

VNAF weather service ready; 1st weather group inactivates

TAN SON NHUT AB, Republic of Vietnam — The 1st Weather Group inactivated June 30, after six years of serving allied forces in Southeast Asia.

The group was activated here

in 1966 to provide weather support for US Air Force and Army combat units and other Free World Forces operating in the Republic. It reached a peak strength of 541 weather forecast-

ers and observers in September 1971.

Since the phasedown of US forces began, 1st WGP personnel have been training Republic of Vietnam Air Force personnel. This has resulted in the establishment of VNAF Weather Service. The VNAF has taken over weather service at seven bases throughout the Republic and at three locations jointly serving VNAF and USAF aircrews.

Early in the conflict, the group organized combat weather teams in support of the US Army in Vietnam. These teams, composed mostly of weather observers, deployed with Army units of brigade size or larger when necessary. The value of this concept was demonstrated in Operation Lam Son 719 when the movement of men and supplies and the air defense of Khe Sanh was facilitated by professional weather support.

During 1970-71, the 1st WGP developed procedures to use the Igloo White infiltration sensor system for the remote detection of rainfall. As a result, the group was able to provide detailed and accurate rainfall data for the Ho Chi Minh Trail network during monsoon season. The rainfall data was combined with weather radar

(Continued on Page 5)



TAN SON NHUT AB, Republic of Vietnam — US Air Force Capt. Gary M. Welch and Republic of Vietnam Air Force SSgt. Nguyen Phan Dat, Southeast Asia Weather Center (SEAWACEN) forecasters, analyze air pressure patterns. Air pressure patterns give weathermen clues to future weather conditions, which are important in the planning of fighter and bomber missions in Southeast Asia. (USAF Photo by SSgt. J. Scott Crist)

Det. 12 helps during Rapid City disaster

Det. 12, 9th Weather Squadron, Ellsworth AFB, S.D., had the rare but unexpected opportunity in June to aid fellow Americans in a time of disaster.

At the onset of the much-publicized Rapid City, S.D., floods, many detachment members went into the flooded districts and assisted in directing traffic, hauling food and clothing to trapped victims, and SCUBA diving while other members kept the volunteers fed.

Weathermen contributed food, clothing and shelter to those who had lost their homes and possessions. In addition, they all made themselves available for overtime and extra shifts in their regular jobs, and their jobs increased to include providing essential information to local officials and other weather bureaus.

Sgt. Daniel Weber, a Citizen's Band radio operator, was on the scene coordinating search and rescue efforts with other operators for five days in addition to his observing duties.

On the morning of June 10th, a large school bus owned and driven by TSgt. Harold Ash-

craft could be seen plowing its way through the flooded streets transferring units of blood from an endangered blood bank to a safer location. Four days later, he and MSgt. Paul W. Crecelius packed ice and supplies into Cleg-horn Canyon where people were isolated without water, gas or electricity.

First Lt. Alan Duff volunteered his services as a scuba diver and worked three days recovering victims and clearing debris from the Rapid City Water Treatment Facility. First Lieutenant Kneas and Sgt. John Gifford performed four days of volunteer traffic director duties.

TSgt. Wilfred Sibayan served as a volunteer diver; and he and his wife, Evelyn, coordinated efforts in providing food and refreshments to volunteer workers and to victims of the flood. SSgt. Fred Schroeder and Sgt. Edward Stone also did volunteer work during the disaster.

Capt. Charles Farmer, along with 1st Lt. John Sigmon and Maj. Roger Strand and his wife, Judy, although trapped for eight

(Continued on Page 5)

Chief Scientist ends career

HQ. MAC, Scott AFB, Ill. — The Air Weather Service chief scientist has retired after 39 years federal service.

Dr. Robert D. Fletcher, of Lebanon, Ill., retired after 22 years in AWS, serving as a technical consultant, Director of Scientific Services, and finally as the AWS Chief Scientist.

As chief scientist, Dr. Fletcher was the principal scientific advisor to Brig. Gen. William H. Best Jr., AWS commander. He was responsible for providing advice and recommendations on scientific and technical support problems related to weather service and the application of earth and space sciences to military operations.

Born at Lampacitos, Mexico, on Feb. 11, 1912, Dr. Fletcher attended elementary and secondary schools in California. He received a bachelor and master of science degree in mechanical engineering and a master's degree in meteorology from the California Institute of Technology. He was awarded his doctor of science degree in meteorology by the Massachusetts Institute of Technology in 1941.

Dr. Fletcher joined the US Weather Bureau and in 1942 became Supervising Forecaster for the Bureau's area encompassing Southern California, Southern Nevada and Arizona. In 1944, he went to Washington, D. C., to represent the Weather Bureau on matters pertaining to air pollution and the meteorological aspects of radar.

Dr. Fletcher was first associated with AWS during World War II as a technical consultant in the US and the China-Burma-India theater and also as an instructor in tropical weather at Howard Field, C. Z.

Dr. Fletcher then became an AWS technical consultant in the fall of 1950 and Director of Sci-

entific Services in October 1952. Because of his outstanding performance as director, Air Force Secretary Eugene M. Zuckert presented him the highest Air Force award for a civilian, the Decoration for Exceptional Civilian Service in November 1962. Upon



Dr. Fletcher

his retirement from federal service Dr. Fletcher again received this distinguished award from Secretary of the Air Force Robert C. Seamans Jr.

Dr. Fletcher's other distinguished awards include the 1968 Losey Award for 30 years of outstanding service to aeronautical meteorology and the Charles Franklin Brooks Award from the American Meteorological Society in February 1970 for outstanding service to the society.

During his career, Dr. Fletcher was president, councilor and fellow of the American Meteorological Society. He was elected Chairman of the Committee on Atmospheric Environment of the American Institute of Aeronautics and Astronautics in 1963.

Dr. Fletcher and his wife, the former Elsie Walser of Pasadena, Calif., will live in Tubac, Ariz.



NAKHON PHANOM RTAFB, Thailand — Sgt. Edward T. Moraski, with Detachment 25 of the 1st Weather Group's 10th Weather Squadron, prepares to release a pilot weather balloon. US Air Force

weathermen, to help gather data for weather conditions throughout Southeast Asia, release pilot balloons in Thailand and the Republic of Vietnam to measure wind speed and direction. (USAF Photo)

Command Line

Brig. Gen. William H. Best Jr.



In this complex, technological age in which we live, education and training is the key to performance. For the Air Weather Service, this is particularly true now when our people resources are being reduced, and we are called upon to do more with less. To put it another way, less quantity can only be made up by more quality.

We can take pride in our education and training program.

HQ USAF recently approved 88 weather officer positions as requiring a Ph.D degree. This is an increase of seven positions in spite of an overall decrease in weather officer authorizations. In addition, 466 other weather officer positions have been identified as requiring a masters degree, and 487 weather officer positions have been identified as requiring either intermediate or advanced Professional Military Education (PM-E). Also, we plan to enter 10 weather officers into a special 12-week program in oceanography at the Naval Postgraduate School, Monterey, California.

At our request, Air Training Command has developed a Staff Meteorologist Course to enhance officer capability for staff and command positions. The first class is scheduled to start in Aug. 1972. We believe this combination of education and training will better qualify our officers as scientists and managers and will increase their capability to apply meteorological knowledge to customer support problems.

We have also improved programs to train our airmen. Our NCOs are encouraged to attend the MAC NCO Academy to gain a better understanding of the Air Force and acquire supervisory skills. For FY 73, MAC has allocated to us 205 spaces to the NCO Leadership School for NCOs not eligible for the NCO Academy. This recognizes that our noncommissioned officers are playing an increasingly important role in the accomplishment of our mission. Air Training Command has also agreed to start a new 7-week chief observer course beginning July 1972. We plan to have all chief observers who are not graduates of the old 3AAR 25271 course attend this new course. A new advanced forecaster course for airman forecasters will start this fall.

In MAC Regulation 500-41, General Jack J. Catton emphasizes yet another way for our personnel to gain educational qualifications; namely, the Air Force Educational Services Program. This program is available at most military bases throughout the world, and I recommend you visit your Base Education Officer to learn what programs are available. I wish to add my encouragement for each officer, airman, and civilian in AWS to pursue these opportunities. These programs provide a means whereby all personnel may increase their knowledge and capabilities. I would, however, like to add a word of caution here. Weather officers should first earn an advanced degree in meteorology under AFIT prior to completing a masters degree in management or some other base masters degree program. Present Air Force policy does not allow a weather officer with a masters degree in any subject to be selected for a masters degree program under AFIT. We have tried to have this policy changed but have not yet been successful.

To make sure training courses and educational programs are current and meeting our needs, we must have feedback from the field. One proven management tool is AWS Form 57 which provides each graduate's evaluation of a training course or educational program. This form only requires a few moments to complete but pays big dividends. AWS/DOT reviews all AWS Forms 57 upon receipt. Trends, strong points, deficiencies, and problems are identified and brought to the attention of the appropriate agency or university with a request for corrective action when deemed appropriate.

Use of AWS Form 57 has enabled us to justify: including radar maintenance in Course 3ABR 30230; including new

observer procedures in the 3ABR 25231 Course; discontinuing courses when no longer effective; improving the basic meteorology program at a number of universities; changes in Course 3ALR 25330, Weather Forecaster; development of new courses such as Course 30ZR 2516-1, Staff Meteorologist, and Course 30ZR 2524-4, Advanced Meteorological Application; and the inclusion of test equipment usage, AN/F-MN-1 troubleshooting, soldering, tactical equipment, and upper air observing equipment in Course 3AAR 30270, Weather Equipment Technician. Another result is a reduction of training in the area of mathematics in Course 3AAR 30270.

If we have constructive and specific student evaluations, together with comments made at each echelon of command, we can work with the schools to tailor programs and courses to meet our requirements.

Education and training is the biggest bargain in the world today . . . for you, for me, for the Air Weather Service, for the Air Force, for America.

CMSgt. of AFGWC

CMSGT
CHARLES D. MCCARTHY
AF GLOBAL WEA. CENTRAL
OFFUTT AFB, NEBR.

CMSGT OF AFGWC
A NATIVE OF PITTSFIELD, MASS.

SPENT HIS ENTIRE CAREER IN AWS AS AN OBSERVER & CHIEF OBSERVER AFTER JOINING THE AIR FORCE IN OCT 1954.

SERVED A SPECIAL DUTY TOUR IN MISSILE SUPPORT AT PATRICK AFB, FLA., 1959-62.

DISTINGUISHED GRADUATE, MAC NCO ACADEMY 1968.

OVERSEAS SERVICE INCLUDES ENGLAND, BERMUDA, AND GREENLAND.

MARRIED THE FORMER SHIRLEY ANN COTTS OF MUNDESEY, NORFOLK, ENGLAND. TWO DAUGHTERS: DEBORAH AND SUSAN.

ENJOYS SPECTATOR SPORTS ESPECIALLY PRO FOOTBALL.

BY THOMAS H. BOLKOVAC

Kern receives medallion for lunar support

LOS ANGELES, Calif.—AWS's Lt. Col. Clifford D. Kern has been awarded a special medallion commemorating man's first lunar landing and a certificate from the National Aeronautics and Space Administration recognizing his role in the Apollo 11 mission.

Colonel Kern, now assigned to the Air Force Space and Missile Systems Organization (SAMSO) in Los Angeles, as Staff Meteorologist, was a member of the Department of Defense Recovery Team on duty at the Manned Spacecraft Center in Houston when the Apollo 11 crew made its historic landing on the moon and returned to earth.

Rugg retires; praises 'you' for support

After nearly 18 years, this is the last issue of the AWS command newspaper in which I will have the opportunity to address you. I cannot permit this occasion to pass without paying tribute and saying thank you to those who have been largely responsible for the success of the Observer over those 18 years—the past and present members of the global Air Weather Service.

Without your valued and invaluable interest, cooperation and dedication throughout nearly two decades, the fledgling AWS publication which took off from Andrews AFB, Md., in November 1954 would never have cleared the treetops. Your continued help, suggestions, gripes, ideas, items, pictures and other contributions since that time have kept us aloft.

With this issue, editorial responsibility for monthly production of the Observer passes to the Internal Information Division of Military Airlift Command headquarters (MAC/OII, Scott AFB, Ill. 62225). That office in AWS's parent command's Directorate of Information will continue to publish the Observer for all of Air Weather Service.

In order for this to be possible, the responsible people in MAC Information will need your continued support and a steady flow of news copy, pictures, story ideas, suggestions, and the like throughout the months and years ahead.

I am confident that the people of AWS—the Observer readers—will continue the wholehearted support for which I am privileged to say "Many thanks and thirty." John D. Rugg



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BRIG. GEN. WILLIAM H. BEST Jr.
Commander, Air Weather Service

Mr. John C. Morse—Editor
Chief Tech Services—MAC/OII

Pride in the Past—Faith in the Future



Another Glorius Weather Story

Sgt. Glorius Scruggs, wife of SSgt. Christian D., 58th Weather Reconnaissance Squadron, comprises 50 per cent of a 100 per cent Air Force family. Sergeant Scruggs is the first female member of the Kirtland AFB, N. M., Color Guard.

(USAF Photo)

SYMBOSIS at FWC

1st WWg., HICKAM AFB, Hawaii—"SYMBOSIS": The living together of two dissimilar organisms in a close association that is advantageous to both.

Webster's definition is biological, however Air Weather Service, Naval Weather Service, and National Weather Service (NWS) made symbiosis work on a human level for more than seven years. At Fleet Weather Central

(FWC), Pearl Harbor, since 1965, all three agencies worked hand in hand in joint meteorological projects that mutually improved mission results for all concerned.

On any given day at FWC, one might see an Air Force programmer working on a NWS upper air forecast request, or a Navy wind forecast for rocketry or ballistics practice; a NWS programmer installing new communications requests for both USAF & USN and a Navy computer specialist revising flight plan for MAC flights. Out in the operations room, forecasters of all three services are intently discussing a satellite picture over the Pacific Ocean. Such scenes are "Symbiosis" in action.

Air Weather Service assigned personnel to FWC to provide data to Pacific Air Force units that was at the time unavailable from other sources. FWC's ability to receive, process, analyze and transmit charts, messages and forecasts to the field was sufficient for AWS to invest personnel resources to "pay" for the Navy service. Operating Location 1, 1st Weather Wing was thus created from resources at the then Kunia Weather Central.

Tasked to provide computer operators, quality control monitors and computer programmers to complement USN and NWS efforts, OL-1 implemented increased flight forecasting, upper air analysis and forecasting and other related computer products and programs. Some of OL-1's contributions were automated use of aircraft reports, a refined tropical analysis program, coded bulletins for weather stations that did not have facsimile reception, automated flight forecasts for Pacific flights, forecasting using USN surface sea conditions and winds to accurately predict safe

Randolph runway plagued by Mexican Free-Tail bats

How would you like being a Supervisor of Flying (SOF) at a base which experiences the hectic variety of weather phenomena associated with South Texas, plus, the confusion of millions of bats migrating across your base flight pattern?

Just 11 miles off the approach end of Randolph runway 32R is Bracken Cave. From April to October, this cave is a sanctuary for 10-50 million Mexican Free-Tail Bats. They migrate from Mexico and many live in the cave during this period or use it as a stopover point in their flight northward.

The bats fit in your hand, weigh about one ounce and are capable of dodging an aircraft flying below 150 knots. But when injected into a T-38 engine, they cause it to self-destruct. If the engine power drop below 83 percent, the pilot will eject. What about the pilot on final approach who has just swallowed a bat in each engine?

To rid this problem, the Air Force has commissioned Drs. Timothy C. Williams and Leonard C. Ireland to evaluate the situation and offer advice which aids in formulating operational

procedures to enable safe night flying.

At present, San Antonio approach control radar is notifying the SOF when bats exit the cave at sundown. The SOF then notifies Doctor Ireland, who mans the base weather station's FPS-77 radar. This storm-detection radar is excellent in tracking the bats. The bats leave the cave, frequently rise to 10,000 feet and break up into smaller clouds, descend and turn south toward the agriculture areas near here. The evening migration starts about an hour before sunset and lasts several hours after sunrise.

Based on the bat cloud position, the SOF must take precautionary action to keep the T-38 flight pattern from entering the cloud. He may eliminate large circling patterns, ground controlled approaches or change local pattern entry points. As a last resort, he may cancel the flying for the night. Statistics reveal the average bat injected into a J-85 engine will cost the Government \$17,000 to repair. No airplane loss has resulted yet.

When the study is completed, no doubt the base weather station will have a new standard operating procedure entitled, "Bat Watch."

207th WF scans skies; serves 12,000 Guardsmen

The Shelbyville, Ind. 207th Weather Flight has been scanning Michigan skies to provide some 12,000 National Guardsmen with weather information.

The Air National Guard unit's forecasts haven't contained much good news since daily rain punctuated the first two weeks of annual training for the 38th Infantry Division at Camp Grayling, Mich.

Although the 207th calls the Shelbyville airport home, its members come from several states. It's full-time adviser, MSgt. David Evans, lives in Shelbyville.

The weathermen have been attached to the division's Aviation Battalion to provide flight forecasts but perform a number of meteorological functions for the entire 38th Division, made up of Guardsmen from Indiana, Michigan and Ohio. Weather information is often vital to the success of tactical operations.

The forecasting section is staffed with fully qualified meteorologists. Maj. Roger Winn, the unit commander, lives in Dayton, Ohio, and is chief forecaster at Wright-Patterson AFB, Ohio.

Capt. John Wilson and Tom Carney both are professional weathermen, Captain Wilson for the State of Illinois and Captain Carney for Tennessee's Environmental Protection Agency.

For many Guardsmen, the two weeks of training at Camp Grayling are rather rustic, as the exercises are designed to simulate combat conditions. But the 207th is tied to a sophisticated national network which backs up its local forecasting ability.

Teletypes bring in weather data from stations throughout the nation. Computer-plotted maps, satellite photos and extended national forecasts are pulled in by means of a national network. It also obtains radar summaries from Michigan cities.

Clark receives yearly rain during catastrophic month

Small talk at Clark AFB, R. P., lately has revolved around the weather—and for a good reason. The Philippine Islands are experiencing record rainfall during July that has become catastrophic.

The downpour began at Clark July 6 and has continued unabated for the remainder of the month.

The cause of the unusual rainfall has been the feeder bands and synoptic patterns associated primarily with tropical cyclone Susan which began July 7 and dissipated over China on the 14th. The unusually slow movement of the storm is given as one reason for the heavy rains. By July 28, the monthly rainfall at Clark amounted to 70.7 inches. The previous record for July is 24 inches and the record for any month is 39.5 inches. The significant thing about the 70 inches of rain in July is the fact that the annual rainfall at Clark is usually 70 inches.

No crisis has resulted from the storm at Clark due to the good drainage system on the base. But the civilian population is experiencing a definite natural disaster. Countless persons are reported homeless and many are dead due to drowning.

Best, McLucas confer on system update

Brig. Gen. William H. Best Jr., AWS commander, met with Undersecretary of the Air Force, Dr. John L. McLucas, June 2 in response to the Undersecretary's request for an update on the AWS Space Environmental Support System.

A factual briefing was presented which focused on operational environmental support requirements resources employed and interagency (UAA, NOAA, NAVY) cooperation. The brief-

ing emphasized the importance of adequately documenting environmental dependence, impact and support requirements in the system acquisition process to insure the availability of environmental support capabilities. The briefing was well received.

Doctor McLucas commented on the relatively low total annual USAF cost of the SESS, a benefit which derives from the co-operation and exchange programs between US agencies.

WAF breaks male tradition

9th WRWg., McCLELLAN AFB, Calif.—A long-standing Air Weather Service tradition of all-male flight crews was recently broken at the 58th Weather Reconnaissance Squadron, Kirtland AFB, N.M.

The tradition breaker was Lieutenant, now Captain, Dwala Hand, an attractive WAF from here.

Captain Hand, 9th WRW Intelligence Officer and former 58th WRS Intelligence Officer, was given a familiarization ride in the high altitude jet to increase her understanding of her job as an aircrew intelligence briefing officer. It marked the first time a female has ever flown in a WB-57.

Maj. Robert Heavner, a 58th WRS instructor pilot, flew Captain Hand around the Albuquerque area exposing her to the many aspects of flying a two-seat, high performance plane.

Captain Hand is also a recent recipient of the Air Force Commendation Medal for her outstanding work as an Intelligence Officer at both the Squadron and Wing level.

Captain Hand received her B.A. degree in English from the University of So. Mississippi.

Drossopoulos, Tsagaropoulos finish course

2nd WWg., WIESBADEN AB, Germany — Greek Warrant Officers, John Drossopoulos and G. Tsagaropoulos recently completed a six-week on-the-job training course in weather equipment maintenance. Both officers, in addition to forecasting the weather for the Hellenic Air Force, have the added responsibility of maintaining their own station's weather equipment in top flight order.

The course, sponsored by the 2nd Weather Wing Intermediate Equipment Maintenance Shop here, was designed to give the two warrant officers the latest practical know-how in maintaining new and varied weather equipment normally found at a base weather station. Guiding them through the course was MSgt. Oliver Skow.

The course proved beneficial for the Greek Officers as well as the members of the 2nd Weather Wing. Those concerned increased their knowledge of equipment maintenance while enjoying a rich personal experience.



Greek Warrant Officers, John Drossopoulos and G. Tsagaropoulos receive instructions from MSgt. Oliver Skow pertaining to a piece of weather equipment. (USAF Photo)

Hickam weather wing holds chief observer conference

1st WWg., HICKAM AFB, Hawaii — 1st Weather Wing held its first chief observer conference recently at Hickam AFB, Hawaii. Theme of the conference was "Leadership, Management and Supervision."

Col. Morris H. Newhouse, wing commander, stressed the importance of supervisory involvement between chief observers and observers in his opening remarks to those attending the conference. He termed the chief observer's job "second to none in importance in this wing."

During the five-day conference, the chief observers toured base weather facilities and discussed present and future manpower requirements, assignment policies, communications, training, safety and the Southeast Asia draw-down.

CMSgt. Sam E. Parish, chief observer of Air Weather Service, was a guest of the conference.

Also participating were CMSgt. Everett Masterman and William Montgomery, SMSgt. John Holmes and Robert Kennedy, MSgt. Philip Gerster and Darwin Risdin, TSgt. Elmer Sinclair and James Engle, and SSgt. John Ruffino.

Not happy birthday

Forecasters lend manpower-observers return with party

Det. 33, 26th WSq., K. I. SAWYER AFB, Mich. — At the end of last summer, the Observing Section here found itself with just seven observers including one just out of school.

With the onset of the winter, it appeared that the section would be forced to return to an austere schedule. With the forecasters being one overmanned, they volunteered to let one man return to the observing section to help by pulling shift work. The only restriction was, of course, he could not operate in the Remote Observing Station. However, he could in the base weather station.

The program worked so well for the first month that the forecaster's agreed among themselves to continue the program until all of the forecasters had the opportunity to carry part of the load. It was felt this would carry the Observer's Section over the worst part of the manning problem.

In January, the Observing Section received four entry-level observers. They would not be ready

for shift until March. One more entry level came in February and one in March. Help also came from Wurtsmith AFB, Mich.

By the end of February, all of the forecasters had the chance to work with the observing section

and learn part of the responsibilities of their job. When the forecasters finally left the observer's schedule in March, the Observers presented them with a party in appreciation for their help.



Forecasters and observers get together at an "appreciation party" given by the Observing Section for the help rendered by the forecasters when observing experience and manning were at a minimum. (USAF Photo)



"NOW ONCE I FIND HER—HOW DO I GET HER BACK HOME . . . ?" appears to be the question Lt. Col. Leo B. Rice (left) is posing to Chief Navigator Louis H. McLeod (right). "LOLA" is not just the name of the first typhoon Colonel Rice has chased as the new commander of the "Typhoon Chasers," rather ironically it also happens to be his wife's name! On June 23, 1972, Colonel Rice assumed command of the 54th Weather Reconnaissance Squadron which is responsible for penetrating typhoons and tropical storms in their WC-130 aircraft and reporting the storm location and intensity to the Joint Warning Center here on Guam. Colonel Rice replaced Col. Merle A. Nelson as commander. (US Air Force Photo)

Tactical airborne director commends response query

Automatic Response Query (ARQ), the name given the relatively new weather data retrieval system based at Carswell AFB, Tex., received high praise recently from the Tactical Airborne Director (TAD) aboard the TAC Airborne Command Post (ACP).

As director of a flight of F-4 fighters over Canada, the TAD found himself faced with an abnormal situation when one of the fighter aircraft failed to refuel as scheduled. With an acute shortage of fuel a "no-miss" decision was required regarding the abort terminal. The weather input was critical and had to be speedy

and accurate. The crew weather officer upon hearing the problem reacted immediately and used the airways to request ARQ assistance from the TAC Weather Support Unit (WSU). Within five minutes the latest observation and forecasts for the Canadian terminal had been sent from the Carswell computer to the TAC WSU and hence into the hands of the decision maker on board the ACP—data that was only twenty minutes old! With this information all doubt was resolved regarding the abort and the F-4 was able to land without incident.

Webster's

Observer: one who observes something

DET. 2, 16TH WSq.; Davison Army Fld., Ft. Belvoir, Va. — What's the job of a weather observer? What else — to observe the weather. However, when one man observes over 10 inches of rain in 15-hour shift—not by choice—that's a lot!

For SSgt. Ruben L. Encinas, it was to be a normal 4 p.m. to midnight shift except for a warning during his pre-shift briefing of a possible wet evening—or so he thought.

Sure enough, the rains came, and came they did! As the evening dragged on, so did the rain, getting heavier all the time.

Sergeant Encinas wasn't worried then because he knew his relief would be there at midnight and he could go home and forget the whole evening.

At midnight—you guessed it—no relief. The torrential rains had washed out all of the roads to the airfield. He had no choice but to continue work until someone did come.

An attempt was made by his relief man and fellow weathermen to cross what were by now rapidly growing rivers but, they had to turn back because of the rising waters and currents.

To add insult to injury, the power supply was cut off at 5:30 a.m.

But at 7 a.m., 15 hours after he had reported for work, Sergeant Encinas was finally relieved. His relief man reported via helicopter.

During the 15-hour shift, Sergeant Encinas recorded over 50 weather observations; 35 of them were special observations which included 5 thunderstorms, hail and windshifts, and a total of 10.19 inches was recorded. "Sergeant Encinas, get some sleep, you deserve it."



Inflates his wallet

For pulling 310,000 cubic feet of helium "out of the air," MSgt. Donald E. Cleaver, Det. 8, 20th Weather Sq. at Kadana AB, Japan, is presented a \$400 check by Lt. Col. Lawrence S. Hansrote, detachment commander. A large number of filled helium cylinders were discovered by Cleaver in an Army disposal lot and \$21,000 worth of gas was later given to the Air Force cost-free. The unit launches four helium-filled weather balloons each day for and the donated gas will meet the unit's helium requirements for the next 18 months.

(USAF Photo)

SEA weather service gives No. 1 assistance for strikes

TAN SON NHUT AB, Republic of Vietnam—As first light breaks over the Ho Chi Minh Trail, a US Air Force F-4 Phantom pilot sets his sights on an enemy convoy snaking along a dirt roadway. He unleashes his ordnance and speeds away, creating havoc for the enemy truck drivers.

Attacks like this occur daily in the Southeast Asia air war, and not always over the Ho Chi Minh Trail. When and where they take place is often determined not by the American fighter pilot, but by a non-combatant—the weather.

Predicting changes in the weather's temperament is the job of the 1st Weather Group headquartered here. With pencils and paper, charts and maps, simple and sophisticated instruments and sharp eyes, the weathermen keep tabs on the elements 'round-the-clock.

The members of the 1st, with their forecasts, give the 7th Air Force command section at Tan Son Nhut an accurate estimate of the weather picture.

Weather information, combined with intelligence reports and other data, make it possible for the commander and his staff to plan missions.

If bad weather is predicted for one area, strikes might be shifted to another target where good vis-

ibility will make pinpoint accuracy more possible.

Knowing that the weather will be "soupy" or "beautiful" is also used in deciding the type of ordnance to be used. If good conditions are expected, weapons systems requiring visual techniques will be loaded on aircraft. Thick cloud cover will demand instrument flight and attack.

In addition, aerial reconnaissance photography relies on forecasts to avoid thick cloud cover and visibility restriction when possible.

The importance of weather conditions and knowing what they will be was illustrated during the counter-air offensive to the inva-

sion of the Republic of Vietnam by the North Vietnamese.

During the early phases of the invasion, allied air strikes were hampered by thick cloud cover. However, April 7 the skies cleared, marred only by scattered clouds. 1st Weather forecasters had predicted the weather window and US Air Force and Navy and Republic of Vietnam Air Force (VNAF) aircraft took full advantage of it.

The following day, a frontal system, also expected by the Air Force weatherman, moved off the China Sea coast and created over-cast ceilings.

Planners with knowledge of the frontal system were able to change tactics.

Much goes into the forecasts used by the commanders, pilots, mechanics and others who make and carry out combat strategy.

Observers at weather stations throughout SEA measure things like temperature and dew point. Forward Air Control and strike pilots make on-the-scene reports, estimating total cloud cover, flight visibility and whether or not an area is "workable."

Radiocondes, small, plastic instrument boxes hanging from balloons, are released daily into the atmosphere to measure temperature and humidity. Weather radars track thunderstorms.

... Floods

(Continued from Page 1)

hours in an apartment, rescued a young Indian boy from the flood waters.

Members of Detachment 12, 9th weather squadron, have put into action the concept of the Air Force as a national resource. They came to the aid of the civilian community during a time of crisis.

... Vietnamization

(Continued from Page 1)

information to forecast thunderstorm development over key lines of communication.

The Group has been awarded two Air Force Outstanding Unit Awards.

USAF Weather units remaining in SEA on July 1 were assigned to the 10th Weather Squadron.

Two weather satellites, NIMBUS and ESSA-8, transmit photos that provide a "big picture" of weather over Southeast Asia.

The data from these source's is fed by teletype into the Southeast Asia Weather Center (SEA-WEACEN) here at Tan Son Nhut. The information is plotted on maps and analysed by forecasters. Looking at temperatures, amounts and types of clouds and other data, including past trends, the forecasters predict the weather.

"The weathermen have to consider elements smaller than one raindrop to conditions over the entire hemisphere," said Capt. John W. Oliver, weather briefer for the 7th Air Force command section.

US Air Force and VNAF weathermen in the center publish an Area Forecast Bulletin for South Vietnam twice daily. The bulletin is updated when trend changes occur.

The USAF observers and forecasters also produce forecasts for Thailand, North Vietnam and

Laos twice daily. These are also amended when necessary.

SEAWEACEN weathermen brief the commander and his staff daily. The command section can draw on hourly and even minute by minute predictions when planning sorties. They also can use long range forecasts for over-all planning.

Briefing teams at bases throughout SEA also inform pilots of the latest weather developments. They tailor SEAWEACEN forecasts to their specific areas and make short range forecasts. This gives air crews an idea of what to expect enroute to and from a target.

Aloft, pilots, forewarned, can

more easily avoid trouble like thunderstorms and turbulence. The pilot also knows what cloud cover to expect over the target.

About 250 personnel now man the 1st WGP, its one squadron and 13 subordinate units throughout SEA. This is down from about 660 members at the height of the war.

The VNAF does much of the weather work once done by the USAF. Prior to 1970, the VNAF had no organized weather service of its own, but now they man eight base weather stations and with the USAF, operate the SEAWEACEN. More than 230 Vietnamese weathermen have been trained by 1st Weather.

Capt. Pacella attends high flight conference

2nd WWg., WIESBADEN AB, Germany—Capt. William Pacella, 2nd Weather Wing comptroller, recently attended the Military Airlift Command's High Flight conference.

Captain Pacella, along with other officers from throughout the world, attended the four-day program in May. The overall operation and management aspects of MAC were discussed by

the High Flyers, and Gen. Jack J. Catton, MAC commander, and his staff.

The objective of the program is to give recognition to middle-manager officers who display outstanding leadership qualities.

"The numerous briefings and contacts with senior MAC officers have permitted me to obtain a greater working knowledge of the many areas in the Military Airlift Command," the captain said.



Capt. William Pacella is busily "working up the budget" for the 2nd Weather Wing. The captain recently attended the Military Airlift Command's May High Flight conference. (USAF Photo)

Yokota detachment joins VIVA

YAKOTA AB, Japan — To visibly display their concern and to bring the plight of the POW/MIAs to the attention of others, officers and enlisted men of Det. 3, 9th Weather Reconnaissance Wing here have joined a program sponsored by VIVA (Voices In Vital America).

A non-profit, volunteer organization, VIVA is maintained solely by individual contributions, which are used to print and distribute material for the POW/MIA program to reach communities and students throughout the nation.

"Each of the 97 men in the detachment has pledged to wear a bracelet obtained through VIVA," said Lt. Col. Dwaine D. Dieck, commander.

Bracelets are inscribed with the name of a POW/MIA and the date he was lost.

North Vietnam, the Viet Cong and the Pathet Lao refuse to publish complete lists of prisoners, and they refuse to allow the American Red Cross access to POW camps to care for prisoners.

Recognizing the urgent need for such care, they have vowed to continue to wear what they've dubbed "freedom bracelets" until such time that the ARC is able to assure waiting families of the prisoners' conditions and that each is receiving the human treatment due all men.

Colonel Dieck singled out two men in his detachment who have spearheaded the local campaign to gain public support for POW welfare.

"Maj. Robert L. Lince, standardization officer, actually started the ball rolling within the detachment. SMSgt. Harold G. Morillo Jr., maintenance superintendent, quickly joined the drive in a personal effort to tell it like it is so that they shall not be

forgotten," the colonel continued.

Augmenting an Air Force speech concerning POW/MIAs with his own very personal ideas, Sergeant Morillo is busy almost

daily going about the business of gaining public support for his imprisoned countrymen.

"I want everyone to know, especially those in North Vietnam,

that Americans will not tolerate their countrymen being left behind," the sergeant said.

"It happened in Korea . . . there are still more than 380

American servicemen prisoners there . . . but it won't happen in Vietnam. We have to speak out and be heard to assure that our men come home."

Sergeant Morillo talked about what can be done by individuals interested in helping the POW/MIAs through such organizations as VIVA.

"It's very simple. Just fill in the salutation on the letter that goes in the package, sign it and send it to your representative or senator. Also write to your governor and state officials to find out what they are doing for POW/MIAs, and solicit their help.

"The more letters they receive, the more they will be influenced by their constituents and the more Hanoi and her allies will realize that, not only the American people, but also their elected representatives demand that our people be set free."

He also suggested that people contact friends, schools, clubs and civic organizations to solicit their help in distributing POW/MIA information and material.

"Wearing a freedom bracelet is an excellent way to let others know that you are concerned and want to do something for your brothers.

"And, that's how I feel about those American prisoners . . . regardless of their race, color or creed, they are all my brothers. I can't sit still and let them remain where they are."

Persons interested in joining Sergeant Morillo and thousands of other Americans who care about their "brothers," may write to VIVA, 10966 Le Conte, Los Angeles, Calif. 90024.



Members of Det. 3, 9th Weather Reconnaissance Wing here give the "POW power" sign in front of a detachment high altitude WB-57 aircraft. (US Air Force Photo by SSgt. George Harlan)

Births in AWS

FYE, Capt. and Mrs. Falko K., a daughter, Linda Jeanette, June 27, father assigned to AFIT (meteorology), University of Utah, Salt Lake City, Utah.

MAGALLANES, Lt. and Mrs. Philip G., a daughter, Lisa Gabrielle, father assigned to Base

Weather Branch, 9th WSq., March AFB, Calif.

MAJORS, AIC and Mrs. Richard D., a son, Trevor John, May 11, father assigned to Det. 36, 25th WSq., Mountain Home AFB, Idaho.

LANCASTER, TSgt. and Mrs. Thomas B. Jr., a daughter, Kimberlee Joy, May 1, father assigned to Hq., 2nd WWg., Wiesbaden AB, Germany.

GREVE, Maj. and Mrs. John C. Jr., a son, Daniel Michael, March 17, father assigned as commander, Det. 32, 9th WSq., Grand Forks AFB, N. D.

ARZOLA, Capt. and Mrs. Nelson, a son, Nelso Gustavo E., June 8, father assigned to Det. 25, 5th WWg., Howard AFB, C. Z.

CROFT, Capt. and Mrs. Douglas O., a son, Joel Douglas, June 13, father assigned to Det. 25, 5th WWg., Howard AFB, C. Z.

PUKALL, SSgt. and Mrs. Dennis A., a daughter, Renee Lynn, May 8, father assigned to Det. 21, 9th WSq., Minot AFB, N. D.

WRIGHT, Sgt. and Mrs. David A., a daughter, Susan Leigh, father assigned to Det. 3, 16th WSq., Ft. Bragg, N. C.

PETERSON, SSgt. and Mrs. William D., a son, Aaron James, June 6, father assigned to Det. 17, 20th WSq., Yokota AB, Japan.

TAYLOR, Capt. and Mrs. Thomas E., a son, William Earl, June 2, father assigned to Hq. 6th WWg., Andrews AFB, Md.

THOMAS, SSgt. and Mrs. Stephen G., a son, Trevor Wright, May 31, father assigned to Det. 1, 31st WSq., Bitburg AB, Germany.

DASH, Capt. and Mrs. Ernie R., a son, Russell Edward, May

24, father assigned to 1st WWg., Hickam AFB, Hawaii.

KEUNING, SSgt. and Mrs. James N., a daughter, Joy Lisa, May 31, father assigned to Det. 6, 6th WWg., L.G. Hanscom Fld., Mass.

AWS -- 35 years young

AWS Hq.—This month marks the 35th anniversary of the Air Force weather service, dating from transfer on July 1, 1937, of weather service responsibility from the Army Signal Corps to the Army Air Corps. This 1937 transfer of the weather function led directly to today's Air Weather Service, Weather support agency for the US Air Force and US Army throughout the world.

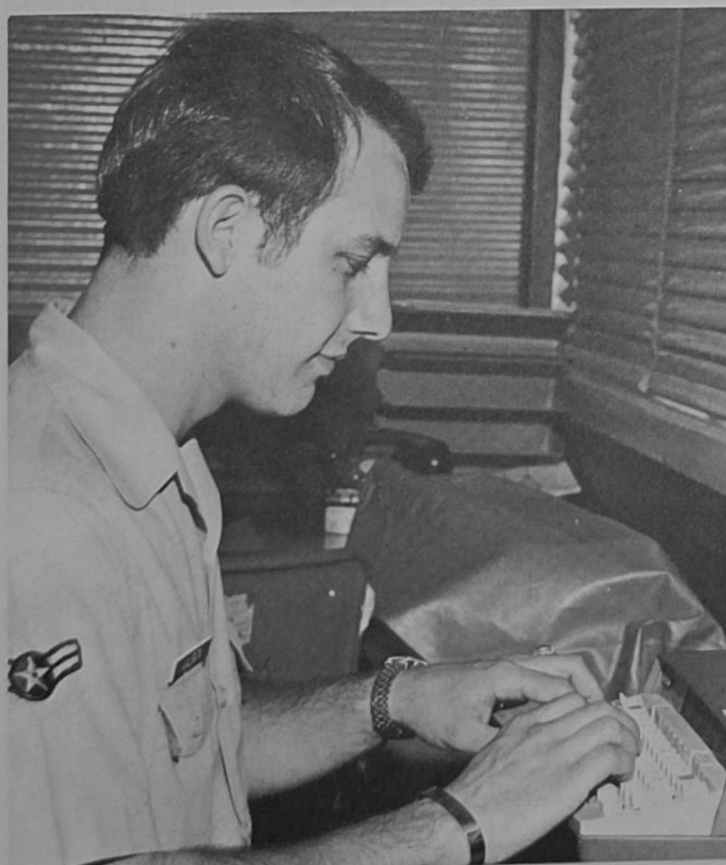
History does not reflect with accuracy the numbers of officers and enlisted men in the 1937 weather service, although 22 officers is the commonly accepted figure.

Since the transfer from the Army Signal Corps, 12 different officers have commanded the weather service, two of them on separate tours each.

Since the July 1, 1937, transfer of weather responsibility from Army Signal Corps to Army Air Corps, 12 different officers have commanded the weather service, two of them on two separate tours each.

Sequence of command is as follows:

1937	Capt. Randolph P. Williams, organizer of the Army Air Corps Weather Service
1937-1940	Capt. Robert M. Losey, Chief, AAC Weather Service
1940-1942	Col. Arthur F. Merewether, Chief, Army Air Forces Weather Section
1942	Col. Don Z. Zimmerman, AAF Director of Weather
1943-1944	Col. Harold H. Bassett, AAF Director of Weather
1945-1950	Brig. Gen. Donald N. Yates, Chief, Air Weather Service
1950-1954	Maj. Gen. William O. Senter, Commander, AWS
1954-1958	Maj. Gen. Thomas S. Moorman Jr., Commander, AWS
1958	Col. Norman L. Peterson, Commander, AWS
1958-1959	Maj. Gen. Harold H. Bassett, Commander, AWS
1959-1963	Brig. Gen. Norman L. Peterson, Commander, AWS
1963-1965	Brig. Gen. Roy W. Nelson Jr., Commander, AWS
1965-1970	Maj. Gen. Russell K. Pierce Jr., Commander, AWS
1970-	Brig. Gen. William H. Best Jr., Commander, AWS



AIC David L. Valenta, air operations specialist at the 55th Weather Reconnaissance Squadron, McClellan AFB, Calif., received dual "Airman of the Month" honors for May. He is the squadron and base honoree. Lt. Col. Donald Peterson, 55th operations officer, called him, "the sharpest one-striper I've met in 19 and one-half years of service." Airman Valenta was promoted June 1.

(USAF Photo)

Awards and decorations

Distinguished Flying Cross

Maj. Graham J. Showmaker
Capt. James B. Morrow
1st Lt. Michael F. Murrell
1st Lt. James G. Hathcoat
1st Lt. Walter O. Fisher

Bronze Star Medal

Maj. Glenn L. Glassburn
Maj. James W. Hall
Maj. Eugene R. Nelson
Maj. Leonard Starr
Capt. James C. Ashby
Capt. Edward R. Bushnell
Capt. Burton L. Maxwell
Capt. Michael G. Oliver
MSgt. Marilyn V. Robinson
SSgt. Fred W. Freeman
SSgt. Charlie H. Butler

Meritorious Service Medal

Lt. Col. Robert J. Powers

Air Medal

Lt. Col. Donald H. Peterson
Capt. Harold E. Diekmann
Capt. James B. Morrow Jr.
(2-9 OLC)
Capt. Steven J. Sokol (1-3 OLC)
1st Lt. Jacob P. Miller (OLC)

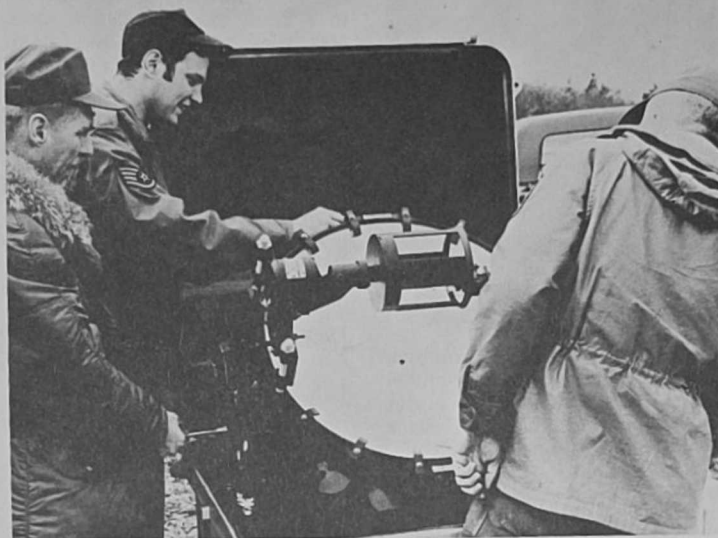
TSgt. Kenneth D. Bruchlacher

Air Force

Commendation Medal

Col. Glen C. Reiter
Maj. James L. Wise (OLC)
Capt. William A. Garrett
Capt. Rita A. Miller
Capt. Curtis R. Nordon Jr.
Capt. Thomas Price
Capt. Freddie Rosenblum
Capt. Walter J. Starch
Capt. Albert Sullivan (2 OLC)
1st Lt. Brian B. Morrill
SMSgt. Lester C. King (2 OLC)

MSgt. Curtis R. Rasmussen
MSgt. Alfred L. Sanford (OLC)
MSgt. Donald S. Stewart (OLC)
TSgt. David R. Davis
TSgt. Hector R. Navedo-Figueroa
TSgt. Werner J. Heidendahl
SSgt. John P. Bidwell
SSgt. Thomas S. Brock
SSgt. Albert C. Hancock
SSgt. Belezair J. Mouton
SSgt. Richard E. Prosser
SSgt. Joseph H. Runyon
Sgt. Thomas J. Lambert
Sgt. Jackie V. Mack



MSGT. OLIVER SKOW, left, and SMSgt. Kenneth Johnson, right, of the 2nd Weather Wing Intermediate Maintenance Shop, along with SSgt. Jerry Cole, NCOIC of Det. 8, 31st Weather Squadron Maintenance Section, Zweibrücken AB, Germany, make final adjustments on a recently installed Rotating Beam Ceilometer. This equipment, part of the dual meteorological instrumentation, became operational April 14. Installation of this equipment began in October 1971. For the first time since Zweibrücken opened in September 1969, Det. 8 is now fully weather instrumented.

(US Air Force Photo)

Record snowfall

HQ. AWS — With the coming of June, the official snow season ended. However, not without a couple of "biggies." At Stampede Pass, Wash., a total of 704.5 inches of snow fell during the 1971-72 season — a new record at this station. A new seasonal snowfall record for the US was set at Paradise Ranger Station in Mt. Rainier National Park, Wash. — 1,122 inches.

School helps detachment aid Korean orphanage

SEOUL, Korea — Det. 18, 20th Weather Squadron has been helping in the support of Yong Saing Orphanage for approximately three years. For the past two winters when the average temperatures range between 16°F-38°F, the detachment has supplied most of the heating fuel for the orphanage, along with some toys and clothing.

One of the members of the

detachment wrote a letter home in January indicating the detachment had been engaged in helping a Korean orphanage and that the children could use more clothing. When North Marion High School of Auroa, Ore., the airman's old alma mater, heard off the orphanage's need, they swung into action. A clothing drive committee was immediately established and the school began

collecting clothing donations. Upon completion of the drive, Detachment 18 had received over 1,000 pounds of clothing which was immediately distributed to the children of the Yong Saing Orphanage.

Pilot-to-forecaster reduction

Effective July 1, the following CONUS weather stations will have a reduced pilot-to-forecaster answering capability due to reduced hours of forecaster support. However, most of these will have a weather observer on duty around the clock.

Otis AFB Mass.	England AFB La.	Mountain Home AFB Idaho
Pope AFB N.C.	Bergstrom AFB Tex.	Luke AFB Ariz.
Shaw AFB S.C.	Kirtland AFB N.M.	Nellis AFB Nev.
Myrtle AFB S.C.	Gray AFB Tex.	Holloman AFB N.M.
Homestead AFB Fla.	Sheppard AFB Tex.	McChord AFB Wash.
Hurlbert Fld Fla.	Tinker AFB Okla.	Hamilton AFB Calif.
Little Rock AFB Ark.	Richards-Gebaur AFB Mo.	George AFB Calif.
Scott AFB Ill.	Columbus AFB Miss.	Maxwell AFB Ala.
Dover AFB Del.	Forbes AFB Kan.	

The duty observer will respond to calls but will be authorized to provide only weather observations and those forecasts for which he has a teletype copy. For further forecaster assistance, contact the MAC Command Post.

ON THE skew-T AWS Global Report

Highlights of Air Weather
Service people at work and play

Outstanding airman

HICKAM AFB, Hawaii — SSgt. James E. Warnke is the Outstanding Career Airman of the Quarter for the 1st Weather Wing headquarters. He is assigned to the Communications Branch in the Operations Division. Sergeant Warnke is a member of the Wing Airman/NCO Advisory Council and assists in the Drug Abuse Program.

Goodbye 1st WGP.

HICKAM AFB, Hawaii — July 1 marks the end of an era for weather service as 1st Weather Group inactivates in Southeast Asia. 1st WGP., presently a subordinate of 1st Weather Wing headquartered in Hawaii, was constituted on Aug. 29, 1945, and first activated on Sept. 20, 1945. 1st WGP. was inactivated on May 31, 1948, activated during the Korean conflict on April 20, 1952, and inactivated on Oct. 8, 1956. It was most recently reactivated on July 8, 1966 and during its "peak" year of 1967 was comprised of three squadrons including 39 units and over 660 personnel.

25th WSq. support

10TH WSQ., Udorn RTAFB, Thailand — When the 49th Tactical Fighter Wing from Holloman AFB, N. M., deployed to Takhli Royal Thai Air Force Base, Thailand, 13 officers and airmen from the 25th Weather Squadron provided the required weather support.

Within three days of their arrival, the forecasters and observers on temporary duty at Provisional Det. 12, 10th Weather Squadron, had set up a weather station and were providing crew briefings and full forecasting support.

Taking part were: Capt. Gilbert J. Estebo, Holloman, detachment commander; forecasters — 1st Lt. Kurt H. Kasik, Cannon AFB, N. M.; SMSgt. Gerald L.

Kieckow, Holloman; SSgt. Jerry Moore, George AFB, Calif.; observers — TSgt. Bernhard R. McDonald, Holloman; SSgt. James E. Klish, Holloman; SSgt. Jeffery D. Montgomery, George; Sgt. Napoleon F. Abraham, George; Sgt. Earl D. Dierkes, Holloman; A1C Steven H. Miller, Nellis AFB, Nev.; A1C Daniel G. Wagner, Nellis; maintenance men — SSgt. Michael J. Buschur, Holloman; Sgt. Stephan J. Hubbel, George.

White becomes citizen

DET. 33, 3RD WSQ., England AFB, La. — Sgt. Kenneth B. White, an observer here, recently completed the naturalization process and became a US citizen.

A native of Oakville, Ontario, Canada, Sergeant White moved to Grand Rapids, Mich., in 1960. After high school graduation, he attended college in South Carolina for two years. He entered the Air Force in 1969.

Becoming a citizen fulfilled a life-long goal for him. As pointed out by the presiding judge at the final ceremony, becoming a citizen is no small matter. The process takes three or more months and requires much effort on the part of the potential citizen. Also of importance is the responsibility that must be accepted. Each person agrees to obey and uphold the laws of the land. He further agrees to accept the established traditions and heritage. Above all, he agrees to lay down his life if the need arises. Finally, being a citizen is a great privilege — one that many native-born citizens sometimes tend to forget.

Nied earns master's

Det. 15, 15th WSq., WRIGHT-PATTERSON AFB, Ohio — Sgt. Gary J. Nied, a weather observer here, has received a master's of science degree in earth science from Wright State University.

Sergeant Nied attended Kent State University, Kent, Ohio, where he received a bachelor of arts degree in meteorology and geography in 1969. He then enlisted and was assigned here.

Not satisfied, he enrolled for his graduate work and amassed a 3.75 average on a 4.00 scale. Through an interest for contemporary problems, he chose "Forecasting of Air Pollution Potential in the Dayton, Ohio, Area" as his thesis. He also hopes to continue his research in the future.

Weddings

A1C John I. Janes and Virginia A. Havlick were married June 17 in King of Prussia, Pa. Airman Janes is assigned to Det. 3, 16th WSq., Ft. Bragg, N. C.

SSgt. Johnny R. Revel and Patricia Nelson were married May 19 at Merced, Calif. Sergeant Revel is assigned to Det. 1, 26th WSq., Castle AFB, Calif.

AWS officers' sons head for academies

HICKAM AFB, Hawaii — Senators Hiram Fong, R-Hawaii, and Jack Miller, R-Iowa, have announced the appointment of two Air Weather Service Officers' sons to Military Academies.

Gary L. Lorenzen, son of Lt. Col. Loren L. Lorenzen, 1st Weather Wing's Assistant Staff Meteorologist to PACAF, has been appointed to the United States Air Force Academy by Senator Miller. Gary is an honor graduate at Radford High School and starred on their Oahu Interscholastic Association Championship Basketball Teams the past

two years. His 6-foot 5-inch frame should be a welcome addition to the "Falcon Five."

Randall K. Schmitt, son of Maj. Joseph A. Schmitt also an Assistant Staff Meteorologist to PACAF and 1st WWg. Safety Officer has won Senator Hiram Fong's appointment to the United States Naval Academy. "Randy," an honor student at Honolulu's Roosevelt High School, was an early admission student to the University of Hawaii where he accrued 25 credits this last year. He reported to Annapolis in July.

RTAF assumes control

10th WSq., UDORN RTAFB, Thailand — The Royal Thai Air Force Meteorology Division took over the Representative Observation Site and Rawinsonde Section of the Udorn Base Weather Station June 15.

The Observation Site and Rawinsonde Section was previously manned by US Air Force personnel since 1966. The assumption of weather-watching duties by the Royal Thai Air Force enabled the 10th Weather Squadron to send nine observers home and delete their slots.

The Royal Thai Air Force weather observers are assigned temporary duty here from the Meteorology Division headquartered at Don Muang RTAFB.

The Representative Observation Site monitors the weather and immediately reports any changes so that USAF aircraft operations are always abreast of the weather.



FIRST PLACE Team winners in the 17th Annual 2nd Weather Wing Invitational Bowling Tournament hosted by the 31st Weather Squadron are, standing from left, TSgt. Dale Marks, Maj. Gordon Joes, SSgt. Gene Clark, kneeling from left are Sgt. Mike Deseure and MSgt. Fred Ohnsorge. (Photo by John B. Buchwitz)

Bradberry receives MAC safety award

1st WWg., HICKAM AFB, Hawaii — Maj. Harold E. Bradberry, 1st Weather Wing headquarters, has won the Military Airlift Command Outstanding Individual Safety Award.

He was honored for his safety accomplishments recently in a brief ceremony conducted by Col. Morris H. Newhouse, wing commander.

In a letter of congratulations, Air Weather Service commander Brig. Gen. William H. Best Jr. said Major Bradberry's outstanding management and diplomacy

"added immeasurably in selling the 1st Weather Wing's safety program."

There were no fatalities during the 19-month period he served as Wing safety officer and last year the number of reportable accidents in the Wing was 25 per cent less than the previous year.

Major Bradberry promoted safety consciousness in addition to his regular duties as standards and training officer for the Wing, which has more than 1,400 personnel at 80 locations throughout the Pacific.



Maj. Bradberry (right) receives a desk set from Col. Newhouse for his achievements as Wing safety officer. (USAF Photo)

Results official; bowling winners

The 17th annual 2d Weather Wing Invitational Handicap Bowling Tournament, hosted by 31st Weather Squadron, was held recently at Ramstein AB, Germany. A total of 64 bowlers from all over Europe rolled 516 games in competing for 19 trophies.

First place in the team event went to the USAFE Forecast Center, Detachment 21, 2d Wing, Kindsbach, Germany. SSgt. Gene Clark's 648 total paced team members Maj. Gordon Jones, TSgt. Dale Marks, MSgt. Fred Ohnsorge and Sgt. Mike Deseure to a 2,948 total pin count, some 100 pins ahead of the field. MSgt. Glen Workinger's 616 total led the 31st Squadron team to a solid second-place victory for Col. Robert Wood, Lt. Col. Bob Tucker, MSgt. Don Kunkle and SSgt. Pete Griffin.

In doubles competition, first place was sewed up by SSgt. Bethel Floyd's 607 total and MSgt. George McNeill's 627 total. This 1234 combination allowed Detachment 8, 31st Squadron, to outlast a bid of 1124 by SSgt. Bob Burton and SSgt. Glen Robinson of Detachment 20, 2d Wing, Mildenhall, England. Securing

third place was Detachment 7, 31st Squadron, Aviano's SSgt. John Contarino and SSgt. Elmo Reddick with a combined 1118.

Bowling alone, SSgt. Bob Burton went at it again, garnering first place in the singles with a 633 total. Maj. Gordon Jones totaled a 591 to edge out Col. Bob Wood's 589.

Looking across the board, SSgt. Bob Burton of Mildenhall took his third trophy by racking up 1763 total pins for first place in "all events". His teammate, SSgt. Glen Robinson, came charging into second place with a 1726. Maj. Gordon Jones managed to outlast the remainder of the field by posting a 1721 for third place.

ETAC aids forecasters

Air Force's Environmental Technical Applications Center (ETAC) has a Micrometeorological Applications Section with three graduate-trained officers to provide air pollution consulting assistance. ETAC can assist local weather detachments by tailoring the air pollution potential forecasts to their particular localities.

ETAC's primary concerns in air pollution are the air pollution potential forecasts and related climatologies rather than emission inventories or source surveys. Studies available are inversion and ventilation summaries, diffusion climatology, wind rises and mixing height summaries. ETAC uses these data in determining weighting factors and adjusting criteria for local bases for use in the air pollution potential forecasts.

One of the publications written by ETAC officers on air pollution matters is:

AWS TR 214, "Guide to Local Diffusion of Air Pollutants," by Maj. G. Beals. Requests for assistance and/or publications may be forwarded directly to USAFETAC, Bldg 159 Navy Yard Annex, Washington, D. C. 20333.

9th WSq. answers WHY?

When disaster enters into a person's life, one question is "Why?" For the flood victims in Rapid City, S.D., Det. 12, 9th Weather Squadron at Ellsworth AFB, S.D., couldn't stop or prevent the flooding, but did assist in answering that big question. They combined radar reports, photographs and general weather information which were used and studied by local officials. One of the observations as to the "why" was that at a point above Canyon Lake the maximum run-off ever recorded had been 2,300 cubic feet of water per second. The projected maximum for any one time in the next 10 years was set at 3,000 cubic feet. However, at one time before the dam burst, the run-off was reported at 30,000 cubic feet.

SPORTS



FRONT

Three more trophies

Maj. Donald E. Smith, Det. 25, 10th Weather Squadron, Nakhon Phanom RTAFB, Thailand, added three more trophies to his collection by winning and placing in NKP's Small Games Tournament. In singles competition, he walked off with the handball trophy without a loss and was runner-up in the paddleball event. Together with his partner, they finished second in the paddleball doubles.

A first and a second

Sgt. Charles W. Mount placed first in his weight class and second in overall competition during the Ft. Riley, Kan., weightlifting meet. The 162-pounder bench-pressed 270 pounds, squatted with 340 and dead-lifted 470 pounds. Sergeant Mount is an observer on the Organic Weather Team here with Det. 8, 16th Weather Squadron.

Hatcher wins tennis

Sgt. Thomas W. Hatcher, Albrook AFB, C. Z., has won the 1972 USAF Southern Command's Tennis Tournament and will represent USAFSDO during the USAF tourney at Randolph AFB, Tex., July 18-23. Sergeant Hatcher is with the Rawinsonde Section here, Det. 25, 5th Weather Wing.

Weather takes USAFSDO Badminton

Men from Det. 25, 5th Weather Wing, Howard AFB, C. Z., won first and second places in both the singles and doubles badminton competition at the USAF Southern Command tournament. Capt. Douglas O. Croft won the singles with Maj. Peter J. Britos taking the second slot. In the doubles, it was Lt. Col. David L. Roberts and Captain Croft taking first place while Major Britos and Capt. Jerry D. Scott grabbed second.

Son of weatherman takes third

John Moseley, son of SMSgt. and Mrs. Jack W. Moseley, placed third in the South Carolina State Finals of the Jaycee-sponsored Air Rifle Shoot-Off May 13. John accompanied the South Carolina team of five to the North American finals at Tulsa, Okla., July 28. Sergeant Moseley is the chief observer for Det. 48, 4th Weather Wing Thule AB, Greenland.

Hole-in-one

Col. Steven Puskar was as surprised as his two companions when he hit a hole-in-one on July 19th. The feat was accomplished with a seven iron on the 10th hole of the Scott AFB golf course. Col. Puskar is DCS/Comptroller for Hq. Air Weather Service.