

# First Pierce Award presented



FIRST PIERCE AWARD goes to CMSgt. Robert E. Clark for excellence in weather forecasting at a noncentralized AWS facility. Presenter of the new award is Maj. Gen. Russell K. Pierce, Jr., former AWS Commander and present deputy commandant of the Industrial College of the Armed Forces, for whom the award is named. Sergeant Clark, now assigned to AWS headquarters at Scott AFB, Ill., won the award for his work during 1970 at the Torrejon Air Base, Spain, Weather Support Unit, Detachment 11, 21st Weather Squadron. (US Air Force Photo)

# WC-130s ready for Stormfury seeding

RAMEY AFB, P. R.—Among other aircraft, two AWS WC-130s modified for cloud-seeding missions, are on hand here for 1971 Project Stormfury hurricane research and modification operations.

Equipped with external racks for silver-iodide pyrotechnics, as were AWS aircraft used in June rain-enhancement missions in Texas, the 53d Weather Reconnaissance Squadron aircraft join a 55th WRS WC-135 and 58th WRS RB-57Fs in Stormfury.

Stormfury forces will be on alert through October 31, awaiting the opportunity to seed hurricanes and perhaps diminish their force.

Project Stormfury is a joint program of Defense and Commerce departments to explore the nature of tropical storms and hurricanes and to investigate the possibility of modifying them. AWS has participated in the data-collection phase of Stormfury in past seasons, but has not performed any actual seeding.

Seeding experiments will be conducted on storms in the southwestern Atlantic, the Caribbean and the Gulf of Mexico when the probability is small — 10 per cent or less — that the hurricane eye will come within 50 miles of a populated area within 18 hours. Last season no hurricane met this criterion.

Stormfury's major 1971 goal is to confirm promising results of experiments of 1969. On August 18 and 20, 1969, Hurricane Debbie was seeded five times each day in an eight-hour period. After

August 18 seeding, maximum winds at 12,000 feet decreased 31 percent, dropping from 98 knots before to 68 knots after seeding. August 20 brought a 15-percent decrease, 99 knot winds dropping to 84.

A new seeding hypothesis is being tested this year. Computer simulations indicate that best results should come from seeding the same annular band as in 1969's Debbie, but concentrating on clouds beyond the ring of maximum winds, clouds which can be made to grow taller and larger by seeding.

Thus, seeding runs this season will begin about two miles farther out from the storm's inner eye wall than in past years. Seeding will be repeated five times, at two-hour intervals, with 208 silver-iodide generators — a full WC-130 load — dropped on each run.

Other 1971 experiments include seeding of hurricane rain sectors and rainbands and continuation of experiments on lines of tropical cumulus clouds not associated with hurricanes. Such cloud lines are like hurricane rainbands in many ways and their seeding contributes to hurricane research data.

In addition to AWS aircraft and people, aircraft and flight crews for 1971 Stormfury experiments are being provided by National Oceanic and Atmospheric Administration's Research Flight Facility, Miami, Fla., and two US Navy squadrons, based at naval air stations at Jacksonville, Fla., and Oceana, Va., respectively.



In the Nation's Service

Vol. 18, No. 8

Headquarters, Air Weather Service, Scott AFB, Illinois

August 1971

# Apollo support merits unit award

PATRICK AFB, Fla.—On Apollo 15's launch day, an Air Force Outstanding Unit Award was presented here to Detachment 11, 6th Weather Wing. MAC Commander General Jack J. Catton made the presentation to Detco Lt. Col. Robert H. Dowd and other detachment personnel.

Award was made for outstanding environmental support before and after launch and recovery of the earlier Apollo 14 mission. General Catton praised the detachment's quick-reaction-time service to the Air Force Eastern Test Range, Kennedy Space Center (NASA) and other agencies in support of the Apollo 14 mission.

Pre-mission planning in the detachment began three months before launch with a review of support documentation, scheduling of DOD weather resources and detailed plans for the detachments activities. Capt. Roger Schauss briefed Maj. Gen. David M. Jones, AFETR commander, and Apollo Range Instrumented Aircraft personnel on support capabilities for launch and recovery forces. Lt. Col. Albert Devitt, chief staff meteorologist for the



## Streamer goes on

detachment, briefed NASA personnel on pre-launch activities.

Numerous AWS aircraft were committed to Apollo 14 during this time, providing aerial wea-

ther reconnaissance up to launch time at Cape Kennedy and downrange, and later at the recovery area at the end of the mission.

Launch weather support was directed by Capt. Robert Introne in the detachment's award-winning performance at Cape Kennedy Forecast Facility. Other team members singled out for praise on Launch Weather Support were Maj. Frederick Fowler, launch abort recovery area monitor; 1st Lt. John Ernst, duty forecaster; MSgt. Edward Havril, reconnaissance aircraft director; SSgt. Ronald Ferguson, local weather chart analyst; Sgt. Paul Werth, radar scope interpreter; and Sgt. Paul Wilson, radar maintenance.

Other detachment members named in the award recommendation included 1st Lts. Larry Moore, Michael Sylvester and William Bany and 2nd Lt. Robert Mills, SMSgt. Robert G. Hallway, TSgt. Donald Cable, Sgt. Richard T. Jackson, Sgt. Michael A. Bankston, Sgt. Robert A. Brooks and SSgt. Richard V. Valente.

The detachment was also commended by the Director of Launch Operations for its Apollo 14 support.

# Four AWS students lead Squadron Officers School class

SCOTT AFB, Ill.—All four officers from Hq. AWS who recently completed the Squadron Officers School, Class 71-B, Maxwell AFB, Ala., returned to Scott as Distinguished Graduates. Making up the foursome were Captains Gene J. Pfeffer, Charles H. Tracy, Roger C. Whiton and Gary S. Zeigler. Other weather-

men attaining Distinguished Graduate status among the 30 AWS officers who took the course were Capt. John F. Artz and Capt. Michael R. Denington, 5th WWg., and Capt. Ivan Haynie, 9th WWg.

Also graduating from the course were Captains Thomas P. Incrocci, Darrell L. Lucus and

Donald S. Thomas, Jr., from AFGWC; William T. Higham, John A. Odland and Martin P. Wiess, 3rd WWg.; Hal W. Wold, 4th WWg.; James F. Hines, Clifford F. Gilbert, Robert E. Knoblock and Eric P. Warman, 5th WWg.; Francis Guiberson, Peter J. Havanac, Robert E. Introne and John L. Moore, 6th WWg.;

# Former AWS men wear stars



General Aldrich



General Saunders

Hq. AWS—This month saw two former AWS officers achieve star rank, when Thomas A. Aldrich, former AWS vice commander, and Ralph S. Saunders, former 9th Weather Reconnaissance Wing commander, pinned on brigadier-general stars.

Thus General Aldrich, now commanding MAC's 1605th Air Base Wing, Lajes Field, Azores, and General Saunders, who commands MAC's 60th Military Airlift Wing, Travis AFB, Calif., joined a select group of 37 present and former AWS officers

who have reached that rank.

The 37 are John B. Ackerman, Milton W. Arnold, Harold H. Bassett, Royden E. Beebe Jr., William H. Best Jr., Chester W. Cecil, Delmar L. Crowson, Leo P. Dahl, Robert E. L. Eaton, Richard E. Ellsworth, Ivan L. Farman, Joseph J. George.

Also Donald P. Graul, Benjamin G. Holzman, Leon W. Johnson, Arthur W. Kellond, Glenn A. Kent, Leo A. Kiley, Julius K. Lacey, Robert F. Long, Ernest M. Moore, Thomas S. Moorman, Lewis L. Mundell, Roy W. Nelson Jr., Paul W. Norton, Norman L. Peterson, Russell K. Pierce Jr., William O. Senter.

Also Von R. Shores, Anthony T. Shtogren, Harold L. Smith, Norman C. Spencer Jr., Kenneth C. Spengler, William S. Stone, Floyd B. Wood, Donald N. Yates and Don Z. Zimmerman.

Joseph B. Hooten, David B. Patton, Robert A. Watchman and Robert L. Weimer, 7th WWg.; Robert C. Badger, Gordon C. Blevins, Jr., Gary C. Heise, 9th WRWg.; and Capt. David M. Goddard, OL-H, AWS.

## A Lesson Taught

As a consequence of recent higher headquarters directives, stemming from findings and analysis of the Travis AFB incident, AWS Headquarters is formulating an Equal Opportunity Program for command-wide application.

Meanwhile, all of us must take steps to assure that every member of Air Weather Service is recognized as a vital individual in our support to the Defense Department and the nation.

Reprinted by permission of the Army Times Publishing Company, the following appeared in an August issue of Family, distributed in Air Force Times, Army Times and Navy Times. "The 12 Lessons of Travis" deserve the solemn attention of every AWS member and beg for understanding.

We must all read and heed . . .

Any commander who assumes he has no racial problem is making a mistake.

Commanders cannot rely on the chain of command and the IG to keep abreast of racial problems.

Commanders must get out of their offices and talk with their troops. Human relations councils can be useful if the men on the councils really represent the troops and if they are given enough power to make significant changes. Rubber-stamp councils are useless.

No grievances, even if seemingly trivial, should be dismissed as just another GI gripe. Each complaint must be carefully considered and corrective actions publicized. If no action is taken, explain why not.

A good base newspaper can help spike rumors and reduce tension if reporting is accurate, timely and complete. Information officers should be ordered to provide all newsmen with maximum information with minimum delay.

If a man THINKS he has a problem — whether he does or not — the command has a problem.

Discipline must be enforced uniformly. Keep close tabs on courts-martial and Article 15s for signs of discrimination.

Good leadership by section chiefs and other immediate supervisors can solve many human relations problems. Commanders must weed out supervisors who cannot lead men. Technical competence and time in grade are not sure-fire indicators of leadership ability.

Recreational facilities are no good if they aren't used. Activities should be tailored to the needs of different ethnic groups. A championship golf course may appeal to a commander, but not to his men. Mexican-Americans may want to play soccer, not football.

Blacks as well as whites have racist attitudes.

Pulling rank is no substitute for leadership. Today's serviceman, like the sophisticated equipment he operates, is more sensitive and complex than in the past. Both must be handled with care.

No installation in the armed forces is immune to serious violence, whether it involves white against black or GI against the brass.

## Col. Collens Addresses Challenges

OFFUTT AFB, Neb.—On an official visit to 3d Weather Wing headquarters and Air Force Global Weather Central, Col. John W. Collens, AWS vice commander, this month addressed a luncheon meeting of 3d Wing-AFGWC junior officers.

Sponsored by the AFGWC Junior Officers' Council, the meeting featured "Challenges and Opportunities," the subject of Colonel Collens' remarks.

"You heard me use the words 'career management,'" the AWS vice commander said, in part. "I want to dispel the notion that there is a Daddy Rabbit at AWS headquarters or in the USAF Military Personnel Center who is guiding your destiny.

"True, you have the opportunity to contact the weather-career counselor — Colonel Mathes at Randolph AFB — and spell out your wishes on career-objective forms. But neither Colonel Mathes nor AWS headquarters has charted your course to eventual command of this weather wing, the Global Weather Central, or whatever.

"There are three facts you should know about career management. First, you must do the managing. Air Force, AWS, MAC, etc., provide the road maps, but you must determine which route you will travel.

"Those career-objective forms tell us what you want, but you must first demonstrate that you can do — that you have the potential to do — those jobs that are prerequisites for more responsible positions. You must manage yourself so that your performance reports reflect your qualification for the levels of assignment reflected on the career-preference form.

"The second fact about career management is that you must let your rating official know your desires. Be honest with yourself in telling him what you want to do next assignment. If in your heart you know you just are not ready for bigger things, don't ask him to reflect a higher level of responsibility for your next job.

"Progress, promotion and bigger responsibilities beget further promotion and are the product of how well you are currently performing, plus demonstrated potential for bigger challenges. Assuming you have what it takes to advance, make sure your career-preference form reflects any changes in your aspirations.

"And don't shoot too low in those aspirations. It is amazing how many officers reflect rather narrow career goals in their preference statements.

"The last fact is one that is becoming increasingly important for weather men and women. Too few meteorologists avail themselves of the wonderful opportunities for diversification that this Air Force has to offer. I bet that if I took a poll of career ambitions in this room, over 95 percent of you would reflect a lifetime in meteorology-related tasks.

"The Air Force is the world's most diversified conglomerate. General Motors, the world's largest corporation, cannot hold a

## Command Line

Brig. Gen. William H. Best Jr.



Could Leonardo da Vinci have built a better barometer?

Perhaps so, for he was blessed with something we can never get enough of in the Air Weather Service — creativity.

Creativity, and the imagination that goes with it, is necessary in a scientific organization like ours. Ideas are what we need. It's fine to do our observing, forecasting, maintenance and flying, and do them well; but we must continuously push the state-of-the-art.

And where do these ideas come from? Contrary to popular belief, most good ideas come not from the upper echelons of command but from the operational working level. The observer, the forecaster, the aircrew member, the maintenance man — these are our sources of fresh, new ideas.

Consequently, it falls to the supervisor in Air Weather Service to give these new ideas a chance, to encourage an environment of creativity.

Let your men use their imaginations. Encourage your young airmen and officers to think, and morale will improve along with your product. Certainly you must temper imagination with wisdom, and that is where your experience will help you — in picking a good idea from among the not-so-good.

Maintain a healthy skepticism, of course; but be sure you do not kill a good suggestion simply because it is new. Encourage creativity and help Air Weather Service progress. We need new ideas.

## Death Rode Along . . .



. . . and an AWS member died

candle to the variety of job challenges and opportunities that await each of us inside the Air Force.

"Each of you has one or more degrees," Colonel Collens continued "do you eat, breathe and sleep meteorology? If so, I would not urge you to change your course yet, but somewhere along the way you might consider the wonderful world of systems development, or allied scientific and engineering career opportunities that exist in the Air Force. There are rapidly growing automation efforts in all major air commands,

and a host of practical applications in civil engineering, analytical studies and analysis, and many others.

"I had three weather officers working for me in the analytical studies business in Headquarters MAC — one a colonel, another a lieutenant colonel, and a major. They were applying their brain power to solution of some knotty problems facing the command, and none of them concerned the weather.

"One had his own time-share computer console, several mathe-

(continued on page 3)



The Air Weather Service OBSERVER is an official Class 4 Air Force newspaper published monthly by and for personnel of the worldwide Air Weather Service of the Military Airlift Command and under the supervision of the Directorate of Information, Headquarters, Air Weather Service, Scott AFB, Ill., 62225. Opinions expressed herein do not necessarily represent those of the Air Force.

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BRIG. GEN. WILLIAM H. BEST Jr.

Commander, Air Weather Service

LT. COL. WILLIAM H. QUELCH Jr., Director of Information

MR. JOHN D. RUGG, Executive Editor

MSGT. ED BURCHILL, Associate Editor

## At Pollution Meeting



IN OPEN AIR, experts discuss air pollution. Capt. James L. Dicke, left, Donald E. Wuerch, center, and Donald A. Pecsok spoke at Scott AFB, Ill., seminar conducted by Dicke for AWS personnel. Wuerch is a St. Louis air pollution meteorologist with National Weather Service, Pecsok director of St. Louis County's air pollution program. (US Air Force photo)

## Pollution expert addresses MAC environmental group

SCOTT AFB, Ill. (MNS)—What's our level of air pollution today and what will it be tomorrow?

That is one of the chief concerns of Capt. James L. Dicke (USAF Reserve), who recently addressed Military Airlift Command's Environmental Pollution Control Committee at Scott while on two weeks active duty with Air Weather Service. Captain Dicke's civilian position is with the Institute for Air Pollution Training, United States Environmental Protection Agency, located at Research Triangle Park, N.C.

According to Captain Dicke, each state will submit an implementation plan for control of air pollution to the Environmental Protection Agency by Jan. 31, 1972. Included in each plan are the state's air quality standards. The Clean Air Act of 1970 requires that these primary standards be achieved within three years after approval of the implementation plan.

## Vice Commander's address . . .

(Continued from Page 2)

maticians, programmers, among them a PhD with an Air Force maintenance background. These were his resources, and this 2546 lieutenant colonel is doing a bangup job in an area that abounds in pilots, navigators and nonrated logisticians.

"The point I am making is that weathermen, scientifically oriented advanced meteorologists, need not fear the other worlds of the Air Force. You can make it there too. In fact, with few exceptions, meteorologists do as well or better at nonmeteorology jobs than their contemporaries.

"You know, once upon a time, weathermen were the most educated group in the Air Force. You still have an edge, but for over a decade now all officers entering the Air Force have possessed a degree.

In conclusion, Captain Dicke encouraged the MAC committee to continue its good work and to maintain contact with pollution control officials at all levels of government.

Since the mid-1960s the nation's environmental problems have been a subject of major concern to AWS, MAC, and USAF. Action in this program was accelerated by the President's Executive Order of February 1970, which resulted in the establishment, on Dec. 2, 1970, of the national Environmental Protection Agency.

Reacting quickly to high-level concern for the nation's pollution problems, the first meeting of the new MAC Environmental Pollution Control Committee was held at Scott on Dec. 4, 1970, chaired by Col. Ray D. Lemons, director of operations and maintenance, MAC civil engineering. Since that, initial, gathering, periodic meetings have been held to determine causes of pollution at MAC bases and to work toward eliminating or reducing them.

"So now you need to diversify, to demonstrate a capability to handle a variety of tasks and responsibilities. These qualities are what selection and promotion boards are looking for when they select tomorrow's leaders. So avail yourself of every opportunity to demonstrate your ability.

"Even within AWS, you should broaden your scope. You may be the world's best computer expert at the art of forecasting convective activity. If you are satisfied with the grade of major, then no need to further diversify. But if your horizon goes beyond, to a bigger paycheck, greater responsibility and its probable rewards, you have to break out of that comfortable slot and face other challenges, other opportunities—either within or outside of Air Weather Service."

## Rare events mark career of retiree

MT. WASHINGTON, N. H.—Two rare events marked the early career of a former Mt. Washington observer who retired this summer at AWS Headquarters. Other events highlighted his later career.

An unusual halo was the first, in the fall of 1933. Recorded at a radius of 24 degrees, 37 minutes, the halo confirmed earlier predictions of the noted meteorologist, Dr. W. J. Humphreys.

Then, during the great storm of April 11-12, 1934, the earth's highest recorded wind speeds of 231 mph were observed at the Mt. Washington observatory.

Robert G. Stone, chief of technical files for AWS's aerospace services, whose interest in meteorology began in 1933 as an assistant observer at Mt. Washington, retired this summer after nearly 28 years of Federal service.

Stone was well-known throughout AWS for his skill in technical editing and library management. His most distinguished scientific award was presented in 1956 by the American Meteorological Society (AMS) in recognition of his being the editor of the Bulletin of the AMS from 1935 to 1955 and for his participation in committee and council work.

Stone and his wife, Edna, plan to reside in the Shenandoah Valley of Virginia.

The Observer regretfully reports the deaths of the following Air Weather Service people:

Frank C. Muth, long retired from AWS Graphics, April 16, in Altoona, Pa., after brief illness.

Capt. Aaron Prodell, Operating Location D, 7th Weather Squadron, staff weather officer for US Army's 2d Armored Cavalry Division, May 19, in a helicopter crash in Germany.

Sgt. Gary M. Alwes, 56th WRSq., Yokota AB, Japan,

## SEA Pireps increased

PHAN RANG AB, Vietnam—Over SEA where surface observations are sparse, pilot weather reports (Pireps) serve as a valuable data source. During the first six months of 1971, Detachment 22, 30th Weather Squadron, collected and disseminated over 2,200 Pireps. This total compares with less than 400 Pireps collected during the same period in 1970, when the base mission and number of sorties flown were approximately the same.

Many of these Pireps depicted, in detail, conditions over routes and target areas where no other data was available. All Pireps were disseminated long line, as Pireps are used to supplement the local surface observations. Selected Pireps were also placed on the local autewriter circuit.

The 35th Tactical Fighter Wing contributed a majority of the Pireps. Competition between its squadrons was kindled by posting squadron totals on a daily wing staff-briefing slide and giving recognition and token rewards to monthly winners.

Collecting and processing Pireps constituted a joint forecaster and observer effort. Pireps were solicited through control-tower personnel by the observer located in the control-tower cabin. Opportunities presented at theater indoctrinations, flying safety, wing staff, mass aircrew, pilot-to-forecaster across the counter, and telephone briefings were used by

forecasters to request Pireps. After stressing the need for Pireps and pointing out the benefits that would accrue through more accurate forecasts, aircrews formed regular weather debriefing habits.

Detachment personnel are convinced that their extra efforts have been well rewarded. A better understanding and degree of cooperation with supported units now exists and the additional Pireps have significantly contributed to overall mission accomplishment in SEA.

## Gallantry Cross award shared by weather unit

PHAN RANG AB, Vietnam—The Vietnamese Cross of Gallantry with Palm was recently presented to the 35th Tactical Fighter Wing and supporting units, which included Detachment 22, 1st Weather Group.

Brig. Gen. Vo Van Canh, commanding general of the 23rd Infantry Division, Army of the Republic of Vietnam (ARVN), presented the award in a morning ceremony at the base's four-nation flagpoles.

The citation accompanying the award of the Cross of Gallantry stated, in part, that the Wing, from September 1968 to October 9, 1970, had performed in a fantastic manner because of its dedicated support personnel and heroic pilots who, under extremely difficult mission situations and with personal disregard for the dangers involved, conducted airstrike missions against Communist strongholds and provided air support to operations organized by both the Armies of the Republic of Vietnam and United States of America.

All personnel assigned to Detachment 22, 1st Weather Group (formerly Det. 22, 30th WSq.) during those dates are authorized this award on 35th Tactical Fighter Wing Special Order GB-116, dated February 25, 1971.



ART ON DISPLAY in the AWS headquarters lobby at Scott is the work of Marshall Peterson Jr., illustrator in AWS Graphics. Selected as first to display in the lobby, Peterson has worked in

the graphics area for 16 years and has sold numerous oil paintings and water-color drawings. Future months will feature lobby displays of photographic, art or hobby talents of other AWS members.

Air Force Global Weather Central

# Weather station to the world

By SMSgt Robert P. Fry



ELECTRONIC PENCIL follower, manipulated by Sgt. Gordon J. Brickner of AFGWC's analysis and forecasting section, transfers weather data from a manually drawn map to magnetic tape. When the resulting tape is fed into Global Weather's computer system, the computer can use the data to write and disseminate forecasts.



MONITORING low-altitude forecasts made for Strategic Air Command's bomber training flights are (left to right) 1st Lt. Gary R. Neuroth, Capt. Marvin H. Olson and Capt. Ronald W. Coyle of Global Weather's low-level unit.

A weather satellite detects a cloud mass over the Mediterranean; a reconnaissance aircraft reports data from a typhoon in the Pacific; a surface observer reports the temperature in Korea and balloon-borne equipment obtains upper-wind information over Central America. All of this vital weather data is immediately received, digested, analyzed and stored for operational use by Global Weather Central, Offutt AFB, Nebraska, the world's largest integral computerized weather central.

Blending the abilities of skilled meteorologists with the capabilities of the computer, AFGWC, under the command of Col. Daniel B. Mitchell, provides its world-wide weather customers with an assortment of "tailored," weather products ranging from individual computer flight plans to area forecasts and severe weather warnings.

When a State Department VIP boards an aircraft for a flight from Washington, D.C., to a European capital, his crew will fly by a "computer flight plan" prepared by the man-machine team at Global Weather. During the entire flight, enroute and terminal weather conditions will be closely monitored by AFGWC's "human" element and significant changes to the forecasted flight plan will be immediately relayed to the crew.

This "Red Carpet" treatment is not reserved for VIP's traveling aboard the Air Force's special mission aircraft from the nation's capital. Crews and passengers of all Military Airlift Command aircraft are considered "Very Important Persons" by the personnel at AFGWC, and each flight receives the computerized flight plan and personal attention of the Offutt weathermen.

Daily requests for 600 to 700 computer flight plans originate at MAC area command posts at McGuire AFB, N.J., Travis AFB, Calif., Clark AFB, Philippines, Yokota AB, Japan, and Lindsey AS, Germany. Times, altitudes and routes requested are relayed to AFGWC over the DOD Automated Digital Network (AUTODIN) and the completed flight plan is usually returning to the requesting command post in less than one hour. Plans are now underway to tie the AFGWC AUTODIN terminal directly into the computer system and further decrease the response for the computer flight plans.

Protecting America's multi-billion-dollar investment in US military bases and equipment is another important function of the Air Force Global Weather Central. The Global Weather Severe Weather Warning Unit maintains a constant surveillance of developing weather conditions that may produce damaging hail, strong winds, severe thunderstorms or tornadoes. When such conditions are noted, individual bases or areas are immediately notified of the pending threat to allow movement or proper safeguarding of equipment and personnel in the affected area.

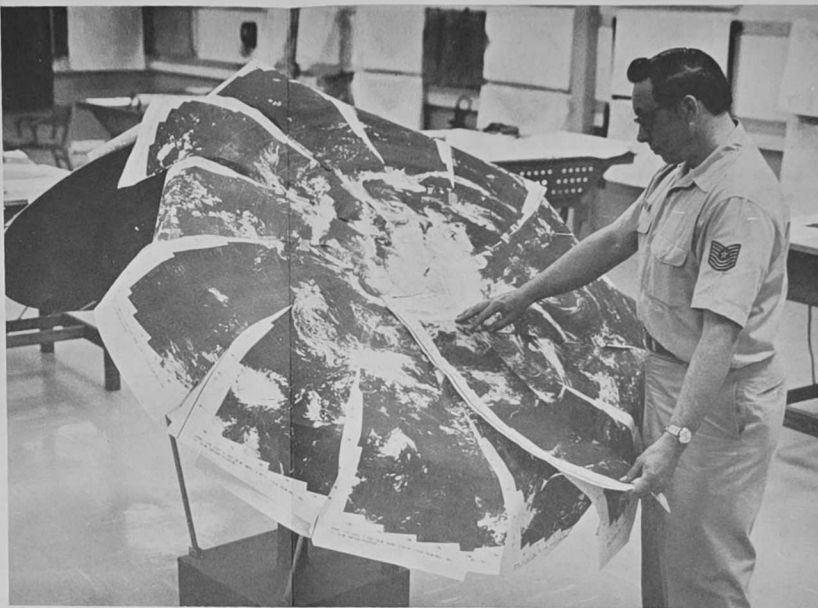
Combining years of personal weather experience with the capabilities of the computer, Global Weather has established new records for accuracy in forecasting the occurrence of tornadoes. For the months of April 1970 and May 1971, 91% of the areas for which tornadoes had been forecast reported tornado activity. During the severe weather season, March through September, the Severe Weather Unit prepares and transmits as many as 700 warnings each day.

A direct telephone line between AFGWC's Severe Weather Unit and the National Weather Service's Severe Storm Center at Kansas City, Mo., allows an interchange of information which has proven invaluable to both of the military and civilian weather units and to the recipients of their weather warnings.

Collocated at Offutt AFB with the headquarters for Strategic Air Command, AFGWC provides 200 computer products daily to the 3d Weather Wing's SAC Weather Support Unit and continuous computer input to the SAC Automated Command Control System and the underground command post. Detailed forecasts for SAC low-altitude training missions are also prepared by the man-machine team at Global Weather. Transmitted every three hours, the initial weather data is extracted from hand-drawn charts by an electronic pencil follower which places the data on magnetic tape. When the tape is entered into the computer system, the computer writes the low-altitude route forecasts and disseminates the data to all SAC bases.

AFGWC also has the responsibility for providing "military tailored" facsimile charts transmitted on the Air Force Strategic Facsimile Network to military bases within the continental US and Alaska. Global Weather daily transmits 53 charts over this circuit on a scheduled basis. Of this number, 37 are computer prepared, the remaining 16 hand drawn. Computer products are also transmitted to the Asian and European terminals for further preparation for facsimile transmission to overseas bases.

With its computer-facsimile capability, AFGWC serves as backup for the National Meteorological Center, operated by the National Weather Service at Suit-



SPACE PINWHEEL of weather-satellite data, used by AFGWC, is assembled by MSgt. George M. Lacroix of Global Weather's analysis and forecasting section. The satellite photographs, returned from cislunar orbit, are a valuable forecasting tool for areas of the world from which weather data is sparse.

land, Md. If the civilian center's computers are inoperative for a period of 12 hours or more, Global Weather transmits the latest forecast charts to civilian weather units on the National Facsimile Circuit.

In addition to facsimile products, AFGWC produces weather bulletins and computer products that are used throughout the world. Every 24 hours, 702 scheduled transmissions leave Global Weather via the Automated Weather Network, AUTODIN and direct circuits to Fort Ritchie, Md., Fort Meade, Md., Langley AFB, Va., Andersen AFB, Guam, Hickam AFB, Hawaii, U-Tapao, Thailand, ADC Backup Interceptor Control centers and command posts of the National Military Command Control System.

Interests and pursuits of AFGWC are not confined to the weather systems surrounding the earth. Space "weather" research is another area of responsibility for the Global Weathermen. In addition to support of manned and unmanned space shots and collection of weather satellite data, Global Weather processes such astrophysical information as X-rays, neutron, solar wind and solar telescope data. The central also prepares forecasts for the ionosphere, radio propagation frequencies and atmospheric densities at satellite altitudes.

The weather central concept was initiated to bring top weather talent together with the best available equipment to produce weather products faster, more economically and more accurately than the individual efforts of smaller weather units throughout the world.

Still in its infancy, the Air Force Global Weather Central has already absorbed several responsibilities from other units under the centralization program. In February 1970, functions of the Military Severe Weather Warning Center moved to Global

Weather from Kansas City, Mo. Production of Military Airlift Command's computer flight plans was transferred from Suitland, Md., to Global Weather in August of that same year. On August 7 of this year responsibilities of the Latin American Forecast Center at Charleston AFB, S.C., were assumed by the Offutt weather unit.

Continuing with the centralization concept, Global Weather will begin preparing terminal weather forecasts for continental US air bases on November 1. Beginning with 14 bases in the Southwest, the weather central will gradually extend its service throughout the United States. With knowledge gained from this experience and increased computer capacity, this service may later be extended to overseas military installations.

With the world's largest meteorological data base available for immediate access, Global Weather's future expansion of responsibility is limited only by computer time and storage, that is, the time it takes to process information in and out of the computers, and the amount of information the computers can store. Global Weather's programming technicians and UNIVAC engineers are constantly modifying programs and equipment to allow optimum "dollar value" for each minute of computer time and further expand the operational capabilities of the four UNIVAC 1108 systems.

The present computer system has an immediate access storage of 286 million "words" with the ability to input or extract information in 92/1,000ths of a

UPPER-AIR chart prepared by Global Weather's computers is examined by AFGWC's Sgt. William R. Davis. Computer products are closely monitored, to ensure that weather-central customers are receiving accurate weather information.

second. In addition, the AFGWC tape library has 10,000 reels of programs and data available on magnetic tape. Each month, more than 22,000 tapes are handled by the library.

The world-wide weather data received at AFGWC is "piped" into Offutt by the Automated Weather Relay Center at Carswell AFB, Tex., via the Automated Weather Network (AWN). Collecting data from the European terminal at Croughton, England, the Asian terminal at Fuchu, Japan, the Philippine terminal at Clark AFB, the Fleet Numerical Weather facility at Monterey, Calif., and the National Weather Service networks, the Carswell relay center automatically "feeds" the Offutt computers with raw data, and in turn, relays the AFGWC computer products to weather customers around the world.

While the search goes on for methods to increase computer capacity and improve programs, a few unique weather charts are still hand produced by the Analysis and Forecasting Section. Hourly charts are plotted for significant US weather and for radar reports, and a continuous plot is made of all available pilot report data for the entire northern hemisphere. Manual plotting of this data is still necessary, because the computer system cannot decode plain-language remarks contained in reports.

In an effort to reduce costs and duplication, AFGWC and the US Navy's Fleet Numerical Weather Central at Monterey, Calif., are in the process of "linking computers" via high speed circuits to increase exchange of data and products between the two services. At present, both centers have liaison personnel at the other's facilities to aid in exchanging technical innovations.

Initiated to conserve resources and increase capabilities, liaison personnel are "working guests" and are absorbed into the structure of their host unit.

When the AWS weathermen report for duty at Offutt, the Nebraska sun may be shining and winds may be calm, but somewhere weather systems are generating which will effect worldwide interests of the United States. The Air Force Global Weather Central effort is geared to a 24 hours a day, 365 days a year operation dedicated to finding, analyzing, forecasting, and in effect, "neutralizing" these systems.

QUALITY CONTROL is the name of the game for Sgt. James E. Briggs of AFGWC's automation section. Here Briggs maintains a close surveillance of job quality control for development and test programs. With the weather unit's four UNIVAC 1108 systems operating at capacity, the running time for each computer program is closely monitored by AWS technicians.

While the search goes on for methods to increase computer capacity and improve programs, a few unique weather charts are still hand produced by the Analysis and Forecasting Section. Hourly charts are plotted for significant US weather and for radar reports, and a continuous plot is made of all available pilot report data for the entire northern hemisphere. Manual plotting of this data is still necessary, because the computer system cannot decode plain-language remarks contained in reports.

In an effort to reduce costs and duplication, AFGWC and the US Navy's Fleet Numerical Weather Central at Monterey, Calif., are in the process of "linking computers" via high speed circuits to increase exchange of data and products between the two services. At present, both centers have liaison personnel at the other's facilities to aid in exchanging technical innovations.

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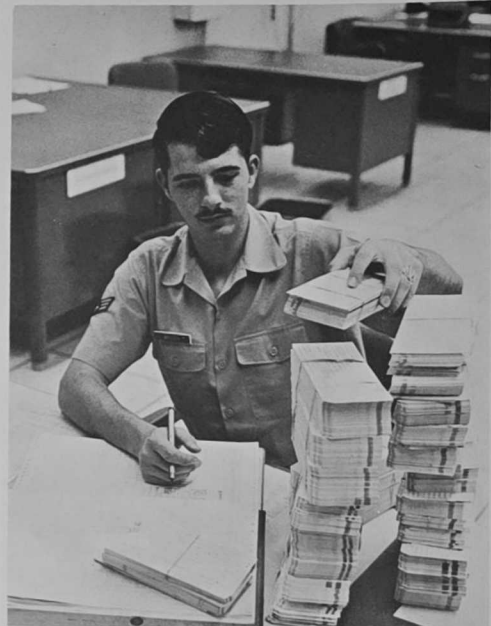
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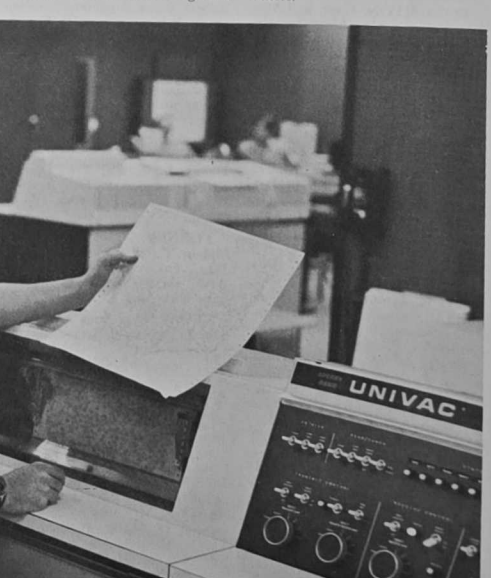
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UPPER-AIR chart prepared by Global Weather's computers is examined by AFGWC's Sgt. William R. Davis. Computer products are closely monitored, to ensure that weather-central customers are receiving accurate weather information.



LOOKING UP to the top of a GMQ-1 Wind Set is MSgt Charles Ennis, NCOIC of Maintenance, Det. 17, 20th WSq., Yokota AB, Japan, as TSgt. David Buzzard, assistant chief observer, takes readings from the mobile wind set. The experiment was set up to provide wind velocity measurements in conjunction with C-5 Galaxy engine runups at various areas on Yokota Air Base, that could be used as engine runup pads for the giant aircraft and would not interfere with other base flying activities. Prior to the experiment, the only approved runup pad for the C-5 was the active runway and it was necessary to close the runway during runup tests. (U.S. Air Force Photo)

## Births in AWS

**WILLIAMS, Capt. and Mrs. Bruce C.**, a daughter, April Renee. Father assigned to Det. 14, 4th WWg., Richards-Gebaur AFB, Mo. Baby born July 26.

**BOUGHTON, Capt. and Mrs. Grant S.**, a daughter, Jennifer Dawn. Father assigned to Hq. Air Weather Service, Scott Air Force Base, Ill. Baby born July 26.

**MOHERMAN, Sgt. and Mrs. Tom L.**, a son, Matthew Jay. Father assigned to Det. 9, 16th WSq., Fort Rucker, Ala.

**WHITE, TSgt. and Mrs. Thomas E.**, a daughter, Andrea Veloz. Father assigned to Det. 9, 16th WSq., Fort Rucker, Ala.

**HAUCK, MSgt. and Mrs. Franklin P.**, a daughter, Jennifer Lynn. Father assigned to 6th WWg., Andrews AFB, Md. Baby born July 4.

**LAUR, Capt. and Mrs. Timothy M.**, a son, Matthew Diem. Father assigned to 2nd WWg., Lindsey A. S., Germany.

**PERLOW, SSgt. and Mrs. Arno**, a daughter, Jennifer Christine. Father assigned to Det. 28, 25th WSq., Ellington AFB, Tex.

**GEORGE, SSgt. and Mrs. Charles T.**, a son. Father assigned to Det. 28, 25th WSq., Ellington AFB, Tex. Baby born on July 4.

**HANSEN, Capt. and Mrs. Ralph W.**, a son, William Edward. Father assigned to Hq., 7th WWg., Scott AFB, Ill.

**FOUTS, SSgt. and Mrs. Gordon A.**, a son, Gordon A. III. Father assigned to Hq., 7th WWg., Scott AFB, Ill.

**FISCUS, Capt. and Mrs. Patrick J.**, a daughter, Patricia. Father assigned to Hq., 7th WWg., Scott AFB, Ill.

**HORNER, Capt. and Mrs. Robert Jr.**, a daughter, Caroline Clare. Father assigned to Det. 5, 16th WSq., Wright-Patterson AFB, Ohio.

**GREEN, Sgt. and Mrs. Frank L.**, a daughter, Leslie Lorraine. Father assigned to Det. 5, 16th WSq., Wright-Patterson AFB, Ohio.

**COMBS, Airman and Mrs. Danny L.**, a son, Eric Daniel. Father assigned to Det. 5, 16th WSq., Wright-Patterson AFB, Ohio.

**TURNER, Capt. and Mrs. Melvin L.**, a daughter, Tracy Joan. Father assigned to 7th WSq., APO New York 09403. Baby born Aug. 3.

**STAMP, SSgt. and Mrs. William F.**, a son, Jeffery William. Father assigned to 7th WSq., APO New York, 09403.

## Weddings

1st Lt. Frederick (Rick) L. Pabst, was married to Debra Susan Smith on July 2 in Ojai, CA. Lt. Pabst is assigned to Det. 4, 4th WWg., McChord AFB, Wash.

Capt. Harold R. Barbera was married to Judy Lee Smith, on July 17, in Hagerstown, Md. Capt. Barbera is assigned to Det. 29, 6th WWg., Ft. Ritchie, Md.

## Lt Colonels promoted

Following AWS officers have been selected for promotion to the temporary grade of colonel.

### SECONDARY ZONE

William C. Hodges, 9th WRWg.  
Albert J. Kaehn, Jr., 1st WWg.  
Joseph K. Lambert, 4th WWg.

### PRIMARY ZONE

Earl J. Barrows, Hq. AWS.  
William D. Brockmeyer, 6th WWg.  
Richard A. Johnston, 1st WWg.  
Foster A. Post, Hq. AWS.  
Jack C. Reedy, 9th WRWg.  
Glenn C. Reiter, Jr., 2nd WWg.  
John A. Samotis, 2nd WWg.  
William E. Smurro, Hq. AWS.



TSgt. WAYNE R. GOODMAN, Det. 52, 20th WSq., Tachikawa AB, Japan, explains the functions of the FPS-77 Antenna Control Unit to Colonel Jiro Nakayama, Commander of the Japanese Air Self Defense Force Air Weather Service, during a recent visit to the Detachment. The visit to the Intermediate Maintenance Shop was to express appreciation to the detachment's personnel for their efforts in training JASDF weather maintenance technicians in the theory and maintenance of the FPS-77 storm detection radar. A two week course was developed and taught by Sergeant Goodman, who was singled out for his outstanding efforts by his commander, Captain Alfred R. Garcia. (second from left.)

## AWS Officers off to school

SCOTT AFB, Ill. — Thirteen specially selected AWS officers will hit the books once again, starting in September. Taking advantage of the educational opportunities offered by the service are Lt. Col Albert J. Kaehn Jr., who will take a 13-month course in Oceanography at the US Naval Postgraduate School, Monterey, Calif.; Col Thomas D. Potter, who will begin a 13-week Executive Development Course in the Harvard Advanced Management School; and Major Billy L. Moore, who will take a 13-week course in Middle Management from the same school.

Selected to attend a 3-month course in Oceanography at the Naval Postgraduate School are Lt Col James R. Blankenship, Lt Col Lawrence R. Pennington, Maj. John C. Bookholdt, Maj. George W. King, Maj Robert W. Smith, Maj. Donald E. Smith, Maj. William R. Jeffries, Capt. Robert G. Peterson and Capt. Joseph A. Zak.

## ON THE skew-T AWS Global Report

Highlights of Air Weather Service people at work and play

### Andersen AFB, Guam

TSgt. Kenneth L. Jenkins is beginning another "stormy" term with the Air Force. On July 20 he was sworn in by Capt. Thomas Price, aircraft commander of Swan 41, as they circled inside the "eye" of Typhoon Lucy. The crew aboard Swan 41 were Typhoon Chasers from Guam's 54th Weather Reconnaissance Squadron.

### Ellington AFB, Texas

SSgt. Benjamin L. Coughran, forecaster, and A1C Richard A. Dunn, observer, both of Det. 28, 25th WSq., have been selected as NCO and Airman of the Quarter for their detachment.

### Heidelberg, Germany

SSgt. Charles L. Nees, Det. 11, 7th WSq., and Sgt. James M. Cash, Det. 7, have been selected as Senior and Junior Noncommissioned Officers of the Quarter for 7th Weather Squadron. SSgt. Nees is a duty observer, while Sgt. Cash is an administrative specialist.

### Fort Ritchie, Md.

SSgt. E. J. Regulus and SSgt. Richard E. Dubble were presented certificates of appreciation by Lt. Col. David A. Bush, commander, Det 29, 6th WWg., recently. The certificates were in recognition of their resourceful and devoted service to Det 29, supporting the President of the United States and the Alternate National Military Command Center.

### Andrews AFB, Md.

MSgt. Ralph E. Strickland was presented an Air Weather Service Plaque recently by AWS Commander, BGen. William H. Best Jr. Sergeant Strickland was selected as the Outstanding Air Force Administration Superintendent of the Year while assigned to the 6th WWg.

### Grissom AFB, Ind.

SSgt. Kenneth L. Sparks, Det. 26, 26 WSq., was named the distinguished graduate of MAC's 21st Air Force NCO Leadership School at Dover AFB, Del. He was also a member of the Commandant's Advisory Council and was the runner-up in the speech competition.

## CMSgt. of 2nd Wing

CMSgt  
**ROBERT E. MILLER**  
2nd WEATHER WING  
WIESBADEN AB, GERMANY

A NATIVE OF ST. LOUIS, MO.

SPENT HIS ENTIRE CAREER IN WEATHER-RELATED DUTIES. PRESENT DUTIES INCLUDE NCOIC OF CLIMATOLOGY, AEROSPACE SCIENCE DIV, 2nd WEATHER WING.

WHILE ASSIGNED TO THE SATELLITE SECTION OF ETAC, HE COLLABORATED IN DEVELOPMENT OF THE AWSTR 212 AND CO-AUTHORED A PROJECT WHICH DEVELOPED A TOTAL CLOUD-COVER CLIMATOLOGY, USING DIGITIZED SATELLITE INFORMATION.

A 1962 GRADUATE OF THE MAC NCO ACADEMY. CURRENTLY STUDYING TOWARD A DEGREE IN MATHEMATICS WITH THE UNIVERSITY OF MARYLAND.

SERVED OVERSEAS IN KOREA, JAPAN, ENGLAND AND GERMANY.  
HIS WIFE VIRGINIA AND DAUGHTER JONI RESIDE WITH HIM IN GERMANY.

THEY HAVE TWO OTHER DAUGHTERS, PRISCILLA & CHERYL, BOTH MARRIED.

# Awards and decorations

## Legion of Merit

Col. Kenneth Bixler, Hq. AWS.

## Bronze Star

Lt. Col. Joseph D. Saccone, 1st WGP.  
Maj. Peter A. Graubard, 1st WGP.  
Maj. John A. Lasley, Jr., 30th WSq.  
Maj. James R. Norton, 1st WGP.  
Capt. Joel W. Beckmann, Det. 37, 5th WSq.  
Capt. James D. Calcote, Det. 37, 5th WSq.  
Capt. Ted S. Cress, Hq. AWS.  
Capt. Jere A. Devilbiss, Det. 14, 1st WGP.  
Capt. Donald E. Ellingson, Det. 30, 10th WSq.  
Capt. George D. Greenly, Jr., Det. 14, 1st WGP.  
Capt. James E. Harris, Det. 16, 10th WSq.  
Capt. James L. Mazander, Det. 18, 30th WSq.  
Capt. Jareld L. Picantine, 10th WSq.  
Capt. Arthur T. Safford, Jr., Det. 14, 1st WGP.  
Capt. Joseph Silva, 10th WSq.  
1st Lt. David J. Mueller, Det. 23, 30th WSq.  
MSgt. John F. Avery, 10th WSq.  
TSgt. Russel D. Gibson, 30th WSq.

## Meritorious Service Medal

Lt. Col. Glenn C. Reiter, Jr., 2nd WWPg.  
Maj. William K. Houston, Hq. AWS.  
Maj. Norman R. Phares, 20th WSq.  
Maj. Evert A. Schmidt, Hq. AWS.  
Maj. David E. Smart, Det. 6, 28th WSq.  
Capt. Steve F. Stevens, AFGWC.  
MSgt. Jack R. Stone, Det. 15, 20th WSq.  
TSgt. Alfredo Santa Cruz, 56th WRSq.

## Joint Service Commendation Medal

Capt. John S. Thaeler, 1st WGP.

## Air Force Commendation Medal

Lt. Col. Keith M. Burrows, Det. 7, 9th WSq.  
Lt. Col. Thomas F. Connolly, Jr., (1st oak leaf cluster) Det. 13, 25th WSq.  
Lt. Col. Daniel L. Englander, (4th oak leaf cluster), Det. 11, 4th WWG.  
Lt. Col. Joseph C. Lach, Jr., (1st oak leaf cluster), 20th WSq.  
Lt. Col. Guenther E. Luckenbach, 1st WWG.  
Lt. Col. Douglas H. MacCallum, (1st oak leaf cluster), 6th WWG.  
Lt. Col. Walton F. Perrine, Jr., 9th WSq.  
Lt. Col. Ralph W. Thomas, (1st oak leaf cluster), Det. 8, 20th WSq.  
Lt. Col. Gilbert N. Woods, (1st oak leaf cluster), Det. 17, 20th WSq.  
Maj. Charles M. Bull, Jr., 9th WRWg.  
Maj. John F. Harmon, (2nd oak leaf cluster), 56th WRSq.  
Maj. Laurence N. Johnson, Det. 14, 1st WGP.  
Maj. John W. Maurin, Det. 1, 4th WWG.  
Maj. Norman F. Rauscher, (2nd oak leaf cluster), Det. 12, 9th WSq.  
Maj. Charles E. Roberson, (1st oak leaf cluster), 5th WWG.  
Maj. Frank J. Schmidt, Jr., (1st oak leaf cluster), 3rd WWG.  
Capt. Geoffrey E. Bangs, (1st oak leaf cluster), 7th WWG.  
Capt. Robert G. Barnicle, Det. 5, 1st WWG.  
Capt. Paul E. Braden, (1st oak leaf cluster), Det. 35, 25th WSq.  
Capt. Donald L. Best, Det. 4, 1st WWG.  
Capt. Thomas A. Carney, 56th WRSq.  
Capt. Carl H. Chesley, (1st oak leaf cluster), 2nd WWG.  
Capt. Barry C. Evans, Hq. AWS.  
Capt. Patrick J. Fiscus, 7th WWG.  
Capt. Franklin R. Hartranft, 4th WWG.  
Capt. Douglas R. Kibby, Det. 22, 30th WSq.  
Capt. William D. Klein, Det. 14, 28th WSq.  
Capt. Shirley J. Ledbetter, 10th WSq.  
Capt. William C. Ledbetter, Det. 15, 10th WSq.

Capt. Arthur P. Livingston, 54th WRSq.  
Capt. Manuel Love, (1st oak leaf cluster), Det. 31, 6th WWG.  
Capt. Frank J. Luna, Jr., 6th WWG.  
Capt. William F. McCullough, 4th WWG.  
Capt. Eric A. Meindl, Det. 30, 10th WSq.  
Capt. Roy C. Moore, 11th WSq.  
Capt. James M. Morgan, Jr., OL E, 5th WSq.  
Capt. Robert A. Nobbs, (1st oak leaf cluster), 55th WRSq.  
Capt. Patrick J. O'Reilly, (2nd oak leaf cluster), ETAC.  
Capt. Don H. Owen, 54th WRSq.  
Capt. David J. Paul, Det. 7, 17th WSq.  
Capt. John W. Pavone, Jr., 55th WRSq.  
Capt. Gary M. Priest, (1st oak leaf cluster), 9th WRWg.  
Capt. James S. Sorp, AFGWC.  
Capt. Ilko P. Shulhan, Det. 30, 10th WSq.  
Capt. Wilbur M. L. Spangler, AFGWC.  
Capt. John M. Stitt, 6th WWG.  
Capt. Allen L. Tremoulet, Hq. AWS.  
Capt. Robert J. Wasilewski, 26th WSq.  
Capt. Gary G. Welch, 6th WWG.  
1st Lt. William O. Eisenhood, Det. 23, 6th WWG.  
1st Lt. William R. Johnson, Det. 31, 3rd WSq.  
1st Lt. Paul B. Mullins, 3rd WSq.  
1st Lt. Dennis L. Smith, Det. 39, 7th WWG.  
1st Lt. Michael A. Sotak, Det. 2, 5th WWG.  
1st Lt. John V. St. Onge, Jr., Det. 7, 26th WSq.  
1st Lt. David C. Trask, Det. 13, 16th WSq.  
2nd Lt. Milton F. Capps, 7th WWG.  
CWO. Willard T. Martin, Det. 21, 31st WSq.  
CWO. James L. McClaren, Det. 21, 31st WSq.  
CWO. Marion E. Waldorf, AFGWC.  
CMSgt. Emidie J. Mazzeola, (1st oak leaf cluster), 7th WWG.  
CMSgt. Charlie M. Tate, ETAC.  
SMSgt. Allan F. Baker, (1st oak leaf cluster), Det. 19, 15th WSq.  
SMSgt. John T. Cherry, (1st oak leaf cluster), 7th WSq.  
SMSgt. Robert P. Fry, (3rd oak leaf cluster), AFGWC.  
SMSgt. Joseph C. Kubala, 30th WSq.  
SMSgt. Wilson H. McMillan, Det. 3, 17th WSq.  
SMSgt. Clifford E. Peterson, 20th WSq.  
SMSgt. John M. Schaecher, (1st oak leaf cluster), OL-E, Hq. AWS.  
SMSgt. Robert J. Smith, (1st oak leaf cluster), Det. 5, 9th WRWg.  
SMSgt. Ronald J. Staples, Det. 5, 9th WRWg.  
SMSgt. Michael F. Tackett, (1st oak leaf cluster), Det. 2, 5th WWG.  
SMSgt. Gilbert E. Weisser, (1st oak leaf cluster), Det. 31, 6th WWG.  
SMSgt. Jack G. Williamson, (2nd oak leaf cluster), Det. 39, 7th WWG.  
MSgt. Donald C. Amundson, 56th WRSq.  
MSgt. Milford N. Barrington, (1st oak leaf cluster), Det. 38, 7th WWG.  
MSgt. Lyle A. Becht, (1st oak leaf cluster), 54th WRSq.  
MSgt. Vincente S. Benavente, (2nd oak leaf cluster), 3rd WWG.  
MSgt. Daniel D. Boatright, (1st oak leaf cluster), 9th WRWg.  
MSgt. Gerald R. Conger, (2nd oak leaf cluster), 55th WRSq.  
MSgt. Edward P. Dunham, Det. 48, 4th WWG.  
MSgt. Roger A. Florea, (TDY project Cold Cowl, Alaska).  
MSgt. William E. Flowers, OL-C, 2nd WWG.  
MSgt. George W. Gregoire, (1st oak leaf cluster), Det. 6, 17th WSq.  
MSgt. Oscar H. Haertling, Det. 23, 30th WSq.  
MSgt. Darold W. Hall, (1st oak leaf cluster), Det. 2, 4th WWG.  
MSgt. Brandon L. Hopper, (1st oak leaf cluster), 55th WRSq.  
MSgt. Dennis C. Johnson, Jr., (1st oak leaf cluster), Det. 21, 24th WSq.

MSgt. Donald R. Jones, Det. 25, 10th WSq.  
MSgt. Amos R. Krause, Det. 3, 17th WSq.  
MSgt. Richard L. Lampton, Det. 9, 30th WSq.  
MSgt. Billy J. Lewis, (1st oak leaf cluster), Hq. AWS.  
MSgt. Joseph A. Madden, (1st oak leaf cluster), 9th WRWg.  
MSgt. Roger L. Manseau, 58th WRSq.  
MSgt. Wesley C. Medlin, (1st oak leaf cluster), AFGWC.  
MSgt. Arthur O. Moreau, Det. 30, 10th WSq.  
MSgt. David R. Myles, (1st oak leaf cluster), 9th WRWg.  
MSgt. Edward D. Peyton, Det. 5, 9th WRWg.  
MSgt. James W. Pullian, Jr., 54th WRSq.  
MSgt. Kenneth R. Rainey, (2nd oak leaf cluster), Det. 10, 4th WWG.  
MSgt. Kurt H. Rauh, (1st oak leaf cluster), AFGWC.  
MSgt. Norman J. Richard, 55th WRSq.  
MSgt. Peter G. Salyards, (1st oak leaf cluster), 5th WWG.  
MSgt. Terrence L. Soden, (1st oak leaf cluster), Det. 13, 20th WSq.  
MSgt. Carl L. Tibbens, (1st oak leaf cluster), 56th WRSq.  
MSgt. Ivan G. Waddle, 54th WRSq.  
MSgt. Eugene M. Weber, Det. 7, 17th WSq.  
TSgt. Joe A. A. Austin, Det. 20, 24th WSq.  
TSgt. Charles C. Baker, (1st oak leaf cluster), Hq. AWS.  
TSgt. Lucius N. Bennett, Det. 6, 17th WSq.  
TSgt. Robert W. Booth, Det. 11, 6th WWG.  
TSgt. Bruce C. Brattlof, AFGWC.  
TSgt. Clarence C. Chamberlain, (2nd oak leaf cluster), Hq. AWS.  
TSgt. Robert W. Curran, OL-E, 5th WSq.  
TSgt. Kenneth R. Crawford, AFGWC.  
TSgt. Jack W. Crump, Hq. AWS.  
TSgt. Alfredo Santa Cruz, (1st oak leaf cluster), 56th WRSq.  
TSgt. David W. Dean, (1st oak leaf cluster), Det. 35, 25th WSq.  
TSgt. Charles V. Denius, Jr., Det. 2, 5th WWG.  
TSgt. Richard M. Dudley, (1st oak leaf cluster), Det. 13, 20th WSq.  
TSgt. Claiborne Dukes, Jr., Det. 14, 1st WGP.  
TSgt. Tolono U. Elliott, Det. 16, 10th WSq.  
TSgt. Harley M. Freed, Jr., (1st oak leaf cluster), 4th WWG.  
TSgt. Lawrence H. Furlong, Det. 28, 26th WSq.  
TSgt. Thomas J. Gallagher, Det. 33, 3rd WSq.  
TSgt. Darryl G. Grace, ETAC.  
TSgt. Gary E. Greene, Det. 35, 7th WWG.

(continued on page 8)

# Remember "The good old days"

By Capt. George T. Matteson  
Joint Staff Weather Officer, MACV

TON SON NHUT AB, Vietnam — Nostalgia. That's the in thing these days. Music from the 30s and 40s. The Lone Ranger. Fred Allen walking down "Allen's Alley." A 1910 Sears and Roebuck catalog. All things which remind us of the "good old days."

Remember the good old days in the Weather Service? The ceilometer was a new and wondrous machine. Ceilings were measured with a ceiling balloon, and, at night, you broke out the trusty "beer bottle" (clinometer). Some of us found out the hard way why the doors on the hydrogen shelter opened outward — never inward — in the good old days.

Then there was the fax machine that took four hands to get the paper on straight. And forecasters even drew some lines on charts all by themselves back in the good old days.

Ah, yes! Things have changed a little since the good old days. And yet, there are some things that are much the same. Weather service, for example. One of the things that we were taught back then was that service was not just the name of the organization, but it was also the name of the game. Then, as now, the words "weather" and "service" stood side by side on our letterheads. The hydrogen shelter is gone; the computer draws most of the forecaster's lines today; the observer reads dials in the Representative Observation Site, instead of chipping ice off the instrument shelter; but one thing remains the same. Weather service is still the name of the game.

What is good weather service? A good observation? Up-to-date equipment? Trained, sharp people? Technical expertise? We've got all of these things today, but something that sometimes seems to be sadly lacking is the service. Why?

More nostalgia. As a boy, we worked after school in Grandpa's hardware store, an old, small-town hardware store that had an old, small-town hardware store smell about it. It was the smell of old wooden floors that were oiled to keep the dust down, nails in kegs,

horseshoes in bins (with nails for the same), leather harnesses and saddles, rolls and rolls of rope. And there were things to be learned, as well as smelled in that old hardware store.

"Son, there's two things that you've got to know to stay alive in the hardware business. One, you've got to know hardware. But, every bit as important, you've got to know your customers. Who they are, what they do — everything you can know about them. You serve people by having a good product, and by knowing both what the customer wants and what he needs. They aren't always the same thing."

In Grandpa's day, having a good product was only half the game. In today's weather service, it's still only half the game. The best forecast in the world is no good if the customer doesn't get it, doesn't understand it, doesn't believe it, or doesn't want it. To give good service, you still have to know the customer and sell him on the product. A good weather forecast is not, in itself, good weather service.

How do you get to know the customer? Just like you did in Grandpa's day. There is no substitute for personal contact. You find out everything you can about him. What he likes and what he doesn't like. What he knows and what he doesn't know. What his job is, and where your "hardware" fits into his operation. You don't sell him a screw when he needs a bolt, a rip saw when he needs a crosscut, paint when he needs varnish.

But you have to find out about him. If you wait for him to come to you, it may be too late.

Selling the product. "Son, if you're ever going to sell anything, you've first got to know the product and believe in its worth. Then, if you know the customer, it's easy to get him to believe in it. But, if you can't sell yourself on the goods, you'll never sell them to the customer!"

Having a good product is necessary, but not enough. You have to give the customer what he needs and sell him on both the need and the product. That's the way you sell hardware. That's the way you sell weather service.

Yes, things have changed a lot since the good old days; but the rules of the game still call for a good product and knowledge of both what the customer wants and needs. Then you're ready to sell the product — hardware or weather service.

Weather and service, now as always, stand side by side on our letterhead. We know you know a lot about the weather — we have a good product — but, how's your service been lately?

Hq. AWS — Military Airlift Command safety officials recently cited five Air Weather Service aircrew members for their safe flying achievements.

Lapel pins and patches signifying 5,000 hours of accident-free flying went to Col. Hubert E. Harvey, 1st Weather Wing; Lt. Col. Jack A. Kimball, 53rd WRSq; Maj. Richard L. Stoner, Hq. AWS; Capt. Arnold R. Moon, 56th WRSq; and TSgt. Roger A. Johnson, 56th WRSq.



SGT. DANIEL B. GIBSON, NCOIC of weather maintenance at OL-A, Det. 16, 16th Weather Squadron, Fort Leonard Wood, Mo., takes his reenlistment oath from his hospital bed at General Leonard Wood Hospital. Gibson, with eight years' service, was hospitalized with a collapsed lung the day before he was due to reenlist.

## Norton NCO promotes boxing at Thule AB

Norton AFB, Ca.—MSgt Anthony (Tony) H. Scott, a weather forecaster in Det 3, 17 WSq, has the distinction of promoting a professional boxing exhibition at Thule AB, Greenland, the closest to the North Pole that a professional bout has ever been held.

Sergeant Scott was stationed at Thule as a forecaster in Det 48, 11WSq, in February 1970 when he arranged a bout between an American middleweight contender and Tom Bogs of Denmark, the European middleweight champion. In April 1970 the bout was scheduled and Tom Bogs arrived at Thule.

At the last minute, due to transportation difficulties, the American contender was unable to make the journey, so Scott took to the ring himself in the match with Bogs. The bout was cheered by US and Danish servicemen stationed at Thule, even though Bogs got the better end of the fight.

Scott, a 47-year-old Philadelphia native, has been associated with boxing since 1939. In 1939 he joined the Canadian Army, where he became a tank commander and boxed in numerous matches in the Canadian Armed Forces.

Scott has since remained active in the boxing field. He has participated in over 100 bouts as a lightweight, welterweight and middleweight. He is a personal friend of Jerry Quarry, a current contender, and is acquaint-



MSGT TONY SCOTT prepares to defend himself as Tom Bogs, European middleweight boxing champion prepares to let go with a right cross to the jaw. Scott and Bogs put on a boxing match for American and Danish airmen stationed at Thule AB, Greenland.

(US Air Force Photo)

ed with several promoters of both amateur and professional boxing bouts. He has instructed many servicemen and young men in boxing.

Says Scott, "Often a fighter

will donate his time to go to a foreign country to stage an exhibition for servicemen. Most boxers are dedicated and patriotic and enjoy doing something for the military members."

## More awards

### Commendation Medal

TSgt. Louis D. Hammelt, (1st oak leaf cluster), Det. 5, 1st WWg.  
 TSgt. Raymond R. Harris, (1st oak leaf cluster), 53rd WRSq.  
 TSgt. Clarence W. Harrison, 56th WRSq.  
 TSgt. Henry F. Hawkins, Det. 11, 5th WSq.  
 TSgt. Eddie Hrabal, Jr., Det. 14, 26th WSq.  
 TSgt. Lynwood James, 7th WSq.  
 TSgt. Joseph P. Kerwin, 6th WSq.  
 TSgt. John W. Kosick, 54th WRSq.  
 TSgt. Robert Mendell, Det. 16, 10th WSq.  
 TSgt. Roger A. Poppert, (1st oak leaf cluster), Det. 34, 26th WSq.  
 TSgt. Garth A. Price, (2nd oak leaf cluster), 26th WSq.  
 TSgt. Robert G. Radford, 56th WRSq.  
 TSgt. William K. Ryder, (1st oak leaf cluster), AFGWC.  
 TSgt. Loyd N. Simeroth, Det. 31, 6th WWg.  
 TSgt. Richard Stern, (3rd oak leaf cluster), Hq. AWS.  
 TSgt. Jamees L. Tate, 55th WRSq.  
 TSgt. Aleen C. Thibedeau, 54th WRSq.  
 TSgt. Albert J. Wheeler, (1st oak leaf cluster), 55th WRSq.  
 TSgt. Kenneth R. Wolfe, (1st oak leaf cluster), 54th WRSq.  
 TSgt. Roy J. Worstell, 6th WSq.  
 TSgt. Roy G. Will, (1st oak leaf cluster), Det. 2, 31st WSq.  
 SSgt. Charles E. Arnold, Det. 30, 10th WSq.  
 SSgt. Geoff D. Bowles, (1st oak leaf cluster), Det. 8, 20th WSq.  
 SSgt. James R. Brandon, Det. 17, 10th WSq.  
 SSgt. Gary S. Butts, Det. 40, 7th WWg.  
 SSgt. Joseph A. Byrnes, Jr., ETAC.  
 SSgt. Dennis D. Calhoun, Det. 4, 16th WSq.  
 SSgt. Larry L. Calhoun, Det. 14, 1st WWg.  
 SSgt. Daniel R. Donahue, 1st WSq.  
 SSgt. James B. Freeman, Det. 14,

31st WSq.  
 SSgt. Ronald L. Galy, Det. 23, 30th WSq.  
 SSgt. Donald D. Goeke, 55th WRSq.  
 SSgt. Edward J. Gorski, (2nd oak leaf cluster), Det. 31, 6th WWg.  
 SSgt. Terry W. Green, Det. 14, 1st WWg.  
 SSgt. Dwight T. E. Hamm, Det. 48, 4th WWg.  
 SSgt. Jackie L. Hauther, (1st oak leaf cluster), Det. 35, 7th WWg.  
 SSgt. Claire C. Hill, Det. 23, 30th WSq.  
 SSgt. Thomas J. Hondel, Det. 17, 10th WSq.  
 SSgt. Isaac L. Jones, Det. 25, 6th WWg.  
 SSgt. William G. Kettering, Det. 22, 30th WSq.  
 SSgt. Douglas D. Kraus, Det. 15, 10th WSq.  
 SSgt. Paul D. Labarre, 53rd WRSq.  
 SSgt. Willard J. M. Lacy, 58th WRSq.  
 SSgt. Harold A. Lofton, 10th WSq.  
 SSgt. Joseph M. Malloy, Det. 48, 4th WWg.  
 SSgt. Gordon R. MacMillan, Det. 32, 5th WSq.  
 SSgt. Harold J. Maille, Det. 16, 10th WSq.  
 SSgt. Kenneth E. Martin, Det. 33, 26th WSq.  
 SSgt. Curtis May, 9th WRWg.  
 SSgt. William E. Mayfield, Det. 31, 6th WWg.  
 SSgt. Franklin A. McBlain, (1st oak leaf cluster), 54th WRSq.  
 SSgt. Charles H. Merkison, Det. 11, 5th WSq.  
 SSgt. Russell T. Merrbaugh, 6th WWg.  
 SSgt. James G. Nyberg, Det. 16, 10th WSq.  
 SSgt. William V. Reed, ARGWC.  
 SSgt. Angel L. Samo, 3rd WWg.  
 SSgt. Evelio O. Sibila, Det. 20, 24th WSq.  
 SSgt. David C. Smith, 54th WRSq.  
 SSgt. Larry A. Swanson, (2nd oak leaf cluster), Det. 31, 6th WWg.  
 SSgt. Mathew A. Tourtillott, 57th WRSq.  
 SSgt. Eddie W. Trammell, Det. 23, 30th WSq.

SSgt. Doyle L. Wilson, 7th WWg.  
 SSgt. Jewel F. Wilson, AFGWC.  
 SSgt. Eugene F. Wenzel, AFGWC.  
 Sgt. Robert W. Belts, Det. 25, 10th WWg.  
 Sgt. Robert S. Bowers, Det. 39, 7th WWg.  
 Sgt. Louella J. Fox, Hq. AWS.  
 Sgt. George Frew, Det. 9, 30th WSq.  
 Sgt. Carl D. Hillstrom, Det. 48, 4th WWg.  
 Sgt. Scott E. Hirt, Det. 37, 5th WSq.  
 Sgt. Robert N. Jones, Det. 30, 10th WSq.  
 Sgt. Dennis P. Keane, Hq. AWS.  
 Sgt. John E. Ladd, Det. 9, 30th WSq.  
 Sgt. John F. Magee, (1st oak leaf cluster), Hq. AWS.  
 Sgt. Robert M. Malanche, Det. 11, 5th WSq.  
 Sgt. Jeffery D. Montgomery, Det. 14, 1st WWg.  
 Sgt. Kenneth R. Nelson, 1st WWg.  
 Sgt. Richard L. Pendleton, Det. 14, 1st WWg.  
 Sgt. Jerry D. Prewett, Det. 30, 10th WSq.  
 Sgt. David Rabby, Det. 32, 5th WSq.  
 Sgt. Peter J. Radziewich, Det. 15, 10th WSq.  
 Sgt. William G. Ragsdale, Hq. AWS.  
 Sgt. Abel Salazar, Det. 31, 6th WWg.  
 Sgt. Stephen L. Schild, Det. 14, 1st WWg.  
 Sgt. Mervyn L. Screeton, Jr., Det. 48, 4th WWg.  
 Sgt. John J. Suhar, Det. 11, 5th WSq.  
 Sgt. Mark T. Tully, Det. 37, 5th WSq.  
 Sgt. Harold N. Voake, Jr., Det. 10, 5th WSq.  
 Sgt. Alan B. Walker, Det. 23, 30th WSq.  
 Sgt. Ronald C. Waters, 10th WSq.  
 Sgt. James D. White, Det. 14, 1st WWg.

### Gold Pride Award

SSgt. Larry Beaver, Det. 6, 4th WWg.

### Blue Pride Award

Det. 19, 15th WSq.

## SPORTS

### FRONT



### Bowling

MANILA, R. P.—The Manila Observatory bowling team, OL E, 1st WWg, Manila, R.P., captured second place in the recent Greater Manila US Government Employees Bowling League.

After leading for most of the first half of the 8-month-long league, the team finally slipped to second place only after illness forced MSgt Danny L. Flowers to the sidelines.

CMSgt Carl K. Clay was the top gun with an average of 174.

Team members included Charlie Hager, Team Captain, Carl Clay, Al Ramsey, Mac MacDonald, Danny Flowers, Chuck Yates, and Andy Wisdom.

### Golf

Major Allan C. Ramsay, OIC, OL E, 1WWg, won the "Best JUSMAG Golfer" award during the Foreign Forces Attaches' Golf Tournament held during May at Fort Aguinaldo, Manila, R. P.

After a little trouble on the 14th hole, Al went on to shoot an 86 in the near-100-degree temperature.

### Softball

LORING AFB, Me.—Det 4, 26WSq, walked away with all the marbles during the Loring slow-pitch softball season. Marked underdogs for the pre-season tournament, they soundly defeated three teams on their way to the championship, defeating CE 12-1 in the final game.

During regular play, Det 4 compiled an 11-5 won-lost record, good for a third-place finish and a spot in the base slow-pitch championship tournament. Third seeded, Det 4 eliminated three teams by scores of 13-8, 8-6 and 19-8 to go into the championship series undefeated. Rapping out 32 hits while defeating CE 19-8 in a semi-final game, Det 4 lost its touch while being soundly defeated by CE 11-6 in the first game of the championship. A repeat looked inevitable in the second game until the sixth inning. Down 6-2, Det 4 scored two runs, held CE hitless in the bottom of the inning, and scored four big runs in the seventh to take the lead. Key defensive maneuvers enabled Det 4 to hold CE to one run in the bottom of the seventh, getting the last out with the bases loaded for an 8-7 victory.

Three members of the Det 4 team were selected to play for the slow-pitch All-Star team, Capt John Rogerson, SSgt Charles W. R. Peterson and A1C Gerald R. Middlesworth.

### More Softball

Detachment 7, 31 Weather Squadron, received a trophy for second place in the recent Aviano AB, Italy, Recreational Softball Tournament playoff. Team members were Maj. Tom Howshar, Capt. Tow Andrew, Capt. Art Carrizales, TSgt. Bob Zacharias, TSgt. Frank Legg, SSgt. Lafe Drumm, SSgt. Al Mayo, Sgt. Joe Tiano, Sgt. Lou Sena, Sgt. Rick Sickmiller, Sgt. John Pesta and Sgt. Ron Stacy.

### Sports Achievements

Sgt. Gerry Buurma Jr. Det. 29, 6th Wea Wg, Ft Ritchie, Md. was selected to play on the fast-pitch softball team representing Ft Ritchie. He was the catcher on the first team and contributed to the success of the team in exhibition and pre-tournament games.

During the week of Aug 9-13 Ft Ritchie played in 1st US Army area tournament. Sgt Buurma's .300 batting average, including a home run and double, plus flawless fielding aided Ft Ritchie to place third among 16 teams from Army installations throughout the Middle Atlantic States.

### Also Basketball

During the basketball season last winter Gerry swished the nets for nearly 30 points per game while playing for the Alternate National Military Command Center team.

In these sports Sgt Buurma played and against members from all of the services. This is a point for interservice rapport and he earns credit for enhancing the image of the detachment and the Air Force.