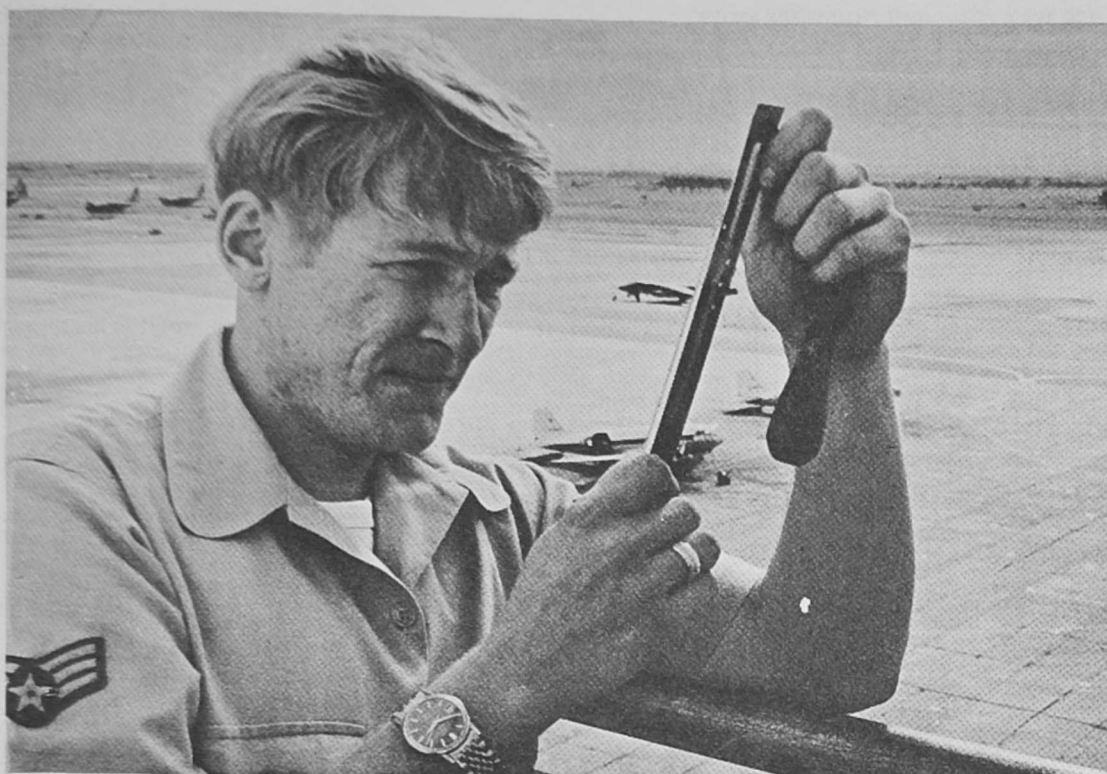




AT THE representative observation site of Detachment 5, 1st Weather Wing, Clark AB, Philippines, Sgt. Donald L. Reinke, a weather observer takes a wet-bulb temperature to compute relative humidity of the air. Information

obtained mechanically and visually at the site is relayed at least once an hour to all flying operations sections at Clark AB as well as to the control tower, base weather station and the radar approach control site. (U.S. Air Force photo)

Houston school, AWS teaching meteorology to the disadvantaged

Hq. AWS -- Air Weather Service along with Texas Southern University and the University of St. Thomas, both in Houston, have initiated a project to train meteorologists through a program known as the Scientific Involvement by Occupational Guidance Experiment (SIOGE).

Training Disadvantaged

The program is designed to train the economically and culturally disadvantaged for one year through part time classroom study at the Institute for Storm Research Inc., of the University of St. Thomas and through actual work at the institute, which does weather research for the government.

Classes begin at four month intervals. AWS assistance has been requested for the first 30 days of each new class.

Weather Men Involved

Military weathermen participating in the first class, held during July and August, were MSgt. Rudy A. Villarreal, SSgt. Richard L. Kamp and Sgt. Preston Moore Jr., all of the 6th Weather Squadron (Mobile), Tinker AFB, Okla.

The three weather technicians deployed to the Texas school with a mobile rawinsonde station and conducted on-the-

jog training as well as classroom instruction.

Twenty - four rawinsonde releases were made during the course, giving each student an opportunity to record and correlate the information received for study. Purpose of the rawinsonde portion of the training was to introduce the meteorology students to information on upper air through basic measurements.

AWS Praised

St. Thomas school officials were highly pleased with the support given them by the military weathermen. In a letter to Col. Mortimer F. Bennet, Director of Operational Requirements, Hq. AWS, the associate director of research for the school, Joseph L. Goldman, said, "The personal and sincere interest in our students shown by Sergeant Villarreal and his staff will never be forgotten by our students. Our entire staff were inspired and deeply gratified at this true expression of concern."

"Sergeant Villarreal very obligingly modified his training format to coincide with our purposes and did it so expertly that we will use this revised format in future programs of this type."

AIR WEATHER SERVICE

OBSERVER

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Headquarters, Air Weather Service, Scott AFB, Illinois

September 1970

Sixth wing sergeant gets command nod for administration superintendent award

Hq. AWS -- MSgt. Ralph E. Strickland, 6th Weather Wing, Andrews AFB, Md., has been nominated by Headquarters Air Weather Service personnel officials as the AWS nominee for the Outstanding Air Force Administration Superintendent Award for 1970.

He was selected for this honor for his outstanding duty performance within the 6th WWG. The recommendation cited Strickland for his diligence, proficiency, and extraordinary supervisory abilities that he displayed as administrative sergeant major.

During the period of the award, July 1, 1969 through June 20, 1970, Sergeant Strickland guided the 6th Wing through the conversion from a Military Airlift Command and AWS publications distribution customer to a publications distribution office (PDO). Under Strickland's direction the wing emerged as a PDO, with all required records and back up stock in minimal time.

In nominating him, his commander stated: "Sergeant Strickland has done an outstanding job within the wing not only as the administrative chief but as first sergeant of the headquarters squadron section. His knowledge of administration aided immeasurably in his ability to solve problems and eliminate administrative deviations within the 50 offices of record within the wing and its subordinate units."

He was further cited for his implementation of new administrative practices directed by higher headquarter directives.

This was accomplished during periods of critical manning in all of the wing units, requiring staff visits to subordinate units to assist them in implementing the new policies and procedures.



MISS MILITARY VOTER - 1970, Sgt. Beverly Jean Kilby from the office of the Secretary of Defense, recently visited Scott AFB, Ill. to publicize Armed Forces Voters Day, Sept. 25. During her visit, she and the base's September Airman of the Month, A1C Joseph R. Russell, Hq. Air Weather Service, were honored at a luncheon in the base dining hall. (U. S. Air Force photo)

AMS cracks membership door, non-college grads can join

BOSTON, Mass.--The American Meteorological Society (AMS) has relaxed some of its requirements for professional membership into this worldwide weather organization for 1970.

Disclosure of the relaxed pol-

icy was made at the 50th annual business meeting of the AMS in Boston, when it was announced that the general membership had approved an amendment to the constitution to liberalize membership requirements.

The amendment allows the membership council to waive the requirement of a degree from an institution of higher learning for election as a professional member. As a substitute for a degree, an applicant may offer a record of more than 18 years of professional service in meteorology consistent with the objectives of the Society.

The Society's action commemorates the observance of the Golden Anniversary of the American Meteorological Society and the Centennial of U.S. Weather Services. Only those applications received during 1970 may be considered under the terms of the amendment.

Provisions of the amendment apply both to individuals who are presently associate members of the AMS, heretofore ineligible for professional membership, and to nonmembers.

Those individuals desiring possible membership consideration should apply for application forms from the AMS, 45 Beacon Street, Boston, Mass., 02108.

Numeric Ols receive alpha designations

HQ. AWS -- Effective Sept. 1, 1970 the numeric designations of all 134 operating locations under Air Weather Service control were changed to alpha designations.

This action resulted from a request from the Military Personnel Center, Randolph AFB, Tex., to standardize the various coding techniques used by major air commands to identify operating locations in the personnel accounting system and the manpower allocation and accounting system.

Military Airlift Command special orders G-222 through 228, dated Aug. 4, 1970, contain complete redesignation listing.

A ballot for every weatherman

Marking the absentee ballot is a personal and secret affair. No personal desires will be made or implied to any member of the U. S. Armed Forces nor will any kind of pressure be used to help them make up his mind in voting for candidates.

Orientation discussions and assistance in getting individuals to vote in the 1970 General Election will be limited to the Armed Forces voting program and the absentee voting process.

The average man in the U.S. Armed Forces is exposed to enormous amounts of information

pertaining to the various political parties, candidates and party and individual platforms through hometown newspapers, news magazines, radio and television programs, debates and literature from candidates. This is where the serviceman gets the information to make up his own mind for whom he will cast his own vote.

The absentee ballot is your democratic way of voicing your opinion and choosing the people to run your government. As a citizen, it is vital that you take an active part and personal interest in electing the best qualified leaders for our country.

Long time recon pilot is new AWS vice commander

Hq. AWS -- Col. Thomas A. Aldrich has become vice commander of Air Weather Service, replacing Brig. Gen. William H. Best Jr., who has assumed command of the worldwide weather service.

Colonel Aldrich, a native of San Angelo, Tex., was commander of the 9th Weather Reconnaissance Wing, McClellan AFB, Calif., prior to his current assignment.

Upon graduation from the Institute of Meteorology at the University of Chicago in 1944 he received a commission in the Army Air Corps as a weather officer. Since then he has served more than 21 years with AWS in a wide variety of weather duties, from detachment level to AWS headquarters.

A command pilot with more than 7,500 flying hours, the colonel has flown more than 50 polar ice cap missions in WB-29 aircraft.

In 1962 Colonel Aldrich was sent to Australia, where he commanded the first Air Force flying unit in the "land down under" since World War II, the 57th Weather Reconnaissance Squadron. During this three-year tour, he also served

as theater commander to all Air Force military units in Australia.

On leaving Australia, Colonel Aldrich was assigned to the faculty of the Air Command and Staff College (ACSC), Maxwell AFB, Ala., where he served as deputy director of curriculum from 1965 to 1968. He has been a frequent lecturer at senior military schools throughout the U.S., England and Australia.

The colonel received an assignment in 1968 to Headquarters Military Airlift Command, Scott AFB, Ill., as Director of War Plans. He assumed command of the 9th WRWg in 1969.

An avid hunter and sports enthusiast, Colonel Aldrich is a graduate of ACSC and the Air War College, Maxwell AFB. He has a bachelor of arts degree in mathematics and a master of science degree in business administration from George Washington University, Washington D.C.

Married to the former Virginia Peterson of Alta, Iowa, the Aldriches have three children, Mrs. Bradford Leonard, 24; Pamela, 21; and Tom, 18.

AWS vice commander

Hurricane hunter film clip sent to 518 TV stations

HQ. AWS -- A television film clip on the USAF Hurricane Hunters -- the 53d Weather Reconnaissance Squadron -- has been distributed to more than 500 television stations by Air Force headquarters.

Produced by Aerospace Audio Visual Service, in cooperation with USAF, MAC and AWS information offices, the color film is 66 seconds long with natural sound effects on the film. A suggested script is included for use by the local announcer.

Depicting the vital mission of AWS in facilitating advance warnings of hurricanes, the clip was mailed in late July to 472 local TV stations in the US and 46 overseas. AWS Information officials suggest that local AWS units who have not seen the film telecast on their local weathercaster to alert him to the film.

Bond interest rate increased

WASHINGTON (AFNS) - Interest on U.S. Savings Bonds has been increased from 5 to 5 1/2 per cent -- if the bonds are held to maturity.

The increase, signed into law by President Nixon, is retro-

active to June 1, 1970.

For the purchaser of a new, regular Series E bond, bought through payroll savings plans for \$75, the return after the 5-year, 10-month maturity period will rise from the current \$100 to \$102.92. If the bond is redeemed before the end of the maturity period, however, the saver receives only the current, lower rate of interest.

The extra "bonus" interest payment, Treasury officials said, is aimed at encouraging savers to maintain their Government bonds rather than cashing them in.

Four of five airmen should make sergeant

WASHINGTON (AFNS) - Promotion opportunity has been set at almost 80 per cent for some 41,500 airmen eligible for sergeant in the six-month cycle beginning Oct. 1.

Air Force reported there were 38,607 eligible airmen considered for 30,209 boosts to sergeant in the "best qualified" category. At the same time, major commands were given authority to promote all 2,952 "fully qualified" eligibles. The latter are those airmen first class who have completed a minimum 40 months' active duty.

The promotions will be effected in the first six-month cycle for sergeants under the weighted airman promotion system. Promotions for 11,173 new sergeants on Sept. 1 exhausted the first four-month cycle under WAPS.

Establishment of the six-month cycle for sergeants is part of the overall WAPS plan for one promotion cycle every other month.

Obligation of citizenship

Most of us are pretty familiar with our "rights." The right to vote, to free speech, free press and of peaceful assembly. The right to the pursuit of happiness. We have all learned these from childhood.

But these "rights" entail an obligation--an obligation to the principles of citizenship. And we occasionally forget that obligation.

Freedom--Privilege or Obligation?

Think about it. There are obligations to vote, to honor and defend your country, to work toward her improvement and to understand, protect and conserve the principles on which she was founded.

Your thoughts on "Freedom--Privilege or Obligation," theme for Freedoms Foundation's Armed Forces Letters Awards Program this year, can earn you as much as \$1,000 for a 100- to 500-word entry.

America needs concerned citizens. It takes more than writing a letter to qualify for that title. But expressing yourself will make you more aware of your obligation. Putting your thoughts in writing also may make others more aware. (AFNS)

Crossbow business netting Montagnards large income

PLEIKU AB, Republic of Vietnam -- At most Air Force weather stations the question asked most frequently across the forecast counter is "What's the weather?" At Pleiku AB, it is apt to be "Do you have any crossbows for sale?"

The crossbow and Montagnard handicraft salesroom, operated by Detachment 5, 30th Weather Squadron personnel has become one of the best known souvenir stores in the Republic of Vietnam.

The sales area, established early in 1967, provides an outlet through which the local Montagnards can sell their many and varied artifacts, including handwoven skirts,

vests, loin cloths, knives, spears, arrows, mousetraps and musical instruments.

Both the weather station and the salesroom are located in the base operations building, right next to the passenger terminal -- an ideal place for catching most of the people who pass through Pleiku. The store is operated around the clock by detachment members who are aided by Montagnard women.

The shop's total sales average better than \$4,000 per month, with all of the profits turned over to the Montagnards. The remaining money is channeled back into the store to buy more crossbows and other stocked items. Store profits are used by the Montagnards to pay the salaries of school teachers, buy building supplies and help meet other needs of the villagers. Recently, three rice mills were purchased with money saved from the profits of the last three years.

Between 800 and 1,000 crossbows, plus large numbers of other items are sold every month. To keep the store fully stocked, base personnel make weekly visits to nearby villages to purchase needed store items.

These visits have not only provided money for the villagers but also serve as an excellent means to promote a better understanding between the Montagnards and Americans.

THOMAS A. ALDRICH
VICE COMMANDER
AIR WEATHER SERVICE
SCOTT AFB, ILL.

RECEIVED A BACHELOR OF ARTS DEGREE IN MATHEMATICS AND A MASTER OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION FROM GEORGE WASHINGTON UNIV. ENLISTED IN THE ARMY AIR CORPS IN 1942.

Flew more than 50 missions over the polar ice cap in WB-29's

Was deputy director of curriculum at the Air Command and Staff College, Maxwell AFB, Ala., from 1965 through 1968.

Served as director of war plans, military airlift command from 1968 through 1969.

A command pilot, he has more than 7,500 flying hours.

Was 9th Weather Reconnaissance Wing commander prior to his current assignment.

The Aldrichs have three children, Mrs. Sharon Leonard, 24; Pamela, 20; and Tom, 17.

He enjoys hunting and auto races.



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BRIG. GEN. WILLIAM H. BEST JR.

Commander, Air Weather Service

CAPT. TERRENCE MAYER, Director of Information

LT. RAY A. CROCKETT, Managing Editor

SSGT. GENE GOLDSMITH, Editor

AWS identifies 236 assignment vacancies for short-tour people

Hq. AWS -- Are you scheduled for reassignment from overseas next year? If so, would you like to know what chance you have for a consecutive overseas tour? If you answered yes to both of the above questions, then the AWS Overseas Vacancies List is just the thing for you.

The list gives an account of where scheduled openings are, grade required, career field needed and the number of openings. All vacancies are for July, August and September 1971.

Of the 236 vacancies on the list, 145 are for Germany, Japan or the United Kingdom. The other 91 openings are for Alaska, Azores, Greece, Guam, Hawaii, Italy, Puerto Rico, Spain and Okinawa.

July 1971			
Country	Grade	AFSC	Openings
Alaska	Capt.	2524	1
	Capt.	2546	1
	1st Lt.	2524	1
	TSgt.	25370	1
	Sgt.	25251	2
Hawaii	Sgt.	30250	1
	Maj.	E2546	1
	Capt.	2524	4
	MSgt.	D25370	1
	MSgt.	R25370	1
Greece	TSgt.	25271	1
	SSgt.	R25251	1
	Sgt.	25251	1
	Sgt.	R25251	1
	TSgt.	25271	1
Germany	Sgt.	25251	1
	Major	A2516	1
	Major	2516	1
	Major	E2516	1
	Capt.	2524	7
Guam	Capt.	E2524	2
	Capt.	2546	1
	Capt.	E2546	2
	1st Lt.	2524	1
	SMSgt.	A25291	1
Azores	SMSgt.	30291	1
	MSgt.	25271	1
	MSgt.	25370	1
	TSgt.	R25271	1
	TSgt.	25370	1
Spain	TSgt.	30270	1
	SSgt.	30250	1
	SSgt.	25251	1
	Sgt.	25251	19
	Capt.	2534	3
Okinawa	Capt.	2524	1
	TSgt.	R25370	1

Italy	Capt.	2524	1
	SSgt.	25251	1
	Sgt.	25251	1
	Maj.	A2516	1
	Maj.	E2516	1
Japan	Capt.	2524	2
	TSgt.	25271	1
	TSgt.	25390	1
	SSgt.	25251	1
	SSgt.	A25251	1
Puerto Rico	Sgt.	25251	4
	Sgt.	30251	1
	Sgt.	30250	1
	Maj.	2534	1
	1st Lt.	2524	1
Spain	SSgt.	A25251	1
	Capt.	2524	1
	MSgt.	25380	1
	Sgt.	25251	1
	Maj.	A2516	3
United Kingdom	Maj.	H2516	1
	Capt.	2524	2
	TSgt.	25271	1
	TSgt.	30270	1
	SSgt.	25330	1
Okinawa	Sgt.	25251	9
	Sgt.	R25251	2
	Capt.	2524	1
	Capt.	E2524	2

August 1971			
Alaska	Maj.	A2516	1
	Capt.	2524	2
	TSgt.	25271	1
	Sgt.	25251	2
	A1C	25231	2
Hawaii	TSgt.	25370	1
	SSgt.	25251	1
	Sgt.	25251	2
	Maj.	2516	1
	Capt.	2524	2
Germany	Capt.	E2524	1
	CMSgt.	R25390	1
	SMSgt.	25291	1
	MSgt.	25370	1
	SSgt.	25251	4
Greece	SSgt.	R25251	1
	Sgt.	25251	7
	Sgt.	30250	1
	Sgt.	25251	1
	1st Lt.	2524	2
Guam	Sgt.	25251	1
	Maj.	2516	1
	Maj.	2534	1
	Capt.	2524	4
	Capt.	2534	1
Azores	SMSgt.	25390	1
	MSgt.	25271	1
	SSgt.	25251	1
	Sgt.	R25251	1
	Sgt.	25251	1
Puerto Rico	Sgt.	25231	1
	A1C	25231	1
	Capt.	2534	2
	TSgt.	A25271	1
	TSgt.	25370	1
Spain	TSgt.	30250	1
	SSgt.	25251	1
	SSgt.	30250	1
	Sgt.	25251	3
	SSgt.	25251	1

United Kingdom	CMSgt.	25390	1
	SMSgt.	25390	3
	MSgt.	D25370	1
	TSgt.	25271	1
	SSgt.	25251	1
Alaska	Sgt.	30250	3
	Capt.	2524	1
	Sgt.	25251	2
	Sgt.	30251	1
	Maj.	E2516	1
Hawaii	CMSgt.	25390	1
	MSgt.	R25370	1
	SSgt.	25251	1
	Sgt.	25251	2
	Sgt.	R25251	1
Germany	Maj.	2516	1
	Maj.	2546	1
	Capt.	2524	2
	Capt.	2546	1
	CMSgt.	25390	1
Guam	SMSgt.	R25291	1
	MSgt.	25271	1
	TSgt.	25271	1
	TSgt.	25251	2
	Sgt.	25251	1
Italy	Sgt.	R25251	1
	Maj.	2534	1
	Capt.	2534	1
	1st Lt.	2524	1
	Capt.	E2546	1
Japan	SMSgt.	25390	1
	SSgt.	25251	2
	Sgt.	25251	1
	Capt.	2524	2
	1st Lt.	2524	1
Azores	Capt.	2524	1
	Capt.	2524	1
	SSgt.	25251	1
	Sgt.	25251	1
	Maj.	A2516	2
United Kingdom	MSgt.	25271	1
	TSgt.	25370	1
	Sgt.	25251	1
	Sgt.	30250	4

September 1971

Alaska	Capt.	2524	1
	Sgt.	25251	2
	Sgt.	30251	1
	Maj.	E2516	1
	CMSgt.	25390	1
Hawaii	MSgt.	R25370	1
	SSgt.	25251	1
	Sgt.	25251	2
	Sgt.	R25251	1
	Maj.	2516	1
Germany	Maj.	2546	1
	Capt.	2524	2
	Capt.	2546	1
	CMSgt.	25390	1
	SMSgt.	R25291	1
Guam	MSgt.	25271	1
	TSgt.	25271	1
	TSgt.	25251	2
	Sgt.	25251	1
	Sgt.	R25251	1
Italy	Maj.	2534	1
	Capt.	2534	1
	1st Lt.	2524	1
	Capt.	E2546	1
	SMSgt.	25390	1
Japan	SSgt.	25251	2
	Sgt.	25251	1
	Capt.	2524	2
	1st Lt.	2524	1
	Capt.	2524	1
Azores	SSgt.	25251	1
	Sgt.	25251	1
	Maj.	A2516	2
	MSgt.	25271	1
	TSgt.	25370	1
United Kingdom	Sgt.	25251	1
	Sgt.	30250	4

Fort Ritchie NCO going to college

FORT RITCHIE, Md. -- SSgt. Joseph Champagne, Detachment 29, 6th Weather Wing, here, has been accepted into the Airman Education and Commissioning Program (AECIP). This fall he will attend Florida State University as an undergraduate student in logistics management.

On completing his degree studies, Sergeant Champagne will attend Officers Training School, where he will receive a commission as a second lieutenant.



RECEIVING a pre-flight briefing at Mansfield Lahm Airport, Ohio by a weather forecaster assigned to the 164th Weather Flight, Ohio Air National Guard, is Fred W. Haise Jr., an Apollo 13 astronaut and former member of the 179th Tactical Fighter Group. The 179th TFGp is supported by the 164th. (U.S. Air Force photo)

Non-prophet organization's predictions profit pilots

BIEN HOA AB, Republic of Vietnam (7AF) -- "Winds from the south to southeast at 10 to 15 knots. Probability of precipitation is 10 per cent at Bien Hoa AB today. Strato-cumulus scattered at 27,000."

So speaks Capt. Richard Himebrook, a weather officer with Detachment 3, 30th Weather Squadron, a non-prophet organization located here.

Using instruments located in the grassy area between the two active runways, information is fed to a remote observation station in the old base control tower. There it is correlated by Vietnamese and American weather observers, and fed to the weather station, where Captain Himebrook briefs the pilots.

Asked what major problem confronts weathermen here, Captain Himebrook replied, "In order to understand our problems as forecasters in Vietnam, the knowledge of how our weather differs from that in the U.S. will help."

"Back in the U.S., two different air masses -- a warm

one and a cold one -- meet and adverse weather such as snow, showers, sleet and thunderstorms form."

He continued, "Here in Vietnam, there is only one air mass. Therefore, the potential for adverse weather may occur at any location, at any time."

"In other words, to forecast a thunderstorm at 3 p.m. today in this general area is fairly easy; but to pinpoint the exact place in the vicinity that the storm will hit is really difficult," he explained.

"Because pilots of the 3rd Tactical Fighter Wing and the Vietnamese Air Force 23rd Tactical Wing fly combat missions throughout the day, the weather problem is very significant."

"In order for our pilots to see and strike enemy targets, the weather must be reasonably good. A thunderstorm setting over a target impairs accuracy while similar conditions over this air base can cause difficulty in landing," Himebrook concluded.

Consolidated newspapers renamed by Yokota detco

YOKOTA AB, Japan -- The name "Fuji Flyer," submitted by Lt. Col. Gilbert N. Woods, Detachment 17, 20th Weather Squadron commander, has been selected as the winner of Yokota's name the newspaper contest.

As part of the consolidation of the 347th Tactical Fighter Wing, at Yokota and the 6100th Support Wing at Tachikawa AB, Japan, the base newspapers at

these bases, Afterburner and Kanto Plainsman, respectively, were merged under the name Afterburner, until a contest for the consolidated newspapers could be held.

As the contest winner, Colonel Woods received a \$50 Savings Bond, two free steak dinners at the Yokota Officers' Open Mess, a tape recorder and portable television set.



TAKING A WIND DIRECTION and intensity reading from the remote instrument readout equipment located in the Charleston AFB, S.C., weather station is Sgt. Joseph R. Stevens, a weather observer with Detachment 3, 15th Weather Squadron, at Charleston AFB. The readout equipment is owned by the U. S. Weather Bureau and operated by the personnel of Charleston's Det. 3. (U. S. Air Force photo by 2nd Lt. Milton F. Capps)

Weather equipment of tomorrow developed at ESD today

L. G. HANSCOM FIELD, Mass. -- When a weatherman lacks certain instruments to do his job, a meteorological scientist or engineer can be a real friend.

Hanscom Field has scientist-engineers whose specific job involves acquiring weather equipment for the Air Force in general and the Air Weather Service in particular. The sole agency within the Air Force Systems Command (AFSC) charged with that task is the Electronic Systems Division's (ESD) Aerospace Instrumentation Program Office.

Few members of this military-civilian team ever see the deployed radar equipment, satellite weather recorders, cloud height measurers or the other devices they've helped bring into being.

During 1969 the Air Force had many weather items transitioned from ESD to the Oklahoma City Air Materiel Area, that were monitored by the Aerospace Instrumentation Office. This transfer of engineering and system management responsibility terminated all ESD control over the following weather items, except for residual tasks.

Transitioned equipment included an improved long distance weather radar (AN/FPS-77) with a 200-mile range. With this unit, weathermen can more accurately identify and track thunderstorms, showers and snow squalls. A total of 82 such "weather eyes" are in operation around the globe.

Another transitioned item was a cloud detecting radar



ASK THE MAN WHO USES ONE! MSgt. Michael J. Weigand Jr., Detachment 23, 1st Weather Wing, Ching Chuan Kang AB, Taiwan, tracks the path of a tornado on the detachment's newly installed FPS-77 weather radar unit. Acquired by the Electronic Systems Division's Aerospace Instrumentation Program Office for Air Weather Service, the unit will more accurately identify and track thunderstorms, showers and snow squalls than any previous unit. (U.S. Air Force photo)

(AN/TPQ-11), which has been installed worldwide, allowing weathermen to measure both bases and tops of successive cloud layers. Forty-four of these fixed base "how high the sky" units are in use, with several for training and contingency purposes.

A mobile cloud height measuring set (AN/TMQ-14) is also on the world weather scene.

Designed for tactical operations, 90 such lightweight, transportable-type sets have been deployed for use in de-

Weathermen at Andrews view braking tests

ANDREWS AFB, Md. -- "I've got great brakes and besides my reflexes are really good. Heck, I'm a great driver and I know how quick my car will stop."

Sound familiar?

Safety officials of the 6th Weather Wing recently decided to do something about this driving overconfidence of some 6th Wing personnel who subscribed to the "Stop on a dime" theory. With the cooperation of the Prince Georges County Traffic Safety Office a braking demonstration was held near the wing headquarters building.

Corporal John E. Travers, a Prince Georges Safety Officer, performed a series of quick stop demonstrations for the gathered weathermen. His car was equipped with a special stop-distance measuring device.

The automobile was also equipped with a special blank-firing mechanism mounted on the front bumper which fired blanks when braking was signaled to begin, actually applied, and finally stopped.

Even though the late model automobile was equipped with new tires and good brakes, the long stretches of tire skids reflected the surprise of most of those gathered at the 88 feet required to stop the car at 30 miles-per-hour, and the 149 feet required for a vehicle traveling at 40 mph.

Wing safety officials feel the tests proved to those gathered that it takes more than good brakes and new tires to stay alive on the nation's highways.

termining cloud heights ranging from 50 to 2,100 feet.

Still other transitioned items include a dew point and temperature measuring set (AN/TMQ-20) which is used generally by observers for gathering basic forecasting information. Sixty-two such easily transported, rugged instruments are serving weather units supporting the Tactical Air Command.

Tactical equipment (ML-594), a balloon launcher, was procured through the Army with a companion item (ML-605), a gas volume flow meter. Twenty-five units were acquired for use with mobile radiosondes. This equipment was designed for highly mobile situations in the tactical environment.

Also, during 1969, a "turn-over" occurred on five satellite weather recorders (SEAOR #120). They are aiding weathermen in Southeast Asia to make possible day-night surveillance of weather patterns throughout the area.

Some systems still in the planning, development or production stages include the Airborne Weather Reconnaissance System (AWRS). This system will provide AWS with a substantially increased capability to collect, process and relay meteorological data to selected ground stations on a global basis.

Another system's development is RISC (Refractive Index Sounding Central). It will aid in correcting radio signals that have either been bent or slowed down by certain atmospheric conditions so more accurate photo mapping is possible.

RISC will be operated by

AWS's 6th Weather Squadron, Tinker AFB, Okla., in support of the Aerospace Cartographic and Geodetic Service's worldwide mapping mission.

Due for testing shortly is a portable cloud base measuring unit, a "ceilometer" (AN/TMQ-25) which has been designed for use at forward airfields and tactical operations support.

This equipment will allow combat weather observers to more accurately determine cloud heights while the instrument's covert capability allows its beams to be concealed from an enemy force in the area.

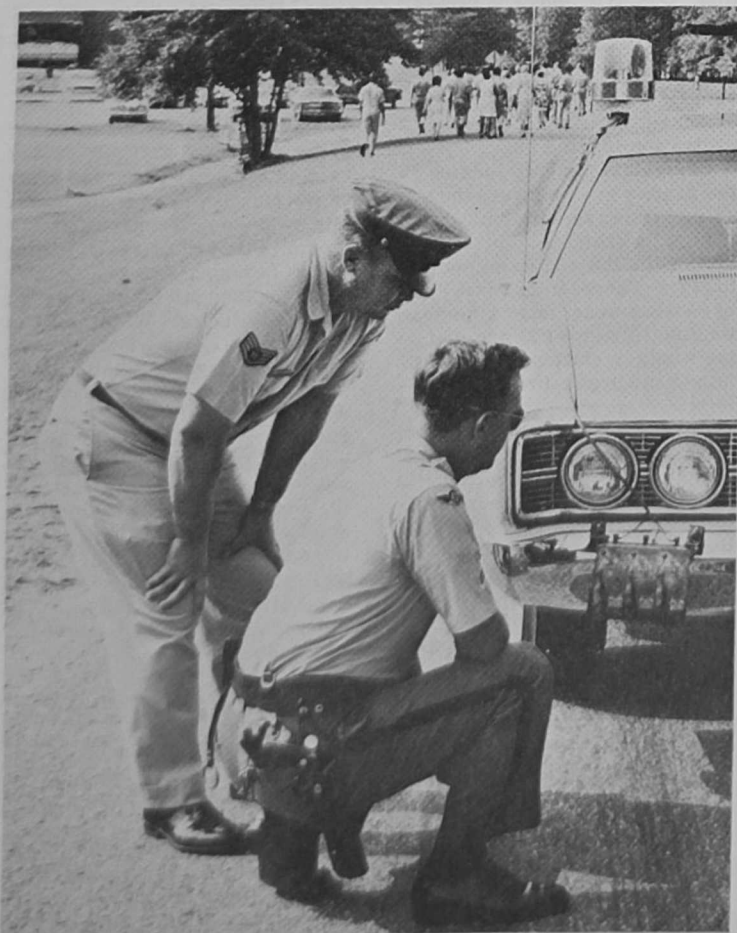
TACWE, the Tactical Weather System, will act in a dual capacity when completed. It will support Air Force Tactical Air Command System elements in any theatre of operations as well as contingencies such as "brushfire" wars, emergency airlifts and natural disasters. TACWE's interchangeable electronics packages will give this system great versatility in meeting a wide range of weather needs.

Diversity describes most aptly the projects and products of ESD, where weather devices are custom-tailored for its Air Force customers. The spectrum of interest ranges from solar flare activity to monsoons in Southeast Asia, and from fog dissipation to killer hurricanes and tornadoes.

Though there is little, if anything ESD can do to change the weather, the meteorological scientist and engineers assigned to this organization believe that much can be done to observe it accurately.



THIS VEHICLE needed 149 feet to stop after initiating braking action at 40 miles-per-hour. This braking test was held by the 6th Weather Wing in cooperation with the Prince Georges County Traffic Safety Office. Purpose of the tests was to demonstrate to wing personnel how much time and distance are needed to stop a car in an emergency. (U. S. Air Force photo)



CHECKING the blank-firing mechanism mounted on the front bumper of this test car are: SSgt. William H. Cochran, safety non-commissioned officer with the 6th Weather Wing and Corporal John E. Travers, a Prince Georges County Traffic Safety Officer. Braking tests were conducted near the wing headquarters by the Traffic Safety Office in cooperation with the wing safety office. (U.S. Air Force photo)

AWS Command

and Staff



Brig. Gen. William H. Best Jr.
Commander



CMSgt. Martin W. Dwyer
CMSgt of AWS



Col. Thomas A. Aldrich
Vice Commander



Col. Arthur W. Anderson
Chief of Staff



Col. Hal R. Montague
Inspector General



Charles W. Tiemann
Director of Administration



Capt. Terrence Mayer
Director of Information



Lt. Col. Henry K. Good
Director of Safety



James V. Bassett
Chief, Washington Office



John F. Fuller
Historian



Col. Tedd L. Bishop
DCS/Air Operations



Col. Arthur Yorra
DCS/Personnel



Col. Morris H. Newhouse
DCS/Plans



Col. Douglas C. Purdy
DCS/Operations



Col. Kenneth Bixler
DCS/Materiel



Col. Steven Puskar Jr.
DCS/Comptroller



Col. Ralph J. Steele
DCS/Systems



Dr. Robert D. Fletcher
DCS/Aerospace Sciences

Repairmen volunteer for 15 areas of preference

Hq. AWS -- The September overseas volunteer list is devoted to the weather equipment maintenance repairman, 302X0 career field. The top two volunteers in each NCO grade are listed according to their country of preference.

As mentioned in previous issues, publication of an individual's name is not a guarantee that he will be assigned to his overseas choice.

Another factor to keep in mind is that any list of volunteers changes constantly. What "went to press" as an up-to-date listing could be outdated by the time it reaches the field.

Next month's OBSERVER will highlight the weather forecaster career field, 253X0.

302X0

Hawaii

Sgt. William W. Stewart
SSgt. W. S. Wiedemann
SSgt. Richard D. Rees

Italy

A1C Jack E. McCown
SSgt. Franklin D. Legg
SSgt. John E. Grant
TSgt. Robert J. Hamlin

Thailand

Sgt. Keith H. Donnelly
Sgt. Manuel Castaneda
SSgt. John M. Costigan
SSgt. George J. Damico Jr.

United Kingdom

A1C Richard W. Kitchen
A1C James M. Skinner
Sgt. William J. Jones
Sgt. Robert L. Stewart
SSgt. Donald R. Petron
SSgt. James P. Lee Jr.
TSgt. Amabe G. Labore
TSgt. Robert A. Freeman

South Vietnam

A1C Richard W. Kitchen

Sgt. Keith H. Donnelly
Sgt. Manuel Castaneda
SSgt. John M. Costigan
SSgt. George C. Hahn

Alaska

Sgt. Lance L. Hargitt
SSgt. John R. Coombs
MSgt. Alfred L. Sanford

Germany

A1C James M. Skinner
A1C Floyd D. Bay
Sgt. Robert J. Williams
Sgt. Daniel M. Gulak
SSgt. Lawrence Leonard
SSgt. William V. Reed
TSgt. John F. Ryan
TSgt. Robert A. Freeman
MSgt. Robert A. Young
MSgt. Alfred L. Sanford
SMSgt. Robert E. Bickford

Greenland

Sgt. Raymond Knopp
Sgt. E. A. Rapplean Jr.
SSgt. Charles R. Cashier

Guam

TSgt. Amabe G. Labore

Japan

A1C Floyd D. Bay
Sgt. Robert J. Williams
Sgt. Alan D. Cargile
SSgt. William V. Reed
SSgt. Charles R. Cashier

Taiwan

Sgt. Howard K. Gingrass

Spain

Sgt. Daniel M. Gulak
Sgt. James H. Greenwald
SSgt. Franklin D. Legg
SSgt. James K. O'Hare Jr.
TSgt. John F. Ryan
TSgt. Gordon L. Monsma
SMSgt. Robert E. Bickford

Okinawa

SSgt. Daniel Rivas

Greece

Sgt. James H. Greenwald
Sgt. Frank T. Thompson
SSgt. Lawrence Leonard
SSgt. Thomas C. Margraff
TSgt. Gordon L. Monsma

Puerto Rico

Sgt. H. A. Melancon Jr.
SSgt. W. S. Wiedemann
TSgt. Jerry G. Ezell



THE 1969 WINNER of the Air Weather Service Observer Award in the supervisory category, MSgt. Harry J. Kohler, was recently presented a plaque by Brig. Gen. William H. Best Jr.,

AWS commander, citing him for his accomplishment. Kohler is assigned to the observing services and equipment division at Hq. AWS. (U. S. Air Force photo)

USAF selects 76 weathermen for regular Air Force appointments

Hq. AWS -- Air Force recently released the names of 76 Air Weather Service officers who were selected for regular Air Force appointments by the Two-Year Group Regular Appointment Board.

Second Lieutenant Luis J. Escajeda, an Officer Training School distinguished graduate was selected for his appointment by the Secretary of the Air Force personnel council.

There were 221 officers considered in the two-year group, with 34 per cent of them being selected.

Leopold J. Andreoli
Robert J. Armstrong
John F. Artz
James C. Ashby
Norman D. Baker
Robert W. Baker
Rodney E. Buling
Ronald J. Bound
Otto W. Burri
John P. Cipriano

6th WWg
1st WWg
1st WWg
1st WWg
2nd WWg
3rd WWg
7th WWg
6th WWg
AFGWC
1st WWg

Daniel V. Connors
Francis E. Lomax
Alexander MacDonald
James A. Hanley
Herbert L. Craig
Stanley R. Czyzak
Bernard C. Diesen III
Donald J. Deacon
Victor J. Dealmeida
Harry C. Decker
Luis J. Escajeda
William E. Finley
Thomas J. Fitzpatrick
Herman F. Fresh Jr.
Alfred R. Garcia Jr.
Elmo H. Gardner Jr.
Stephen J. Geertz
Ronald S. Giro
Leonard T. Grant Jr.
James E. Hansen
Robert G. Hawk
Peter A. Hayes
George Henry Jr.
Michael C. Hulcomb
George J. Horner
Robert T. Horner Jr.
Douglas L. Houck
Harry H. Hughes
Charles E. Johnson Jr.
James R. Johnson
William D. Klein
Victor K. Krzymowski
David A. Leatherwood

5th WWg
1st WWg
3rd WWg
4th WWg
3rd WWg
7th WWg
AFGWC
5th WWg
7th WWg
9th WWg
3rd WWg
1st WWg
9th WWg
1st WWg
AFGWC
1st WWg
4th WWg
3rd WWg
3rd WWg
1st WWg
9th WWg
Hq. AWS
7th WWg
7th WWg
1st WWg
7th WWg
1st WWg
5th WWg
5th WWg
2nd WWg
2nd WWg
3rd WWg
1st WWg

James B. Marstall
Mark D. Maxwell
Laurence D. Mendenhall
Harvey J. Miller
Robert M. Mules
Robert N. Morikado
John O. Nett
Paul C. Newell
Edward J. Nimmo
Barry M. Oman
Larry L. Patzer
John F. Phillips
Gary M. Priest
Aaron Prodel
John M. Patches
David D. Ratcliff
Mark Robinson
Milton G. Schellhase
Harold R. Schmitt Jr.
Joseph Schufman L. Jr.
John A. Shipe
Eugene W. Skluzacek
Steve F. Stevens
Warren E. Stewart
Lawrence L. Suda
Roland F. Tadd
Terry C. Tarbell
Donald S. Thomas Jr.
Edward M. Tumlinson
Theron D. Ward
Dale D. Webster
Robert C. Woronica
Leon I. Zimmerman

9th WWg
3rd WWg
Hq. AWS
AFGWC
9th WWg
1st WWg
3rd WWg
3rd WWg
1st WWg
AFGWC
3rd WWg
9th WWg
2nd WWg
AFGWC
AFGWC
9th WWg
9th WWg
5th WWg
1st WWg
1st WWg
1st WWg
AFGWC
9th WWg
9th WWg
3rd WWg
3rd WWg
6th WWg

Observer spins 'bull' story

HICKAM AFB, Hawaii (MNS) -- A solar observer with the 1st Weather Wing here claims his job rates hazardous duty pay. Sound like a bunch of "bull"? Well, it is!

TSgt. Donald L. Saderlund watches the sun from the Palehua Observatory located on an open grazing range in the Wainae Mountains. One night recently as he was closing the grounds, five cattle wandered into the compound.

The five cattle consisted of one large cow and her four-2-year-old calves -- one a frisky bull. "I think they were attracted to our green grass and daisies," related Saderlund.

The four females darted from the premises at the sergeant's first efforts, but the young bull didn't want to leave. After chasing him for 20 minutes, the 6-foot, 200-pound observer was running out of steam.

Without warning, the bull charged Saderlund. "He knocked me over like a bowling ball in the 1-3 pocket," he said. The bull then dashed through the parking lot and out the gate.

The bull - handled observer struggled to his feet and checked for injuries. "I didn't break any bones -- but there was this hoof print right in the middle of my shirt," concluded the smiling sergeant.

Pacific bases claim 30 of AWS's November reassignees

Hq. AWS -- Air Weather Service personnel officials have selected 36 enlisted men for November 1970 overseas assignments. All 36 individuals have weather related career fields.

All but six of those scheduled for reassignment are headed for bases in the Pacific. There are 11 airmen going to bases in the Republic of Vietnam, while three others will report to Thailand bases.

RANK	NAME	COUNTRY
SSgt.	Charles G. Zidek	South Vietnam
MSgt.	Danny L. Flowers	Philippines
MSgt.	Darwin J. Ridsen	Japan
TSgt.	Jerry D. Blunt	Japan
TSgt.	John T. Elmore	South Vietnam
TSgt.	Roland G. Masse	South Vietnam
TSgt.	Gerald E. Page	Guam
TSgt.	Wilfred A. Sibayan	South Vietnam

SSgt.	Frank Ballestebeza	South Vietnam
SSgt.	John J. Bentley	South Vietnam
SSgt.	Cyril A. Bright	Greenland
SSgt.	Lionel M. Deacon	South Vietnam
SSgt.	Eugene Goldsmith	Okinawa
SSgt.	Thomas R. Imfeld	South Vietnam
SSgt.	George G. Mudd	South Korea
SSgt.	John W. Wilkinson	South Vietnam
Sgt.	John G. Anderson	South Vietnam
Sgt.	Patrick A. Coffey	Germany
Sgt.	Michael F. Howell	Germany
Sgt.	Nick L. Kaminski	Okinawa
Sgt.	William Kowal	Thailand
Sgt.	James R. Lohman	Philippines
Sgt.	Michael J. Marden	Thailand
Sgt.	Joseph M. O'Neal	Japan
Sgt.	Patrick P. Pendergast	South Vietnam
Sgt.	Robert N. Thomas	Taiwan
Sgt.	William K. Walker	Japan
Sgt.	John J. Walsh	United Kingdom
A1C	Brenda K. Baker	Germany
A1C	Hanford S. Chase Jr.	Japan
A1C	James F. Dent	South Vietnam
A1C	James M. Ramsay	Japan
A1C	Richard J. Rooker	South Korea
A1C	Vincent F. Scarpa	Thailand
A1C	David M. Shavor	Germany
A1C	Richard A. Straut	Okinawa

Specially equipped WC-130s being used in Seek Storm data gathering

Hq. AWS -- Initial data gathering flights for project Seek Storm, the Air Force's scientific assault on hurricanes began last month.

Seek Storm hopes to provide meteorologists with a more penetrating, effective "weather eye," for tracking hurricanes and other severe tropical storms.

Development work on this new improved weather radar system is being done at the Air Force Systems Command's Electronic Systems Division.

Forecasters via Seek Storm's improved hurricane reconnaissance system would hopefully be able to predict more accurately where storms will strike as well as have maps available to them showing where heaviest rainfall will occur.

Two Air Weather Service

WC-130 aircraft have been equipped with specialized weather instruments. The installation of radars, engineering instrumentation, data processing and recording equipment will make it possible to gather flight data needed to provide the basis for design and development of the new system.

Weather radar penetration, the pilot's ability to see ahead in weather will be greatly improved aboard these aircraft. Radar range, in the storm, is expected to be about three times greater than has been formerly experienced by Air Weather Service pilots.

Airborne tests have been tentatively scheduled through the 1971 hurricane season. Once this phase of the program is completed, detailed analyses reports from the flights will

enable scientists and engineers working in the program to establish characteristics for the design, development and testing of the prototype system.

Academy class gives school fund \$1,000

NORTON AFB, Calif. -- CMSgt. John F. Dee, 1st Weather Wing, Hickam AFB, Hawaii, recently presented Gen. Jack J. Catton, Military Airlift Command commander, a check for \$1,001.00 for the MAC NCO Academy's Betterment Fund.

The money was collected from the members of class 70-9, all chief and senior master sergeants, as a gesture of faith in the NCO Academy and the job it performs.

Awards and decorations

Bronze Star

Col. John T. McCabe, 1st WGP
Lt. Col. Norman J. Clark, 30th WSQ
Lt. Col. Roddee E. Lord, 1st WGP.
Lt. Col. Alfred C. Molla, Det. 14, 1st WGP
Maj. John P. Huddle, 1st WGP
Maj. Lynn L. LeBlanc, Det. 14, 1st WGP
Maj. Wesley E. Robb, Det. 14, 1st WGP
Maj. Donald L. Commons, Det. 5, 30th WSQ
Maj. Carroll D. Brown, 10th WSQ
Capt. Michael S. Alexander, OL-4, 5th WSQ
Capt. Joseph C. Johnson, Det. 13, 30th WSQ
Capt. Darrell D. Lucas, 1st WGP
Capt. Edward C. Smith, Det. 25, 10th WSQ
Capt. James M. Wozniak, Det. 14, 1st WGP
Capt. James P. Preston, Det. 32, 5th WSQ
Capt. Roger C. Whiton, 1st WGP
CMSgt. Jack Metcalf, 1st WGP
MSgt. Ashby Hillyard, Hq. AWS
MSgt. Robert W. Mitchell, OL-7, 5th WSQ
TSgt. John H. Gibson, Det. 14, 1st WGP
TSgt. Charles M. Napier, 5th WSQ
TSgt. Joseph W. Traylor Jr., Det. 9, 15th WSQ
Meritorious Service Medal
Col. Edwin E. Carmell, Hq. AWS
Lt. Col. Warren L. Burns, Hq. AWS

Meritorious Service Medal

Lt. Col. Norman J. Clark, 30th WSQ

Air Medal

Maj. Richard L. Stoner, (First through eighth Oak Leaf Clusters), Hq. AWS

Army Commendation Medal

Maj. Paul Ruscica, 30th WSQ

Air Force

Commendation Medal

Col. Douglas M. Sheehan, (Second Oak Leaf Cluster), 4th WWG
Lt. Col. Charles W. Cook, (First Oak Leaf Cluster), AFGWC
Lt. Col. Clarence C. Hardin, (First Oak Leaf Cluster), Det. 6, 5th WWG
Lt. Col. Kenny D. O'Brien, 1st WWG
Lt. Col. William H. Quelch Jr., Hq. AWS
Maj. Leon P. Barnett, Det. 37, 5th WSQ
Maj. Charles W. Berry, (Second Oak Leaf Cluster), 53rd WRSQ
Maj. Richard L. Cummings, 2nd WWG
Maj. John F. Harmon, (First Oak Leaf Cluster), 56th WRSQ
Maj. Joseph W. Martin Jr., (First Oak Leaf Cluster), 56th WRSQ
Maj. David D. McGuire, 7th WSQ
Maj. Charles L. Morris, (Third Oak Leaf Cluster), 1st WWG
Maj. Craig D. Shaw, Det. 5, 1st WWG
Maj. Donald L. Thomas, 55th WRSQ
Maj. David F. Torchia, (First Oak Leaf Cluster), Det. 3, 28th WSQ
Maj. Thomas R. Wicksted, (Second Oak

Leaf Cluster), Det. 1, 26th WSQ
Capt. John J. Beck Jr., AFGWC
Capt. Ann Boyajian, Hq. AWS
Capt. John R. Cox, Hq. MAC
Capt. Barry J. Granlund, (Second Oak Leaf Cluster), 53rd WRSQ
Capt. Mark R. Hollobaugh, 54th WRSQ
Capt. Michael S. Horne, Det. 30, 10th WSQ
Capt. James F. Mahoney, (First Oak Leaf Cluster), 9th WRWG
Capt. Paul J. McDonnell, (First Oak Leaf Cluster), 56th WRSQ
Capt. Allan A. Osborn, 54th WRSQ
Capt. James D. Pryce, 10th WSQ
Capt. Wayne L. Raab, 56th WRSQ
Capt. Earl H. Sonnemaker, (Second Oak Leaf Cluster), 56th WRSQ
Capt. Thomas W. Walker, 10th WSQ
Capt. Clarence A. B. Warfel, (First Oak Leaf Cluster), 11th WSQ
Capt. Harold E. Williams, 56th WRSQ
Capt. Barclay B. Young, 56th WRSQ
1st Lt. John F. Phillips, Det. 33, 26th WSQ
CMSgt. George E. Connett Jr., (First Oak Leaf Cluster), 6th WSQ
CMSgt. Martin W. Dwyer, (First Oak Leaf Cluster), Hq. AWS
CMSgt. Everett L. Masterman Jr., (First Oak Leaf Cluster), Det. 18, 15th WSQ
SMSgt. Bobby G. Eddy, (First Oak Leaf Cluster), 54th WRSQ
SMSgt. Hudson J. Garvin, AFGWC
SMSgt. William C. Henry, (First Oak Leaf Cluster), AFGWC
SMSgt. Robert L. Mains, (First Oak Leaf Cluster), Det. 10, 6th WWG
SMSgt. Doyle Painter Jr., 56th WRSQ
SMSgt. Clay G. Russell, Hq. AWS
SMSgt. Robert L. Smith, (First Oak Leaf Cluster), 54th WRSQ
SMSgt. Gene L. Swenson, Det. 3, 15th WSQ
SMSgt. Marvin E. Thomas, (Second Oak Leaf Cluster), ETAC
MSgt. William A. Clouse, 54th WRSQ
MSgt. Lawrence A. Brown, Det. 5, 30th WSQ
MSgt. Delos A. DeForest, OL-3, Det. 7, 4th WWG
MSgt. J. B. Dillahunty, (First Oak Leaf Cluster), 6th WSQ
MSgt. Edwin L. Dodson, Det. 18, 15th WSQ
MSgt. Albert W. Edwards, Det. 13, 20th WSQ
MSgt. Orville B. Evans, Det. 37, 7th WWG
MSgt. James R. Gressett, 6th WSQ
MSgt. Thomas D. Hester, 21st WSQ
MSgt. Robert P. Kelso, (First Oak Leaf Cluster), OL-1, Det. 4, 21st WSQ
MSgt. Francis N. Loop, Det. 58, 16th WSQ
MSgt. Arden Moore, (First Oak Leaf Cluster), 56th WRSQ
MSgt. Wilbur C. Nickson, Det. 21, 6th WWG
MSgt. William B. Vest, Det. 35, 7th WWG

MSgt. Horace D. White, 56th WRS
MSgt. Robert Winant, Det. 35, 3rd WSQ
TSgt. Howard E. Brown, 6th WSQ
TSgt. Rudolph Carey, (First Oak Leaf Cluster), Det. 15, 20th WSQ
TSgt. Earl G. Cook, Det. 6, 5th WSQ
TSgt. Donald L. Garbutt, 10th WSQ
TSgt. Orvil A. Johnson, 54th WRSQ
TSgt. Roland G. Masse, 6th WSQ
TSgt. Eugene E. MacDonald, 1st WGP
TSgt. Lloyd W. Mitchell, (First Oak Leaf Cluster), Det. 75, 5th WWG
TSgt. Jimmie L. Moulder, 58th WRSQ
TSgt. Ray Ortega, Det. 14, 1st WGP
TSgt. Joseph W. Poole, (First Oak Leaf Cluster), OL-9, 2nd WWG
TSgt. Mitchell L. Watkins, 3rd WSQ
TSgt. Richard W. Watson, U. S. Air Force Logistics Group
TSgt. Gary R. Weaver, 55th WRSQ
TSgt. David R. White, Det. 2, 30th WSQ
TSgt. William I. Willis, Det. 2, 1st WWG
SSgt. Dennis R. Cook, 1st WWG
SSgt. Richard W. Decker, Det. 17, 10th WSQ
SSgt. James C. Florio, Det. 14, 1st WGP
SSgt. Richard R. Grabenstein, 58th WRSQ
SSgt. Allen R. Gray, Det. 36, 30th WSQ
SSgt. Isiah E. Hargrove, Det. 58, 6th WWG
SSgt. Robert L. Hoover, Det. 2, 30th WSQ
SSgt. Jack E. Hoskins, Det. 52, 20th WSQ
SSgt. David O. Johnson, Det. 48, 4th WWG
SSgt. James H. Kreinhop, Det. 1, 20th WSQ
SSgt. Harold A. Lofton, (Second Oak Leaf Cluster), 10th WSQ
SSgt. William J. Mechura Jr., 55th WRSQ
SSgt. Walker Poynter Jr., AFGWC
SSgt. Michael H. Quinn, Det. 26, 31st WSQ
SSgt. Norman L. Roberts, (First Oak Leaf Cluster), 7th WWG
SSgt. Domingo Sanchez Jr., Det. 75, 5th WWG
SSgt. Don D. Sinclair, (First Oak Leaf Cluster), Hq. AWS
SSgt. Wilbur F. Skelton, Hq. AWS
SSgt. Wayne G. Vandergrift, 56th WRSQ
SSgt. Louis E. Vannatter, 54th WRSQ
SSgt. Frank W. West, Det. 75, 5th WWG
Sgt. Thomas E. Grier, (First Oak Leaf Cluster), 56th WRSQ
Sgt. James D. Hilt, Hq. AWS
Sgt. James D.
Sgt. Michael O. House, Det. 2, 30th WSQ
Sgt. Richard G. Jonasch, Det. 14, 1st WGP
Sgt. Lowell J. Lambert, Det. 14, 1st WGP
Sgt. Gary A. Ruegg, Det. 14, 1st WGP
Sgt. Joseph H. Runyon, Det. 14, 1st WGP
Sgt. Douglas P. Triplat, 56th WRSQ
AIC Donald P. Whitt, Det. 37, 5th WSQ

ON THE skew-T AWS Global Report

Howard AFB, Canal Zone

A MAC Gold PRIDE Award was presented to SSgt. Herbert W. Lovell, Det. 5, 5th WWG, here for outstanding duty performance as rawinsonde operator and instructor in rawinsonde procedures to five Latin American students.

Sgt. Daniel H. Keller received a Gold PRIDE award for his supervision of the detachment's rawinsonde maintenance section.

Silver PRIDE Awards were won by MSgt. Richard J. Hassell, for his work in formulating and writing the unit's mobility plans and by AIC Joseph C. Toschik, for his outstanding performance as the unit's assistant information officer.

AIC James P. Stare was presented a Bronze PRIDE Award for his design of Det. 5's pyramid alert diagram for participation in base disaster preparedness exercises.

SSgt. Richard L. Gorrell, was selected as an honor graduate of the rawinsonde maintenance course and meteorological set course at the Chanute Technical Training Center, Chanute AFB, Ill.

Offutt AFB, Neb.

Master Sergeants Raymond R. Stark and Wesley C. Medlin and TSgt. Giroud McDaniel, Air Force Global Weather Central have been awarded Silver PRIDE Awards for noteworthy application of PRIDE concepts to improve their forecasting products.

Highlights of Air Weather Service people at work and play

Andrews AFB, Md

SSgt. William H. Cochran, 6th Weather Wing, was presented a Gold PRIDE Award by Col. Arnold R. Hull 6th Wing commander, for his activities as wing safety NCO.

A fatality-free year, a rigorous information and action program and a minimal accident record were the ingredients for the award.

Hahn AB, Germany

The forecast section of Detachment 14, 31st Weather Squadron, recently received a Blue PRIDE Award for outstanding performance of duty. The award was presented at the unit's latest Commander's Call.

Lajes Field, Azores

Detachment 19, 15th Weather Squadron, here, has been named the Honor Unit of the Month for August 1970. The televised presentation was made to Maj. David C. Gurkin Jr., detachment commander by Brig. Gen. Warren D. Johnson, commander, U.S. Forces Azores.

This is the fourth time in 1970 for the weather unit to win this award. The detachment was judged in 21 areas of competition.

Weather central toured by three meteorologists

OFFUTT AFB, Neb. -- The Air Force Global Weather Central was recently visited by Allen D. Pearson, Chief of the U.S. Weather Bureau's National Severe Storms Forecast Center in Kansas City and Doctors Harry R. Glahn and William D. Bonner, research scientists in the Weather Bureau's Techniques Development Laboratory in Washington D.C.

The weathermen were given a tour of the GWC computer complex and received an orientation briefing on the automated severe weather forecasting techniques developed at GWC.

The Weather Bureau's Kansas City center provides tornado and severe storm warnings to the public. GWC provides a similar service to more than 600 Department of Defense installations.

Marriages

SCOTT AFB, Ill. -- Karel Ann Smith, the daughter of Col. and Mrs. James E. Smith, was recently married to James D. Wetzel, the son of Mr. and Mrs. Kenneth Wetzel of Tiffin, Ohio. Colonel Smith is assistant deputy chief of staff, Systems at Air Weather Service headquarters.

BLITHEVILLE AFB, Ark. -- Sgt. James A. Lucas, an administrative specialist with Detachment 14, 26th Weather Squadron, here, recently exchanged wedding vows with the former Miss Debra A. Carlisle of Chattanooga, Tenn.

Births

COYLE, Maj. and Mrs. Francis S. III, a son, Timothy Brendan. Father assigned to 28th WSQ, RAF Northolt, England.
SKEES, Capt. and Mrs. Charles S., a son, Carl Alan. Father assigned to Detachment 36, 28th WSQ, RAF Alconbury, England.

KNEZEVICH, TSgt. and Mrs. Milorad R., a daughter, Kristine Roberta. Father assigned to Det. 5, 5th WWG, Howard AFB, Canal Zone.

LINTZEN, TSgt. and Mrs. Jessie L., a son, Ernest Joseph. Father assigned to Det. 4, 4th WWG, McChord AFB, Wash.

DAVIS, SSgt. and Mrs. Richard J., a daughter. Father assigned to Det. 2, 6th WWG, Andrews AFB, Md.

AUSTIN, AIC and Mrs. Eric L., a daughter, Kari Michelle. Father assigned to Det. 5, 5th WWG, Howard AFB, Canal Zone.

MILLER, AIC and Mrs. Ronald L., a daughter, Conni Lynne. Father assigned to Det. 4, 3rd WSQ, Shaw AFB, S.C.



DEVELOPING A NEW FORECASTING PROCEDURE, this group of professional weathermen, led by 6th Weather Wing Vice Commander, Col. Joseph M. Bird (center with umbrella) are actually showing their response to those who would question a zero percent chance of precipitation forecast. The occasion for this gathering was a recent staff meteorologist seminar held at Andrews AFB, Md. The visiting weather-

men were exposed to a thorough briefing and updating on weather developments by 6th Wing staff members. Attending the conference were (left to right): Captains Gary G. Wlech, David M. Booth, Robert G. Curry, Robert W. Endlich, John H. Bradham, Phillip D. Wood, Robert E. J. Introne, Alvin L. Wallis Jr., Roger H. Schauss and Joseph P. Wargo. (U. S. Air Force photo)

SPORTS FRONT



1st Lt. Ray A. Crockett A Winning Unit

The men of Detachment 5, 5th Weather Wing, Howard AFB, Canal Zone have been extremely active in the Howard-Albrook AFBs intramural and command athletic programs for the past six months and have the following accomplishments to prove it.

The unit placed fifth in the overall points accumulation for the U.S. Air Force Southern Command (USAFSO) Commander's Trophy. Det. 5, competed against 13 squadrons for the award.

Peter J. Britos, Det. 5 commander, captained the USAFSO rifle team in the Southern Command's annual pistol-rifle matches. USAFSO finished fourth out of 14 competing teams, while Britos finished eighth in a field of 115 shooters.

James E. Cameron, a detachment weather forecaster was a member of the USAFSO golf team which represented the command in the Air Force Worldwide Golf Tournament at the Air Force Academy, Colorado Springs, Colo., in July.

Robert Cooley, a detachment weather equipment repairman, was a member of the U.S. Air Force team competing in the National Model Airplane Championships at Glenview Naval Air Station, Ill.

Senior Golfer

Numbered among the forecasters at Detachment 4, 21st Weather Squadron, Athenai Airport, Greece, is Dick Lambie, two time winner of the Athens area "Grandfather" golfer title.

Claiming a seven handicap, Lambie won the 1964 Senior United Kingdom Golf Championship and for four straight years (1967-1970) he has turned away all challengers for the Senior Mediterranean Conference title.

Detachment conquers larger outfits for slow-pitch title

WRIGHT-PATTERSON AFB, Ohio--Little outfits sometimes win big awards. Like Detachment 15, 15th Weather Squadron, here.

Although the unit has only 23 men, 17 of them are on the softball team.

That its men comprise the best slow-pitch softball team at Wright-Patterson was attested recently in the slow-pitch tournament on base: Det. 15 scored an impressive 10-8 victory over the base hospital to stow away the league championship honors.

Bob May and Gary Nied rapped out last-inning singles and a hospital team error enabled the weathermen to score the winning runs.

The tournament victory gave the detachment team a 17-5 season record.

Team members were Dave Buettner, Bob Lynch, Bob May, Jeff Montgomery, Syd Stemberge, Encarnacion Torres, David Kumer, Bill Bourland, John Coursen, Dick Skillings, Buzz Elton, Gary Nied, Ron Ramer, Bill Elmer, Dale Ambos, Ron Velthoven and Dick Katz.

Offutt units gather for picnic

OFFUTT AFB, Neb. -- Military members assigned to the Air Force Global Weather Central, Hq. 3rd Weather Wing and Detachment 2, 3rd WWG, along

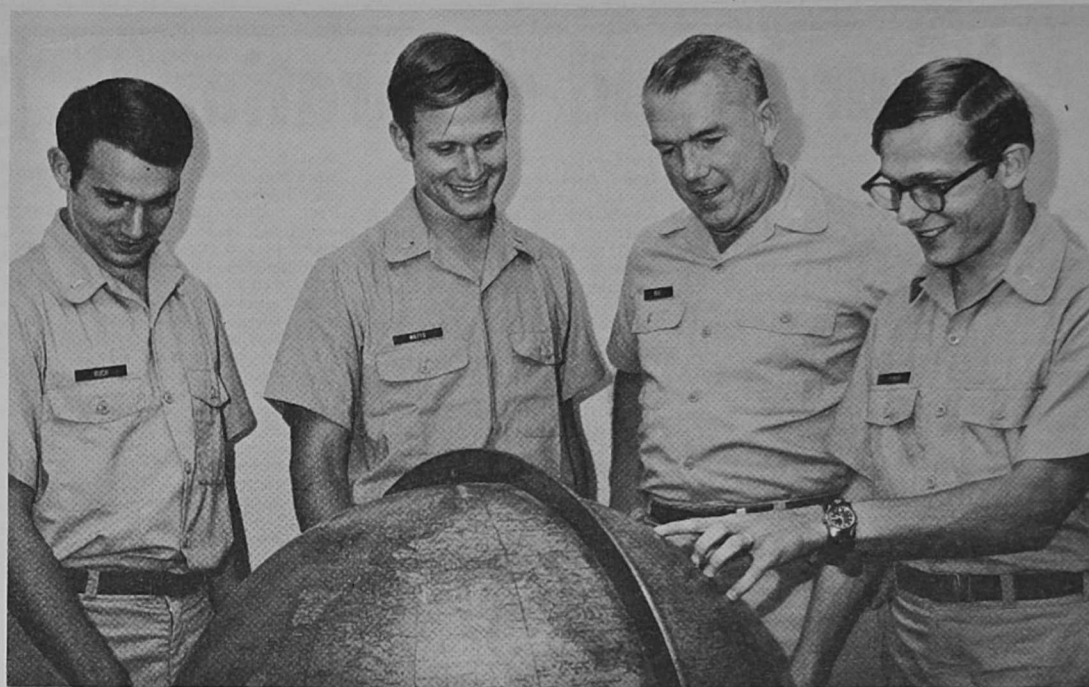
with their dependents, gathered at the Offutt AFB lake recently for their annual picnic under clear skies and hot weather.

While AWS units have the devious distinction of holding the record for rained-out picnics, the all-weather Offutt picnic committee was happy to report the only people who got wet at their party were those who squeezed their paper cups too tightly.

Weathermen sweep Army Yard contest

FORT RITCHIE, Md. -- The officers of Detachment 29, 6th Weather Wing won all three awards offered by Fort Ritchie officials in the "Yard of the Month" contest. This was the first month of competitive competition for the contest.

Lt. Col. David A. Bush, Capt. David J. Koczur and CWO Thomas W. Harper captured the first three places.



RELATING to the Air Weather Service Commander, Brig. Gen. William H. Best Jr., (second from right), where in the command they would like to be stationed are (left to right) Second Lieutenants Frederick M. Rock, David A. Watts and Marc E. Cotnoir. Graduates of the Air

Force Academy, all three officers have decided to enter military meteorology as Air Force careers. They are currently undergoing meteorological training at St. Louis University. After this training they will be assigned to weather units in the command. (U.S. Air Force photo)

Scientists use weather aircraft to measure bumpy skyway turbulence

L. G. HANSCOM FIELD, Mass. -- Flying through turbulence is an experience not quickly forgotten. This invisible sea of angry air bounces aircraft about, making both pilot and passengers miserable.

It's been called updrafts, downdrafts and wind shear. Whatever name it is known by, flying through it is rough and the Air Force is trying to provide a scientific, objective way of measuring it.

A flight test program to measure those bumpy skyways has been conducted by the Air Weather Service for the Air Force Systems Command's Electronic Systems Division (ESD).

Code named "Project Cold Quake," program officials used

two AWS aircraft equipped with a recently developed Atmospheric Turbulence Measuring Set (ATMS) to fly 80 missions into turbulent air. By seeking out turbulence they hoped to help provide an answer to whether rough air can be objectively measured.

"Wind shear," commented Ken Bair of ESD's Aerospace Instrumentation Program Office, "is today's terminology for what fliers in the 30s spoke of as 'air pockets' -- currents or eddies streaming at different speeds either up, down, horizontally or any which way. And, for pilots passengers and planes these situations could spell discomfort or serious trouble."

Bair continued, "What we are trying to do is get objective readings rather than the usual seat-of-the-pants reports transmitted by pilots flying through turbulent conditions." It is a serious problem that faces not only high-speed, jumbo jets but smaller general aircraft as well.

The aircraft used in the flight tests, a turboprop-driven WC-130 and WC-135 jet, are assigned to units under the 9th Weather Reconnaissance Wing, McClellan AFB, Calif.

Instrumentation used by ESD in the tests included a sensor consisting of a pitot tube (probe) and pressure transducer, a computer and control panel. These probes, mounted on the fuselage of the aircraft sense turbulence by detecting slight changes in air pressure; changes are instantly recorded and computed inside the aircraft.

Different type aircraft with varying flight characteristics are being used to determine whether the device is reliable and functions regardless of aircraft size and speed.

Weather researchers hope to achieve a scientific standard

that can be applied to any aircraft that must fly through rough air. The test missions were flown for three months with all collected data sent to an ESD meteorology research contractor, who will evaluate all test results.

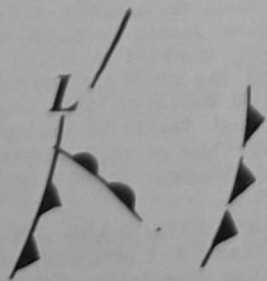


1. Phillies' Jim Bunning recently became the second pitcher to win more than 100 games in each major league. Who was the first?
2. How many teams does Canada have in organized baseball?
3. Who won the 1970 British Open?
4. "The Hambletonian" is associated with what sport?
5. What brother combination is now starring in the outfield for the same team?
6. Who is the light heavyweight boxing champion?
7. What publication is known as "The Bible of Baseball?"
8. Name the pitcher who recently set a record for the most years striking out 200 or more batters.
9. Who was the AFL's rookie of the year in 1969?
10. Where did Vince Lombardi get his coaching start?

Answers

1. Denton "Cy" Young won over 200 games in each league.
2. Two; Montreal in the National League and Winnipeg in the International League.
3. Jack Nicklaus.
4. Harness racing.
5. The Conigliaros--Tony and Billy of the Red Sox.
6. Bob Foster.
7. The Sporting News.
8. Bob Gibson, Cardinals, eight years.
9. Greg Cook, Cincinnati Bengals.
10. Lombardi started as an assistant coach at West Point.

OLD FRONTS NEVER
DIE, THEY'RE JUST
WASHED AWAY!



By 1st Lt. William K. McQuay