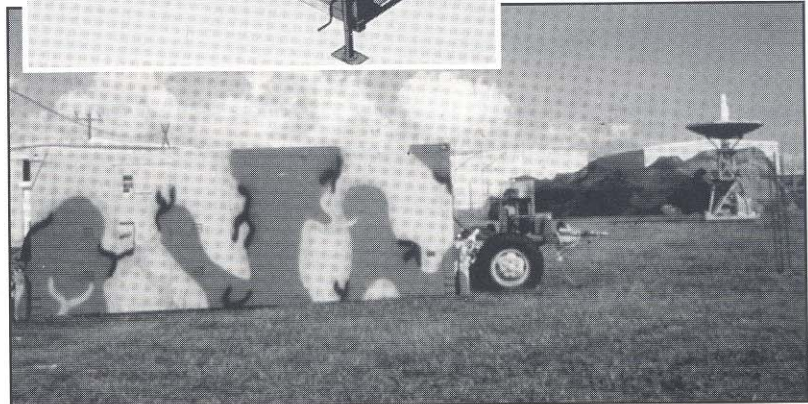
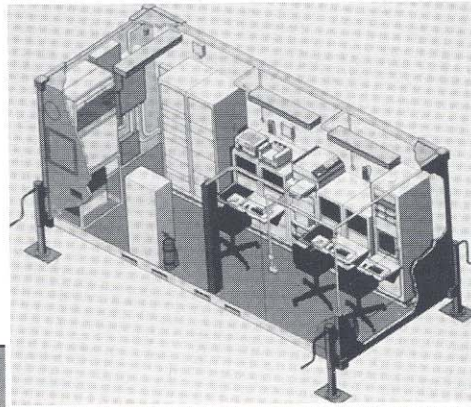
**XOXA:** Analysis and Evaluation Branch — performs performance assessments

**XOXP:** Programs Plans Branch — conducts modernization planning

**XOXT:** Product Improvement Branch — technology infusion in new acquisitions

## Mission

**Plan, program and identify the best technology available to put into Air Force Weather equipment acquisition programs. Ensure AFW people have the right mix of initial and recurring training to meet customers' current and future deployed and in-garrison weather product needs.**





The Systems and Communications Directorate (SY) is a team of talented experts whose charter is to develop, acquire, and sustain those weather and ground based space environment systems that you need to do your job. We are what you may remember as the old Program Management and Integration and Communications Directorates.

When we combined directorates a few months ago, we realized a tremendous amount of synergy from our people and forged a significantly improved approach to managing AF weather systems. Our focus is on the entire weather support system, from the myriad of computers at the Air Force Global Weather Central, 50th Weather Squadron (formerly the Air Force Space Forecast Center), and the United States Air Force Environmental Technical Applications Center, through the worldwide weather communications networks, to the base weather stations and weather sensors on the runway.

Within our directorate, we have a combination of meteorologists, computer and communications specialists, acquisition professionals, engineers, logisticians, equipment specialists, meteorological-navigation and weather radar maintenance technicians, and operational testing and evaluation experts working to operational needs.

We are the Air Force's lead command for weather systems. We not only acquire weather systems such as the Next Generation Radar

## SY Functional Areas and Major Programs

### SYA - COMPUTER SYSTEMS DIVISION

**SYAA:** — AFGWC, USAFETAC, and 50th WS systems acquisition

**SYAI:** — computer systems, models and applications

**SYAP:** — computer hardware and software standardization and policy

**SYAS:** — systems contract support and services

### SYD - Standard Systems Division

**SYDC: Combat Weather Systems Branch** — tactical meteorological equipment and EOTDAs

**SYDF: Base Weather Systems Branch** — airfield forecasting and observing sensor systems

**SYDR: Weather Radar Systems Branch** — fixed base and deployable weather radars

**SYDS: Weather Satellite and Space Systems Branch** — weather satellite and ground-based space environmental sensors

### SYK - Communication Systems Division

**SYKA: Architecture Branch** — data administration, software engineering, software improvement programs

**SYKC: Contingency Communications Branch** — worldwide communication support

**SYKI: Integration and Interoperability Branch** — commercial weather communications systems

**SYKS: Communications Security Branch** — C4 systems security, accountability, and support

### SYX - Program Control Division

**SYXE:** — Modification Programs and E&I Management

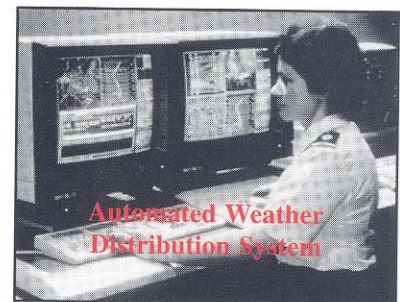
**SYXL:** — Logistics and Configuration Management Branch

**SYXP:** — Acquisition Policy and Resource Management Branch

**SYXT:** — Test and Evaluation Management Branch

## Mission

**Provide standard systems management for USAF meteorological equipment, weather center computer hardware and software, and long-haul communications.**



(NEXRAD) and the Automated Weather Distribution System (AWDS), but are involved in the allied support, engineering and installation, configuration management, integration, modification, and improvement, supply and logistics support, and field testing of weather systems.

To do our job, SY is organized into

four divisions: the Computer Systems Division, the Standard Systems Division, the Communications Systems Division, and the Program Control Division. The Computer Systems Division (SYA) manages acquisition and support of AFGWC, USAFETAC, and 50th WS computer systems. Those essential systems

**continued on Page 28**

# Clearing the ~~noise~~

## About benchmarking, competitive comparison

by John J. Bartrum  
HQAWS Quality Advisor

I've noticed a lot of confusion between the terms "benchmarking" and "competitive comparison."

Simply put, benchmarking refers to a formal process of comparing your processes and practices against best-in-class companies, top competitors or best practices.

"It's the continuous process of measuring our products, services and practices against our toughest competitors or companies renowned as leaders," according to David

T. Kerns, former chairman of Xerox Corp.

"It means finding the best practices, and then improving, modifying and implementing them in your organization."

Dr. Robert Camp, a world-renowned leader on benchmarking, describes four basic types of benchmarking: *internal, competitive, functional and generic process benchmarking.*

### **INTERNAL BENCHMARKING**

Internal benchmarking relates to comparing similar

processes within an organization.

For example, the comparison of how your directorate process leave requests to other directorates within your organization and implementing best practices.

### **COMPETITIVE BENCHMARKING**

Competitive benchmarking involves comparing similar processes with your competitors to improve your organization.

For example, a paper supplier compares its distribution system to its competitors.

### **FUNCTIONAL BENCHMARKING**

Functional benchmarking involves comparing processes of like functions.

An example would be an organization comparing its acquisition process to that of other organizations.

**Benchmarking refers to a formal process of comparing your processes and practices against best-in-class companies, top competitors or best practices.**



**Competitive comparison is comparing your unit to units which are about the same size and do similar things and seeing how your results compare to theirs.**

### **GENERIC PROCESS BENCHMARKING**

Generic process benchmarking involves an organization comparing a generic business process to an organization that is considered "world class" in that process. For example, a copier company would

compare it's delivery process to a mail order catalog company.

### **COMPETITIVE COMPARISON**

Competitive comparison is comparing your unit to units which are about the same size and do similar things and seeing how your results compare to theirs.

For example, an organization of 150 personnel compares its safety record to another similar organization or to the Air Force average.

*(For more information about benchmarking or competitive comparison, read Camp's book "Benchmarking" or call me at DSN 576-5654, ext. 493.)*

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## **HQ AWS creates Quality Council**



The senior leaders of Headquarters Air Weather Service (CC, CV, RM, SY, XO, and CCW) officially chartered the HQ AWS Quality Council Dec. 12, 1994. The purpose of this council is to provide direction and a focus towards the integration of Quality Air Force principles and practices within the HQ AWS. The council will consist of the following individuals:

**OBSERVER**

#### Voting Members

AWS/CV, HQ AWS enlisted advisor, SY, XO, RM, HQ AWS Company Grade Officer of the Year, Senior NCO of the Year, NCO of the Year, Airman of the Year, and Civilian of the Year.

#### Non-Voting Members

RMX (Facilitator).

The HQ AWS Quality Council will charter two types of teams.

**Integrated Product Team (IPT):** A group of individuals selected and chartered by the senior leaders of the organization to work a high priority area for improvement.

The team will create a game plan to attack the area for improvement. Their recommendations require senior leader review of the initial recommendations and quarterly reviews to senior leaders on the status of the group's actions.

**Process Action Team (PAT):** A group of individuals who are knowledgeable in the selected process

and chartered by the quality council or a senior leader to analyze and improve a target process.

At the last meeting the council chartered 3 teams: 2 IPT's and 1 PAT. Each of the IPTs were developed as a direct result of the HQ AWS Unit Self-Assessment performed this past summer. One IPT, led by HQ AWS comander Col. Frank J. Misciasci, Jr., will work on senior executive leadership's approach and deployment of quality throughout the organization.

The other IPT will focus on improving customer satisfaction and will be led by Lt. Col. Mazurowski with HQ AWS Vice Commander Col. Jack Hayes as the team mentor. The PAT will examine the AWS awards program and be led by Maj. Bert Cordeiro, deputy resource manager, with Lt. Col. Steve Carroll, the RM, as team mentor.

If you have any questions or comments please feel free to contact John Bartrum at DSN 576-5654, ext 493.



*Meritorious Service Medal*



Maj. Bruce D. Flaig, Headquarters Electronic Systems Center, Hanscom AFB, Mass.  
 Lt. Col. Kenneth F. Smith, Headquarters Air Force Global Weather Central, Offutt AFB, Neb.  
 Maj. Donald L. Wilson, HQ AFGWC, Offutt AFB, Neb.  
 Maj. Beverly J. Baker, HQ AFGWC, Offutt AFB, Neb.  
 Capt. Robert C. Allen, Jr., HQ AFGWC, Offutt AFB, Neb.  
 CMSgt. James E. Rockwood, HQ AFGWC, Offutt AFB, Neb.  
 MSgt. Walter L. Coley, Jr., HQ AFGWC, Offutt AFB, Neb.  
 Lt. Col. Robert Catanco, 113rd WF, ANG  
 Lt. Col. Charles E. Houghton, 140th WF, ANG(1st Oak Leaf Cluster)  
 Lt. Col. Larry A. Kumata, 199th WF, ANG  
 MSgt. Douglas Greenwell, 113rd WF, ANG

*Air Force Commendation Medal*



Capt. Michael K. Guinn, 52nd Operations Support Squadron, Spangdahlem AB, Germany  
 TSgt. Vincent S. Huebner, 52nd OSS, Spangdahlem AB, Germany  
 Capt. Spencer R. Chapman, HQ ESC, Hanscom AFB, Mass.  
 MSgt. Tara R. Carty, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Michael H. Dollinger, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Kenneth P. Fletcher, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Kenneth P. Geary, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Ann M. Luteran, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Jeffrey W. Norrod, HQ AFGWC, Offutt AFB, Neb.  
 SrA. Jerry M. Haynes III, HQ AFGWC, Offutt AFB, Neb.  
 A1C Selvan G. Snow, Jr., HQ AFGWC, Offutt AFB, Neb.  
 2nd Lt. Anthony F. Shea, Jr., HQ AFGWC, Offutt AFB, Neb.  
 MSgt. Harry N. Kinard, Jr., Det. 7, HQ AFGWC, Tinker AFB, Okla.  
 MSgt. Dennis A. Mitchell, HQ AFGWC, Offutt AFB, Neb.  
 MSgt. Gordon F. Potts, Det. 7, HQ AFGWC, Tinker AFB, Okla.  
 TSgt. Paul A. Heinz, Det. 7, HQ AFGWC, Tinker AFB, Okla.  
 TSgt. Robert J. Poulin, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Clarence R. Seale III, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Russell Tomlinson, Det. 7, HQ AFGWC, Tinker AFB, Okla.  
 SrA. Lisa L. Wendt, HQ AFGWC, Offutt AFB, Neb.  
 SMSgt. John R. Bamrick, 202nd WF, ANG  
 TSgt. Tiffany E. Leighton, 202nd WF, ANG  
 SSgt. Bryan D. O'Connell, 202nd WF, ANG

*Army Commendation Medal*

Capt. Kevin L. Witte, HQ ESC, Hanscom AFB, Mass.  
 MSgt. Donald M. Gury, 104th WF, ANG  
 MSgt. Charles S. Lake, 104th WF, ANG  
 TSgt. Robert E. Haney, 104th WF, ANG  
 TSgt. Michael H. Weir, Jr., 104th WF, ANG

*Air Force Achievement Medal*



1st Lt. Scott A. Fausch, HQ AFGWC, Offutt AFB, Neb.  
 SrA. Charles Durdick, Det. 7, HQ AFGWC, Tinker AFB, Okla.  
 SrA. Joy Eapen, Det. 7, HQ AFGWC, Tinker AFB, Okla.  
 SrA. Bradley D. Stanislawski, HQ AFGWC, Offutt AFB, Neb.  
 SrA. Michale P. Latimer, HQ AFGWC, Offutt AFB, Neb.  
 SrA. Damon B. Wilson, HQ AFGWC, Offutt AFB, Neb.

*Army Achievement Medal*

1st Lt. Sean P. Monogue, 1st Weather Squadron, Fort Lewis AIN, Wash.  
 SSgt. John D. Farriss, 1st WS, Fort Lewis AIN, Wash.  
 Capt. Micheal DiVecchio, 104th WF, ANG  
 1st Lt. David R. Helms, 104th WF, ANG  
 SSgt. James P. Gary, Jr., 104th WF, ANG  
 SSgt. Robert Gibert, 104th WF, ANG  
 SSgt. Jeffrey J. Hoffman, 104th WF, ANG  
 SSgt. Brian K. Israel, 104th WF, ANG

SSgt. Raymond R. Page, 104th WF, ANG  
 Sgt. Robert K. Henry, Jr., 104th WF, ANG  
 SrA. Marie E. Kulick, 104th WF, ANG  
 SrA. Paul S. Thompson, 104th WF, ANG  
 A1C Charles Wildberger, 104th WF, ANG

*Air Force Good Conduct Medal*



TSgt. John W. Walker, 1st WS, Fort Lewis AIN, Wash.  
 SrA. Roy Leonard, 1st WS, Fort Lewis, Wash.  
 SrA. Bride L. Farmstead, 1st WS, Fort Lewis, Wash.  
 MSgt. Walter D. Wilkerson, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Ricky L. Avery, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Ralph F. Ley, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Clarence R. Seale, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Dale M. Hill, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. David L. Robbins, HQ AFGWC, Offutt AFB, Neb.  
 SrA. Kristine A. Jordan, HQ AFGWC, Offutt AFB, Neb.  
 SrA. David A. Penne, HQ AFGWC, Offutt AFB, Neb.  
 SMSgt. Thomas O. Kinney, Jr., HQ AFGWC, Offutt AFB, Neb.  
 MSgt. Thomas W. Halverson, HQ AFGWC, Offutt AFB, Neb.  
 MSgt. Kenneth J. Harris, HQ AFGWC, Offutt AFB, Neb.  
 MSgt. Charles L. Williams, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Joseph D. Daird, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Dale E. Bates, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Chaelse E. Carrier, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Edward D. Coleman, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Edward Czopkiewicz, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. John A. Diorio, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. Paul D. Pierce, HQ AFGWC, Offutt AFB, Neb.  
 TSgt. David Rivers, Jr., HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Alice T. Brunette, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Michael N. Camp, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Paul D. Hauer, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Laura Jean Howard, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Stephen p. Humphrey, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. John F.J. Langhorne, HQ AFGWC, Offutt AFB, Neb.  
 SSgt. Howard A. Westbrook, HQ AFGWC, Offutt AFB, Neb.  
 SrA. Eric W. Angles, HQ AFGWC, Offutt AFB, Neb.  
 SrA. Matthew L. Eisinger, HQ AFGWC, Offutt AFB, Neb.  
 SrA. Michael S. May, HQ AFGWC, Offutt AFB, Neb.

*Air Force Reserve Meritorious Service Medal*



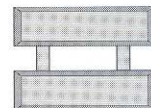
TSgt. David L. Tucker, 146th WF, ANG, Pittsburgh, Pa.  
 SSgt. Warren F. Warren, 146th WF, ANG Pittsburgh, Pa.

*Air Force Longevity Service Award*



SrA. Jason D. Welsh, 146th WF, Pittsburgh, Pa.

*Promotions*



Wilson R. Dodge, 164th Weather Flight,  
 David R. Helms, 104th WF, ANG  
 Rick A. May, 164th WF, ANG  
 Steven J. Rosenberg, 204th WF, ANG  
 Stacy E. Vandemark, 123rd WF, ANG



Christopher T. Peck, 195th WF, ANG



Richard A. Blume, Det. 7, HQ AFGWC, Offutt AFB, Neb.  
 Peter L. Glinski, HQ AFGWC, Offutt AFB, Neb.

## Around The World



Vincent S. Huebner, 52nd OSS, Spangdahlem AB, Germany  
Ryan J. Marben, 126th WF, ANG  
Terry L. Barnes, HQ AFGWC, Offutt AFB, Neb.  
Mryna A. Ramirez, HQ AFGWC, Offutt AFB, Neb.



Mona K. Bonick, HQ AFGWC, Offutt AFB, Neb.  
Marc D. Henrichs, HQ AFGWC, Offutt AFB, Neb.  
Iint D. Lauricella, HQ AFGWC, Offutt AFB, Neb.  
Jeffrey W. Norrod, HQ AFGWC, Offutt AFB, Neb.  
Steven E. Lehman, HQ AFGWC, Offutt AFB, Neb.  
Varol A. Mlynarek, HQ AFGWC, Offutt AFB, Neb.  
Eric D. Thoreson, HQ AFGWC, Offutt AFB, Neb.  
Leslie A. Kubena, 111th WF, ANG  
Eric A. Nau, 204th WF, ANG  
Howard D. Speer III, 156th WF, ANG



Lonnie A. Clute, 355th OSS, Davis-Monthan AFB, Ariz.  
Ryan L. Bratt, HQ AFGWC, Offutt AFB, Neb.  
Mark R. Anderson, Det. 7, HQ AFGWC, Tinker AFB, Okla.  
Eric W. Angles, HQ AFGWC, Offutt AFB, Neb.  
Patrick R. Ashley, Det. 7, HQ AFGWC, Tinker AFB, Okla.  
Matthew L. Eisinger, HQ AFGWC, Offutt AFB, Neb.  
Christina A. Wagner, 123rd WF, ANG



Leon H. Schendel, 126th WF, ANG  
Vincent A. Heath, HQ AFGWC, Offutt AFB, Neb.



Melanie Weger, 116th WF, ANG

### Education

#### *Master of Business Administration*

Capt. Kevin L. Witte, HQ ESC, Hanscom AFB, Mass. (Western New England College)

#### *Master of Arts in Economics*

Capt. Doug M. Hanson, HQ AFGWC, Offutt AFB, Neb. (University of Oklahoma)

#### *Bachelor of Technology in Management*

MSgt. Deborah T. Steere (Peru State University)

#### *CCAF Degree in Information Systems Management*

SSgt. Anthony D. Gulbrandsen, HQ AFGWC, Offutt AFB, Neb.

#### *CCAF Degree in Weather Technology*

Sgt. Donald J. Pruden, HQ AFGWC, Offutt AFB, Neb.

#### *NCO Academy*

TSgt. Brenda S. Huebner, 52nd OSS, Spangdahlem AB, Germany  
TSgt. Vincent S. Huebner, 52nd OSS, Spangdahlem AB, Germany  
TSgt. Patrick J. Flieg, 52nd OSS, Spangdahlem AB, Germany  
TSgt. Dave A. Fincher, HQ AFGWC, Offutt Neb.  
SSgt. Cope D. Leuenberger, HQ AFGWC, Offutt AFB, Neb. (by correspondence)

#### *Airman Leadership School*

Sgt. Terry L. Rhodes, 1st WS, Fort Lewis AIN, Wash.

### *Communications Computer Systems Operator Course*

Amn. John D. Wood, HQ AFGWC, Offutt AFB, Neb. (Honor Graduate)  
AB Daniel J. Stone, HQ AFGWC, Offutt AFB, Neb. (Honore Graduate)

### *Combat Survival School*

TSgt. John W. Walker, 1st WS, Fort Lewis AIN, Wash.  
SrA. Bride L. Farmstead, 1st WS, Fort Lewis AIN, Wash.  
SrA. Matthew E. Field, 1st WS, Fort Lewis AIN, Wash.

### *Pararescue Initial Indoctrination*

SrA. Kevin F. Baum, 1st WS, Fort Lewis AIN, Wash.

### *Retirements*

Col. Stephen M. Horn, HQ AFGWC, Offutt AFB, Neb.  
Lt. Col. Charles E. Houghton, 140th WF, ANG  
Lt. Col. Larry A. Kumata, 199th WF, ANG

### *Separations*

SSgt. David Rios, 355th OSS, Davis-Monthan AFB, Ariz.

### *Awards*

#### *CDC Pacesetter Award*

SSgt. David L. Robbins, HQ AFGWC, Offutt AFB, Neb. (CDC 3C052)

#### *Indiana Hoosier Hero Award*

Lt. Col. Robert Cataneo, 113rd WF, ANG

#### *North Carolina National Guard Commendation Medal*

TSgt. Allan Cecil, 156th WF, ANG

#### *Pennsylvania Gen. Thomas R. White, Jr., Medal*

SSgt. Brian S. Michals, 146th WF, ANG, Pittsburgh, Pa.

#### *National Guard Bureau Superior Performance Award*

146th Weather Flight, ANG, Pittsburgh, Pa.

## A Note From The Editor

The salutes pages is designed to highlight the accomplishments of every member of Air Force Weather -- active duty, reserve, national guard civil service and civilians. However, we cannot provide you with the quality of service you deserve if you don't help us.

When you send a submission for the Salutes pages, please include rank, first, last and middle initial of name, complete unit designation (for example, TSgt. John D. Doe, 123rd OSS, Somewhere AFB, USA; not TSgt. Doe, 123rd OSS).

For military or academic achievements, if you have a picture of yourself, send it in.

Once again, the Observer staff is looking forward to serving you with the best product. We can only achieve our goals with your help.



## AirCombat Command

### MISSION

Operates combat-coded fighter, bombers, tankers, and reconnaissance aircraft.

Organizes, trains, equips and maintains rapid-response, combat-ready forces.

Provides nuclear-capable forces for u.s. Strategic Command.

*Its purpose was to show communication could support the warfighter. The goal was to demonstrate a first-in capability to send data directly to deployed Command, Control, Communication, Computer, and Intelligence systems. The lead for the Joint Warrior Interoperability was weather...  
ACC weather*



The JWID '94 is an annual Joints Chiefs of Staff-sponsored demonstration. What the Headquarters Air Combat Command Operations Directorate of Weather (ACC/DOW) wanted to do was use weather data with the C4I systems with the Air Force Concentrator and JWID Internet protocol networks and Langley's Reach Back satellite communications (SATCOM) station. The timeliness of the data reception was

measured to show how weather data can effectively use common user circuits instead of dedicated circuits. Ultimately, this will reduce the amount of band width, or transmission capability, weather data requires.

"We need to continue to move forward in integrating WX (weather) into standard communication systems and integrating WX into C4I systems--Air Force, Army, and Joint Systems," said Col. Ronald Townsend, ACC/DOW. We made a lot of progress in this area through the use of ACC's REACHBACK communications capability and the work that's been accomplished under the Theater Battle

## Air Combat Command




### ACC Army Units


Providing weather support to U.S. fighting bases is one of ACC's mission the other is to U.S. Army units. The following is a list of Army installations covered by the command:

Fort Belvoir, Va.; Fort Benning, Ga.; Fort Bliss, Texas; Fort Bragg, N.C.; Fort Campbell, Ky.; Fort Carson, Colo.; Fort Devens, Mass.; Fort Drum, N.Y.; Fort Eustis, Va.; Fort Hood, Texas; Fort Huachuca, Ariz.; Fort Irwin, Calif.; Fort Knox, Ky.; Fort Lewis, Wash.; Fort McPherson, Ga.; Fort Polk, La.; Fort Riley, Kan.; Fort Ritchie, Md.; Fort Rucker, Ala.; Fort Sill, Okla.; Fort Stewart, Ga.; and Hunter Army Air Field, Ga.

Management initiatives. We have a lot of room to grow here to have a robust operational capability," Townsend added.


Since the reorganization of Air Weather Service in April 1991, the major command's weather directorates have made great progress in setting their own tempo and guidelines. To get the feel of what progress has been made, the following is from an interview with Colonel Townsend.

 *As a command, how do you feel the ACC WX structure has evolved since 1991?*

 The ACC WX structure has evolved quite effectively since 1991. Quite frankly, the transition has gone much better than I expected. During the past three years, we have moved from a stovepipe WX structure to a structure where weather is totally integrated into the mission of the command, the NAFs (Numbered Air Force), the wings, and ACC Army support organizations. This transition involved the total force — ACC active units and ACC-gained Air National Guard WX flights as well as Individual Mobility Augmentees.

 *Where has ACC WX gone since 1991?*

We have responded to the challenge of continuous change. We've worked hard to make ACC WX operations an effective, integral part of the ACC mission while keeping in step with AF WX as it evolved under AF reorganization. As everyone knows, at the headquarters level, we went from an AWS wing to a weather division under the ACC Director of Operations. At the unit level, we primarily moved from detachments under a WX squadron to WX flights under the Operations Support Squadrons and most recently flights under the Air Support Operations Squadrons on the Army side. We focused on the total force by integrating over 50 IMAs and 32 ANG WX flights into this structure. From a combat capability perspective, I believe we're better off today than we were in 1991 as a result of the restructure of weather under AF reorganization.

 *In the future, where does ACC WX need to grow and evolve?*


 We need to focus on some specific areas:


□ Training has to be at the top of our priorities. We need to ensure we have the

right training guidance and policy in place to help the field units implement effective training programs. We also have younger, less experienced officers and NCOs providing the leadership in our WX flights. We need to look at how we grow flight leaders, and we owe it to these leaders to provide them some training. This issue is one we're working now.

□ Evaluation of operational performance is another important area. We need to have some key metrics that will drive management action on improvement initiatives. I am very pleased with the progress we have made in ACC. We have some WX Quality Performance Measures that have given us a good start in this arena. But performance measurement is an area that will continue to evolve to meet the needs of both the ACC staff and the field units.

□ Finally, ACC needs to make better use of AWS' capabilities — from the headquarters to the centers. AWS initiatives such as regional technical assistance teams and first-in equipment acquisition will help us immensely. We get great response from the centers. But we may be able to do a better job of articulating our operational requirements to make the entire system more effective. How effectively we apply new technology will be in part a function of how well we work with AWS.

 *With all of the deployments ACC WX has gone on, what lessons have been learned? How has ACC handled the deployments?*

 In the past 12 months, ACC personnel have deployed well over 11,000 man-days. And that just counts TDY's (Temporary Duty) in excess of 30 days to support contingencies or exercises.

We learned joint weather doctrine




At Whiteman AFB, Mo., forecasters prepare forecasts the worldwide B-2 mission.

works and is an effective guide to operating in a JTF environment. We keep relearning there is no substitute for realistic training and reconfirmed a light, deployable system such as AFDIS on a laptop with connectivity to AFGWC, along with real-time WX satellite readout, gives us a tremendous first-in operational capability.


We've handled the deployments extremely well. Our concern is the same as expressed for other functional areas and most major weapons systems. The high operational tempo we are experiencing may be impacting WX operations. The impact seems to be primarily in the area of training.


Our deployment taskings have created challenges in accomplishing unit operational training. The evidence so far is pretty much empirical. But we are working now to get our arms around this issue so we can take action to maintain readiness.

 *Has the restructuring of ACC WX accomplished what it was set out to do?*

 Yes. On the Air Force side, giving

wing commanders ownership of their WX forces has improved mission effectiveness. On the Army side, we wanted the restructure to be transparent to Army commanders. So far, I believe we have succeeded.

 *What areas which were weaknesses in the past have now evolved into strengths?*

 Two areas come to mind — weather communications and C4I weather capability. Relying on dedicated WX communication circuits and having little WX capability resident in C4I systems have been weaknesses. We have demonstrated the ability to move WX data over standard comm systems using standard comm protocol. This capability greatly increases our flexibility and ability to get WX where we need it, when we need it. Acquiring the capability to tie AWDS and future combat weather systems (AF and Army) to customer C4I systems is a strength. This is the only way to keep pace with the warfighter's evolving operational needs on the battlefield.



# AFGWC

## The Heart Of Air Force WX

### MISSION

**Builds the world's most comprehensive weather database and applies it in real-time to satisfy the worldwide operational requirements of Air Force combat forces, Army and joint combat forces, the National Command Authorities, Department of Defense, and multibillion-dollar sensitive National Programs controlled by the Secretary of the Air Force**

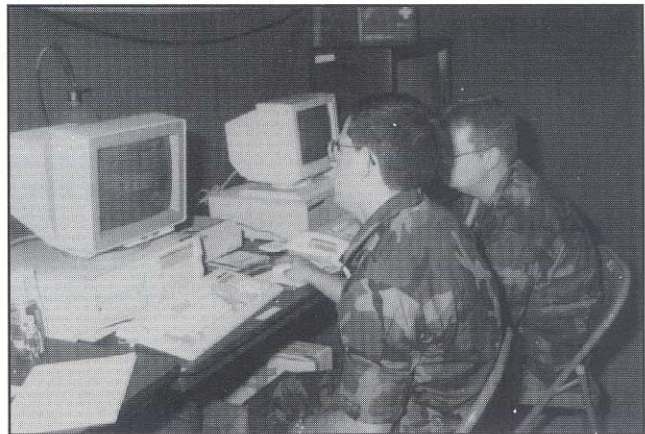
By Col. Joseph Dushan  
*Commander*

AFGWC — a place many of you say you'd hate to be assigned. All kidding aside, AFGWC is the heart of the Air Force Weather. In fact, we're directly involved in every single military operation, contingency mission, and humanitarian relief effort conducted by the United States.

Global is a dynamic and exciting outfit to be part of. With more than 750 people and a multi-mainframe and minicomputer complex, AFGWC is the largest military meteorological computer facility in the world.

Here, we have a multitude of customers from several different governmental agencies. We produce more than 30,000 weather support products each day: including turbulence and icing forecasts for military flyers around the globe.

Our site-specific point weather warnings help protect military installations at more than 300 locations across the United States. Using high-resolution, advanced sensor imagery from weather satellites, we determine the position of typhoons and hurricanes anywhere on earth for the Joint Typhoon Warning Center on Guam and the National Hurricane Center in Miami. We also provide forecasts to



Participants in the first Combat Thunder Exercise at the Air Force Global Weather Central test the Air Force Dial-In System.



the civilian community as a backup to the National Meteorological Center and the National Severe Storms Forecast Center.

How do we do it? We receive some 140,000 weather observations each day. Most are from the earth's surface, but many come from aircraft and instrumented weather balloons. By far the greatest amount of data we receive comes from weather satellites. In fact, AFGWC is the Department of Defense's center of expertise for meteorological satellite data retrieval, processing, and applications. All of this data is funneled into AFGWC's computer systems. The raw data is processed and placed into our central meteorological data base. We have many sophisticated, scientific programs that draw from this database the basic information needed to create our forecast products.

*continued on page 28*





# USAFETAC

## The Air Force's Climate Center

### MISSION

**Collect, save, and apply worldwide weather data to generate environmental products in support of worldwide operations of the Air Force, Army, and other DoD and US Government agencies.**

By Lt. Col. Jud Stailey  
*Commander*

The United States Air Force Environmental Technical Applications Center—what a mouthful! I spend a lot of time explaining to people who ask me “What’s an ETAC?” that we are the climate center for the Air Force. Our long name comes from the fact that we do some things that are not really climatology. We’re now working with Headquarters Air Weather Service to change our name to something that better describes our focus on climate services, but that’s a subject for a future article. What I would like to do in this inaugural edition of the new-format *Observer* is explain to our customers what we do to help the Air Force better prepare for and conduct wartime operations and more effectively apply its limited resources in peacetime.

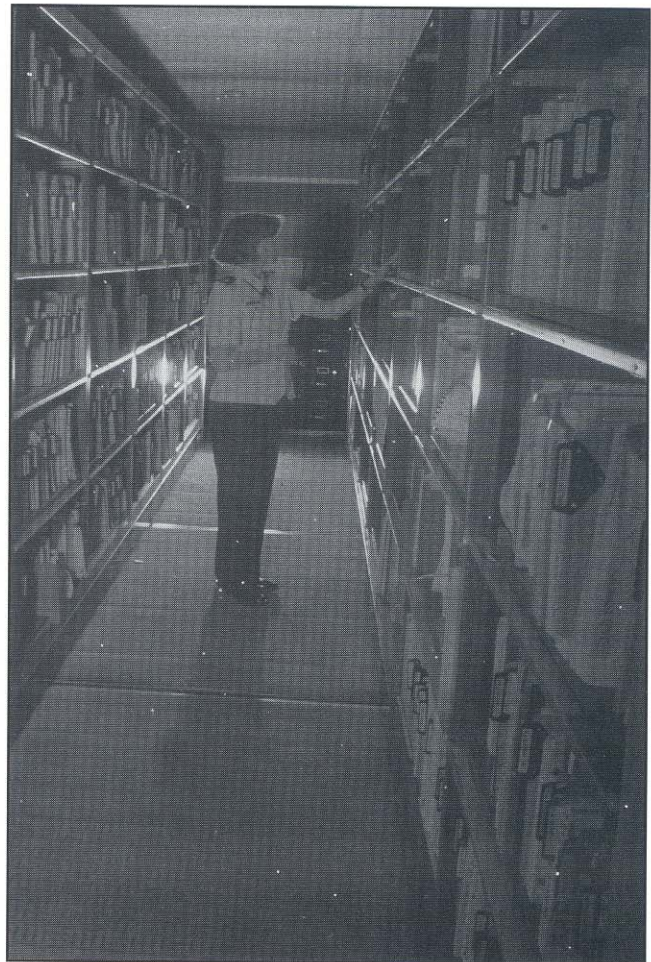


We have several major categories of products, including Data Extracts, Point Analyses, Descriptive Climatologies, Microcomputer Programs, Climatological Applications, and Library Support.

The USAFETAC provides other unique services which do not fall into the previous categories but are very important to weather troops at bases worldwide.

*USAFETAC Dial-In:* provides access to a suite of standard computer applications which can be run on our large computer from a small computer in the field. The applications produce summaries of surface and upper air data.

*Terminal Forecast Verification:* ETAC verifies weather forecasts issued by Air Force weather stations and provides metrics on the accuracy of forecasts to MAJCOMs every quarter. Metrics for individual stations are available to those stations monthly via the Dial-In.



## USAFETAC Available Services

**Data Extracts.** If you want to know what the weather was at some location and time in the past, or if you need data for a period of time for analysis, we can provide it. Normally, data extracts come in standard formats and are provided by our Operation Location A in Asheville, NC. For information contact Mr Kotz (DSN 266-3100, Comm 704-271-4299).

**Point Analyses.** Similar to data extracts point analyses tell the user what the weather was at a given location and time in the past. Derived from several types of data they are presented as a vertical profile of the atmosphere from the surface to about 200,000 feet. The profile includes temperature, humidity, pressure, wind, and other data, as well as a surface weather observation and cloud depiction for the area around the point. For information contact Mr Surmeier (DSN 576-3543, Comm 618-256-3543).

**Descriptive Climatologies.** A combination of weather maps, tables of data, and other charts and graphs accompanied by text which describes normal and variabilities in weather conditions. Descriptive climatologies are written for use by operational planners or as an aid to forecasters. We write them for single points, small areas, or regions. We are about half way through a massive project to write regional climatologies on most of the world's land masses. For information contact Mr Walters (DSN 576-3465, Comm 618-256-3465).

**Standard Summaries.** Climatological summaries of weather data at weather stations for use in planning and as a forecasting aid. Includes summaries of surface observations (ceilings and visibilities, pressure, temperature, rain, snow fog, etc), crosswind summaries, heating curves showing daily temperature change, and special cloud climatologies. By next fall we will offer summaries of upper air stations. For information contact Mr Kotz (DSN 266-3100, Comm 704-271-4299).

**MicroComputer Programs.** We've compressed some important databases so that they will fit on small computer disks and written user-friendly utilities to extract and display the data. We're now writing all applications for the Windows environment and are in the process of converting all our older DOS applications to Windows. See the box on page 28 for a list of some of our more popular programs. For information contact Capt Stone (DSN 576-3743, Comm 618-256-3743).

**Climatological Applications.** A broad category of support which could best be called 'answering unique questions.' If you're planning something in the future which could be impacted by weather, we can help quantify and provide information to minimize the risk. Examples include building and operating new weapon systems, preparing for exercises, design and construction of new facilities, etc. For information contact Mr Glauber (DSN 576-3158, Comm 618-256-3158).

**Library Support.** Incorporated into ETAC is the AWS Technical Library, one of the largest meteorological libraries in the world. The library can provide technical documents, copies of journal articles, bibliographies on particular subjects, and long-distance loan of books. The library also distributes small computer software. For information contact Mr McCollom (DSN 576-5023, Comm 618-256-5023).

## ETAC's Top Five Small Computer Programs:

**E-O Climo:** Climatology of transmissivity and weather elements affecting employment of precision guided munitions. Covers 5800 locations worldwide. Windows format—available soon on CD-ROM.

**UA Climo:** Mean wind, temperature, D Value, and wind factors along user-specified routes. Probability of contrail formation, plots of mean winds and temperatures. Windows format.

**MODCV:** Provides 24 hour climatological "forecast" for ceiling and visibility for your base given current conditions and wind direction. For you weather types, this is wind stratified conditional climatology on disk. Windows format.

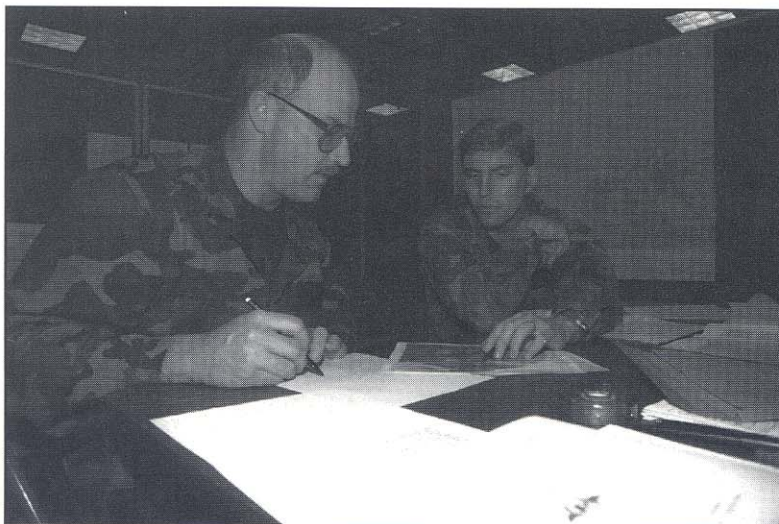
**MODCURVES:** Mean temperature, humidity, pressure, altimeter setting curves for your base. Windows format.

**Nitelite:** Graphical presentation of light data for given date and location. Provided sunrise, sunset, twilight, moonrise, moonset, percent illumination. Being upgraded to add moon position and lumens.



## How to Contact USAFETAC:

For information or to request service contact USAFETAC/DOO  
Phone DSN 576-4024, Comm 618-256-4024  
Fax DSN 576-3772, \Comm 618-256-4024  
E-mail [etacdoo@thunder.safb.af.mil](mailto:etacdoo@thunder.safb.af.mil)  
For library services contact USAFETAC/DOL  
Phone: DSN 576-4024, Comm 618-256-4024  
Fax: DSN 576-3772, Comm 618-265-4024  
E-mail: [awstl@etacrs1.safb.af.mil](mailto:awstl@etacrs1.safb.af.mil)



TSgt. William M. Rhodes

## Forecast Challenge '95

If you think you're the hottest forecaster around, you'd better convince your major command to send you to Forecast Challenge '95, March 6-10, at Hurlburt Field, Fla.

The competition tests forecasters from each MAJCOM against real-world scenarios.

The top three in four categories receive recognition. AWS' point of contact for this year's competition is 1st Lt. Bryan E. Adams at AWS/XOOM. For more information contact Adams at 576-4110, ext. 207; electronic mail address:

ADAMS@HQAWS.SAFB.AF.MIL

## DID YOU KNOW

### GUARD POSITIONS OPEN

The 159th Weather Flight, Florida Air National Guard, has immediate openings for weather observers (1W051), forecasters (1W071A), and weather officers (15W3).

The 159th WF is located near Jacksonville, Fla. For more information about these positions or the unit, call MSgt. Jon Carillon at DSN 960-3449 or (904) 533-3449, or write to 159 WF Rte. 1, Box 465, Camp Blanding Training Site, Starke, Fla. 32091-9703.

### AWDS SOFTWARE TEST

Headquarters AWS/SYD will conduct a follow-on operational test and evaluation of the next scheduled Automated Weather Distribution System software release, version 3.1.0, through January. The test, conducted at three base weather stations and one TAWDS unit, will determine the operational effectiveness and suitability of release 3.1.0. HQ AWS will use the results to support a decision to field 3.1.0 in late February.

*continued on next page*

## Farewell to a true WX warrior

Col. William S. Weaving, Air Weather Service Director of Technology, Plans and Programs retired Dec. 19, 1994, culminating a distinguished career which defines a true "Weather Warrior."



**Weaving**

Weaving began his career in 1968 as a weather forecaster at Royal AFB, Upper Heyford, England. He followed that with assignments at RAF Croughton, England; Webb AFB, Texas; Scott AFB, Ill.; Pease AFB, N.H.; Offutt AFB, Neb.; and Fort McPherson, Ga.

In September 1990, the colonel deployed to Saudi Arabia as the U.S. Army Forces Central Command's Staff Weather Officer. One of the highlights of his career was serving as the Deputy Staff Weather Officer for CENTCOM's commander, Army Gen. H. Norman Schwarzkopf throughout the preparation and execution phases of Operation DESERT STORM.

"Serving on General Schwarzkopf's staff was an awesome experience. I hated to go back to my quarters at night because I might miss some exciting event," the colonel said.

"The general paid us (weather forces) several compliments, but one of the best was when we tried to pack up the Defense Meteorological Satellite van early, after the war was over.

He asked questions to try and understand why we wanted to do it and sympathized, but stated he had grown accustomed to seeing the top quality images we displayed and told us we could pack up the van and take it home after he left. We made him a believer!"

In 1992, his combat experience was essential as the 1st Weather Group's commander and in 1993 when he returned to AWS.

It is with fondness that we bid him farewell. *Good Luck, Good Weather.*

## **AWS/XO**

continued from page 14

appears in the directorate title, we are actively involved in operations.

Through our Operations and Standardization Division (XOO) we manage the current operations within Air Force Global Weather Central (AFGWC) and United States Air Force Environmental Technical Applications Center (USAFETAC) to ensure your overall AFW centralized service requirements are met. We play a pivotal role in the launch coordination process for Defense Meteorological Satellite Program (DMSP) satellites by consolidating inputs, coordinating launch strategy and orbital parameters, and addressing operational issues.

Our Technology Plans Division (XOX) compiles, analyzes, and provides assessments of technical health and operational effectiveness. They conduct Mission Area Analyses and Mission Needs Assessments, develop the AFW Functional Area Plan, and ensure technology infusion in new acquisition planning.

They direct the AWS marketing program. XOX also coordinates research and development activities with national labs.

Our Technology Training Division (XOT) provides direct assistance to AFW units through the Meteorological Enhancement Team visit program, regional field support, and technology transition publications. Additionally, XOT operates the Development and Applications Lab to conduct case studies and develop short-term products and services for resolving AFW-identified shortfalls and requirements.

The Special Projects Division (XOS) serves as our focal point to integrate national program service requirements. XOS ensures our centralized service meets sensitive-compartmented information (SCI) and special access required (SAR) programs' needs.

In summary, the Technology, Plans, and Programs Directorate works to keep you trained and equipped with the right mix of tools and equipment to meet your customers current and future needs.

sensors and weather satellite systems, and base weather station systems. The Communication Systems Division (SYK) is our interface with AFMC's 38 Engineering and Installation Wing (EIW).

The 38 EIW was previously aligned under AFC4A as the Communications Systems Center (CSC) and is responsible for standard system

## **Oh, By the Way, continued**

### **NEW CD-ROMS**

The United States Air Force Environmental Technical Applications Center (USAFETAC) will soon distribute copies of the Global Historical Fields (GHF) CD-ROM (Version 1.0, August 1994), produced jointly by the Navy and NCDC. The CD's will contain sea level pressure analyses dating from 1899. Upper air temperature and pressure analyses dating from as early as 1946 is also included. This new CD should be an excellent reference or training tool for staff meteorologists, analysts, and forecasters.

### **AFGWC, from page 24**

We send these products to our customers over many different communications systems. For example, the Automated Weather Distribution System (AWDS), and the Automated Digital Facsimile System (AFDS), and the AFGWC Dial-In Subsystem (AFDIS).

In face, AFDIS is a very important part of the "first-in" weather services

AFGWC provides to theater commanders, allowing them to "reach back and pull forward" the weather support they need to accomplish their mission.

AFGWC has established itself as the heart of the system that gives our forces the combat edge — 24-hours-a-day, seven-days-a-week, anywhere in the world.

## **AWS/SY**

continued from page 15

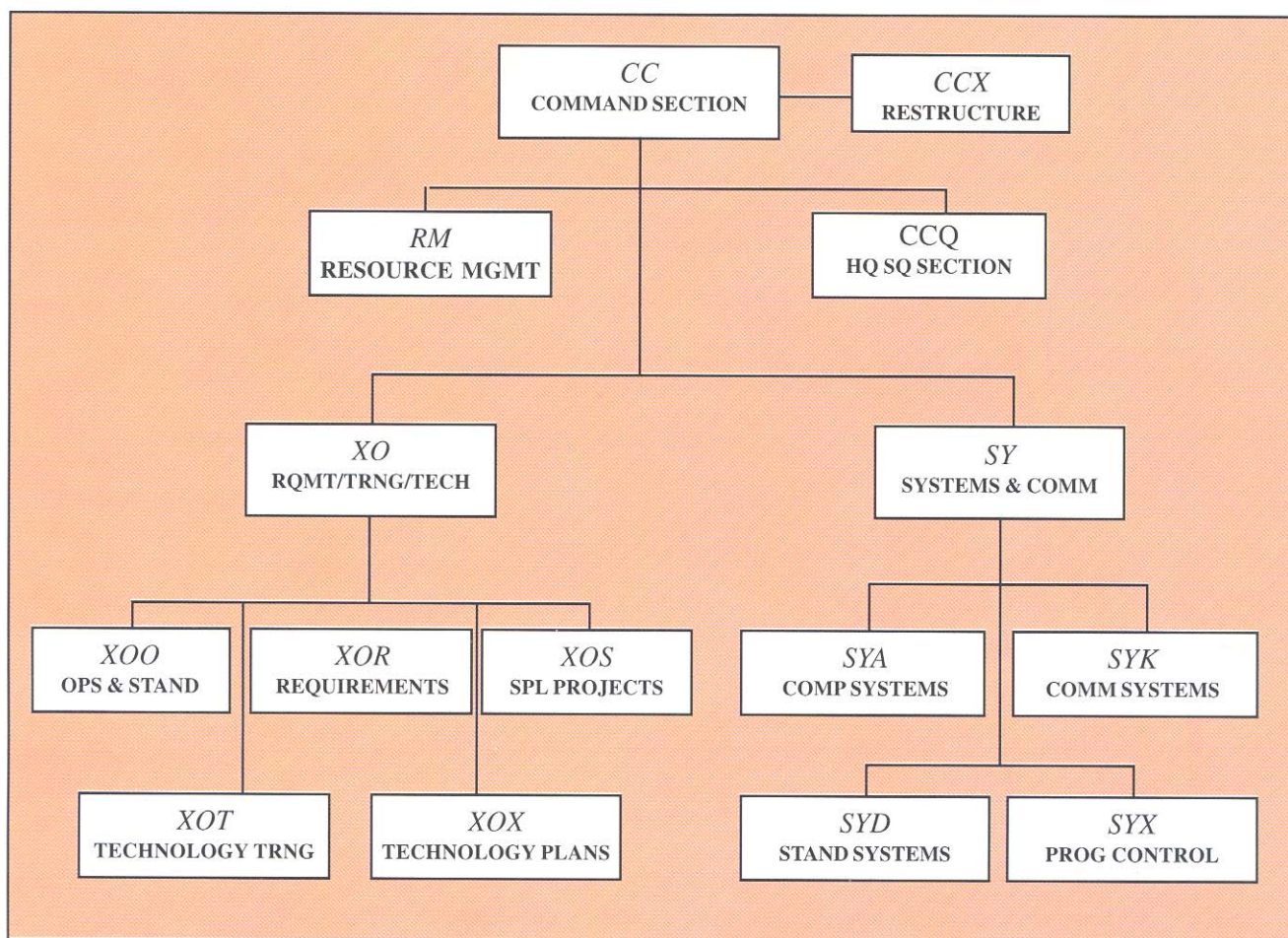
collect, process, analyze, and produce products that all AFW operators need to do their jobs. The Standard Systems Division (SYD) is the focal point for all AFW combat weather systems, ground-based space environmental

management of such things as the Automated Weather Network (AWN), DIGS, MEDS, METSAT Loopers, ADFS, leased long-line weather communications, etc. The Program Control Division (SYX) is a new division within HQ AWS providing acquisition, logistics, equipment modification, supply, testing, and

configuration management expertise to the various AWS weather program offices.

In a nutshell, the job of the new Systems and Communications Directorate is to acquire and sustain the systems and tools (hardware and software) you, your field units, and our AF centers need to conduct day-to-day weather operations.

## Command Structure



requirements and operational concepts into a working solution for all Air Force weather units. The directorate is divided into five divisions which are currently working on a range of items, including:

- The 50th Weather Squadron Forecast Systems Replacement (formerly the Air Force Space Forecast Center) — a project to upgrade new computer systems allowing the squadron to process new solar models;

- The Air Force Weather Architecture Study — a project to determine the operational environmental requirements and

capabilities needed by AFW to support Air Force and Army missions from 1995 into the year 2015;

- The Interim Weather Officers' Initial Skills Course — developed by the AWS/XO directorate, this course is designed to reduce the initial training time for new officer's arriving at base weather stations.

SY is comprised of weather, computer, acquisition officers and enlisted members and is the Air Force's lead command for Air Force Weather systems.

A few of the programs the directorate is involved in are: Satellite

Data Handling System Upgrade; Advanced Computer Flight Plans; Cloud Depiction and Forecast System; Electro-Optical Tactical Decision Aid; Combat Air Forces Weather Software Package; Automated Weather Distribution System Pre-Planned Product Improvement.

Air Force Weather's most important role is to provide the warfighter tailored weather information that enhances combat effectiveness. The role of AWS is to provide those forces with the best means to perform that mission. Weather truly is a force multiplier and "the essence of successful air operations."

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9  
9  
5  
*Weather  
Almanac*

In April 1991, the Air Weather Service was restructured into what it is today. Under AWS' umbrella, the former wings and squadron had a single source for information. This section of the new Observer is our attempt at putting that source of information back into the hands of the people who need it most: the users and practioners of weather.

The following pages list the complete names, address, phone numbers and directorates of each FOA and MAJCOM affected by Air Force weather. The information was compiled from these sources and is current as of December 1994.

Directorate of Weather

Deputy Chief of Staff for Plans and Operations, the Pentagon

1490 Air Force Pentagon DSN: 224-0055  
Washington DC 20330-1490

Headquarters Air Weather Service - Scott AFB, Ill.

102 W. Losey Street Room 105 DSN: 576-3265  
Scott AFB, IL 62225-5206

Air Force Global Weather Central - Offutt AFB, Neb.

105 Peacekeeper Drive, Suite 2N3 DSN: 271-5749  
Offutt AFB, NE 68113-4039

USAF Environmental Technical Applications Center - Scott AFB, Ill.

859 Buchanan Street DSN: 576-5066  
Scott AFB, IL 62225-5116

Air Combat Command - Langley AFB, Va.

ACC/DOW DSN: 574-8452/8453  
205 Dodd Blvd., Suite 101  
Langley AFB, VA 23655-2789

Air Education and Training Command - Randolph AFB, Texas

AETC/XOSW DSN: 487-3700/4016  
1 F St., Ste. 2  
Randolph AFB, Texas 78150-4325

Air Force Special Operations Command - Hurlburt Field, Fla.

AFSOC/DOW DSN 579-2145  
100 Bartley Street  
Hurlburt Field, Fla. 32544-5000

Air Mobility Command - Scott AFB, Ill.

AMC/XOW DSN: 576-4337  
402 Scott Drive, Room 132  
Scott AFB, IL 62225-5363

Air Force Materiel Command - Wright-Patterson AFB, Ohio

AFMC/DOW DSN: 787-5364  
4225 Logistics Ave., Ste. 2,  
Wright-Patterson AFB, Ohio 45433-5714

Air Force Space Command - Peterson AFB, Colo.

HQ AFSPC/DOGW DSN: 834-3090  
150 Vandenberg Street, Suite 1105  
Peterson AFB, CO 80914-4630

U.S. Air Forces in Europe - Ramstein AB, Germany

HQ USAFE/XOOW DSN: 480-7001/7050  
Unit 3050, Box 15  
APO AE 09094-5015

Pacific Air Forces - Hickam AFB, Hawaii

25 E Street, Suite 232 DSN: 449-6174  
Hickam AFB, HI 96853-5426

**ALTUS AFB, Okla.**  
97 OSS/DOW,  
603 East Ave., Ste. 1, Altus AFB, Okla. 73523-5033  
DSN 866-6539  
Commander: Capt. John Shepley  
Station Chief: MSgt. Jimmy Long

**ANDREWS AFB, Md.**  
89 OSS/OSW  
1240 Mennhon Dr., Andrews AFB, Md 20331-6511  
  
DSN 858-2629/4761  
Commander: Maj. Bill Greg  
Station Chief: MSgt. Dale Ferraro

**BARKSDALE AFB, La. (WSU)**  
608 COS/DOW  
2435 Davis Ave. E., Bldg. 5546, Barksdale AFB, La  
71111  
DSN 781-2104  
Commander: Lt. Col. Randolph Garvin  
Station Chief: N/A

**BARKSDALE AFB (BWS)**  
2 OSS/OSW  
105 Lindbergh Rd. E., Ste. 105 71110-2163  
DSN - 781-3136/3411  
Commander: 1st Lt. Daniel Farris  
Station Chief: SMSgt. William Dorsey

**BEALE AFB, Calif.**  
9 OSS/OSW  
7900 Arnold Ave., Ste. 100, Beale AFB, Calif. 95903  
DSN 368-9129  
Commander: Maj. Tom Coe  
Station Chief: MSgt. Joe Fabian

**CANNON AFB, N.M**  
27 OSS/OSW  
110 E. Sexton Ave., Ste. 1040, Cannon AFB, N.M.  
88103-5322  
DSN 681-2265  
Commander: Capt. Lester N. Roberts  
Station Chief: TSgt. Peter Boyle

**CASTLE AFB, Calif.**  
93 OSS/OSW  
Bldg. 1340, Castle AFB, Calif. 95340  
DSN 347-2870  
Commander: 1st Lt. Todd McNamara  
Station Chief: SSgt. Timothy Bondy

**CHARLESTON AFB, S.C.**  
437 OSS/OSW  
221 N. Bates St., Rm. 130, Charleston AFB, S.C.  
29404  
DSN 673-3009  
Commander: Capt. Michael D. Bramhall  
Station Chief: MSgt. Paul Leidig

**COLUMBUS AFB, Miss.**  
14 OSS/DOW  
595 First St., Ste. 3, Columbus AFB, Miss. 39710-  
4201  
DSN 742-2973/2971  
Commander: Capt. Thomas L. Wallace  
Station Chief: MSgt. Jeremy L. Samuel

**DAVIS-MONTHAN AFB, Ariz.**  
55 OSS/OSW  
4360 S. Phoenix St., Davis-Monthan AFB, Ariz.  
85730-4638  
DSN 361-3536  
Commander: Capt. Raymond Tentenny  
Station Chief: MSgt. Ricky Murphy

**DOVER AFB, Del.**  
436 OSS/OSW  
501 Eagle Way, STE-B, Dover AFB, Del. 19902-7504  
DSN 445-4174  
Flight Chief: SMSgt. Kerry Jones  
Station Chief: MSgt. Kevin McGarrigle

**DYESS AFB, Texas**  
7 OSS/OSW  
674 Alert Ave., Dyess AFB, Texas 79607-1774  
DSN 461-4364/2524  
Commander: Capt. Alan Robinson  
Station Chief: MSgt. David Hiatt

**EDWARDS AFB, Calif.**  
412 OSS/OSW  
85 S. Flightline Rd., Edwards AFB, Calif. 93524-6460  
DSN 527-4472  
Commander: Maj. Frederick Wirsing  
Station Chief: MSgt. Eric Kowalski

**EGLIN AFB, Fla.**  
46 WF  
601 W. Choctawhatchee Ave. Ste. 60, Eglin AFB, Fla.  
32542-5719  
DSN 872-5323/5449  
Flight Commander: Lt. Col. Mike W. Kowa  
Station Chief: MSgt. Deborah J. Williams-Mitchell

**ELLSWORTH AFB, S.D.**  
28 OSS/OSW  
1820 Vandenberg Court, Ste. 3, Ellsworth AFB, S.D.  
57706-4729  
DSN 675-1050/1048/1047  
Commander: Lt. Col. Stanley O. Swanson  
Station Chief: SMSgt. James Boyle

**FAIRCHILD AFB, Wash.**  
92 OSS/OSW  
901 W. Boston Ave., Ste. 101, Fairchild AFB, Wash.  
99011-8529  
DSN 657-5224  
Commander: Capt. Robert Rizza  
Station Chief: MSgt. Gerald Claycomb

**FALCON AFB, Colo.**  
50 Weather Squadron (Formerly Air Force Space  
Forecast Center)  
715 Shuttle Ave., Box 60, Falcon AFB, Colo. 80912-  
7160  
DSN 560-7126/2404  
Commander: Lt. Col. Norman Buss

**F.E. WARREN AFB, Wyo.**  
90 OSS/DOW  
7505 Saber Rd., F.E. Warren AFB, Wyo. 82005-2684  
DSN 481-3229/3431  
Commander: Capt. Mary Walker-Irvin  
Station Chief: MSgt. Patrick Aldrich

**FORT BELVOIR, Va. (BWS)**  
OL-A, 18 WS  
6970 Britten Blvd., Ste. 101, Fort Belvoir AIN, Va.  
22060-5132  
DSN 656-7543/7541  
Commander: SMSgt. Matthew Ulrich  
Station Chief: MSgt. Walter Smith Jr.

**FORT BENNING, Ga.**  
17 ASOS, C Flt.  
Fort Benning AIN, Ga. 31905-5000  
DSN 835-7313  
Commander: Capt. Jeffrey Peters  
Station Chief: MSgt. James Reid

**FORT BLISS, Texas**  
12 ASOS/ASW  
Biggs AAF, El Paso, Texas 79916  
DSN 978-8702  
Commander: Capt. Bryan Mackey  
Station Chief: TSgt. Jeff Cooke

**FORT BRAGG, N.C. (Det. 3)**  
18 WS  
Bldg. AT3551, Prager St., Fort Bragg, N.C. 28307  
DSN 236-3914  
Commander: Lt. Col. Michael J. Stanley  
Station Chief: MSgt. Brenda J. Paprocki

**FORT CAMPBELL, Ky.**  
19 ASOS  
Fort Campbell, Ky. 42223  
DSN 635-2519/2024  
Commander: Maj. Michael Davenport  
Station Chief: MSgt. Robert Fuller

**FORT CARSON, Colo.**  
13 ASOS  
Fort Carson AIN, Colo. 80913  
DSN 691-3651/3620  
Commander: Maj. Steve Wilderotter  
Station Chief: MSgt. Alfred Green

**FORT DEVENS, Mass.**  
4 WF, 18 WS  
Bldg. T2205, Givry St., Fort Devens, Mass. 01433  
DSN 256-2614/3113  
Flight Chief: TSgt. Andrew J. Hopwood

**FORT DRUM, N.Y.**  
20 ASOSE Flt., Fort Drum, N.Y.  
DSN 341-6069  
Commander: Capt. Jon E. Lundburg  
Station Chief: MSgt. David Driskoll

**FORT EUSTIS, Va.**  
OL-B, 18 WS  
Bldg. 2408, Condon Road, Felker AAF, Fort Eustis, Va.  
23604  
DSN 927-5300  
Commander: SMSgt. Floyd Parton  
Station Chief: MSgt. Larry Smith

**FORT HOOD, Texas (BWS)**  
3 WS  
Bldg. 90049, Clarke Road, Fort Hood, Texas 76544-  
5076  
DSN 738-9166/9819

Commander: Lt. Col. Lloyd L. Anderson Jr.  
Station Chief: SMSgt. Lenny Wells

**FORT HOOD, Texas (3 ASOG)**  
3 ASOG  
1001 761st Tank Battalion Ave., Fort Hood, 76544-  
5056  
DSN 737-7736  
Commander: Lt. Col. Patrick Stone  
Weather OIC: Lt. Col. William Burnette

**FORT HUACHUCA, Ariz.**  
ATZS-CDI-W  
U.S Army Intelligence Center, Fort Huachuca, Ariz.  
85613-6000  
DSN 879-6472/2865  
Commander: Maj. George S. Howard  
NCOIC: MSgt. John Carroll

**FORT IRWIN, Calif.**  
Det. 1, 549 CTS/WX  
661 7 St., Fort Irwin, Calif. 92310-5043  
DSN 470-4328  
Commander: Capt. John F. Sliney

**FORT KNOX, Ky.**  
16 ASOS  
5214 Pilot St., Fort Knox, Ky. 40121  
DSN 464-5653  
Commander: Maj. Thomas J. North  
Station Chief: MSgt. Christopher Andrejczik

**FORT LEWIS, (BWS)**  
1 WS  
Bldg. 3082 Airport Way, Fort Lewis AIN, Wash.  
98433-5000  
DSN 357-5967  
Commander: Maj. Kenneth J. DeMoyses  
Superintendent: MSgt. David W. Hannum

**FORT McPHERSON, Ga.**  
2 WF  
Bldg. 130, Anderson Way, Fort McPherson, Ga.  
30330-5000  
DSN 572-4195  
Commander: Col. (S) Douglas C. Pearson

**FORT POLK, La.**  
21 ASOS/ASW  
Bldg. 4226, Polk Army Air Field, Fort Polk, La. 71459-  
5000  
DSN 863-2015  
Commander: Capt. Mark D. Hertrick  
Station Chief: MSgt. James W. Buchanan

**FORT RILEY, Kan.**  
10 ASOS/ASW  
743 Ray Pl. Marshall Army Air Field, Fort Riley, Kan.  
66442  
DSN 856-3327  
Commander: Maj. Sharon Buckley  
Station Chief: MSgt. Tom Simon

**FORT RITCHIE, Md.**  
OL-A, AFCOS  
Fort Ritchie, Md. 21719-5010  
DSN 988-2247  
Commander: Capt. David W. Sjostedt



Station Chief: MSgt. Joseph A. Schroff, Jr.

**FORT RUCKER, Ala.**

6 WF, 18 WS  
Bldg. 30101 Wallace St., Fort Rucker, Ala. 36362  
DSN 558-8397/8385  
Commander: Capt. Mark D. Zettlemoyer  
Station Chief: MSgt. Jeffrey A. Fries

**FORT SILL, Okla.**

OL-A, 3 WS  
Bldg. 4907, Fort Sill, Okla. 73503  
DSN 639-3200  
Commander: SMSgt. Stephen L. Rosemier  
Station Chief: MSgt. Mark R. Sanders

**FORT STEWART, Ga.**

15 ASOS/ASW  
Bldg. 7755, Wright AAF, Fort Stewart, Ga. 31314-3372  
DSN 870-4090  
Commander: Lt. Col. Earl E. Whitt Jr.  
Station Chief: MSgt. Robert J. Currin

**GRAND FORKS AFB, N.D.**

319 OSS/OSW  
695 Steen Ave., Ste. 150, Grand Forks AFB, N.D.  
58205-6244  
DSN 362-4371  
Commander: Capt. Charles Huhtala  
Station Chief: MSgt. Patrick Ashton

**GRIFFIS AFB, N.Y.**

416 OSS/OSW  
592 Hanger Rd., Ste. 121, Griffis AFB, N.Y. 13441  
DSN 587-2410/3916  
Commander: Capt. Terry Given  
Station Chief: MSgt. Ed Lambino

**HANSCOM AFB, Mass.**

Det. 2, 50 WS  
305 Sagamore St., Hamilton, Mass. 01982-1218  
DSN 478-4600  
Detachment Chief: MSgt. Dennis A. Rucker  
Station Chief: TSgt. Matthew Mead

**HILL AFB, Utah**

75 OSS/OSW  
5970 S. Gate Dr., Hill AFB, Utah 84056-5232  
DSN 458-3519/3629  
Commander: Capt. Kurt R. Lutz  
Station Chief: MSgt. Dan Phillips

**HOLLOMAN AFB, N.M. (BWS)**

49 OSS/OSW  
744 Delaware Ave., Holloman AFB, N.M. 88330-8014  
DSN 867-7324  
Commander: Capt. Richard Hartman  
Station Chief: SMSgt. Richard Fiske

**HOLLOMAN AFB, N.M. (SOLAR)**

Det. 4, 50 WS/CC  
1441 Observatory Road, Bldg 912, Holloman AFB,  
N.M. 88330-7933  
DSN 8867-3461/3462  
Commander: Maj. Michael J. Volek  
Station Chief: TSgt. Paul A. Pinkerton

**HUNTER AAF, Ga.**

15 ASOS/ASW  
Hunter Army Air Field, Ga. 31409  
DSN 971-5432  
Commander: Maj. Carl S. Funk  
Station Chief: MSgt. Robert J. Currin

**HURLBURT FIELD, Fla. (BWS)**

16 OSS/OSW  
150 Bennett Ave., Hurlburt Field, Fla. 32544  
DSN 579-7348  
Commander: Capt. Scott Van Blarcum  
Station Chief: MSgt. Lawrence Alexander

**HURLBURT FIELD, Fla.  
(Combat Weather Facility)**

Det. 4, HQ AWS  
595 Independence Road, Hurlburt Field, Fla. 32544-5618  
DSN 579-5702  
Commander: Maj. Dennis Kerrigan

**KEESLER AFB, Miss. (TTG)**

334 TRS/TTMV  
700 H St., Bldg. 4432, Keesler AFB, Miss. 39534-2499  
DSN 597-0361/0362  
Commander: Maj. Thomas R. Strange  
Station Chief: SMSgt. Antonio Ramirez

**KEESLER AFB, Miss. (BWS)**

45 AS/OSFWX  
817 H. Street, Suite 102, Keesler AFB, Miss. 39534-2452  
DSN 597-3938/3305  
Commander: Capt. Eugene Layeski  
Station Chief: MSgt. Chester Richey

**KELLY AFB, Texas**

76 OSS/OSW  
303 S. Luke Dr., Ste. 1, Kelly AFB, Texas 78241  
DSN 945-5400  
Commander: Lt. Col. David L. Naquin  
Station Chief: MSgt. Greg Myles

**KIRTLAND AFB, N.M.**

(Air Force Operational Test and Evaluation Center)  
AFOTEC/DOW  
8500 Gibson Blvd. SE, Kirtland AFB, N.M. 87117-5558  
DSN 246-5305/5318

**KIRTLAND AFB, N.M. (BWS)**

377 ABW/OTW  
3400 Clark Ave., Kirtland AFB, N.M. 87117-5776  
DSN 246-9722  
Flight Chief: SMSgt. Bruce Swartz  
Station Chief: MSgt. Martin Sprankle

**K.I. SAWYER AFB, Mich.**

410 MSS/OSW  
F Ave., Bldg. 410, Ste. 7, K.I. Sawyer AFB, Mich.  
49843  
DSN: 472-2700  
Flight Chief/Station Chief: MSgt. Nathaniel Thomas

**LANGLEY AFB, Va. (BWS)**

1 OSS/OSW

190 E. Flightline Rd. , Langley AFB, Va. 23665  
DSN 574-5909  
Commander: Capt. Pat Dowling  
Station Chief: MSgt. Paul Schirle

**LANGLEY AFB, Va. (WSU)**  
ACC/WSU  
205 Dodd Ave., Ste. 203A, Langley AFB, Va. 23665-2789  
DSN: 574-2007/2008  
Commander: Capt. Dawn Molzen

**LAUGHLIN AFB, Texas**  
47 OSS/DOW  
541 1st St., Ste. 2, Laughlin AFB, Texas, 78843-5210  
DSN 732-5973/5870  
Commander: 1st Lt. Mark LaJoie  
Station Chief: MSgt. Robert DuFrane

**LITTLE ROCK AFB, Ark.**  
314 OSS/OSW  
2740 First St., Bldg. 120, Little Rock AFB, Ark., 72099-5060  
DSN 731-6035/6939  
Commander: Maj. Lorraine Pope  
Station Chief: MSgt. Phil Thompson

**LUKE AFB, Ariz.**  
56 OSS/OSW  
14185 W. Falcon St., Luke AFB, Ariz. 85309-1629  
DSN 896-6837  
Commander: Capt. Stacey Nardi  
Station Chief: SMSgt. Andrew Miller

**MACDILL AFB, Fla.**  
6 OSS/OSW  
7709 Hanger Loop, MacDill AFB, Fla. 33621-5205  
DSN 968-2035  
Flight Chief: MSgt. Dennis E. Napier

**MALMSTROM AFB, Mont.**  
341 OSS/DOW  
7224 Flighline Dr., Malmstrom AFB, Mont., 59402-7526  
DSN 632-3154/2710  
Commander: Capt. (Maj. Sel.) David M. Mucia  
Station Chief: MSgt. Scott D. Weber

**MARCH AFB, Calif.**  
722 OSS/OSW  
2645 Graebner St., Ste. 3, March AFB, Calif. 92518-2264  
DSN 947-3088/3037  
Commander: Capt. (S) Bronco Ormuz  
Station Chief: MSgt. Kathryn Miller

**MAXWELL AFB, Ala.**  
42 OS/OSFW  
120 W. Ash St., Bldg 844, Maxwell AFB, Ala. 36112-6608  
DSN 493-3867/3868  
Commander: Capt. John De Block  
Station Chief: MSgt. Richard Pratt

**MCCHORD AFB, Wash.**  
62 OSS/OSW  
1172 E St., McChord AFB, Wash. 98438-1008  
DSN 984-5489

Commander: Maj. David T. Miller  
Station Chief: MSgt. Charles B. Siniff

**MCCLELLAN AFB, Calif.**  
77 OSS/OSW  
3028 Peacekeeper Way, Ste. 4, McClellan AFB, Calif. 95652-1020  
DSN 633-6810  
Detachment Chief:: SMSgt. Charles J. Evans Jr.  
Station Chief: MSgt. Rick A. Suggs

**MCCONNELL AFB, Kan.**  
22 OSS/OSW  
53435 Kansas St., Ste. 110, McConnell AFB, Kan. 67221-3720  
DSN 743-3705  
Flight Commander: Capt. M. Rozema  
Station Chief: MSgt. Anthony Northington

**MCGUIRE AFB, N.J.**  
305 OSS/OSW  
Bldg. 1730 Vandenberg Ave., McGuire AFB, N.J. 08641-5509  
DSN 440-3992/3569  
Flight Chief: Capt. Alan Strayer  
Station Chief: MSgt. Dale Marks

**MINOT AFB, N.D.**  
5 OSS/OSW  
221 Flight Line Dr., Unit 2, Minot AFB, N.D. 58705-5021  
DSN 453-2138  
Commander: Maj. William R. Moak  
Station Chief: MSgt. Michael E. Scott

**MOODY AFB, Ga.**  
347 OSS/OSW  
8227 Knights Way, Ste. 106, Moody AFB, Ga. 31699-1899  
DSN 460-4557  
Commander: Capt. Diane Norris  
Station Chief: MSgt. Douglas Hardy

**MOUNTAIN HOME AFB, Idaho**  
366 OSS/OSW  
665 Thunderbolt St., Mt. Home AFB, Idaho 83648-5401  
DSN 728-2253/6303  
Commander: Maj. Daniel Cornell  
Station Chief: MSgt. Harold D. Knocke

**NELLIS AFB, Nev.**  
57 OSS/OSW  
6278 Depot Rd., Ste. 102, Nellis AFB, Nev. 89191-7256  
DSN 682-2481  
Commander: Maj. Jimason J. Rand  
Station Chief: MSgt. Jeffrey B. Dunn

**OFFUTT AFB, Neb. (BWS)**  
55 OSS/OSWB  
513 SAC Blvd., Ste. 101, Offutt AFB, Neb. 68113-2094  
DSN 271-2073  
Commander: Maj. (S) Ronald Dunic  
Station Chief: MSgt. Terrance Hoss

**OFFUTT AFB, Neb. (AFGWC)**

HQ AFGWC  
106 Peacekeeper Dr., Ste. 2N3, Offutt AFB, Neb.  
86113-4039  
DSN: 271-3380/5310  
Commander: Col. Joseph Dushan

**PATRICK AFB, Fla. (BWS)**

45 WS  
Bldg. 1201 Minuteman St., Patrick AFB, Fla. 32925-3238  
DSN 854-7426/5915  
Commander: Col. (S) Thomas C. Adang  
Range Weather Operations Chief: Maj. Robert Thorpe

**PATRICK AFB, Fla. (AFTAC)**

AFTAC TNLW  
1030 So. Highway A1A, Patrick AFB, Fla. 32925-3002  
DSN 854-4533  
Branch Chief: Capt. James E. Hammett Jr.  
Station Chief: MSgt. (S) Mike Anson

**PETERSON AFB, Colo. (BWS)**

21 OSS/OGSW  
125 W. Hamilton Ave., Peterson AFB, Colo. 80914-1220  
DSN 834-4337  
Commander: Capt. Nick Powell  
Station Chief: MSgt. James Randolph

**POPE AFB, N.C.**

23 OSS/OSW  
393 Surveyor Street, Pope AFB, N.C. 28303  
DSN 486-2805  
Commander: Capt. Salt Bacot  
Station Chief: MSgt. Jacob Lee

**RANDOLPH AFB, Texas (BWS)**

12 OSS/DOW, H-08  
1350 5th St. E., Randolph AFB, Texas 78150-4410  
DSN 487-3538/3040  
Commander: Capt. Brian Bjornson  
Station Chief: MSgt. Scott Hill

**REESE AFB, Texas**

64 OSS/DOW  
145 N. Davis Dr., Bldg. 79, 79489-5029  
DSN 838-3435/3118  
Commander: 1st Lt. Davis Byers  
Station Chief: MSgt. Kevin Johnson

**ROBINS AFB, Ga.**

78 OSS/OSW  
250 Eagle St., Ste. 202, Robins AFB, Ga. 31098-2602  
DSN 468-3179  
Commander: Capt. Robert E. Hardwick  
Station Chief: MSgt. Robert J. Born

**SCOTT AFB, Ill. (BWS)**

375 OSS/OSW  
433 Hanger Rd., Scott AFB, Ill. 62225-5029  
DSN 576-8486/4147  
Commander: Capt. Ann Y. Lee  
Station Chief: MSgt. Pierre A. Mercier

**SEYMOUR JOHNSON AFB, N.C.**

4 OSS/OSW  
1980 Curtiss Ave., Ste. 140, Seymour Johnson AFB,  
N.C. 27531-2524

DSN 488-5305/5391  
Commander: Capt. Mary Ann Kaschner  
Station Chief: MSgt. Timothy Kearns

**SHAW AFB, S.C**

20 OSS/OSW  
408 Killian Dr., Bldg. 615, Shaw AFB, S.C. 29152-5000  
DSN 965-3018  
Commander: Capt. James Nicol  
Station Chief: SMSgt. Jeffrey Fleming

**SHEPPARD AFB, Texas**

80 OSS/DOW  
620 J Ave., Ste. 3, Sheppard AFB, Texas 76311-2553  
DSN 736-6482/4256  
Commander: Capt. Mike Adams  
Station Chief: MSgt. Ray Solberd

**TINKER AFB, Okla. (BWS)**

72 OSS/OWW  
3800 A. Ave. Tinker AFB, Okla. 73145-9108  
DSN 884-5477/3493  
OIC: Capt. James L. Mitchell  
Station Chief: MSgt. Michael D. Dougherety

**TINKER AFB, Okla. (Det. 7, HQ AFGWC)**

Det. 7, HQ AFGWC  
7940 5th St., 2nd fl., Bldg. 10, (north side) Tinker  
AFB, Okla. 73145-9195  
DSN 339-7617  
Commander: Lt. Col. G. Anderson White III

**TRAVIS AFB, Calif.**

60 OSS/WX  
401 Burgan Blvd., Bldg. P4, Travis AFB, Calif. 94535-5986  
DSN 837-3378  
Commander: Capt. Vicki D. Michetti  
Station Chief: MSgt. John D. Gerrish

**TYNDALL AFB, Fla.**

325 OSS/OSW, Stop 22  
Tyndall AFB, Fla. 32403-5048  
DSN 523-2857/2609  
Commander: Maj. Steven Sycuro  
Station Chief: MSgt. Dale Honhart

**U.S. AIR FORCE ACADEMY, Colo.  
(Meteorological Lab)**

HQ USAFA/DFEG  
2354 Fairchild Dr., Ste. 6K12, U.S. Air Force  
Academy, Colo. 80840-6238  
DSN 259-3067/2553  
NCOIC: MSgt. Fabrice F. Clark

**U.S. AIR FORCE ACADEMY, Colo. (BWS)**

34 OSS/OSW  
9206 Airfield Dr., Ste. 1, U.S. Air Force Academy,  
Colo. 80840-2060  
DSN 259-2537  
Commander: Capt. Stephen A. Suthlerand  
Station Chief: TSgt. Terrance N. Roberts

**VANCE AFB, Okla.**

71 OSS/OSW  
623 Elam Rd., Ste. 110, Vance AFB, Okla. 73705-

5412  
DSN 940-7885/7530  
Commander: Capt. Kevin Trissell  
Station Chief: MSgt. John A. Maddux

#### VANDENBERG AFB, Calif.

30 WS  
900 Corral Rd., Bldg. 21150, Vandenberg AFB, Calif.  
93437-5002  
DSN 276-8022/3210  
Commander: Lt. Col. Robert Miller  
Station Chief: MSgt. William Gates

#### WHITEMAN AFB, Mo.

509 OSS/OSW  
745 Arnold Ave., Ste. 1A, Whiteman AFB, Mo.  
65305-5026  
DSN 975-3665/3061  
Commander: Capt. Karen Morris  
Station Chief: MSgt. Charles Surls

#### WRIGHT-PATTERSON AFB, Ohio (BWS)

88 OSS/OSWB  
5291 Skeel Ave., Wright-Patterson AFB, Ohio 45433-5231  
DSN 787-4270  
OIC: Capt. Robert Hauser  
Station Chief: MSgt. Phil Roseberry

#### EUROPEAN WEATHER UNITS

##### RAF MILDENHALL, U.K.

100 OSS/DOW  
Unit 4965, APO AE 09459-4965  
DSN 238-2050/2551  
Commander: Maj. Mark Weadon

##### RAF LAKENHEATH, U.K.

48 OSS/DOM  
Unit 5245, Box 390, APO AE 09464-5390  
DSN 226-2168/3660  
Commander: Capt. Steven Cristy

##### AVIANO AB, Italy

401 OSS/OGSW  
Unit 6170, APO AE 09601-6170  
DSN 632-7207/7628  
Commander: Capt. Stephen Romolo

##### SPANGDAHLEM AB, Germany

52 OSS/WEF  
Unit 8870, Box 270, APO AE 09126-0270  
DSN 452-6064/6749  
Commander: Capt. Malcolm Walker

##### INCIRLIK AB, Turkey

39 OSS/OSW  
Unit 7090, Box 115, APO AE 09824-0190  
DSN 676-6878/6880  
Commander: Capt. John Rogers

#### Army Detachments - Germany

##### HEIDELBERG

617 Weather Squadron  
Unit 29351, APO AE 89814  
DSN 370-8579

#### OBSERVER

Commander: Lt. Col. Malcom E. Gosdin Jr.

##### HEIDELBERG AAF

A Flt., 617 WS (AFOD)  
Unit 29231, APO AE 09102-3737  
DSN 370-8271  
Det. Chief: SMSgt. Larry Broomfield  
Station Chief: MSgt. Steve Potts

##### AUGSBURG

OL-A, 617 WS (UCIRF)  
C/O 527 MI BN CMR 456, APO AE 09157  
DSN 434-5805/ 5802  
OIC: Capt. Kristina B. Monk  
NCOIC: MSgt. (S) William Buttner

##### ECHTERDINGEN

OL-B, 617 WS (EUCOM)  
CMR 423, APO AE 09107  
DSN 421-4111/4220  
NCOIC: TSgt. Joshua DeBord

##### PANZER

OL-C, 617 WS (1/10 SFG)  
CMR 445, Box 260, APO AE 09046  
DSN 431-2513  
NCOIC: TSgt. Thomas J. Targaszewski

##### DARMSTADT

OL-D, 617 WS (32 AADCOM)  
C/O CMR 431, APO AE 09175  
DSN 348-6668  
NCOIC: SSgt. Scott Price

##### VICENZA, ITALY

OL-E, 617 WS, (USASETAF)  
Unit 31401, Box 6, APO AE 09630-0006  
DSN 634-7423/7240  
OIC: 1st Lt. David C. Runge  
NCOIC: TSgt. Robert J. Whittle

##### STUTTGART-VAHINGEN

Det. 1, 617 WS (USEUCOM)  
HQ EUCOM ECJ33-WE  
Unit 30400, Box 1000, APO AE 09128  
DSN 834-7423/8147  
Commander: Lt. Col. Nancy Harris

##### HANAU

Det. 2, 617 WS (4/1 AD)  
Unit 20200, APO AE 09165-9616  
DSN 322-7658/7664  
Commander: Maj. Randall A. Skov  
OIC: 2nd Lt. Robert N. LeeJoice  
Station Chief: MSgt. Michael Moll

##### BAD KREUZNACH

OL-A, Det. 2, 617 WS (1 AD)  
CMR 416, Box S, APO AE 09111  
DSN 490-6408/6284  
AIC: SrA. Franklin Edwards

##### ILLSHEIM

Det. 3, 617 WS (11 CAR)  
CMR 416, Box S, APO AE 09140  
DSN 467-4746/4557  
Commander: Capt. Thomas E. Lambert  
OIC: 2nd Lt. Tamara L. Parsons  
Station Chief: MSgt. William C. Denny

**TRABEN TRARBACH**

Det. 4, 617 WS (EUCOM)  
Unit 7890, APO AE 09126-7890  
DSN 452-7336/7337  
Commander: Lt. Col. William Markert  
OIC: Capt. Mark Kaster  
Station Chief: SMSgt. Donald Land

**KATTERBACH**

Det 5, 617 WS (4/3 ID)  
CMR 454, APO AE 09250-5000  
DSN 467-2788/2789  
Commander: Capt. Robert W. Mahood  
Station Chief: MSgt. Udell F. Mentola

**WIESBADEN**

Det 6, 617 WS (12 CAB)  
Unit 29632, APO AE 09 09096  
DSN 337-5186  
Commander: Capt. Paul G. Nielsen  
OIC: 2nd Lt. Steve L. Renner  
Station Chief: MSgt. Douglas M. Rozich

**GRAFENWOEHR**

Det. 7, 617 WS (7 ATC)  
Unit 28130, APO AE 09114-5000  
DSN 8349/6253  
Det. Chief: SMSgt. Deborah A. Manning  
Station Chief: MSgt. Craig Helselmeyer

**FRANKFURT**

Det 8, 617 WS (V-CORPS)  
Unit 25202, APO AE 09079  
DSN 320-6367  
Commander: Lt. Col. Larry J. Becker  
OIC: Capt. (S) Gary K. Moy

**SANDHOFEN**

Det. 8, 617 WS (70 TRANS)  
Unit 29719, Box 363, APO AE 09028  
DSN 382-5309/5298  
Station Chief: MSgt. (S) Salinda A. Larabee

**HOHENFELS**

Det. 9, 617 WS (CMTC)  
Unit 28216, APO AE 09173-5000  
DSN 466-2093/2691  
Det. Chief: MSgt. John E. Beaton Jr.  
Station Chief: MSgt. (S) Bruce Perkins

**GIEBELSTADT**

Det. 10  
617 WS (3 ID(M))  
Unit 26410, APO AE 09182-0006  
DSN 352-7415/7245  
Commander: Maj. Michael R. Babcock  
Station Chief: MSgt. Charles S. Vinson

**PACIFIC WEATHER UNITS  
HICKAM AFB**

15 OSS/OSW  
800 Hanger Ave, Hickam AFB, HI 96853-5244  
DSN 448-3122/7638  
OIC: Capt. L. Lee  
Station Chief: MSgt. G. Begg

**WHEELER ARMY AIR FIELD**

**25 ASOS/DOW**

1102 Wright Ave, Wheeler AAF, HI 96854-5200  
DSN 656-6950  
Director of Weather: Maj. W. Miller  
Operations: MSgt. Fluegge

**BRADSHAW ARMY AIR FIELD**

OL-A, 25 ASOS  
Pohakuloa Training Area, APO AP 96556-5000  
DSN 536-2294  
NCOIC: TSgt. Powell  
Forecaster: SSgt. Hall

**WHEELER ARMY AIR FIELD**

199 WF/MA  
1102 Wright Ave., Wheeler AAF, Hawaii 96854-5200  
DSN 656-1216/1232  
Commander: Lt. Col. L. Kumata  
Station Manager: MSgt. Spurlin

**WAIANAE MOUNTAIN RANGE, (Makakilo)**

Det. 5, 50 WS  
10 Hickam Ct., Palehua Solar Observatory, Hickam  
AFB, Hawaii 96853-52554  
CMCL (315) 668-7774/7991  
Commander: Maj. J. Backes

**KADENA AB**

18 OSS/OSW  
Unit 5177, Box 40, AOP AP 96368-5177  
DSN 634-4515/3940  
Flight Commander: Maj. D. Brown  
Station Chief: SMSgt. Hardy

**TORII STATION**

18 OSS/OSWT  
Unit 5177, APO AP 96368-5177  
DSN 644-4277  
NCOIC: MSgt. M. Gilbert

**YOKOTA AB**

375 OSS/OSW  
Unit 5222, APO AP 96328-5222  
DSN 225-9005/4549  
Flight Commander: Lt. Col. Blevins  
Station Chief: MSgt. B. Hosein

**CAMP ZAMA**

OL-A, 374 OSS  
Unit 45007, APO AP 96343-5222  
DSN 263-5196  
AIC: SrA. M. Walker

**MISAWA AB**

25 OSS/OSW  
Unit 5011, APO AP 96319-5011  
DSN 226-3196/3685  
Flight Commander: Capt. Cramer  
Superintendent: MSgt. F. Henry

**KUNSAN AB**

8 OSS/OSW  
Unit 2139, APO AP 96264-2139  
DSN 782-4501/4262  
Flight Commander: Capt. B. Trigg  
Station Chief: MSgt. Woodford

OSAN AB  
51 OSS/OSW  
Unit 2263, APO AP 96278-2163  
DSN 784-6332/5474  
Flight Commander: Capt. C. Miller  
Station Chief: MSgt. C. Fletcher

OSAN AB  
603 ACCENS/DOW  
Unit 2051, APO AP 96278-5000  
DSN 784-6350  
Flight Commander: Lt. Col. (S) Place

KOON NI RANGE  
51 RANS/WX  
Unit 2027, APO AP 96267-5456  
DSN 784-6112/6113  
NCOIC: SSgt. Butler

YONGSAN  
607 WS  
Unit 12173, APO AP 96205-0108  
DSN 725-3517/3590  
Commander: Lt. Col. J. Love  
DO: Lt. Col. (S) Bensinger  
ADO: CMSgt. J. Hahn

CAMP PAGE  
OL-A, 607 WS  
Unit 15630, APO AP 96208-0195  
DSN 721-5321/5325  
NCOIC: MSgt. Green

SEOUL  
OL-B, 607 WS  
Unit 15238, APO AP 96205-0011  
DSN 741-6346/6500  
NCOIC: SSgt. Benavides

CAMP EAGLE  
OL-C, 607 WS  
Unit 15676, APO AP 96297-0676  
DSN 721-2200/2727  
NCOIC: MSgt. Bradley

CAMP HUMPHREYS  
Det. 2, 607 WS  
Unit 15200, APO AP 96271-0136  
DSN 753-7623/7744  
Det. Chief: SMSgt. Holden  
Station Chief: MSgt. B. Moyer

CAMP WALKER  
OL-A, Det. 2, 607 WS  
Unit 15673, APO AP 96216-0673  
DSN 764-4333  
AIC: SrA. Anghelescu

CAMP RED CLOUD  
Det. 1, 607 WS  
Unit 15674, APO AP 96258-0674  
Commander: Capt. R. Arnold  
NCOIC: MSgt. Reeves

CAMP STANLEY  
OL-A, Det. 1, 607 WS

**OBSERVER**

Unit 15675, APO AP 96257-0675  
DSN 732-5767/5908  
Station Chief: MSgt. Driskell

CAMP CASEY  
OL-B, Det. 1, 607 WS  
Unit 15118, APO AP 96224-0420  
DSN 730-3628/3630  
NCOIC: SSgt. Greenleaf

ELMENDORF AFB  
3 OSS/WE  
32235 7th St., Elmendorf AFB, AK 99506-3097  
CMCL (317) 552-5201/3141  
Flight Commander: Capt. K. Harding  
Station Chief: MSgt. W. Shacklady

ELMENDORF AFB  
611 OSS/WE  
6900 9th St., Ste. 205, Elmendorf AFB, AK 99506-2250  
CMCL (317) 552-4026/2382  
Commander: Capt. Mark Miller  
Forecast NCOIC: SMSgt. Nelson

FORT WAINWRIGHT  
3 ASOS/WEATHER  
3112 Broadway, Ste. 7, Eielson AFB, AK 99702-1850  
CMCL (317) 353-7175/7082  
Commander: Capt. J. Staley  
Station Chief: MSgt. F. Lawson

EIELSON AFB  
354 OSS/OSW  
1215 Flightline Ave., Ste. 2, Eielson AFB, AK 99702-1520  
CMCL (317) 377-3371/3152  
Commander: Maj. Formosa  
Station Chief: MSgt. Rahe

FORT RICHARDSON  
OL-A, 611 OSS/WE  
600 Richardson Dr., Fort Richardson, AK 99505-5210  
DSN 384-2556/2564  
NCOIC: MSgt. J. Gamash

EARECKSON AFS (Deactivates April 1995)  
673 OPS/OSW  
Unit 12509, APO AP 96513-2526  
DSN 392-3500/3549  
Operations Commander: Capt. Malec  
Flight Chief: MSgt. Campbell

ANDERSEN AFB  
36 OSS/OSW  
Unit 14035, APO AP 96543-4035  
DSN 366-8120/3176  
Flight Commander: Maj. J. Hancock  
Station Chief: MSgt. J. Miller

NIMITZ HILL NAVAL STATION  
36 OSS/OSJ  
PSC 489, Box 17, FPO AP 96536-0051  
DSN 344-5240/6143  
Flight Commander: Lt. Col. P. Morse



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