



WORKING over the engine of an AWS van is A3c Loid Lemelle, during Grand Slam II in West Germany. Watching him are A2c Robert McKay and Capt. James R. Chapman. All three are members of Det. 6, 7th Weather squadron, Stuttgart, Germany. These weathermen plus others from 2d Weather wing deployed with US Army units to give weather support during the exercise held last month in West Germany.

## AWS Weather Technician Designs Unique System

Vital weather data from the Soviet Union and Red China now reaches computers faster than ever before due to an AWS weatherman's unique processing scheme.

CMSgt Bobby C. Hughes, weather communications NCOIC, 1st Weather wing, Fuchu AS, Japan, has developed a semi-automatic weather data processing system. Through it thousands of surface weather observations, from behind the "Bamboo" and "Iron" curtains plus data from other Far Eastern countries, are being processed daily before being forwarded to the USAF's Global Weather Central at Offutt AFB, Nebr.

Air Force communications weathermen intercept these broadcasts for integration into their daily forecasts and for retransmission of edited data without duplication, as error free as possible.

Sergeant Hughes says, "I noticed the data processing accomplished by IBM machines in another section of the weather wing

and wondered why, with a few programming adjustments, we couldn't use machines like those for weather editing. Until recently, we had to do all this processing manually, and that got to be quite a workload."

The 33-year-old weather technician worked out a processing scheme and devised the flow of data from reception as a tape-to-card to sorter-to-tape retransmission. Initial indications point toward even greater operational success than originally anticipated.



SHOWING one of the steps in his semiautomatic weather data processing system, which he designed to IBM marketing representative D. R. Ellis, is CMSgt Bobby C. Hughes, weather communications NCOIC, 1st Weather wing, Fuchu AS, Japan. The system has been adopted by AWS for world-wide use.

The OBSERVER regretfully announces the death of Eugene T. Early, Lt Col. USAF (retired) who died June 16, 1963 at Lackland AFB Hospital of an illness. Colonel Early retired from the USAF Mar. 31, 1963. His last assignment was with Det. 3, 3d Weather squadron, Myrtle Beach AFB, S. C. Funeral was held June 19 at San Antonio, Tex., with burial at Ft Sam Houston Memorial Cemetery, San Antonio, Tex.

## Nine NCOs in AWS Complete Academy

Nine Air Weather Service NCOs graduated from the MATS NCO Academy at Orlando, Fla., last month.

The NCOs were among a class of 115. It was the 60th class to graduate from the MATS school which had its beginning in May 1955. To date, nearly 7,500 Air Force and Navy enlisted men have graduated from the school.

Graduating from the class were TSgt Warren L. Hansen, Det. 10, 26th Weather squadron, Columbus AFB, Miss.; MSgt Gerald B. Lavere, Det. 15, 16th Weather squadron, Dugway Proving

The Senate has confirmed the promotion of MATS Commander Joe W. Kelly to the grade of General, effective June 6, 1963.

He was nominated for four-star rank by the President on April 17. With the nomination, the White House said General Kelly would continue as head of the MATS global command.

grounds, Utah; MSgt Curtis M. Lord, Det. 10, 4th Weather group, Eglin AFB, Fla.; and MSgt Maxie J. Pugh, Det. 18, 16th Weather squadron, Ft. Leonard Wood, Mo.

Other graduates were MSgt James S. Masterson, Det. 23, 24th Weather squadron, Moody AFB, Ga.; MSgt Charles M. Lagneaux, Det. 6, 32d Weather squadron, Perrin AFB, Tex.; MSgt Jerome M. Strum, Hq AWS, Scott AFB, Ill.; TSgt Marvin L. Drake jr., 6th Weather squadron, Tinker AFB, Okla.; and MSgt Carlton L. White, Det. 3, 3d Weather squadron, Vandenberg AFB, Calif.

## Two NCOs Nominated For Annual Honors

Two top NCOs in AWS have been nominated to MATS to be considered in selection for the Outstanding Airman of the year. The individual selected will represent MATS at the Air Force association convention in Washington, D.C. in September.

Nominated by AWS were CMSgt Robert C. Cartwright, 4th Weather group, and MSgt Thomas M. McElmurry, Det. 25, 26th Weather squadron. In selecting both nominees, an AWS board of officers and NCOs considered 20 candidates from field units and AWS headquarters.

Sergeant Cartwright, 41, is assistant chief of the forecast section of operations and plans, at Andrews AFB, Md. He entered AWS in 1948, after a tour of duty with the US Marine Corps.

After making an outstanding record at the weather forecaster course at Chanute AFB, Ill., he became an instructor there for five years.

He has successfully pursued USAFI courses and has taken ECI courses in Officer Candidate school and in chaplain's duties. He has also been studying for the Methodist ministry for a number of years and this year became fully qualified for assignment as a minister in the Methodist church, a position he intends to pursue full-time after retirement from the Air Force.

He has been responsible for all staff actions pertaining to the operation of the forecast sections in the eight 4th Weather group detachments throughout the United States.

Sergeant Cartwright and his wife, Mary Louise, have three children ranging in age from 12 to 17.

MSgt McElmurry, 31, a weather forecaster with Det. 25, 26th Weather squadron, has vast experience in severe weather and weather central forecasting. His unique sense of timing and abil-

ity to move weather systems, accounts for his high detachment standing in forecasting.

He was class honor graduate (Continued on page 6)



CMSgt Cartwright



MSgt McElmurry

## Hurricane Hunters Begin New Season

Many trained eyes—among them the USAF Hurricane Hunters, the 53d Weather Reconnaissance squadron—are watching for tropical hurricanes which form in the Caribbean, southern North Atlantic and Gulf of Mexico and threaten the resort areas of Florida, the Gulf coast and the entire US eastern seaboard.

Hard at work on the 1963 hurricane season, which officially began June 1, is the National Hurricane center. Located in Miami, Fla., the center is manned by US Weather Bureau specialists. Realizing that little can be done to lessen the force of the big storms, weathermen combine their efforts to provide advance warnings to civilian populations and military installations in the expected path of a tropical storm.

Key man in the Air Force hurricane-warning network is the USAF Hurricane Liaison officer. His job is to follow through from the first report of a suspected tropical storm to the issuance of the actual hurricane warning.

Stationed at the Miami center, this officer triggers a warning service to Air Force and Army installations. Warnings for civilian interests and the general public are issued by the US Weather Bureau, also through the Miami center. Air Force and Navy installations and ships at sea re-

ceive their basic forecasts from the Weather Bureau and tailor them to their unique needs.

When a tropical storm or hurricane is reported, the center goes on a 24-hour watch. The center's staff is increased nearly 30 percent and vacations for the watchful weathermen are out of the question.

Hurricane reports are relayed to the center via USAF and Federal Aviation Agency teletype circuits. This data, the lifeblood of the hurricane-warning system, is collected by Air Force and Navy weather reconnaissance aircraft. Additional reports are received from ships at sea, island and coastal stations and transport aircraft.

Air Force and Navy weather planes fly daily and special weather reconnaissance missions over the million and a half square miles of the oceanic areas adjacent to the US. This territory is divided into three areas: an Air

(Continued on page 7)



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**BRIG. GEN. ROY W. NELSON, JR.**  
Commander, Air Weather Service  
**MR. JOHN D. RUGG**, Director of Information  
**1ST LT CASEY R. LUCZAK**, Editor  
**SSGT ROBERT J. BATTON**, Assistant Editor

## US Air Force — Aerospace Power for Peace

# MATS Celebrates 15th Anniversary

On June 1, 1963, the Military Air Transport Service celebrated its 15th Anniversary. Air Weather Service shared in the event, having been a part of MATS since her beginning.

MATS was formed June 1, 1948, from elements of the Naval Air Transport Service and the Air Transport Command of the Air Force. It stepped a month later into the airlift which is still most famous—that of supplying two and one-half million Berliners when land supply routes were cut off by the Soviets.

It was in 1948 that AWS, together with Airways and Air Communications service, Air Rescue service, Flight service and Air Photographic and Charting service, became assigned to the newly formed Military Air Transport Service.

Today AWS is a MATS technical service, providing round-the-clock tailored weather support to USAF and Army units at all echelons.

Throughout the years, AWS has worked simultaneously with MATS, aiding in the fulfillment of her mission.

In 1949 a weather group was activated at Wiesbaden to provide weather service to the Berlin airlift while MATS assumed the mission of world-wide air evacuation of military and medical patients.

In 1950 AWS established the first weather station in Korea while MATS increased her airlift from 3.8 tons per day to 98.6 tons per day.

In 1955 MATS completed operational tests on the YC-131C, first twin-engine turboprop aircraft in the Air Force while AWS received WB-50 aircraft to replace the WB-29, raising operational altitude of weather reconnaissance from 18,000 feet to 30,000 feet.

In 1958, MATS and AWS completed their move from Andrews AFB, Washington, D. C., to Scott AFB, Ill.

The airlift operations of MATS, as well as flying operations by all other commands in the Air Force, are supported daily by the missions of MATS' three technical services, Air Weather, Air Rescue and Air Photographic and Charting services.

This year, in recognition of its vital mission, MATS has been designated a four-star command (one of seven in the Air Force) by the Department of Defense. Its commander, Gen. Joe W. Kelly, directs the 87,000-man global command from MATS headquarters at Scott.

MATS' primary mission is global airlift on an immediate and massive scale. More than 500 four-engined aircraft, some of them giants of the air, are ready to pick-up instantly missions of war or mercy.

In a national emergency, MATS can airlift thousands of Army, Navy, Air Force and Marine Corps combat troops and their battle equipment across any ocean in days.

The latest display of these abilities was during the Cuban crisis and Indian airlifts last October.

As with all military forces, modernization is a key subject in MATS. From "low and slow" aircraft in 1948, MATS has moved up to the globe-girdling jets of today with its eye on even better jets tomorrow. In addition, inventory and personnel control is being computerized rapidly to control the 87,000-man command and its equipment.

With newly designed jets scheduled to replace most of the older aircraft in the next few years, its reaction time worldwide will be greatly improved. Stepped-up exercises with fighting forces will insure their ability to use airlift as familiarly as their rifles. Increased responsibility and developing techniques of the services will aid the American space program.

According to General Kelly, the MATS operational psychology is uncomplicated. He said, "MATS personnel know they have a job to do. They know how to do it. They work with spirit to get it done, and when it is finished, they are ready for more."

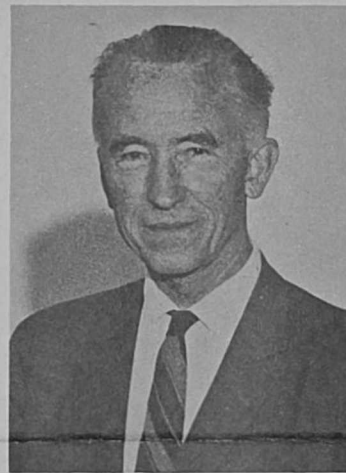
"The intensive, hard-core, professional attitude of our people toward safety, and their trained ability, insure that the American people have the best instrument of global mobility available in the world."

## Weatherman Talks To AMS Members

A world-famous meteorologist, who is known as the founder of modern synoptic meteorology, Prof. Jacob Bjerknes, was guest speaker last month at a special meeting of the St. Louis chapter of the American Meteorological society in the Hq AWS conference room at Scott AFB, Ill.

En route to Russia, where he will present a series of lectures, the noted weather scientist outlined problems of cyclone development for assembled AMS members. Among those present were Brig. Gen. Roy W. Nelson Jr., AWS commander; Col. William S. Barney, AWS vice commander and George N. Brancato, US Weather Bureau chief for St. Louis.

Professor Bjerknes, who is from the department of meteorology



Prof. Bjerknes

at the University of California in Los Angeles, spoke of advances in meteorology brought about by use of electronic computers in processing weather data, but indicated that many problems remain to be solved.

Weather scientists consider Bjerknes' 1919 paper on weather fronts and cyclones to be one of the most important pages in the literature of meteorology.

During his stay in St. Louis, Professor Bjerknes visited his son, Capt. Vilhelm Bjerknes, who is pursuing graduate study in meteorology at St. Louis university. The captain is a third-generation weatherman, since his grandfather, Vilhelm Bjerknes, developed many of the theories of weather movement upon which modern meteorology is based.

## AWS Employee's Story Wins Honorable Mention

Mrs. Ellen Ann Emond, a civilian employee with Det. 54, 4th Weather group, Laur G. Hanscom Field, Mass., recently received honorable mention for a story she wrote in the MATS Flying Safety Short Story contest.

Her story, "A Simple Thing," will be published in the MATS Flyer, flying safety magazine. She received letters of congratulations from Gen. Joe W. Kelly, MATS commander, and Brig. Gen. Roy W. Nelson, AWS commander, in recognition of her achievements in the literary contest.

## Historic Ceremony



BECOMING the first Americans stationed in Australia to enlist in the USAF are (l to r) SSgt Frank J. McNanna, SSgt Walter L. Nelson and SSgt John C. Wolfe. All three are members of the 57th Weather Reconnaissance squadron, Avalon airfield, Australia.

## Three AWS Dependents Awarded Scholarships

Three Air Weather Service dependents have recently been named as winners in the National Merit Scholarship competition. Approximately 90 percent of all high school students participate in the program.

Frederick S. Stinson, son of Lt Col. and Mrs. Frederick A. Stinson of West Drayton, England, has been awarded a scholarship to Johns Hopkins university at Baltimore, Md. He enters in September and plans to major in pre-medicine.

He graduated from Central high school USAF Dependents school at Bushy Hertsfordshire, earlier this month. He belonged to the National Honor society and was quite active in school dramatics.

His father, Colonel Stinson, is presently assigned as operations officer with the 28th Weather squadron, Northolt RAF Station, London, England.

Richard S. Smith, son of the commander of Det. 22, 24th Weather squadron, Keesler AFB, Miss., has been awarded a scholarship to Michigan State university at East Lansing, Mich. He enters in September and plans to major in mathematics.

Last month he graduated from Biloxi Senior high school near Keesler, where during his four years he was quite active in school affairs.

In 1961 he was a delegate to the Mississippi Youth congress, winning a superior rating for a bill he submitted. He was a member of the debate team his senior year and was a member of the

National Honor society, Mu Alpha Theta (national math honor society), Future Teachers of America, Junior Academy of Science, Junior Engineering Technical society, and Masque and Gavel. He was also winner of the DAR American History medal.

In order to accept the scholarship to Michigan State, young Richard had to turn down offers of a Carrier scholarship to the University of Mississippi and a scholarship to Millsaps College, Jackson, Miss.

Michael E. Alverson, son of Lt Col. and Mrs. Richard C. Alverson of Wiesbaden, Germany, has recently been selected for a National Merit Scholarship, being one of the eight students from the USAF command to receive this honor.

In addition, he was selected and will report to the United States Military Academy at West Point, New York, on July 1, 1963.

He graduated from General H. H. Arnold high school at Wiesbaden and was a member of the National Honor society, American Junior Bowling congress and the United States Lawn Tennis association.

Michael's father, Colonel Alverson, is presently assigned as comptroller, 2d Weather wing, Lindsey AS, Wiesbaden, and due to his military duties Michael has lived in six states, Japan and Germany and has attended 11 schools.

The National Merit Scholarship corporation is an independent, non-profit organization located in Evanston, Ill. It was established in 1955, with grants from the Ford Foundation and the Carnegie Corporation of New York.



Stinson

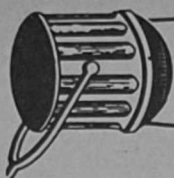


Alverson

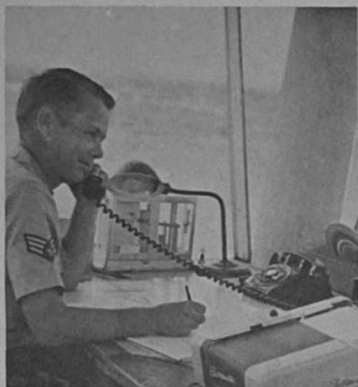


Smith

The OBSERVER  
Spotlights



## Detachment 32, 3rd Weather Squadron



RELAYING a weather observation by telephone, to the base weather station, is A1c James C. Davis jr., of the remote observing site.

### Airman Sainato Is New Citizen

A3c Anthony V. Sainato, 6th Weather squadron (Mobile), Tinker AFB, Okla., fulfilled a life-long ambition April 30 when he became a citizen of the United States.

The 19-year-old weather observer was sworn in as a citizen by the US District Court, Oklahoma City, Okla.

In December 1951, Airman Sainato and his family migrated from Italy to Ft. Williams, Ontario. He completed elementary school and started high school in Canada before a petition was granted for the family to enter the US in January 1958.

He graduated from Holy Name high school, Cleveland, Ohio, in 1961 and in November of the same year enlisted in the Air Force. He has completed 18 months of Air Force duty.

About his newly acquired citizenship, Airman Sainato commented, "It is probably the most important event of my life."



Airman Sainato

### Three Officers Are Upgraded

Three officers of the 56th Weather Reconnaissance squadron, Yokota AB, Japan, were recently upgraded after gaining necessary experience and demonstrating skill in their fields.

Upgraded to aircraft commanders were Capt. Jerry G. Fuller and 1st Lt Charles B. Casson. Capt. James R. Norton was upgraded to instructor, aerial weather reconnaissance officer.

Located on the extreme southern tip of the peninsula between Old Tampa Bay and Hillsborough Bay, protruding in some respects to resemble the boot of Italy, lies MacDill AFB, Fla., home of Detachment 32, 3d Weather Squadron.

When the first aircraft landed at MacDill Army air field on Jan. 14, 1941, there were two representatives from the Air Weather Service on duty to witness the occasion. They were Corporal Billy Phillips and Pfc Charles Williamson.

With runways still in the building stage, the first weather detachment assigned to MacDill consisted of five men from the 2d and 3d Weather regions. They arrived at the base in May of 1940 and the unit became organized Mar. 1, 1941.

Being first, they set many claims in the southeast area of the US. Such as, first as a foreign clearing station, first in accurate hurricane warning services, first to brief and clear the first flight to Africa by Lt Gen. George Brett, first to brief B-17s on mass flight to Panama and first to establish a large weather observer school in cooperation with Chanute field, Ill.

Several mission requirements and changes have transpired through the years. Most recent was the unit's move from a SAC base to a TAC base and from part of 3d Weather wing to part of 2d Weather group.

Even during the change, both SAC and TAC units and the US Strike Command were provided weather support.

During the jet era, Detachment 32 has the distinction of providing weather support to new and old USAF jet aircraft and to the pilots of the new US Strike command.

During the winter and summer months, Detachment 32 forecasters conduct a constant "met watch" for the short range jets assigned to the base. MacDill experiences thunderstorms during the summer seasons, thus requiring a constant vigilance. The area records one of the highest thunderstorm activity rates per area, per year in the entire world.

A continuous 24-hour "met watch" is prescribed for both the base weather station and remote observer site, which is located on the top floor of the control tower, off the runway complex.

With the advent of the Cuban crisis, MacDill became a beehive of activity overnight, imposing an increased workload upon the already undermanned detachment. The challenge was adequately confronted with extra cooperation by unit personnel and little difficulty was encountered in accomplishing the unit's mission in every aspect.

The 4453d Combat Crew Training squadron, which is the nucleus of all future F-48 wings, is training at MacDill. Personnel of the 12th and 15th Tactical Fighter wings are being trained in F-84 aircraft.

Since weather equipment readouts are being installed in the weather station, rapid, precise and timely teamwork is a must between duty observers.

The detachment is equipped with communications equipment

which is used for providing fighter units and the US Strike command with weather information. Forecasters can disseminate the latest weather information to jet pilots while inflight, by relaying the information through the duty controller at the 836th Air division command post.

During a no-notice exercise, conducted by the Strike command, a forecaster can relay or receive weather information to or from the weather section of the US Strike command by "Longline."

Hourly dispersed base weather, local weather observations, forecasts and Pibals are disseminated to the fighter squadrons over the electrowriter.

Members of Detachment 32 are proud of the role they play in supplying weather support to the various activities under their jurisdiction.



CHECKING the accuracy of a tape prior to transmission over a teletype circuit is TSgt Alph A. Sanfratello, Detachment 32 chief observer.

### Weathermen Visit 2d Wing

Meteorologists from France and Belgium recently visited 2d Weather wing, Lindsey AS, Wiesbaden, Germany.

Purpose of the visit was to familiarize key personnel of the allied weather services with the professional support the wing provides to its wide variety of customers. The visitors were welcomed and briefed by Col. Richard M. Gill, wing commander.

The group consisted of Capt. Henri Rosert, French Air Force; Charles Villier, French civilian meteorologist; Capt. P. D. Devuyst and 1st Lt J. Gregoire, both of the Belgian Air Force.

The Belgian officers briefed Colonel Gill on their country's automatic data procedures.

Following the visit, the group departed for Ramstein, Germany, where they visited facilities of the 31st Weather Squadron.

The briefing and tour are part of a stepped-up program to share military and technical information with the United States' allied partners.

## Pilot Briefing



BRIEFING a pilot on future movement of a weather system is 1st Lt James I. Wadsworth, duty forecaster. Detachment 32 provides weather support for new and old USAF jet aircraft and for pilots of the new US Strike command.

## Lt Col. and Mrs. Montague Earn Good Citizens Award

Lt Col. and Mrs. Hal R. Montague, Det. 11, 4th Weather group, have been selected as the Patrick AFB, Fla. good citizens for April. A recent article in the Patrick AFB Missileer stated that their "contribution as citizens shows a depth of concern and a vitality that would be hard to match."

For the past nine years Colonel and Mrs. Montague have sponsored a teenage Italian girl and a nine-year-old Greek girl under the Foster Parents plan, making regular contributions for their upkeep.

They have also established a scholarship at their alma mater of Florida State university, where their oldest daughter, Judy, is now a student.

Mrs. Montague has held such offices at Patrick as president of the Officers Wives' club; Welfare chairman of the Officers Wives' club; staff aide, American Red Cross; and co-chairman Spotters, American Red Cross and Officers Wives' club.

Mrs. Montague also organized the CHAP (Children Have a Potential) program at Family Services and has served as PTA room mother and Sunday school teacher.

Colonel Montague is well known for his efforts as president of the Base Athletic council and

in some quarters is a legend for his top physical condition. He participates in basketball, softball and belongs to three bowling leagues.

With sports activities, Colonel Montague balances out his activity as a committeeman and sponsor of Explorer Post 327. He is also head usher for Protestant Chapel activities.

As Detachment 11 operations officer and Air Force Missile Test center staff meteorologist, Colonel Montague was recently awarded the Air Force Missile Badge for outstanding contribution to the testing program.

Amid the demands of his job he has remained an active member of the AFMTC Speakers bureau, informing US citizens on the USAF space accomplishments and objectives.

Colonel Montague is due to leave Patrick AFB for an assignment in Viet-Nam, while Mrs. Montague will return to her hometown in Colorado.



KEEPING careful surveillance on a developing thunderstorm with radar equipment is 1st Lt Paul M. Hoeting. The MacDill AFB area has one of the highest thunderstorm activity rates in the world.

## Combat Ready



MANNING a .30 caliber machine-gun emplacement at Soc Trang, Republic of Viet-Nam, are (l to r), A2c Stephen J. Cooke, A2c George D. Hamilton, A3c Josiah P. Dove jr., (all weather observers), SSgt Edison A. Thomas jr., TSgt Ralph C. Morris (weather forecasters) and A1c Michael L. Armstrong (weather observer). These "double duty" airmen are with Det. 7, 30th Weather squadron.



INTERPRETING weather information for 1st Lt Nguyen The Thau, Viet-Nam Air Force weather detachment commander, is Maj. Albert S. Barton, commander of 30th Weather squadron's Detachment 2.



INSTRUCTING a Viet-Nam Air Force sergeant in the use of the theodolite are SMSgt Chester J. Gueths and A2c Carl E. Jackson, both of Det. 2, 30th Weather squadron. The trainee, SSgt Cang Van Ngoc, is one of numerous weather specialists learning meteorology in south Viet-Nam and Thailand under USAF instructors.

# 30th Weather Squadron

Story by TSgt Charles Mogensen (former editor, AWS Observer)

Photos by SSgt P. J. Hicks

Most laymen find it hard to imagine weathermen helping to win a war. Yet, in Southeast Asia, these "quiet men" definitely are helping to win a war against a treacherous, creeping foe who can be anywhere.

Exemplified by USAF specialists, Viet-Nam Air Force (VNAF) trainees and local professional meteorologists, the "weather willies" are giving top-notch support to the VNAF-USAFA effort against the Viet Cong.

Scattered throughout Viet-Nam, with one branch serving in neighboring Thailand, the non-glamorous, background weather types are not only furnishing vital data needed for general air operations but are doubling as instructors for both VNAF and Royal Thai Air Force (RTAF) weather novices.

Under the leadership of Lt Col. Lewis L. Howes, commander of the 30th Weather squadron at Tan Son Nhut, the unit directly supports the 2d Air division in its manifold activities. Training of local personnel is one of its key duties. Under-scoring the significance of the unit is the fact that Colonel Howes serves as weather advisor to Brig. Gen. Rollen H. Anthis, commander, 2d Air division.

The mission of the 30th Weather squadron is to fulfill meteorological requirements established by the commander, 1st Weather wing, and plan for and provide meteorological service to US Military Assistance Command Viet-Nam (MACV), and other US forces as directed. The other forces now include the Army, Navy and Marines, making it a mighty mission to maintain.

Most of the nine detachments of the 30th Weather squadron in the RVN are jointly operated by VNAF and USAF personnel. The USAF specialists typify the US operations objective in Southeast Asia—train and advise.

Ultimately, VNAF weathermen are expected to assume full responsibility.

Detachment 2 is also located at Tan Son Nhut. It is commanded by Maj. Albert S. Barton and serves as the "forecast center" for South Viet-Nam under the present centralized operations concept. A joint VNAF-USAFA endeavor, it provides centralized forecasting and severe weather warning support for other detachments in the RVN. It also gives aircraft clearance support for flights beyond the smaller detachment's capabilities.

Its weather editing section coordinates with the Air Force Communications system and local Vietnamese meteorological agencies, collecting data from Southeast Asia, preparing weather information bulletins and transmitting them into the global system of data collection.

Maj. Abraham L. Ruiz commands Detachment 1 at Don Muang, Thailand. Another joint

RTAF-USAFA effort, it performs functions similar to Detachment 2. Actively training Thai weathermen, it advises the RTAF weather component and monitors operations of the rawinsonde unit at Ubon, and the briefing and observing locations at Korat and Nakhon Phanom.

Located north of Saigon at Bien Hoa is Detachment 3. Capt. Richard L. Kimmel, commander, and his small group maintain a very active support of VNAF-USAFA-US Army flying operations and aid greatly in the on-the-job training of VNAF personnel.

### No Guessing

The Detachment 4 weather unit operates at Nha Trang, on the lower east of South Viet-Nam. Their commander is 1st Lt Joseph A. Schmitt and active support is maintained in flying operations and training VNAF personnel.

The size of such small groups belie their importance, for without accurate, up-to-the-second, scientific weather reports for the VNAF flyers and their American advisors, who are fighting this unique war, little could be accomplished against the roving Viet Cong. Simply guessing as to what the weather is (or would be at a battle site) would not only be foolish but impractical and costly in time, energy, and perhaps human lives.

In the north country, in the mountainous central plateau area, Detachment 5 plays a major role in anti-VC mountain battles. At Pleiku, under 1st Lt David F. David, a vital and ceaseless weather operation for the VNAF and US Air Forces and US Army advisor flyers continues. This is one of the key warfare areas of this beleaguered nation.

Approximately 90 miles north of Nha Trang, at Qui Nhon, Detachment 6 expends most of its workload towards support of Army flying activities. SSgt Alvin

G. Wiens heads the unit. He and his specialists train civilian members of the Department of Meteorology of Viet-Nam as part of their OJT chores.

In the very active Mekong Delta area, is a double-duty detachment which mans a gun position near the weather station as part of the base defense. Commanded by TSgt Ralph C. Morris, Detachment 7 at Soc Trang bolsters both Army and VNAF-USAFA operations. It is in this significant area that many of the past and present campaigns against the tricky VCs have been and are being executed.

CWO Roy M. Spence supervises Detachment 8 at Vung Tau. This group of USAF weather experts perform their services near the famous beach and resort area of Cap-Saint Jacques, supporting US Army flying activities against the Red-led Viet Cong insurgents.

Finally, Detachment 9, stands ever alert at Da Nang. This area is 90 miles southeast of the demilitarized zone separating the Republic of Viet-Nam from North Viet-Nam. Maj. Michael A. Cvetkos commands the unit, which is close to the appealing resort city of Tourane.

### Full Gamut

The Da Nang weather group runs the full gamut of support to the Viet-Nam Air Force, USAF, Army, Navy and Marines and they all operate from this northern stronghold against the marauding bands of Viet Cong. Fairly extensive in its overall operations, the detachment trains VNAF personnel and has a healthy rawinsonde training program for DOM civilian employees.

Yes, these are the quiet men in the battle of South Viet-Nam. They are mostly unsung and they seldom attract the attention of the general public. But in their modest, scientific and determined way, they are proving that their consistent weather support is essential to the overall allied effort against the enemy of the Republic of Viet-Nam, the Viet Cong.

## Marriages

BOUSLEY-WEBER—Miss Janet Marie Weber of Smithton, Ill., to A2c Richard F. Bousley of Hq AWS, on June 1, 1963 at St John the Baptist Church, Smithton, Ill.



DISCUSSING personnel assignments of mutual interest with Capt. Tu Bo Cam, commander of the VNAF Air Traffic control and weather squadron, is Lt Col. Lewis L. Howes, commander of the 30th Weather squadron at Tan Son Nhut AB, Viet-Nam.

## Sylvania Is Given \$97,000 Contract

Last month the National Aeronautics and Space Administration awarded a \$97,000 study contract to Sylvania Electric Products, Inc., for preparation of a plan to use satellites to collect weather and oceanographic data from unmanned weather stations, buoys and balloons.

Examples of data that might be collected in this way are air temperature at various heights, humidity, wind speed and direction, water temperature, wave height and ocean current velocity at various depths and possibly, the tracking of icebergs, various forms of wildlife, search and rescue and location of returned spacecraft.

The satellite would interrogate each station by means of a code. This information would be stored on magnetic tape in the satellite. Then upon command from the ground the satellite would transmit information to a data retrieval station for distribution to various users.

Analysis of data collected on a world-wide basis would result in a better knowledge of weather and sea. Possible benefits include: better forecasts, improved weather routing of ships, and location of water having temperatures and other characteristics favorable to marine life.

Sylvania Electronic Systems Applied Research laboratory, Waltham, Mass., will carry out the technical study under the direction of Future Applications Satellites division, Office of Applications, NASA Headquarters.

## General Nelson Visits Five Units In Europe

During his recent command trip to Europe, Brig. Gen. Roy W. Nelson jr., AWS commander, visited five cities where AWS units are stationed.

He also stopped in Stockholm, Sweden, to visit the Royal Swedish Air Force and Swedish Air Weather Service.

General Nelson visited 2d Weather wing, Lindsey AS, Wiesbaden, Germany; 28th Weather squadron, RAF Northolt, England; 21st Weather squadron, Torrejon AB, Spain; Det. 22, 31st Weather squadron, Chateauroux AS, France; and 31st Weather squadron, Ramstein AB.



DISPLAYING a trophy bearing his name as airman of the year for the 123d Air National Guard Weather flight, Portland, Ore., for 1962, is A1c Frederick L. Rose jr. A resident of Corvallis, Ore., Airman Rose is presently engaged in graduate work in General Science at Oregon State university.



Col. and Mrs. William H. Best recently announced the engagement of their daughter, Molly Ann, to Peter Ault Tinsley, son of Reverend and Mrs. Benjamin W. Tinsley, West Lafayette, Ind. Miss Best, daughter of the deputy commander of 4th Weather group, Andrews AFB, Md., is a junior at Bryn Mawr college, Bryn Mawr, Pa. Mr. Tinsley is a graduate of Hobart College, Geneva, N. Y., and is in residence at the Princeton Graduate college. The wedding is planned at Andrews AFB this month.

## Capt. Twede Earns May Flying Honors

Capt. Herman L. Twede, Det. 14, 8th Weather squadron, Goose AB, Labrador, was recently selected as the Goose AB pilot of the month for May.

He earned the honor for the astute maneuvering of his U6-A aircraft under no-power conditions at an extremely low altitude.

On April 4, 1963, he reported to his aircraft for a routine local proficiency flight, and after a thorough preflight and engine run-up he took-off. While passing through the 500-foot altitude level at the far end of the runway, the engine suddenly backfired.

Engine instruments were checked and found to be in-the-green. At the same time the fuel selector was turned to another tank and carburetor heat was applied with no effect.

At this point the engine stopped abruptly and Captain Twede was faced with the problem of crash-landing straight ahead into a heavily wooded area or making a 180 degree turn back to the runway.

Immediately, he started a right turn back to the runway, keeping in mind the wind was from his right and the availability of a parallel taxiway to the runway.

The base control tower was notified of the engine failure and cleared the aircraft to land. It landed without further incident.

Captain Twede is an instructor pilot and instrument flight examiner in the U6-A. The 32-year-old weatherman is a senior pilot with a B.S. degree from Brigham Young university, and meteorology training from the University of California, Los Angeles.

The space suits of Project Mercury astronauts carry instruments to record the amount of radiation to which the space pilots are subjected. Readings from these instruments are entered on each astronaut's record so the total of all radiation received may be known.

## Retirees

The following AWS personnel retired on dates indicated. The listing is by rank and month of retirement.

MAY 31, 1963

Lt Col. Russell R. Roberts, Det. 3, 1st Weather wing, APO San Francisco, Calif.

Lt Col. James H. Ainsworth, Det. 8, 8th Weather squadron, Turner AFB, Ga.

Lt. Col. Bernard L. Beaudoin, Det. 9, 9th Weather squadron, Schilling AFB, Kan.

Maj. Frederick W. Breese, Det. 6, 33d Weather squadron, Truax Field, Wisc.

Maj. Charles L. Cloy, Det. 4, 33d Weather squadron, Kincheloe AFB, Mich.

Maj. Leslie E. Cochran, Det. 25, 28th Weather squadron, APO 167, New York, N. Y.

Maj. Charles G. Cook, Det. 11, 16th Weather squadron, Ft Sill Al, Okla.

Maj. Hugh M. Curran, Det. 5, 32d Weather squadron, Tyndall AFB, Fla.

Maj. William L. Hill, Det. 2, 29th Weather squadron, Grand Forks AFB, N. D.

Maj. Harold E. Ivey, Det. 26, 26th Weather squadron, Bunker Hill AFB, Ind.

Maj. John J. Jarratt jr., Det. 31, 25th Weather squadron, Nellis AFB, Nev.

Maj. Jack H. Oller, 3d Weather wing, Offutt AFB, Neb.

Maj. Robert M. Preer, Det. 6, 24th Weather squadron, Lowry AFB, Colo.

Maj. Rufus C. Ross, 9th Weather Reconnaissance group, McClellan AFB, Calif.

Maj. John E. Walseth jr., Det. 12, 12th Weather squadron, Otis AFB, Mass.

Maj. Rodney S. Wheeler, 28th Weather squadron, APO 125, New York, N. Y.

Maj. Archie F. Williams, Det. 19, 9th Weather squadron, Schilling AFB, Kan.

Capt. Charles A. Covey, Det. 2, 33d Weather squadron, K. I. Sawyer AFB, Mich.

Capt. Alexander R. Hover, Det. 42, 8th Weather group, Kansas City ADM, Mo.

Capt. Roger L. Thomas, Det. 8, 1st Weather wing, APO 239, San Francisco, Calif.

CWO W-4 Albert S. Gatrell, 2d Weather group, Langley AFB, Va.

CMSgt Lynn G. McDonald, Hq AWS, Scott AFB, Ill.

SMSgt Ercell R. Iverson, Det. 14, 24th Weather squadron, Travis AFB, Calif.

MSgt James R. Cuffia, Det. 1, 31st Weather squadron, APO 132, New York, N. Y.

MSgt Ralph E. Hawes, 56th Weather Reconnaissance squadron, APO 328, San Francisco, Calif.

TSgt Dale E. Moore, Det. 6, 24th Weather squadron, Lowry AFB, Colo.

TSgt Gilbert H. Gordan, Det. 3, 4th Weather squadron, Stead, AFB, Nev.

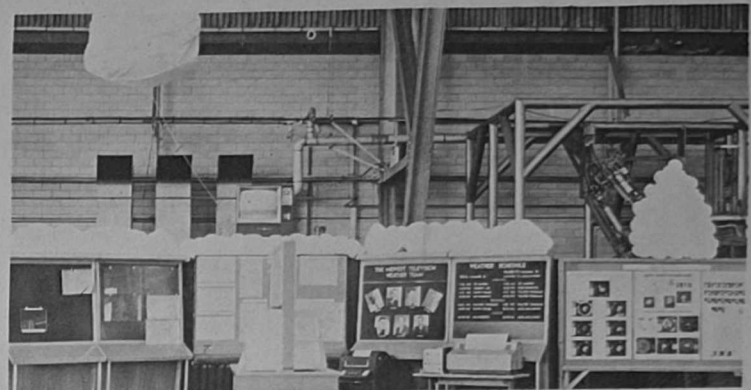
## Master's Degree For Lt Col. Pitt

Lt Col. Lewis A. Pitt, staff weather officer, First US Army Intelligence section, Governors Island, N. Y., received his master's degree in education this month from New York City College.

He specialized in the teaching of earth science and general science at the secondary school level. He holds a BA degree from Brooklyn college, and is a member of Kappa Delta Pi, National Education Honor society.

A veteran of 21 years service, he has served as an aerial navigator and is a professional member of the American Meteorological Society.

## Armed Forces Day



AIR WEATHER SERVICE personnel around the world participated in observing the 14th annual Armed Forces Day on May 18. A united effort was made by the Armed Services to inform the public on the latest concepts of national defense, philosophy, weapons, personnel and materiel. This exhibit took top honors at Chanute AFB, Ill., for the Department of Weather Training. It consists, in part, of an operating weather station, continuous motion pictures of films concerning weather, television personalities from local stations, a full size Tiros model, and other interesting features.



A PORTION of the Armed Forces Day weather display, set-up by Det. 7, 24th Weather squadron, Mather AFB, Calif., deals with weather facsimile.



FUTURE weather observer operates the ML-121, portable ceiling light and generator, at the weather station at Ft Eustis, Va.



YOUNGSTERS tour the weather station at Det. 13, 16th Weather squadron, Ft Eustis, Va., on Armed Forces Day. Here all eyes focus on the talking teletype. The machine operates through an electronic data processing scheme and prints out answers to verbal questions.

## Col. Shtogren Departs AWS

Col. Anthony T. Shtogren, commander of the 3d Weather wing, Offutt AFB, Neb., since August 1957, will assume control of the Eastern Communications region at Westover AFB, Mass., July 1.

New 3d wing commander will be Col. Russell K. Pierce jr., presently deputy commander.

Col. Ralph G. Suggs, presently commander of the 8th Weather squadron at Westover AFB, Mass., will be assigned to Offutt AFB as deputy commander.

In January 1963, Colonel Shtogren was nominated for appointment to the grade of brigadier general.

He has served as commander of three wings in AWS.

They include 1st Weather wing, 3d Weather wing, and 2d Weather group. He has also served as AWS director of personnel.

His new assignment will bring



Col. Shtogren

an end to his career with Air Weather Service, and mark his introduction into the Air Force Communications Service.

## Births

COOK, A2c and Mrs. Ronald T., twin sons, Andrew L. and Roy E., born Apr. 2, 1963 at Munson Army Hospital, Fort Leavenworth, Kansas. Father assigned to Det. 16, 16th Weather squadron, Fort Leavenworth, Kansas.

HAYES, A1c and Mrs. Michael R., a son, David Scott, born May 6, 1963 at USAF Hospital, Homestead AFB, Fla. Father assigned to Det. 2, 8th Weather squadron, Homestead AFB, Fla.

BARTOLOME, A3c and Mrs. Paul J., a daughter, Alice Marie, born May 9, 1963 at Las Vegas Hospital, Las Vegas, Nevada. Father assigned to Det. 31, 25th Weather squadron, Nellis AFB, Nevada.

IWERTSEN, 1st Lt and Mrs. Alfred, a son, Richard David, born May 15, 1963 at USAF Hospital, Scott AFB, Ill. Father assigned to Hq AWS, Scott AFB, Ill.

CRUMLEY, TSgt and Mrs. Larry D., a daughter, Lisa, born May 19, 1963 at USAF Hospital, Scott AFB, Ill. Father assigned to Hq AWS, Scott AFB, Ill.

SMITH, SSgt and Mrs. Albert, a son, Barry Dale, born May 21, 1963 at USAF Hospital, Homestead AFB, Fla. Father assigned to Det. 2, 8th Weather squadron, Homestead AFB, Fla.

KAMPMEYER, A1c and Mrs. William G., a daughter, Kristina Marie, born May 31, 1963 at USAF Hospital, Orlando, Fla. Father assigned to Det. 5, 8th Weather squadron, McCoy AFB, Fla.



RECEIVING a certificate of appreciation prior to leaving his post as commander of 1st Weather wing, Fuchu AS, Japan, is Col. William S. Barney (right). Making the presentation is Maj. Gen. Juro Takahashi, commander of the Japan Air Defense Force's Airway and Air Communications and Air Weather Service. Colonel Barney, presently AWS vice commander, was commended for his consistent interest and assistance to the JASDF weather service.

## NCOs . . .

(Continued from page 1)

at the meteorological technician's course 25270 in 1954 and the honor graduate at the weather forecaster superintendent course 25300 in 1957. He holds the AWS record for the highest score ever attained on a 25370 APT test, which he achieved in 1959, scoring a 173.

Sergeant McElmurry received national recognition by having procedures published in the December 1961 issue of the Bulletin of the American Meteorological Society, entitled "Forecasting Rain with Low Stratus in the Midlands of England."

Sergeant McElmurry and his wife, Emogine, have four children, all girls.

With nominees from other commands, the airman selected to represent MATS will attend the AFA convention as an honored guest of the association. Travel to and from Washington, hotel accommodations and tickets to official functions of the September 11 to 14 affair will be provided for the selected individual and his wife.

Other nominees considered in naming the two AWS outstanding airmen of the year were: SMSgt Owen Thomas, SMSgt A. B. Cates, MSgt Norman A. Larson and TSgt Leroy Raynor, Hq AWS; CMSgt Bobby C. Hughes, 1st Weather wing; TSgt Thomas J. Fisher and TSgt James L. Bailey, 2d Weather wing; CMSgt William D. Allred and SSgt Richard R. Remy, 3d Weather wing; TSgt Carlton Minton, CMSgt Alvin W. Knight, SSgt Wesley W. Armitage and A2c John H. Nixon, 4th Weather wing; MSgt Charles L. Rogers, 2d Weather group; TSgt Wayne A. Carlson, 4th Weather group; CMSgt Billie L. Shuptrine and MSgt James J. Eldringhoff, 8th Weather group; and MSgt John S. Bazar, 9th Weather Reconnaissance group.

The useful "lifetime" of a Tiros weather satellite averages about four months. The name "Tiros" stands for Television Infrared Observation Satellite.



SPEAKING at a recent meeting of the Greater St. Louis chapter of the American Meteorological Society, which met at Hq AWS, is professor Frederick Sargent 2d, University of Illinois Department of Physiology. He spoke on "Meteorology and Human Health."



GIVING the Fuchu Air Force Weather Central portion of the Far East network's noon weather round-up is Pam McGarvey. The incident took place as part of the Kanto Base command's Boss-for-a-Day program. With Pam are James Martin (left), another officer-for-the-day, and 1st Lt John Deeming, regular radio weatherman.

## AWS Headquarters Has First Dining-In

Hq Air Weather Service officers held their first Dining-In in the history of AWS this month at the Scott AFB Officers Open mess.

The event, which originated in England, was held to bring the AWS officers together in an "atmosphere of camaraderie, good fellowship and social rapport."

General Nelson was president of the affair, and 2d Lt William W. Lana, of the AWS Materiel division, was Mr. Vice. The position of Mr. Vice is filled by the most junior officer in the command.

Guest speaker was Maj. Gen. Raymond J. Reeves, MATS vice commander, who spoke on the "Importance of AWS to MATS."

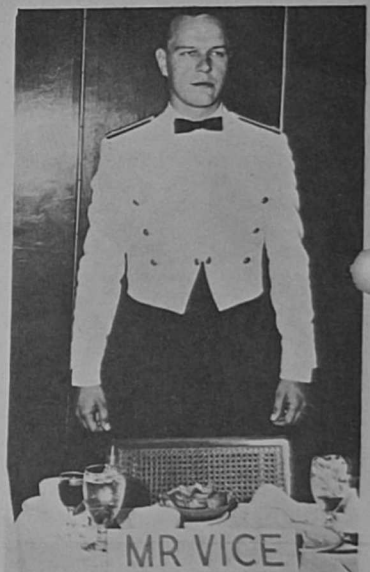
The Dining-In is an old English tradition, which had its origin in the monasteries, and was later taken up by early universities, spreading to the military with the advent of the officers' mess.

In the early 1800's, when England was the reigning power in India, an English Army Post gave the Dining-In its first impetus. The commander of the Indian

outpost had officers under his command who lived on the post, had their own mess hall, but were never present for dinner.

Since the local area was more interesting than the Post Officers' mess, the commander found himself eating alone many nights. To bring the officers back to the mess and to create camaraderie, the commander instituted a program whereby all officers would only dine at least once a month in the mess, but they would dine in full military ceremony.

Brig. Gen. Roy W. Nelson jr., AWS commander, has announced that Hq AWS will have Dining-Ins twice a year.



CALLING his fellow AWS officers to attention during a recent Dining-In is Mr. Vice, 2d Lt William W. Lana, of the AWS Materiel division. His duties during the event included proposing toasts, announcing dinner and other ceremonial acts.

## Washington Officers Honor Gen. Nelson

Weather officers in the Washington, D. C. area recently gathered at Andrews AFB Officers Open mess to congratulate Brig. Gen. Roy W. Nelson jr., on his promotion to general and advancement to Air Weather Service commander.

The occasion was hosted by Col. Robert F. Long, commander, 4th Weather group, and approximately 150 officers and their wives from the weather groups, 1210th Weather squadron, and Detachment 2, were on hand to greet General Nelson.

Mr. James V. Bassett, AWS Washington office; Col. and Mrs. Nicholas Chavasse, Assistant for Weather, Deputy Chief of Staff, USAF Operations; Lt Col. and Mrs. David J. Eddleman; and Lt Col. and Mrs. Douglas C. Purdy, Hq USAF, were also on hand to pay their respects to General Nelson.

## Six Tokyo Students Assume Command

Boss for a day is what six American high school students from the Tokyo area recently became, as they took-over 1st Weather wing staff officer positions as part of the Kanto Base command Boss-for-a-Day program.

Charles H. Culp, 15-year-old son of Lt Col. C. H. Culp, Hq 5th AF, acted as wing commander, substituting for Col. William S. Barney (then commander).

Other positions temporarily vacated were: weather central commander, operations officer, director of scientific services, briefing officer and chief of the climatology division.

The students, all between 14 and 16 years of age, were unanimous in their reaction to the varied aspects of the weather business. Pam McGarvey, summed-up the feelings of the entire group in one sentence: "I never dreamed that it was so involved."

The students concluded their work-day with a final critique and briefing session. The program was sponsored by the Youth Activities section of the Kanto Base command.

# Weathermen Adopt Fiberglass Shelters

"Instant igloos" have recently been adopted by weathermen of the 6th Weather squadron, Tinker AFB, Okla. They promise to make life somewhat more bearable in the out-of-the-way places traveled for sampling weather.

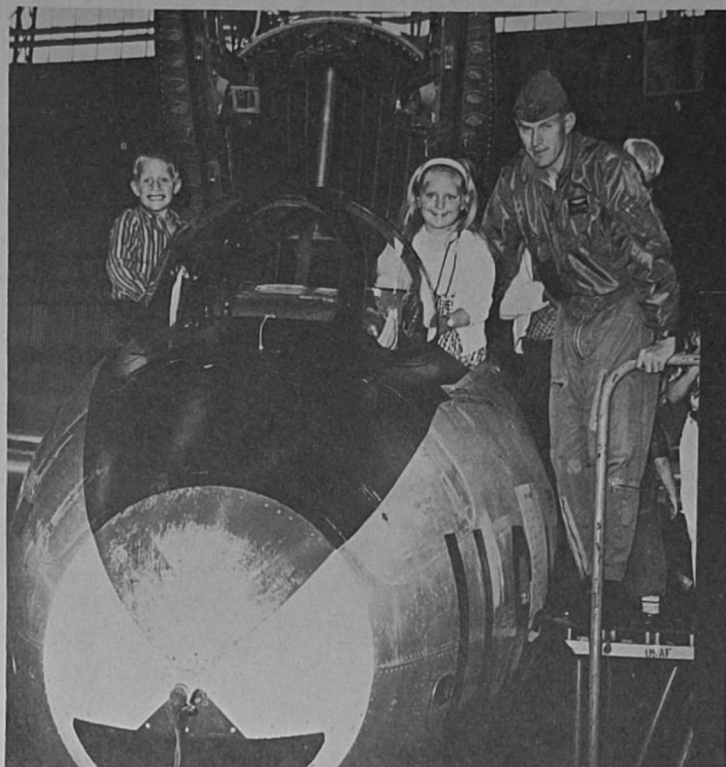
The igloos consist of prefabricated fiberglass and are designed to protect meteorological radio receivers in inclement weather. Regarding transportation, the shelters fit into a shipping crate, the eight sections of the shelter nesting within each other.

The sections, easily assembled, are bolted together with brass fastenings which do not interfere with the faint radio signal received by the huge antenna from the tiny rawinsonde transmitter suspended from a weather balloon at 100,000 feet altitude.

The mission of the 6th Weather

squadron is to provide weather data to either the Air Force or Army anywhere in the world where permanent facilities are not available.

"These fiberglass antenna shelters in inclement weather such as the arctic regions where we encounter high winds and sub-zero temperatures will make maintenance on the equipment bearable," said Lt Col. Elwyn A. Moseley, squadron commander. "They will also be invaluable as equipment shelters in the rain forests of the tropics. The need for weather information 'bobs' up at the most unpredictable places," the colonel continued. "Being the only organization in the two services capable of traveling to out of the way places to furnish weather data, we keep ourselves always ready."



SHOWING two visitors, Michael Hoskins and Linda Trout, the cockpit of a B-57 is Capt. William Stoelzle, a member of the 57th Weather Reconnaissance squadron, Avalon airfield, Australia. The children were attending the unit's open house festivities.

# Weather Squadron Holds Open House

Believing that wives play an important role in the axiom, "an informed organization is an efficient organization," Lt Col. Thomas A. Aldrich, commander of the 57th Weather Reconnaissance squadron, Avalon airfield, Australia, recently arranged for a unit open house.

Wives and children of servicemen stationed in Australia attended and besides touring the facilities were briefed on the unit's mission.

The end result of the affair was that wives became more aware of their husband's duties while the children suffered from too much coke and too many hot dogs.

At the end of the day one information officer commented with a sigh of relief, "Only 364 more days till the next open house."

# Hurricane Hunters . . .

(Continued from page 1)

Force area, a Navy area, and a joint USAF-USN area.

The Navy area covers the Gulf of Mexico, the Caribbean sea and a portion of the Atlantic east of the Antilles. The joint USAF-USN area lies along the eastern seaboard from New York city south nearly to San Juan, Puerto Rico. Widest point of this territory extends some 400 miles from the US coastline.

The 53d Weather Reconnaissance squadron, operating this year for the last season from Kindley AFB on the island of Bermuda, before moving in September to Hunter AFB, Ga., covers the Air Force area. This area flanks the joint area from Puerto Rico to New York city and the eastern seaboard to St. John's Newfoundland, and extends eastward to the European-African coast.

In season and out, the squadron's aircraft probe the skies above the Atlantic, furnishing data that fills blank spots on the weather charts.

During the annual hurricane season, the squadron receives a daily teletype message from the USAF liaison officer in Miami which outlines the reconnaissance requirement for the following 24 hours. When an immediate report is needed, a direct telephone request is made by the liaison officer.

Throughout the season, daily

weather missions are made along fixed routes over the Atlantic. Special storm reports are provided by diverting a routine flight into the storm area.

As in the past, coverage of the joint Air Force-Navy area during the 1963 hurricane season will be based on the capability of the two services.

### Aircraft Reports

Air Force aircraft reports are received in the Miami center by teletype from Bermuda and checked for accuracy by the USAF liaison officer. Reports give Center forecasters temperature, pressure, humidity, winds, cloud structures and other technical information within and outside the storm's eye or center.

For additional information, the liaison officer may ask AWS ground stations near an area of interest to make special surface and upper-air observations. Ground radar installations along the coast and down the Atlantic Missile range provide additional data by "watching" storms within 200 miles of the coast. Several of these radar units will accurately fix and follow the storm at the same time.

### Weather Bureau

The Weather Bureau issues four advisories daily for civilian use, containing forecasts for six hours hence. The Weather Bureau also provides four daily bulletins, containing 12- and 24-hour forecasts, to the Air Force and Navy. In addition, men at the center prepare two daily "outlooks" for the Department of Defense, giving the storm's position and intensity in 48 hours and a general statement of direction of movement for 48 to 72 hours.

Always alert and watchful, the National Hurricane center is the nation's guardian against hurricane-caused death and destruction. From its office in Miami, its vision reaches out through radar sites along the coast and on the wings of weather reconnaissance aircraft.

When the hurricanes come, US weather agencies, working together, spread the word to take precautions which can prevent loss of life and keep property damage to a minimum.

# Satellite Ends Operation After Establishing Record

The National Aeronautics and Space Administration's Tiros V meteorological satellite has closed its weather eye in space after setting a record of 10 and one-half months of continuous operations, a lifetime longer than any other previous Tiros.

During this lifetime, the satellite not only operated longer than any other Tiros, but transmitted more earth cloud cover pictures.

Through orbit 4,579, which occurred on Saturday, May 4, when pictures of excellent quality were received, Tiros V had sent more than 57,857 earth cloud cover pictures. Of this total, 49,212 or more than 80 percent were usable for meteorological purposes. First indication of a malfunction in the satellite came Sunday, May 5, when cloud cover pictures being received at the Tiros ground station at Wallops Island, Va., began yielding only blank frames.

The analysis of data from the satellite pointed to a failure in the shutter operation mechanism as the most probable cause. The other camera on board failed July 6, 1962, 17 days after launch from Cape Canaveral.

Because of a random electrical failure, Goddard Space Flight center, Greenbelt, Md., in conjunction with the Radio Corporation of America, the spacecraft builder, monitored transmissions from Tiros V on May 6 in an attempt to pinpoint the problem.

# Commendation Medals

US Air Force Commendation Medals for the period of time listed have been recently awarded or approved for presentation to the following AWS personnel:

Lt Col. James M. Burkhart, 1st Weather wing, from July 25, 1960 to Apr. 15, 1963.

Lt Col. Jarrold D. Lilliedoll, Det. 9, 8th Weather squadron, from Feb. 1, 1963 to Mar. 25, 1963.

Lt Col. Merle E. Wilson, 3d Weather wing, from Mar. 23, 1958 to Apr. 15, 1963.

Maj. Frank Z. Kamer, Det. 1-2, 3d Weather wing, from July 8, 1961 to Jan. 25, 1963.

Maj. Thomas B. Scott jr., 25th Weather squadron, from July 28, 1960 to Apr. 1, 1963.

Capt. George D. Benjamin, Det. 1, 55th Weather Reconnaissance squadron, from Sept. 11, 1960 to Feb. 28, 1963.

Capt. Gordon Choy jr., Det. 3, 3d Weather wing, from June 1, 1961 to Mar. 29, 1963.

Capt. Ted M. Osaki, Hq AWS, from Jan. 1, 1962 to May 9, 1963.

Capt. John S. Perry, Det. 1, 3d Weather wing, from July 19, 1960 to Apr. 12, 1963.

Capt. Edward V. Polhamus, Det. 1, 3d Weather wing, from Jan. 10, 1961 to June 4, 1963.

Capt. Harvey E. Towne, Det. 2, 2d Weather group, from June 1, 1962 to May 27, 1963.

Capt. Daniel M. Whealen, Hq AWS, from Dec. 1, 1958 to May 8, 1963.

1st Lt Charles L. Marsters, 1st Weather wing, from Dec. 1, 1961 to Apr. 1, 1963.

CMSgt Hillard J. Jakowski, Det. 10, 4th Weather group, from Nov. 1, 1960 to Jan. 1, 1963.

CMSgt Lynn G. McDonald, Hq AWS, from July 6, 1960 to May 24, 1963.

SMSgt James H. Goodman, 1st Weather wing, from June 1, 1960 to Apr. 30, 1963.

TSgt Robert A. Rowe, Det. 38, 8th Weather group, from Jan. 1, 1962 to Mar. 1, 1963.

A photo taken by Capt. William H. Quelch jr., of the Hq AWS Inspector General's office, appears inside the front cover of the June issue of Airman Magazine.

The photo was taken with available light and depicts the around-the-clock work of AWS personnel. It shows SSgt Harold Dial jr., Det. 12, 15th Weather squadron, Olmstead AFB, Pa., taking observations in the late hours.



RECEIVING a \$75 check and congratulations from Lt Gen. Troup Miller jr., commander of Air University, Maxwell AFB, Ala., is MSgt Cecil J. Crader, 3800th Air Base wing Emergency Plans office. Sergeant Crader, formerly assigned to 2d Weather wing, Lindsey AS, Germany, receives honors for having been selected as one of the three Outstanding Airmen of Air University command for 1963.

# Next Issue

Weathermen Praised for Performance

Weather Group Supports Tenth Tests

Highlighting the next issue of The Observer will be:

- New chairman elected for the Greater St. Louis Chapter of the American Meteorological Society.
- Weatherman defending his USAF lending crown.
- Science-minded grade and high school students honored at AMS banquet.
- An article on the newspaper's new cartoonist.



by SSgt Milton J. Lehart

Greetings sports fans and welcome once again to the inside scoop on AWS athletic endeavors.

Bowlers from the headquarters have gone wild since last month. Two teams have concluded the season by bringing home trophies to be placed in our coveted trophy case, where nothing has been added since last February when the AWS Observer received a memento for placing second in the USAF Newspaper contest.

Team "A," captained by CMSgt Milton L. Haberman and consisting of Major Kellogg, CWO Albright, CMSgt McDonald, CMSgt Holland, MSgt Garland, and TSgt Raynor, received an award for taking first place in one division of the Scott AFB Intramural Bowling league. They lost to Hq MATS in the semi-finals of the base championship.

Team "B," captained by MSgt John Korzeniewski and consisting of Capt. Simonson, SMSgt Ramon, MSgt Hyde, TSgt Szafranski, SSgt Mingo and SSgt Hill, placed second in the base-wide league.

Elsewhere around the command, the weather softball team at Bolling AFB, Washington, D. C., is still seeking its first victory after two consecutive set-backs. The unit has lost by scores of 11-4 and 18-5. Sounds like they could use a little pitching.

Down at Eglin AFB, Fla., A1c James E. Cameron jr., Det. 10, 4th Weather group, shot a five-over par 293 to capture the 72-hole spring golf tournament. He was 14 strokes under his nearest competitor, finishing with a one-under-par 71 on the final round of play. That's the way to win a tourney—going away.

Folks around the headquarters are starting to wonder what's happening to the sizzling AWS softball team, which has recently cooled-off with a 2-5 record, losing their last four outings. Ouch!

Time to go, I promised my wife I'd cut the grass, but instead I think I'll play a little golf.



MODELING his winning bowling form is A1c Ramon C. Batts of Det. 50, 1210th Weather squadron, Asheville, N. C. Airman Batts won second place in the Ninth Annual North Carolina State Handicap Bowling tournament singles event. He registered a 763 series for second place among 1,976 entries. He has been bowling for two years.

## Weather Unit Claims Mark In Education

Detachment 16, 24th Weather squadron, Webb AFB, Tex., is challenging any organization to equal its educational achievements.

Maj. Richard A. McClurg, detachment commander, boasts that 65 percent of members of the unit are enrolled in off-duty educational courses.

Seventeen out of twenty-six detachment members are engaged in studies at the Howard County Junior college, Big Spring, Tex., an increase of 35 percent over the unit's program last fall.

Most personnel are studying science, mathematics, or other hard core courses which are directly related to the meteorological career field.

All members of the detachment have completed high school, either through formal schooling or by having passed the high school level GED test. In addition, 46 percent of the personnel have completed some college study. Two men have degrees and three others have passed the college level GED test.

## Capt. Tye Scores 'Remarkable' Ace

Capt. Pallas Tye, Det. 50, 1210th Weather squadron, Asheville, N. C., has performed one of the most remarkable feats in the history of golf in the Asheville area.

Captain Tye's feat was a hole-in-one scored on the third hole of the Munny Golf course, near Asheville. His was the first to be scored on the 261-yard, par-four hole.

A member of a fivesome, he made the almost impossible double eagle with a sizzling liner with a number one wood. The ball hit in front of the green and ran straight to the pin.

# CWO Haymond Cited For Little League Work

CWO Frederick B. Haymond, formerly of Det. 20, 24th Weather squadron, Laughlin AFB, Texas, was recently honored for his work with the Base Little League program.

May 25 was named Fred Haymond day at Sportsman Field at Laughlin, and CWO Haymond received a letter of recognition from Col. A. F. Taute, 3646th Pilot Training wing commander and a scroll of appreciation from the Base Little League.

CWO Haymond, who has departed Laughlin AFB for a new assignment at Davis-Monthan AFB, Ariz., was instrumental in chartering and instituting the Base Little League.

In his letter of recognition, Colonel Taute, commented, "During the past three years you served in every capacity of the Little League from bus driver to president of the present association."

"As the Little League program grew on base, it was through your efforts that the Laughlin Little League association was chartered and put into operation. This took many hours of your off-duty time and your reward was seeing this league operate so successfully."

The colonel's letter pointed out that a baseball diamond was constructed and maintained

through Haymond's efforts. The warrant officer used 30 days of his leave to complete the diamond.

He also organized and supported a team in the Babe Ruth League for boys too old for Little League participation.

The base program grew from five teams with 65 participating boys, to three leagues with 11 teams and 150 boys taking part. This includes all ages from 8 through 17 years of age.

## Unit Lauded For Support

Personnel of 1st Weather wing's Field Maintenance unit at Tachikawa AB, Japan, were recently commended for their outstanding support to units in the Trust Island territory and New Guinea areas.

Lt Col. Elwyn A. Moseley, commander of the 6th Weather squadron (Mobile), Tinker AFB, Okla., lauded the weather equipment specialists in a letter to the 1st Weather wing headquarters at Fuchu AS, Japan.

"In every case where our personnel have requested parts from you, they have been received within a seven-day period," wrote Colonel Moseley.

"Considering the problems of distance, transportation and communications encountered in the Pacific area, I consider this a splendid reflection on the attitude, efficiency and professionalism of your Field Maintenance shop personnel."

The Field Maintenance unit is commanded by 1st Lt William M. McDonald. It is responsible for insuring that delicate instruments, used by 1st Weather wing meteorologists throughout the Asian-Pacific area, plus other Air Weather Service units, be properly calibrated, wired, and "in-service."



BEING presented trophies by Hq AWS bowling team captains is Brig. Gen. Roy W. Nelson jr., AWS commander. MSgt John Korzeniewski (center) Team "B" captain, presents a trophy to General Nelson earned by his team for taking second place base-wide, in the Intramural Bowling league. CMSgt Milton L. Haberman, Team "A" captain, holds the trophy his team received for taking second place in one division of the base league. Both trophies will be retained in the headquarters' trophy case.



"How come they made me Detco? I'm just an A3c."

## Thunderbumpers Win Base Bowling Crown

The "Thunderbumpers," a Det. 13, 8th Weather squadron bowling team, after being dropped to the losers bracket in early season play, fought their way to the Ernest Harmon AFB, Newfoundland championship, in a recent double elimination tournament.

Members of the championship team included TSgt Paul E. LeValley, SSgt Jerry J. Cox, SSgt Elmer Sinclair, SSgt George M. Lacroix, SSgt Lawrence A. Brown, A1c Thomas M. Davis, A1c Henry E. Godbout, and A1c James L. Wood.



DISPLAYING a .45 cal. master grade pistol issued by the USAF for competitive firing is MSgt Charles Reed, Det. 1, 8th Weather group, Scott AFB, Ill. Sergeant Reed hovers over 100 trophies, desk sets and medals he has won in pistol competition over the past four years. By winning two silver and one bronze Excellence in Competition badges, he received the USAF Distinguished Pistol Shooter's badge. He is the 84th USAF member to hold this distinction.