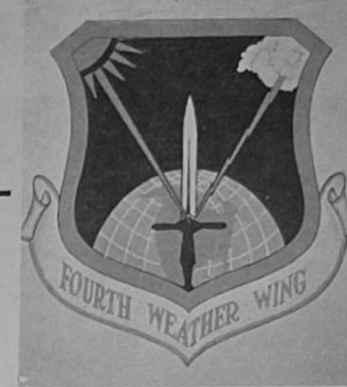




4th, 9th Wings, ETAC named outstanding units

Hq. AWS—Some 3,700 Air Weather Service people were authorized last month to wear the Air Force Outstanding Unit Award (AFOUA), effective Nov. 1, 1968. The units involved are the 9th Weather Reconnaissance Wing, the 4th Weather Wing and the Environmental Technical Application Center (ETAC).

Personnel assigned to the 15 squadrons, 34 detachments, 33 operating locations and ETAC during the period covered by the awards are authorized to wear the AFOUA.

9th Wea. Recon. Wg.

The 9th Wea. Recon. Wg., under the command of Colonel

Felix G. Brenner, distinguished itself by demonstrating an outstanding degree of professionalism in conducting its assigned weather reconnaissance operations from July 1, 1967 to June 30, 1968.

Flying four different types and seven series of aircraft, the units sharing in the award include the 53rd, 54th, 55th, 56th 57th and 58th Weather Reconnaissance Squadrons. Also included are Detachment 5, 9th Wea. Recon. Wg., and Det. 2, 57th Wea. Recon. Sq.

Although the wing headquarters is a tenant unit at McClellan AFB, Calif., they exercise control over the eight reconnaissance units separated geographi-

cally from Ramey AFB, Puerto Rico to Clark AB, Philippines.

Safety has been the keynote throughout all the 9th Wea. Recon. Wg., missions flown during the award period. The wing has amassed an enviable record of 54,176 hours of flying without a major or minor accident.

The citation accompanying the award cited the 9th Wea. Recon. Wg., for the many and varied missions performed by the wing. It stated "During this period, the wing demonstrated an outstanding degree of professionalism in conducting its assigned weather reconnaissance, special sampling missions and contingency operations."

4th Wea. Wg.

The 4th Wea. Wg., distinguished itself by exceptionally meritorious service from May 1, 1966 to April 30, 1968. During this period, the wing provided outstanding service and support to serviced organizations, initiated and concluded research in resolution of problems in the field of meteorology, and added to the cumulative progress of the Air Force.

Charged with providing weather support to units of the North American Air Defense Command, the 4th Wea. Wg., headquartered at Ent AFB, Colo., is commanded by Col. Paul E. McAnally. The wing also pro-

(Continued on page 2)

Season's Greetings

AIR WEATHER SERVICE

OBSERVER

Weather Component of USAF's Military Airlift Command

Vol. 15 No. 12

Headquarters, Air Weather Service, Scott AFB, Illinois

December 1968



AT THE CONTROLS OF a WB-47 on the Clark AB, Philippines flightline is Maj. Robert J. Barnhill, 53rd Weather Reconnaissance Squadron. The 53rd was recently cited for the professional job they have been performing in support of U.S. Air Force operations in Southeast Asia.

Reconmen cited for outstanding service in SEA

RAMEY AFB, Puerto Rico—WB-47 crewmembers of the 53rd Weather Reconnaissance Squadron "Hurricane Hunters," were recently cited for their invaluable contribution to U.S. Air Force operations in Southeast Asia (SEA). The crews were stationed at Clark AB, Philippines while operating in the SEA theater.

Lt. Col. Theodore N. Mace, commander, Detachment 2, 9th Weather Reconnaissance Wing praised the Ramey based crews for their flying assistance. He stated "without the assistance of these professionals we simply could not have completed our mission."

Lt. Col. George D. Thurman, 53rd Wea. Recon. Sq., commander added his "well done" to Colonel Mace's comments. He said, "Under the strain of our Caribbean flying commitment and various temporary duty operations it is a reflection on the entire squadron when our aircrews are so highly applauded in critical combat operations."

54th to aid islanders in annual Xmas drop

ANDERSEN AFB, Guam—Once again the 54th Weather Reconnaissance Squadron will be participating in the annual Pacific Christmas Drop.

Everyone at Andersen is getting into the act by collecting all sorts of gift items which include toys, candy, chewing gum, pencils, crayons, notebooks, soap, fish hooks, clothing in all sizes and styles, washcloths and terry cloth towels.

This year's operation continues a tradition which began in the early 1950s. At that time, aircrews flying routine missions in B-29s and B-50s, noticed islanders waving to their aircraft as it flew over the remote islets and atolls.

The crews later returned to the same islands and dropped gifts made from contributions within the squadron. So began the traditional Christmas Drop which has since received the support of all Andersen based units in this worthwhile program of giving to the needy.

This year's drop will be flown by members of the 54th Wea. Recon. Sq. and the 79th Aerospace Rescue and Recovery Squadron. Other Andersen units are assisting by gathering gifts and providing volunteer help for packaging the items collected.

In last year's drop, several thousand dollars worth of gifts were parachuted by the 54th to Trust Territory residents.

Islands slated for the drop this season include Murklo, Satawan, Nama, Losap, Pis and Onari all of which are in the Truk district. Additionally, Agrihan, Pagan, Anathan and Alamagan in the Northern Mari-

anas district will also receive gifts. This drop is expected to benefit over 3,000 islanders.

Maj. Douglas H. Johnson is project officer for this year's festivities.

Eighteen in AWS gain new eagles

Hq. AWS—Approximately 18 Air Weather Service officers were recently selected for promotion to colonel under the Fiscal Year 1969 Temporary Colonel Promotion Cycle.

There were 1,165 officers selected for colonel throughout the Air Force, with 1,087 of them falling in the line of the Air Force category. Weather personnel are selected from this category.

Those selected for eagles and their unit include, Paul H. Fisher, Hyko Gayikian, Malcolm F. Gosdin and Robert F. MacKenzie, 1st Weather Wing; Isaac S. Israel, Robert A. Jacobs and Robert W. Vincent, 2nd Wea. Wg.

Also selected were David W. Saxton, 3rd Wea. Wg.; William H. Shivar, 5th Wea. Wg.; and Daniel H. Lufkin and Howard D. Turner of the 6th Wea. Wg.

Those assigned to the 9th Weather Reconnaissance Wing are Tedd L. Bishop, William I. Evans, Charlie T. McGugan Jr., Whitney L. Morgan and George D. Thurman.

Headquarters AWS officers selected were Richard H. Foote and Glenn A. Patterson Jr.

2nd Wea. Wg. Vice Comdr.

Former AWS C of S dies

Hq. AWS—Gen. William S. Stone, 58, AWS chief of staff from July 1946 to May 1947, died December 2 in Belgium of a heart attack. He had been air deputy to the Supreme Allied Commander, Europe, since mid-1966.

A West Point graduate, class of 1934, General Stone entered meteorology at the California Institute of Technology in 1937, receiving his master's degree the following year. His first weather assignment was as weather officer at Ft. Lewis, Wash., in 1938.

He served as weather reports division chief, Army Air Forces headquarters; chief of staff and deputy commander of the AAF Weather Wing, Asheville, N.C.; director of weather services in the Pacific; and as AWS chief of staff before leaving AWS in May 1947 to become associate professor of social conference at West Point.

Colonels Thomas J. Arbogast, 2nd Weather Wing commander and Bernard Pusin, 2nd Wea. Wg.'s director of operations, represented Air Weather Service at memorial services for General Stone.

THE FIRST CHRISTMAS

And it came to pass in those days, that there went out a decree from Caesar Augustus, that all the world should be taxed.

And all went to be taxed, every one into his own city.

And Joseph also went up from Galilee, out of the city of Nazareth, into Judea, unto the city of David, which is called Bethlehem; (because he is of the house and lineage of David.)

To be taxed with Mary his espoused wife, being great with child.

And so it was, that, while they were there, the days were accomplished that she should be delivered.

And she brought forth her firstborn son, and wrapped him in swaddling clothes and laid him in a manger; because there was no room for them in the inn.

And there were in the same country shepherds abiding in the field, keeping watch over their flock by night.

And lo, the angel of the Lord came upon them, and the glory of the Lord shone round them: and they were sore afraid.

And the angel said unto them, Fear not; for, behold, I bring you good tidings of great joy, which shall be to all people.

For unto you is born this day in the city of David a saviour, which is Christ the Lord.

And this shall be a sign unto you; Ye shall find the babe wrapped in swaddling clothes, lying in a manger.

And suddenly there was with the angels a multitude of the heavenly host praising God, and saying,

Glory to God in the highest, and on earth peace, good will toward men.

And it came to pass, as the angels were gone away from them into heaven, the shepherds said one to another, Let us now go even unto Bethlehem, and see this thing which came to pass, which the Lord hath made known unto us.

And they came with haste, and found Mary, and Joseph, and the babe lying in a manger.

And when they had seen it, they made known abroad the saying which was told them concerning the child.

And all they that heard it wondered at those things which were told them by the shepherds.

But Mary kept all these things, and pondered them in her heart.

And the shepherds returned, glorifying and praising God for all the things that they had heard and seen as it was told unto them. (Luke 2:1-20).



COL ROBERT R. OSBORN
VICE COMMANDER
2nd WEA. WING
WIESBADEN AB, GERMANY.

COMMISSIONED IN FEB. 1942.

RECEIVED A BACHELORS DEGREE IN MATHEMATICS FROM BAKER UNIVERSITY, BALDWIN, KAN., IN 1941 AND A MASTERS DEGREE IN MICROMETEOROLOGY FROM JOHNS HOPKINS UNIVERSITY, BALTIMORE, IN 1952.

EARNED HIS MASTERS DEGREE FOR A THESIS WRITTEN ON MOISTURE DISTRIBUTION IN THE AIR LAYER NEAR THE GROUND AND COLLECTED DATA FOR THIS STUDY OVER AN 80 ACRE SPINACH FIELD.

OH BOY, 80 ACRES OF SPINACH!

AWARDED THE DISTINGUISHED FLYING CROSS AND TWO AIR MEDALS DURING WORLD WAR II, FOR FLYING C-47 RESUPPLY MISSION IN SUPPORT OF WEATHER STATIONS IN CHINA, BURMA, AND INDIA.

IS 1ST VICE PRESIDENT OF THE EUROPEAN COUNCIL OF PROTESTANT MEN OF THE CHAPEL.

HAS SERVED OVERSEAS TOURS IN GERMANY, NEWFOUNDLAND, AND THE CARIBBEAN.

HAS AMASSED OVER 4,000 HRS. OF FLYING EXPERIENCE IN AND SUPPORT AIRCRAFT. ENJOYS GOLF, BOWLING AND SKIING.

BY THOMAS M. BOLKOVAC

Three outstanding units named

(Continued from page 1)
vides weather support to units of the Alaskan Air Command and the Army Air Defense Command.

Organizations sharing in the award include the 11th, 12th, 29th, 32nd and 35th Weather Squadrons. The U.S. Air Force Solar Forecast Center, its detachments and operating locations are also included in the award.

The citation attached to the award stated "The professionalism exhibited by wing members have caused the 4th Weather Wing to become a more integral part of the Air Weather Service and the scientific community."

ETAC

The U.S. Air Force Environmental Technical Applications Center distinguished itself by exceptionally meritorious service in support of military operations from April 1, 1968 to March 31, 1968.

ETAC provides a centralized

capability to collect, store, retrieve, and process historical aerospace environmental data for publication, planning, and technical applications required by the Department of Defense, the U.S. Air Force and authorized contractors.

They also maintain a data handling and storage facility (data processing division) to collect and process natural aerospace environmental data to fulfill mission requirements.

The center performs quality control analysis for AWS observing stations and prepares required AWS standard climatological summaries and inventories for processing climatological data.

The citation, which accompanied the AFOWA cited ETAC for "Providing outstanding environmental and climatological support on a quick reaction time basis to the Air Force, Army, the intelligence community and other DOD agencies." It further

stated "The distinctive accomplishments of the U.S. Air Force Environmental Technical Applications Center have contributed significantly to the defense of the U.S. and reflect great credit upon itself and the Air Force."

Letters of congratulations have been forwarded to the award winning units from Brig. Gen. Russell K. Pierce Jr., AWS commander.



Commanders' Christmas Messages



It is with a great deal of pride that I extend congratulations to all members of MAC for your contributions to world peace as 1968 nears a close. Your talents and efforts have contributed significantly to our country's efforts to meet its grave and demanding responsibilities around the globe.

The next year will no doubt bring added responsibilities for all of us. However, as dedicated and capable members of the U.S. military establishment, we fully understand that our profession demands both sacrifice and service. I know that each of you, this command, and the U.S. Air Force will continue to perform in an outstanding manner during 1969 and the years following.

I wish each of you and all members of your families, a very merry holiday season and a most successful and happy new year.

Gen. Howell M. Estes Jr.
Commander
Military Airlift Command.

The warmth of home and family are especially meaningful to all of us during the holiday season. We cherish sharing the joy of Christmas with our families and friends and extending the spirit of brotherhood to all.

To those of you serving away from home—our special greetings. Strengthened by the knowledge that your personal sacrifices are a vital contribution to your country, your duty and service should be sources of immeasurable pride to you. Your efforts serve as an inspiration for us all.

The future holds many challenges, to be met with determination and confidence. Merry Christmas and a Happy New Year to each of you.

Russell K. Pierce, Jr.
Commander
Air Weather Service.



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BRIG. GEN. RUSSELL K. PIERCE, JR.

Commander, Air Weather Service

CAPT. TERRENCE MAYER, Director of Information

LT. RAY A. CROCKETT, Managing Editor

SSGT. GENE GOLDSMITH, Editor



RECEIVING THE COMMISSIONING oath from his father, Col. H. P. Bilyeu, 55th Weather Reconnaissance Squadron commander, is 2nd Lt. Jay D. Bilyeu, during recent ceremonies at Georgia Tech University. Lieutenant Bilyeu has been assigned to the 1155th Technical Operations Squadron at McClellan AFB, Calif., also the home of the 55th Wea. Recon. Sq.

56th NCO receives flying safety award

YOKOTA AB, Japan — MSgt. Robert B. Thomas, a flight engineer assigned to the 56th Weather Reconnaissance Squadron, here, recently received a Military Airlift Command award for flying 10,000 hours without an accident.

Sergeant Thomas accumulated the hours during 20 years of flying. He has flown in B-17, B-29 and B-36 bombers and KB-50 and WC-135 aircraft.

This veteran noncommissioned officer received letters of congratulations from General Howell M. Estes Jr., MAC commander and Brig. Gen. Russell K. Pierce Jr., Air Weather Service commander.

In his letter, General Pierce said, "I am most pleased in commending your long and faithful performance which has culminated in the award of the MAC 10,000 Hour Accident-Free Lapel Pin. It is a well deserved symbol of the outstanding professionalism and skill you have displayed in your flying duties."

The OBSERVER regretfully announces the death of Mrs. Isabel Hyde, wife of SMSgt. Donald B. Hyde, Detachment 3, Hq. AWS, Sunnyvale, Calif. Mrs. Hyde died on November 21 after an extended illness.

School, travel and love get captain back to AWS

LANGLEY AFB, Va., — After seven years of study, a trip to Europe and a love affair, Capt. David F. Conroe has finally returned to Air Weather Service. Captain Conroe spent most of this seven year span participating in educational and training programs in quest of an Air Force commission.

After completing basic training at Lackland AFB, Tex., Captain Conroe, then an airman, was sent to Chanute AFB, Ill., for weather observer training. He was later assigned to Loring AFB, Me., after technical school, which was his first duty assignment.

Inspired by his commander to continue his interrupted education, Captain Conroe set out to obtain a meteorology degree and a commission through various Air Force commissioning programs available to him at the time.

Soon afterwards, Captain Conroe was selected for Officer Candidate School. He graduated from the last class of the now defunct OCS. A bright spot

during his tenure in OCS was meeting his future wife, the former Miss Ruth A. Martin.

After obtaining his commission, Conroe was trained and assigned as a materiel control officer in Europe. The European tour gave him a stable assignment which allowed him to complete two years of off-duty courses with the University of Maryland.

The courses taken while in Europe were sufficient to enable Captain Conroe to enter weather officer training at the University of Michigan. He completed this training and remained at the institution under the Air Force's Bootstrap Program.

Finally after seven years of study, a tour in Europe and a love affair, which led to marriage, Captain Conroe received his bachelors degree in Meteorology and Oceanography. He has since returned to Air Weather Service as a forecaster with Detachment 2, 5th Weather Wing, Langley AFB, Va.

Think you're seeing flying saucers? Better check, it may only be Venus

By
Capt. Michael T. Schwitters

Hq. AWS—A twinkling, dancing light appears in the night sky, seeming to move against the starry backdrop. The result will be swamped switchboards at police stations, newspapers and Air Force bases, reporting the sighting of an unidentified flying object or UFO. But the dancing

light has a much simpler explanation.

Once every 19 months this spectacular object becomes visible in the evening sky. The planet Venus in its orbit around the sun becomes positioned for earthly observers to see this brightest of all heavenly bodies, next to the sun and moon, as the "evening star."

Often, as the planet sets on the western horizon, the earth's atmosphere plays tricks with its light. The brilliant "star" appears to dance and change color. These interesting antics have often led to reports of flying saucers by those who are unfamiliar with "heavenly happenings."

During the winter season this year, Venus will appear to move in relation to the sun. Throughout this month and January the evening star will appear at its furthest eastward separation from the sun. It will set about three hours after the sun, presenting a spectacular sight as a "Christmas star" in the cold winter sky.

Observation with powerful binoculars or a small telescope will reveal the "phases" of the planet as it sweeps toward the earth in its orbit while coming more and more in front of the sun. On the first of December about three quarters of its disk will be illuminated, by January 30th it will appear as a tiny "half moon," and as the planet rapidly catches up to the earth during March a thinner and thinner crescent will be observed. Since it is also getting closer to us the apparent size of Venus will also be increasing.

These two effects, size and the amount of visible illumination, work together to determine the star-like brightness of the planet. The two come in balance on the first of March when it will shine its most brilliantly. It will be so bright in fact that for an observer who knows where to look, Venus will easily be visible in the daytime sky. After early March its orbital motion will carry it quickly between the sun and the earth and it will become lost in the sun's glare.

Venus makes its closest approach to earth on April 8 when it will be 26,325,352 miles from us. It then will hurry beyond the sun to drift further and further west of the sun where it becomes the morning star. Early risers will witness the above events in reverse and a few will undoubtedly see a UFO in the morning sky.

For 24th Squadron Detachments

Jamboree time again

RANDOLPH AFB, Tex., — The 17 detachments in the 24th Weather Squadron have whetted their forecasting skills and are now contending for the honor of being the second winner of the 24th Wea. Sq., Forecaster's Jamboree and gaining possession of the Jamboree Trophy for the next year. Competition began last month.



Detachments compete in either the eastern or western league. The unit which earns the fewest error points on forecasts covering surface winds and temperature, winds at 20,000 feet, freezing level, ceiling and visibility is crowned champion.

In last year's first annual contest, Detachment 21, Craig AFB, Ala. emerged as squadron champion after edging out Hill AFB, Utah, the Western League titlist, on the last day of forecasting.

NCO solos in quest of wings

LANGLEY AFB, Va., — Sgt. Jorge Nieto-Reyes, a citizen of Colombia, South America and a member of the 5th Weather Wing, recently made his first solo flight in his quest for a commercial pilot's license.

Preceding his trip to the United States, Sergeant Nieto-Reyes worked his way through school as a technician in a dental laboratory in Colombia and also passed a course in general accounting.

Prior to joining the Air Force in 1966, Nieto-Reyes worked as a welder in New York City and a mechanic in New Orleans.

Sergeant Nieto-Reyes now needs 25 flying hours for his private pilot's license. He plans to fly tourists in Colombia.

Clellan AFBs, Calif., and Sheppard, Webb and Reese AFBs, Tex.

Forecasters in each detachment will compete during the late fall, most difficult time of year for weathermen. Weather for a neutral station is forecast to offset any advantages some detachments may have because of climate or location.



GRASPING A PIECE OF HIS TORN shirt which was cut after his first solo flight, is Sgt. Jorge Nieto-Reyes, a member of the 5th Weather Wing, Langley AFB, Va. Lt. Alan P. Beck, 5th Wea. Wg. information officer, who performed the shirt cutting ceremonies, which is a custom after all first solo flights, is at right.

Wxmen name "Professor of Precipitation"

ALLBROOK AFB, Canal Zone-Weathermen here and at Howard AFB, Panama, have chosen an interesting and exacting method to determine who among them are the best forecasters.

In a land where 65 inches of rain falls annually, the weathermen of Detachment 5 at Howard and Det. 6 at Albroom, about 10 miles apart, have taken to predicting the exact monthly rainfall. The forecaster coming closest is called a "Professor of Precipitation."

In October, SSgt. Kenneth D. Peabody of Det. 6, said 11.25 inches of wet stuff would fall at Howard. He was off by only .12 inches. SSgt. Jose R. Torres and Sgt. Richard C. Doughty, both of Det. 5, said 9.34 inches would fall at Albroom. They were slightly over the mark with 9.23 inches actually measured.

The Professor of Precipitation contest was developed by SSgt. Donald A. Labonte, an observer with Det. 6.

In all, 38 weather forecasters, observers, maintenance men and clerks put entries in the forecast pool during October.

Detachments 5 and 6 provide meteorological support for the 24th Special Operations Wing, and military components of the U.S. Air Force Southern Command.



A MONTAGNARD TRIBESMAN of the central Vietnam highlands and SSgt. Wilbur F. Bready, Detachment 5, 30th Weather Squadron, Pleiku AB, Vietnam, inspect a newly finished crossbow. Det. 5 has aided the Montagnard crossbow industry by selling the crossbows and other merchandise at the base weather station. During a six month period, the weathermen netted \$8,000.00 in the sale of Montagnard merchandise. The detachment was also recipient of the first annual Pleiku Civic Action Program Award for their assistance rendered to the Montagnard Tribesmen.

Detachment wins award for aid to tribesmen

PLEIKU AB, Vietnam - For an outstanding civic action program, Air Weather Service's Detachment 5, 30th Weather Squadron, was recently awarded the first annual Pleiku AB Civic Action Program Award, at this central Vietnam highland base.

Det. 5's civic action program won with its two-fold missions, which are regular visits to the village and assisting in the Montagnard Crossbow Industries.

Weather personnel headed by Capt. Thomas J. Ramsey, Det. 5, civic actions officer, are frequent visitors to the Montagnard villages in the Pleiku area. During these visits, weather personnel assist medical and dental teams in treating the villagers. The men also participate in self

help and assistance programs to enhance the Montagnard's life.

The second half of the weather unit's civic action program deals directly with the Montagnard Industries project. Weather personnel make frequent visits to the Montagnard artisans to buy crossbows and other wares for sale through the base civic action program.

The crossbows and other wares are sold in the weather station to transient crews and base personnel alike, with the profits going directly to the Montagnard tribesmen. During a six month period this year, weather personnel sold more than \$8,000 worth of merchandise for this project.

Room of month winners visit California, 9th Sq.

OFFUTT AFB, Nebr.-Three 2nd Weather Squadron (Air Force Global Weather Central) enlisted men recently toured the 9th Wea. Sq. headquarters at March AFB, Calif., as winners of the 3rd Weather Wing "Room of the Month Program."

Sgt. Myron D. Holter and Airman Thomas C. Jakel and Basil Filippone topped the contest in which all MAC units at Offutt AFB participated.

The men were granted a three-day pass and traveled to the

Southern California base via a SAC courier aircraft. The visitors were greeted by Col. Hubert E. Harvey, 9th Wea. Sq. commander and Sgt. Joel C. Berry who acted as tour guide.

The weathermen also toured Riverside, Los Angeles and Disneyland during their stay. They also toured Las Vegas for a day's visit. Prior to their departure, the three men received a detailed briefing and tour of the 9th Wea. Sq. facilities.

Following the sun in Puerto Rico...with telescope

RAMEY AFB, Puerto Rico - Located two miles east of Ramey AFB, Puerto Rico, is Air Weather Service's first military operated and owned optical solar observatory. Run by Operating Location 7, Detachment 7, 4th Weather Wing, the unit is

manned by six military personnel and a civilian engineer.

The mission of the observatory is to observe and report solar activity to the Solar Forecast Center at Colorado Springs, Colo., and to forecast future activity.

The observing function is performed using a Razdow Solar Telescope, actually two telescopes mounted on one spar or frame. They are called white light and flare patrol telescopes.

The white light is a simple telescope used to observe the continuous spectrum emitted by the sun. It consists of two lenses and a prism used to deflect the image onto a plotting board.

From the board, the sunspots are traced onto a sheet of white paper. This method allows the observer to view unfiltered sunlight without damage to the eye. The sunspot information is then coded and transmitted to the Solar Forecast Center.

The flare patrol telescope is a little more complicated. It contains a filter which allows only a small portion of the sun's spectrum to pass; that radiation emitted by excited atoms of hydrogen (Hydrogen-Alpha). This telescope sees only the middle layer of the sun's atmosphere. It has been found that flares and their associated phenomena are more readily seen and studied in this particular portion of the spectrum.

Activities which have been found to be good flare predictors are also viewed best in H-alpha. After passing through the filter of the flare patrol, the image is transmitted into a television circuit which allows continuous viewing, and into a 35mm motion picture camera. The camera

usually records two frames per minute.

The northwest coast of Puerto Rico was selected for AWS's solar observatory because it is believed to be an ideal location for an observing site since the cloud cover remains inland until late

afternoon on most days. There is also very little terrestrial atmospheric disturbance to interfere with the seeing conditions.

This observatory is the first of three solar observing sites to be operated by AWS.



CHANGING THE SETTING on the 35mm camera attached to the flare patrol telescope at AWS's Solar Observatory in Puerto Rico is Maj. Frank A. Hegwer, Observatory commander. Adjusting the telescope's sun follower device is Bud Frichette, the only civilian assigned to the AWS operated solar observatory.



DRAWING SUNSPOTS with the aid of a white light telescope is TSgt. Gary D. Miller, Operating Location 7, Detachment 7, 4th Weather Wing, Sergeant Miller is a member of a six-man team which is operating Air Weather Service's first completely owned and operated solar observatory.

Alaskan weathermen have the real Christmas spirit

It won't be long. Pretty soon that little, round, red-suited rascal will once again take to the air to deliver his happy cargo to children all over the world. And children everywhere will be leaving cups of cold cocoa and stale cookies on the mantelpiece as a bribe for that jolly old elf, Santa Claus.

For fourteen years, the Air Weather Service has been giving Saint Nick a hand. Costs of labor being what they are (elves don't come cheap you know), Santa has been unable to afford a secretary. Mrs. Claus helped as much as she could, but it wasn't until the 58th Weather Reconnaissance Squadron decided to lend a helping hand in 1955 that Santa was able to keep up with his mail.

That year, slightly over 800 letters from Santa were remailed for military parents from the Santa Claus House post office near Eielson AFB, Alaska, where the unit was stationed. In 1958, the Santa letter program was taken over by Detachment 1, 55th WRS, which replaced the deactivated 58th. This year, Det. 1 is continuing the program under its redesignation as Det. 5, 9th Weather Reconnaissance Wing.

Since 1955, almost 93,000 letters have been remailed for grateful parents by these weather reconmen. This year should mark the attainment of the 100,000 letter mark for the volunteer mailmen.

Sometimes the tedious job of handling this mail is made easier by the letters that "Santa's helpers" receive from children.

One boy wrote:

Dear Santa Claus,

I am 8 years old, in the third grade and you know that these little creeps keep telling me you aren't a Santa. My mother believes you are you. So do I. If you are you please bring me a lost in space stop and go set and a robot, and anything that you have handy. Bring my Mother a blue dress size 7. I have to take her to a party.

What can I leave you and Roudoff under the tree Santa. If you have time answer my letter so I can show these nit-wits you are you, O.K. I don't have a chimney so use the front door. I'll be listening for you.

Your best pal,
Ricky

Another young man asked, "Have I been good enough to get a remote control that put's you at the wheel of a auto transport truck that delivers 9 cars? And have I been good enough to get the lowest prized walkie talkies of two pair?" He was thoughtful enough to include the prices of both the truck and "walkie talkies," to save Santa the trouble of finding them himself.

Still a third child sent in a list, neatly typed, chosen from the catalogs of two prominent mail order firms. Included were the price, catalog order number and a brief description of each of several items.

The men of Det. 5 may not make it home for Christmas. But this year, thousands of youngsters will bring Christmas to them.

dear Santa Claus
I have been a little
bit good Would you
bring me Baby Huggy
Doo And New
Shoes

I Love You
Whole Bunch
Don't S ALfeto

A GOOD EXAMPLE of the mail received by the volunteer "Santa's helpers" of Detachment 5, 9th Weather Reconnaissance Wing is this letter from a young lady. This is the fourteenth year that

weather reconmen at Eielson AFB, Alaska, have helped Santa by mailing letters from Santa Claus House post office, near Eielson. Over 92,000 letters have been remailed in those fourteen years.



LOADING SANTA UP with mail for children are two members of Detachment 5, 9th Weather Reconnaissance Wing, Eielson AFB, Alaska. In the background is Santa Claus House post office,

near Eielson, where letters sent in by parents are mailed to children all over the world. Over 92,000 of these letters have been mailed since the program was begun in 1955.

53rd helps out with Cold Crystal

RAMEY AFB, Puerto Rico—Aircrews and maintenance personnel of the 53rd Weather Reconnaissance Squadron recently deployed an air support task force to Ramstein AB, Germany in support of Project Cold Crystal.

During the 90 day operation crews will fly low-level cold-

fog dissipation flights over Hahn, Bitburg and Spangdahlem Air Bases. The experimental fog seeding missions will hopefully produce invaluable information on fog control specially in airport areas.

The object of the mission will be to keep bases open and

operating that would otherwise be closed down to air traffic due to the poor visibility in foggy conditions.

Two WC-130 aircrews and approximately 25 support personnel made the trip across the Atlantic. The aircrews will be rotating back to Ramey on a 30 day basis.

5th Wing hosts symposium

LANGLEY AFB, Va. — The First Annual Tactical Weather Symposium dealing with support requirements was recently hosted by the 5th Weather Wing, here.

Created for the purpose of

briefing interested agencies on current status of tactical weather equipment and doctrine, the conference provided a review of concepts and doctrines plus weather equipment requirements for tactical weather support.



SOME OF THOUSANDS of letters received by Detachment 5, 9th Weather Reconnaissance Wing, Eielson AFB, Alaska, are dumped on a desk by Sgt. Wayne Tippin of Det. 5. The letters, which are received from parents all over the world to be remailed by the volunteer Det. 5 mailmen at Santa Claus House post office near Eielson, are sorted by Staff Sergeant Lewis.

Aviano radar commissioned

AVIANO AB, Italy—The first weather radar of its type to be installed in Europe was commissioned recently during ceremonies held by Detachment 19, 31st Weather Squadron, here.

Participating in the ceremony were Col. Thomas J. Arbogast, commander of the 2nd Weather Wing, Wiesbaden AB, Germany. Maj. Edward M. Linn, detachment commander, Col. Glyn W. Ramsey, 40th Tactical Group commander and members of the Italian Air Force.

The radar unit, AN/FPS-77, will provide forecasters with thunderstorm activity information within a 200 nautical mile radius of Aviano. This data will be disseminated immediately to NATO weathermen throughout Europe and the Mediterranean area over teletype circuits.

The new set presents information on three scopes, and enables the observer to pinpoint the location, direction of movement, speed, height, and intensity of thunderstorms within its operating range. Included in the many advanced capabilities of the set is a unique memory feature which retains all information until it is electronically erased.

The sophisticated unit was installed by the 2874th GEEIA Squadron, Ramstein AB, Germany, and checked by the 21st Weather Squadron field maintenance shop, Torrejon AB, Spain.



CUTTING A RIBBON to officially begin operations of the new FPS-77 weather radar unit in Europe is Col. Glyn W. Ramsey, 40th Tactical Group commander, while Col. Thomas J. Arbogast, 2nd Weather Wing commander holds it steady.

Joining in the commissioning ceremonies are (right to left) Col. Aldo Dominutti, Italian base commander of Aviano air base and Lt. Col. Fernando Cersuola, staff weather officer to the 5th Allied Tactical Air Force.

Bronze Star

Capt. Roland E. Barth, 7th Weather Squadron, Heidelberg AB, Germany, has been presented the Bronze Star for meritorious service as chief forecaster, Detachment 9, 30th Weather Squadron, Da Nang AB, Vietnam, from Sept. 5, 1967 to Feb. 5, 1968, and as commander, Det. 36, 30th Wea. Sq., Tuy Hoa AB, Vietnam from Feb. 6, 1968 to July 4, 1968.

Recent promotions for AWS airmen

The following named airmen have been promoted to the rank indicated, as of Nov. 1, 1968.

To TSgt.

Robert W. Barber and Jerry P. Faulkenberry.

To SSgt.

John F. Mullins, Stephen D. Rogers, Harry R. Snider Jr., Dale E. Swift and Denis E. Tharp.

3rd Weather Wing

To CMSgt.

Martin W. Dwyer.

To SMSgt.

William C. Russell, James B. Siegel and King Tanigawa.

To MSgt.

Donald C. Curtis, Jess E. Gunter Jr., Jerry M. Hays and Jay F. Mavity.

The following named 7th Weather Wing airmen have been selected for promotion in the 69-2 cycle (December 1968 to May 1969) to the grades indicated.

To MSgt.

Robert E. Hackler, Billy R. Jones, Amos R. Krause, Richard E. Mote and Robert A. Young.

To TSgt.

Daniel A. Adders, Robert L. Anderson, Donald L. Bronson, Rudolpy Cary, Donald B. Cleaver, Ambrose W. Denton Jr., James E. Donahue, William E. Donnelly Jr., Roy B. Forrester, Roger K. Gordon, Richard E. Hancock, Lewis W. Harris, Eddie Hrabal Jr., Deal D. Huff, Donald L. Jenkins and Jack R. Miller.

Additional promotions to tech sergeant include Charles R. Nabors, Gabriel C. Olmedo, Harry F. Petty Jr., Roger A. Poppert, James A. Ragland, Roberto Sandoval, Miguel D. Sena Jr., Marvin O. Shavers, Elmer Sinclair, Charles Springer, Junior R. Taylor, Charles E. Webb, Leonard Whitcomb, Jack A. Widner, Gerald D. Winings and Ray J. Worstell.

To SSgt.

Andrew J. Blatchely, Anthony W. Comaduron, Dennis A. Crull, Carl R. Drummond Jr., Richard J. Eason, Jimmie R. Faulk, Volney H. Ford II, Thomas P. Imfield, Sherman L. Johnson, John R. Liptrap, Richard J. McAvoy and James M. Miller. Also promoted to staff sergeant were John E. Mullins, David T. Mursch, James S. Parchman, David P. Pigors, John J. Rivers, Peter K. Schlager, Charles D. Sweeny, Denis E. Tharp, Stephen A. Trumbore, Michael P. Tullidge, Jerry Whitaker and Robert D. Wright.

NCO teaches English, cited by Japanese

YOKOTA AB, Japan—SSgt. Robert W. Childers, 56th Weather Reconnaissance Squadron, recently received a letter of appreciation for his work as a part-time English instructor to officers and NCOs of the Japan Ground Self Defense Forces (JGSDF).

A planning and scheduling technician with the 56th, Sergeant Childers has been teaching English to JGSDF members at Kokubunji, near Tachikawa, Japan, since March 1968.

Maj. M. Nagayama, superintendent of English at the school and his assistant, Capt. Y. Takahashi presented the letter of appreciation to Sergeant Childers.

Did you ship on Queen Mary?

Hq. AWS—The Museum of the Sea, 600 East Ocean Blvd., Long Beach, Calif., would like to speak to all Air Weather Service personnel who shipped on the Queen Mary during World War II.

Museum officials are trying to prepare a history of the ship's wartime service, but a lot of the records of the outfits that shipped aboard her have been lost.

She carried more than 750,000 troops a total of more than 500,000 miles during the war.

AWS, NASA sign agreement for research

WASHINGTON, D.C. — An agreement was made recently between an Air Weather Service unit and a NASA organization which will aid in research on the earth's atmosphere.

Air Force's Environmental Technical Application Center (ETAC), a unit of the 6th Weather Wing, and the National Space Science Data Center, a division of the National Aeronautics and Space Administration, agreed to combine forces for the handling of atmospheric data obtained from satellites and other high-altitude scientific equipment.

ETAC is the organization responsible for a large part of the research carried out in AWS. One of its responsibilities is the collection and consolidation of high-altitude atmospheric data for the Department of Defense. The Data Center has a similar responsibility for NASA. It was felt that combining their efforts would result in more effective use of the data.

The agreement was signed by Col. Arnold R. Hull, 6th Wea. Wg. commander, and Dr. J. I. Vetti, Data Center director. One result of the agreement is a space data branch manned by ETAC personnel, which will use the information to help solve related problems of both agencies. Manning the branch are Captains G. D. Boynton and R. A. Hankins.

Col. Garlock logs 15,000

McCLELLAN AFB, Calif. — During a recent aerial refueling mission, Lt. Col. Carlton F. Garlock, 55th Weather Reconnaissance Squadron, here, logged his 15,000th flying hour while his WC-135 weather aircraft was receiving 40,000 pounds of fuel from a KC-135 Stratotanker.

A WC-135 flight examiner pilot and assistant operations officer with the 55th WRS, Colonel Garlock's 26 year flying career has spanned the gamut of flying machines, such as the B-24, L-20, C-54, C-118 and C-135.

Many of these hours were flown in support of major U. S. Air Force operations, such as the Congo Airlift, Operation Deep Freeze and the Vietnam buildup. His B-24 time includes 40 combat missions in the Pacific theater during World War II.

After landing, the colonel was greeted and congratulated by his wife, Guelda, his squadron commander, Col. H. P. Bilyeu and Col. Felix G. Brenner, 9th Weather Reconnaissance Wing commander.

The 15,000 flying hour mark is the equivalent of flying around the world 200 times.



A ONE MAN WEATHER station, Capt. Phillip W. Duchemin, (right) Operating Location 2, 2nd Weather Wing, is briefing Maj. Jack A. Henry, operations officer for Tempelhof Airport, Berlin, on current weather conditions in preparation for his flight to Mildenhall, England.

Lone officer operates Berlin's weather watch

WIESBADEN AB, Germany—Capt. Phillip W. Duchemin, Operating Location 2, 2nd Weather Wing, has the unique job of providing weather information to the many customers flying in and out of Tempelhof Airport, Berlin.

Acting as a one-man weather station, Captain Duchemin provides the 7350th Support Group with operational planning forecasts, compiles forecasts for APTV broadcasting, provides U.S. Army Headquarters, Berlin Brigade, with wind reports for fall-out plots and briefs Air Force

crews in preparation for their flights to Wiesbaden, Rhein-Main and other bases throughout Europe.

He also provides routine forecasting for the Army aviation detachment at Tempelhof and for the G-2 and chemical divisions of the Berlin Brigade. These services are normally accomplished in an eight-hour working day, but Captain Duchemin is on call around the clock to brief transient aircraft crews, special VIP flights and supply air traffic control with emergency weather information.



Garlock

Commendation Medals



U.S. Air Force Commendation Medals for the following named Air Weather Service members have been approved or awarded recently.

Col. Hal H. Dunning, (First Oak Leaf Cluster), 58th Wea. Recon. Sq.

Lt. Col. Jeremiah Creedon, Hq. AWS.

Lt. Col. Herbert Edson, 3rd Wea. Wg.

Lt. Col. William D. Kleis, 6th Wea. Wg.

Lt. Col. Paul G. Schauwecker, 26th Wea. Sq.

Lt. Col. Charles R. Schifferdecker, Det. 16, 3rd Wea. Sq.

Lt. Col. Ralph W. Thomas, (First Oak Leaf Cluster), Det. 1, 1129th USAF Special Activities Squadron.

Maj. Richard H. Coan, (First Oak Leaf Cluster), 57th Wea. Recon. Sq.

Maj. Eugene O. Godman, Det. 24, 15th Wea. Sq.

Maj. Earl R. Kreins, ETAC.

Maj. Rober R. LeClair, 2nd Wea. Sq.

Maj. Richard G. Lutz, 55th Wea. Recon. Sq.

Maj. Raymond J. Strauss Jr., 56th Wea. Recon. Sq.

Maj. Willys D. Wuest, Det. 1, 1129th USAF Special Activities Squadron.

Capt. Ellen E. Blinn, Det. 21, 15th Wea. Sq.

Capt. Robert L. Carter, 1st Wea. Wg.

Capt. Harold C. Herring, Det. 1, 1129th USAF Special Activities Squadron.

Capt. Edward C. P. Jennings, 58th Wea. Recon. Sq.

Capt. Berry F. Major Jr., 9th Wea. Recon. Wg.

Capt. Joseph W. Martin Jr., 55th Wea. Recon. Sq.

Capt. Richard M. Murphy, 58th Wea. Recon. Sq.

Capt. George E. Wortham, Det. 6, 29th Wea. Sq.

First Lieutenant Ross G. Hallberg, Hq. AWS.

CWO Anthony J. Paonessa, 9th Wea. Recon. Sq.

SM Sgt. Russell O. Brunn, Det. 13, 26th Wea. Sq.

SM Sgt. Wayne A. Carlson, (First Oak Leaf Cluster), Hq. AWS.

SM Sgt. Lawrence D. Davis Jr., ETAC.

SM Sgt. Bertram R. Grigsby, (First Oak Leaf Cluster), Det. 2, Hq. AWS.

SM Sgt. Edwin R. Lappi, 3rd Wea. Wg.

SM Sgt. Robert F. McGlew, ETAC.

SM Sgt. Ervin L. Tuttle, Det. 6, 28th Wea. Sq.

MSgt. Morris T. Bickers, 56th Wea. Recon. Sq.

MSgt. Robert G. McKeever, Det. 6, 29th Wea. Wg.

MSgt. Everett R. Stone Jr., 9th Wea. Recon. Wg.

MSgt. Theodore E. Wood, Det. 11, 6th Wea. Wg.

TSgt. Malcolm L. Craig, (First Oak Leaf Cluster), Det. 18, 20th Wea. Sq.

TSgt. George H. Everett, Det. 21, 9th Wea. Sq.

TSgt. Paul M. Farkash, Hq. AWS.

TSgt. Edward Fields, Det. 21, 6th Wea. Wg.



TSgt. Alvin B. Hedger, (First Oak Leaf Cluster), 2nd Wea. Wg.

TSgt. William C. Kelly Jr., (First Oak Leaf Cluster), Det. 1, 20th Wea. Sq.

TSgt. Floyd C. Mackey, Det. 6, Hq. AWS.

TSgt. Phil J. Murphy, (First Oak Leaf Cluster), Det. 2, Hq. AWS.

TSgt. Joseph D. Rogers, OL-5, Det. 7, 4th Wea. Wg.

TSgt. Roscoe Sconyers Jr., Det. 6, Hq. AWS.

Another award goes to Lajes Detachment

LAJES FIELD, Azores—Winning weather awards seems to be very easy for Air Weather Service's Detachment 19, 15th Weather Squadron, here. The outfit was recently selected as the Military Airlift Command Outstanding Weather Maintenance Unit. Detachment personnel will receive a trophy to display with the 1967 AWS Bassett Award.

The detachment has demonstrated versatility, ingenuity and hard work in maintaining a high in-commission rate of weather equipment at Lajes Field. Its outstanding preventive maintenance program was made more difficult by its distance from the mainland. The unit assists or repairs runway, upper air, weather station, dock area and air rescue equipment on the island.

TSgt. Thomas E. White, ETAC.

TSgt. Walton E. Wise, Det. 1, 1129th Special Activities Squadron.

TSgt. William G. Workman, 6th Wea. Sq. (Mobile).

SSgt. Myron E. Exford, Det. 2, 53rd Wea. Recon. Sq.

SSgt. Peter Foley, Det. 1, 2nd Wea. Sq.

SSgt. Carmelo M. Gonzalez, (First Oak Leaf Cluster), 26th Wea. Sq.

SSgt. Avon P. Hall, Det. 1, 2nd Wea. Sq.

SSgt. Jerry C. Hayes, Det. 1, 2nd Wea. Sq.

SSgt. Harold Laws, Det. 2, 53rd Wea. Recon. Sq.

SSgt. John H. Marshall, 4th Wea. Wg.

SSgt. Wayne A. Moore, Det. 42, 7th Wea. Wg.

SSgt. Paul L. Noll, Det. 2, Hq. AWS.

SSgt. John R. Owens, Det. 2, Hq. AWS.

SSgt. Earl E. Raymond, Det. 20, 31st Wea. Sq.

SSgt. Harold E. Shere, Det. 2, Hq. AWS.

Sgt. James R. Adcox, Tan Son Nhut AB, Vietnam.

Sgt. Sherman L. Johnson, 15th Wea. Sq.

Sgt. David A. Mertens, 58th Wea. Recon. Sq.

Births

LUPLOW, Capt. and Mrs. David H., a son, Christopher David, at Port Charlotte, Fla. Father assigned to Det. 2, 30th Weather Squadron.

HAWK, Lt. and Mrs. Robert G., a daughter, Angela Jean, at Ft. Hood, Tex. Father assigned to Det. 14, 16th Weather Squadron.

LANGLEY, SSgt. and Mrs. Donald R., a daughter, Stephanie Renee, at Selfridge AFB, Mich. Father assigned to Det. 14, 12th Weather Squadron.

ON THE

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Highlights of Air Weather Service people at work and play.

AWS Global Report

Heidleberg, Germany

SSgt. John H. Dansby, Detachment 13, 7th Weather Squadron, has been named Junior Airman of the Year for Det. 13 and the 7th Wea. Sq.

A chief observer, Sergeant Dansby was selected for his outstanding job performance.

South Ruislip, England

Four Detachment 6, 28th Weather Squadron men were recently honored at Commander's Call. MSgt. William R. Hudda was named NCO of the Quarter, SSgt. William R. Canada was chosen NCO of the Year, Sgt. John T. Poindexter was selected Airman of the Year for Det. 6 and 28th Wea. Sq. and he was also named Detachment Airman of the Quarter. Poindexter was promoted to sergeant after he earned the above mentioned awards.

Wilfred B. Jones, a civilian at Det. 6, was awarded a 10 year Federal service pin.

Kirtland AFB, N.M.

A1C James E. McCarthy, 58th Weather Reconnaissance Squadron, has been selected Base Airman of the Month.

Airman McCarthy is a supply clerk at the 58th WRS.

Eugene, Oregon

A1C Michael E. Murphy, 123rd Weather Flight, has been presented the Outstanding Airman Award for his performance of duty while assigned to the 142nd Fighter Group Headquarters.

Wheeler AFB, Hawaii

A1C Patrick J. Machado, OL-1, Detachment 4, 1st Weather Wing, has been chosen detachment Airman of the Quarter for July through September.

TSgt. Richard E. Weaver, OL-1, Det. 4, 1st Wea. Wg., has been selected detachment NCO of the Quarter for July through September.

Fuchu AS, Japan

SSgt. Peter Pezewski, Detachment 1, 20th Weather Squadron, was recently named detachment NCO of the Quarter for July through September.

Richards-Gebaur AFB, Mo.

Detachment 9, 29th Weather Squadron's observing function has been awarded the Blue PRIDE Award for achieving the lowest error rate in transmitting observations to the Manual Data Room and from the U. S. Weather Bureau that Det. 9 has ever recorded.

More than 8,000 observations are relayed to the Manual Data Room monthly and over 1,000 observations are recorded monthly by Det. 9 from the U.S. Weather Bureau.

Perfect re-up record at Korat

KORAT RTAB, Thailand—Sgt. Clarence E. Daniels, an observer for Detachment 16, 10th Weather Squadron, reenlisted maintaining a 100 per cent re-up rate for the detachment in 1968.

Retirees

The following AWSmen retired in November:

Lt. Col. Paul G. Schauwecker, Senior Master Sergeants Russell O. Brunn, Lawrence D. Davis Jr. and Edwin R. Lappi, MSgt. Robert G. McKeever, Technical Sergeants Malcolm L. Craig, George H. Everett, Edward Fields, John R. Hart, William C. Kelly Jr. and Floyd C. Mackey and SSgt. Wayne A. Moore.



WHILE FLARES LIGHTED the sky an F-100 Supersabre made a low-level strafing run of a target area. A straight line of tracer bullets can be seen striking the target, ricocheting and forming curved patterns against the night sky. This

photograph, taken by Maj. William H. Quelch Jr., took top honors in the final month of the OBSERVER'S photo contest. Camera used was a Rolleiflex with the lens set at f16 and held open for ten seconds to capture the desired effects.



Sgt. Jesse Frey

ROSE BOWL

Ohio St. (9-0) battles Southern California (9-0-1) in a bid for national supremacy.

During the season Ohio St. averaged 33 points per game and allowed their opponents 15. USC averaged less offensively with 24 points per game while allowing their opposition just 14.

They each played two like opponents. USC beat Northwestern 24-7 while State won 45-21 and USC downed Oregon 20-13 with State winning 21-6.

The Buckeyes have one BIG task — Stop O.J. If they stop him, the crown is in their hands!

ORANGE BOWL

Kansas (9-1) with one of the most productive offenses in the nation, meets Penn State (10-0), the only major college with a perfect record.

Kansas rolled up 380 points to their rivals' 175. So far, Penn St. has scored 309 points against 94.

Kansas State was the only like opponent as they lost to Kansas 38-29 and the Lions 25-9.

Penn State will have their largest defensive task of the season and if State's Kwalick and Pittman are healthy, the Kansas defense will have to be alert. The Lions must tighten up on pass defense if they're to have a chance in this one.

COTTON BOWL

Tennessee (8-1-1) opposes Texas (8-1-1). Both teams facing their toughest test of the year.

Texas, less impressive defensively, allowed their opponents an average of 19 points per game while the Vols gave up just 11. Offensively, the Longhorns amassed 34 points per game and the Vols 25.

Rice was the only similar opponent as they lost to Tennessee 52-0 and Texas 38-14.

SUGAR BOWL

Unbeaten, twice tied Georgia challenges Arkansas (9-1). Both teams sport highly respectable offenses with Georgia averaging 23 points a game and Arkansas 33.

Georgia, one of the few major unbeaten college teams in the country, has the edge defensively, allowing opponents just 10 points a game, while Arkansas allowed 19.

GATOR BOWL

Alabama (8-2), always a tough opponent, had one of their poorest offensive showings in quite awhile as they finished with just 174 points. Missouri (7-3) lost a couple of tough ones, but was strong in a number of victories. The Tigers scored 273 points.

The Crimson Tide, although having a less than desirable offense, were quite strong defensively as they gave up just 104 points. Missouri's defense was also impressive as their opponents netted 126 points.

LIBERTY BOWL

The December 14 Liberty Bowl matches Mississippi (6-3-1) and Virginia Tech (7-3).

Virginia netted 22 points a game and allowed just 13 against Ole Miss, the only bowl team to have given up more points than they scored. They averaged 17 points a game and gave up 18.

Mississippi's record is somewhat better than it shows, as Ole Miss came off with a 10-8 win over Alabama and played Georgia tight.

Tech also had some moments of glory as they whipped Florida State 40-22 and lost their season opener to Alabama 14-7. VPI's three losses were by a total of 27 points.

BLUEBONNET BOWL

Oklahoma (7-3) with a big win over Kansas, takes on Southern Methodist (7-3). The Sooners with a 32 points a game average gave opponents 20 a game. SMU netted 28 a game, while giving up 25.

SMU downed North Carolina St. 35-14 and Oklahoma won 28-14. The Sooners were defeated by Texas 26-20, while Texas dropped SMU 38-7.

PEACH BOWL

The first annual Peach Bowl at Atlanta, Georgia, will feature Florida St. (8-2) and Louisiana St. (7-3).

Florida St. lost two, but one was to arch rival Florida, 9-3. Their other disappointment was with Virginia Tech 40-22. State came roaring back however, rapping awesome Houston 40-20 and a number of others. All totaled, Florida St. scored 281 points and allowed 180.

LSU, as unpredictable as always, scored 190 points against 146. They each played two like opponents, Texas A & M and Mississippi St. LSU won over Texas A & M 13-12 while Florida St. won 20-14, Miss. St. lost to LSU 20-16 and State 27-14.

Shivar wins tennis title

LANGLEY AFB, Va.—Lt. Col. William H. Shivar, chief of operations division, 5th Weather Wing, has won the Virginia Men's Junior Veterans Singles Tennis Championship for the second time in three years.

In over 30 years of play Colonel Shivar has won about every title possible, including Interservice, USAF, PACAF, USAF, MAC, TAC and the 2nd and 8th Army championships.

He has played many of the greats including Ken Rosewall, Mal Anderson, Roy Emerson, Tony Trabert and Billy Talbert. In 1963 he teamed with Gen. T. J. Conway (now STRIKE Commander) in winning the Korean Senior Championship. And he also won the TAC Open Doubles with former TAC Vice Commander, Lt. Gen. William Eckert, former commissioner of baseball.

His two sons are following his footsteps. The oldest, Bill Jr., plays for the University of North Carolina and last year teamed with his father for the National father and son tennis championship at the Germantown Cricket Club in Philadelphia, losing only to the eventual winners in the quarter finals (7-5 and 10-8).

Walker, the youngest, has racked up 50 straight wins in his matches at Ferguson High School, Va.

Colonel Shivar was past operations officer at the 16th Weather Squadron, Ft. Monroe, Va. and before that commanded the 5th Weather Squadron in Vietnam.

6th Mobile trains allies in weather equipment repair

TINKER AFB, Okla.—The 6th Weather Squadron (Mobile) here, is presently hosting three foreign military visitors at the squadron's Weather Equipment Maintenance Section to train them in the operation and repair of weather equipment.

The visitors are here under the foreign exchange training program which trains allies in the use of American-made equipment. Their training began with the Basic Weather Equipment Maintenance Course at Chanute AFB, Ill.

First Lieutenant Lin-Hsien-Nan of the Chinese Air Force, completed the Instructor Training Course at Chanute, and will return to Chin-Chu AFB, Republic of China to instruct others in the fundamentals of weather equipment maintenance.

Two Iranian airmen, TSgt. Mohammed Reza Iradji, from the capitol city of Tehran and TSgt. Mohammed Reza Rostami, from Rasht on the Caspian Sea, will return to Iran as maintenance technicians upon completion of their training here.

The OBSERVER regretfully announces the death of Maj. Howard E. Van Vliet.

Major Van Vliet, an ex-weather forecaster, was killed when the C-47 he was piloting crashed near Ban Me Thout, South Vietnam.

SPORT SHORTS

Sea Scouts build craft

Capt. David P. Faulkner, better known as "skipper" to eight Sea Scout troops (Boy Scouts) is rebuilding a 26-foot craft formerly used for air sea rescue.

Captain Faulkner, commander, Detachment 36, 7th Weather Wing, and the eight scouts soon hope to test the durability of the craft on the California lakes.

Heidelberg has top grid team

The Heidelberg football Lions, which won the European High School Championship, included three 7th Weather Squadron dependents.

Ben F. Hicks II, son of Lt. Col. Ben F. Hicks, was a first unit tackle; Bob Bissell, son of Maj. Robert J. Bissell, was the Lions field general, while his brother Bob played linebacker.

During the season, the Lions rolled up 174 points while allowing their opponents just 44 in seven games and compiling three shutouts.

Hole - in - One

SMSGT. Johnnie M. McPeak, 3rd Weather Wing, Offutt AFB Nebr., ended his 4 1/2 year golfing career at Offutt with a hole-in-one on the 158 yard par three hole at the Capehart Course.

Now assigned to Detachment 14, 1st Weather Group, Vietnam, Sergeant McPeak ached the hole with a seven-iron.

Tinker man nets bowling awards

Sgt. David Rahkonen, Detachment 22, 15th Weather Squadron, holds a number of bowling records here.

Sergeant Rahkonen holds the record for all time high league series in Oklahoma City with a 782, and the high league average of 213.

Last fall while competing against over 200 keggers, he won a color TV for rolling a series total 730, which included a 269 game.

A member of the detachment maintenance section, the sergeant also finished second in the all events category in the annual Air Force Logistics Command Bowling Tournament that included a first place in the singles and doubles competition.

Ramey scouts sponsor Competition Camporee

RAMEY AFB, P.R.—Boy Scout Troop 253, sponsored by the 53rd Weather Reconnaissance Squadron, here, recently held a Competition Camporee at Survival Beach, Puerto Rico.

Participating with Troop 253 in the event were Troops 14 and 129 from Isabella and Aquada,

P.R.

Scouts were required to build their camp and cook sites from makeshift materials and were judged on the quality of their workmanship.

SSgt. John E. Goldstraw of the "Hurricane Hunters", is Troop 253's scoutmaster.



ENCAMPMENTS WERE INSPECTED by (from left to right) SSgt. John E. Goldstraw, Troop 253 scoutmaster, Lt. Col. George D. Thurman, 53rd WRS commander and Boy Scout officials from Ramey. The huts being inspected were just a part of the judging, as the Scouts were observed on all aspects of their camp. Separate awards were given for the different skills displayed by the Scouts.