



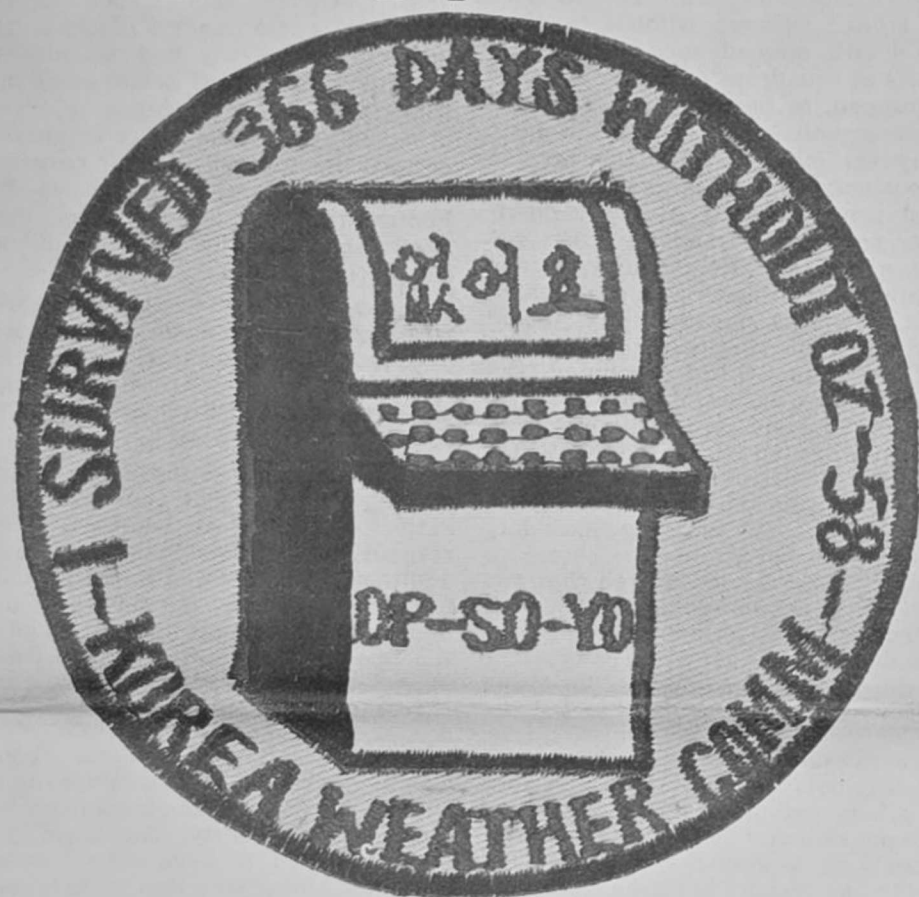
AWS Observer

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Headquarters Air Weather Service

SEPTEMBER 1983

Euglogy to OZ58, an era ends



by TSgt. James Hruz

The end of an era.

The demise of a legend.

The most infamous weather circuit in AWS, OZ58, disappeared July 30. To anyone who has been there, Korea is synonymous with OZ58. It's part of the culture and the heritage. Dealing with OZ58 became a way of life in Korea.

"The land of the morning calm" is not a national motto, not a political slogan, it's a Form 42 entry — OZ58 logged out country wide. At O-dark 30, old OZ58 would cease to clickity click — no send, no receive.

The first three words learned by TDY personnel were Oscar, Yobo and OZ58. Team Spirit was a good example. It wasn't to see if the troops were ready — it was an AFCC exercise in communication realism. A rude awakening to the world beyond COMEDS. Some first and second termers have less time-in-service than OZ58 has on the Form 42.

OZ58 was around for a long time and served many masters. It started out with promise, state-of-the-art, 1952 or so. Progress was made, from tents to quonset huts to an HTACC with the KFU (Korean Forecast Unit) and all the way to state-of-the-art 1962. The Wing Commanders — Colonels Sorey, Suggs, Stiles, Harvey, Newhouse,

Cummings, Gargiulo, Tucker, Rauscher and Julian — the Detco's, the forecasters and observers all asked the same question, "Why can't they fix this circuit?" But OZ58 never heard the cry, never heeded the command. If OZ58 had an OPR, it was north of the DMZ.

But now, in mid-1983, the saga of OZ58 has come to an end. There were too many users, too many drops, the Telecommunications Service Order was so many pages long that the DCA computers couldn't handle it. The circuit magicians at DCA could get a message from the Pentagon to Timbuktu, but they couldn't get an MCF from the KFU to Uijongbu. So, they threw in the towel and on July 30, old OZ58 became XYZ1 through 7.

OZ58 didn't go out in glory. No final retreat. No missing man fly-by of Kimchi cabs. No long and sad good-byes. Just toodle-oo--and good riddance. The people present for the change wanted to send a memento, a piece of memorabilia to be preserved at AWS Headquarters. Something of fond memories, something for all to see — the last good weather observation or forecast transmitted. But alas, no one could remember, much less locate, that tattered piece of yellow parchment that contained the last ungarbled message, "reason for outage unknown, but we're checking."

News Briefs

Hayes named 'Outstanding'

Maj. John L. Hayes has again been selected as one of the "Outstanding Young Men of America."

This program recognizes the achievements and abilities of men between the ages of 21 and 36. Those selected are honored for their

outstanding civic and professional contributions to their country, state and nation.

Hayes is the Project Staff Meteorologist, Secretary of the Air Force, Washington, D.C., and was also selected in 1982.

Chapman wins golf tourney

The same day Tom Watson won the British Open for the fifth time, Greg Chapman was capturing the 80th Trans-Mississippi Golf Championship, the oldest national amateur championship in the United States, at the Kansas City Country Club, Watson's home

course.

Chapman, son of Col. George E. Chapman, AWS Commander, joins such golfing greats as Ben Hogan and Jack Nicklaus, who are among previous winners of this tournament.

USAFETAC's new commander

Col. Lawrence R. French became USAF Environmental Technical Applications Center commander July 15, succeeding Col. Milton D. Forsyth, Jr.

Colonel French came to

USAFETAC from 2WS, Andrews AFB, Md., where he was Commander and Chief Staff Meteorologist to Headquarters Air Force Systems Command.



SUNRISE — over the Solar Observatory at Learmonth, Western Australia. See pages four and five about "Watching the sun down-under." Also in this month's "Observer," see page three for a story about "8th Army support during the Korean War;" pages six and seven for "AWS Salutes" and page eight for "Space Shuttle support" at AFGWC.

Command line 'Where do I go from here?'



Col. George E. Chapman
AWS Commander

During my visits to our units around the globe, career progression is a subject of great interest, and a question that Chief Melson and I frequently hear is "Where do I go from here?"

The Chief addressed this point to enlisted people a few months back in his column, and I'll try to respond with my thoughts to officers in this column.

Everyone's career is unique because it's molded by the individual's interests and the needs of the Air Force. During pinning-on ceremonies I've conducted for officers assuming higher grades, particularly to Colonel, I've tried to illustrate, based on the resume of the individual, that there is no fixed pattern that insures success. Everyone's path of success varies somewhat. There are lots of opportunities and challenges — like being an Aerial Reconnaissance Weather Officer at Guam or Keesler and flying into tropical cyclones; going through the Army Airborne School at Fort Benning and working with Special

Forces; being a Weather Instructor at Chanute; or working in our expanding space support mission. But these are just a small sample. Take advantage of the opportunities as you develop your "path to success" and you'll have an exciting, rewarding career.

Of the 296 units we have in AWS, approximately 170 of them are at the detachment level, so chances are that's where you began your career. But whether it's a detachment, a central or center, a staff position, or any of the other options we have, make the most of your assignment. I recommend you take on a variety of additional duties (the opportunities will be there!), because the experience will be a great foundation for future command and staff assignments that you get. Get started on your professional military education during this first assignment by enrolling in SOS. If you are subsequently selected to attend in residence (and completion by correspondence may help there) you will be that much further ahead.

There are a number of paths and options that present themselves on the second assignment. Our AFIT graduate assignment opportunities are high and should remain at 50 or more slots for the next few years. If you qualify and are recommended by your wing commander, this opportunity should be taken. However, you may wish to volunteer for remote duty (such as Korea) in your second assignment, and then return to an AFIT assignment. If you have spent your first tour at AFGWC, then you should try for a follow-on assignment as a wing weather officer at the detachment level. I would like to see every officer assigned to a detachment at least once in the first five to seven years, because that's where the payoff is with the customer, and that face-to-

face experience becomes important as you advance along the career ladder.

At about the five-to-eight-year point, most will have made the decision regarding a Master's Degree in Meteorology and the resultant AFSC 2546 (Advanced Weather Officer). Assignments in the eight-to-12-year time frame for those with a 2546 will be as a Staff Meteorologist in Air Force Systems Command, or assignment to an Advanced Weather Officer position at a Headquarters Staff, at AFGWC or ETAC. Officers without the 2546 (2524/2516) may advance to operations staffs at squadrons or higher levels of command, or become team chiefs at forecast units, such as the European Forecast Unit or AFGWC. One exciting opportunity that presents itself for the first time generally at the eight-12-year point is Command, whether you are a 2546 or 2524. As officers, the challenge of leadership, command, and service is something you should strive for and experience.

Completion of Air Command and Staff College, through either seminar or correspondence, is virtually essential by the end of this phase. To remain competitive with your peers, particularly in the future, you should seriously consider entering an off-duty educational program to obtain a Master's Degree in an area that you can put to advantage during your Air Force career (computer science, management, etc.). Today, the majority of people in the PZ for Major do have a master's Degree!

The advanced development phase, from the 12 to 16 years, is a key period of development for our future senior weather commanders. By the end of this phase, an officer should have had a variety of assignments to increase the depth and breadth of his/her technical and managerial experience. In addition, most weather officers will have

had experience as a commander or key supervisor. PME is a key factor during this phase in determining assignments and promotions, and officers should complete a Senior Service School by seminar or correspondence. Those that wait to be selected for PME in residence will usually lose out to those who have shown initiative and spent the extra effort to take off-duty education early.

During the staff phase, 17 through 20 years, officers should look to be assigned as commanders of key units, larger detachments and squadrons, and fill the key staff positions at the wing and HQ AWS levels. Career broadening assignments are sought for our officers throughout their careers, but the more competitive jobs in the Pentagon begin to develop during this phase. Senior Service School should be complete by this time.

Lastly, the executive phase, 21 years plus, is characterized by assignments to command and key staff positions in AWS, with some officers occupying positions at HQ USAF and in joint activities.

The key to success throughout your career is to perform your assigned duties in the most energetic and responsible way you can. Seek out additional responsibilities, keep your focus on the future, and don't pass up opportunities to tackle those tough jobs that give you visibility. Talk to your supervisor, make sure your performance matches your ambitions, and seek career guidance from your superiors and Palace Weather. Once you set your career goals, state them on your AF Form 90 and work to make those goals a reality. The most important job you can have is the one you have now. Doing your best will get you recognized and give you the experience needed for your next job. Good luck!

Chief's comments: Time — "warm fuzzies" — and you

Awards are to recognize achievement, create incentive, promote high morale and esprit de corps, and to stimulate a desire for continued service and the will to excel.

Basically, the description of most award programs is covered in the paragraph above — very simple words with a lot of meaning and easily understood.

All of us agree with the intent of an awards program and support it. But many times we let the "element-of-time" decide the strength of the awards program.

Commanders, Det Chiefs, and Supervisors have the responsibility to make any awards program strong. Only those that deserve an award should be nominated. Data should be collected on each individual — outstanding achievements, letters of congratulations — for use in these awards. This should not add any additional workload, as we should be

doing this for the APRs and OERs.

The "element-of-time" is our worst enemy. We seem to wait until the very last minute to begin the nomination letter. Sometimes we blame it on the CBPOs for not getting us the computer products. Sometimes it is the distribution system — or the time involved through the chain-of-command.

Any of the above problems can be solved very easily — begin the nomination letter upon notification of a PCS move. The computer product can be requested anytime from the CBPOs. Most assignment alerts are received three to six months in advance of the actual move. That's plenty of time to get the nomination letter through channels.

When the "element-of-time" is at its best, the nomination letters are at their worst. In some instances, an individual is nominated for an AFAM, when in fact the nomination should be for an

AFCM. Or, the nomination letter is too weak to support any award.

Another problem area is in promising or telling folks that they will be nominated for an award. After six months at the next duty assignment and the award has not arrived, I get a phone call, "Where is it?" In two cases, the individuals had departed their last duty station two years before the awards were presented. This is harmful to the credibility of the program and to the individuals trying to make it work.

The Air Weather Service Technical Award Program begins with the Spengler Award — suspended for October 15. The remaining award nominations are due December 1. Now is the time to start planning for those nominations. When you properly plan, you get results. Let's make this year our best ever.

Our folks are doing an outstanding job — long hours, extra shifts, meeting

mobility requirements, extra duties, etc. They don't let us down, and we should remember them with the warm fuzzies, the pats-on-the-back, and the proper awards.



CMSgt. Charles T. Melson
AWS Senior Enlisted Advisor

Col. George E. Chapman
AWS Commander

SSgt. Michael T. Devine
Editor

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without permission, but credit to the Air Weather Service OBSERVER is requested. All photos are U.S. Air Force unless otherwise marked. Editorial phone numbers are: 618-256-2065 or Autovon 638-2065, mailing address is: HQ AWS/CSSP or PA, Scott AFB, Ill. 62225.

A lesson from history: Eighth Army support during the Korean War



AT THE FRONT — 20WS observers at a forward air strip in Korea in mid-1950 are (left to right): PFC Doyle E. Hayes, Cpl. James T. Williams, Cpl. Joseph J. Banky and Cpl. John K. Murphy.

by John Fuller
AWS Historian

After war broke out in Korea in June 1950, harsh extremes in Korea's temperature regimes levied heavy tolls on U.S. ground forces before the year was out. Temperatures that initial summer sometimes reached 100 F and above in humid, furnace-like weather. Then, dominated by cold outbreaks flowing from Siberia across Manchuria into North Korea, temperatures that November and December plummeted to as low as -25 F amid strong winds and blowing snow.

By that time, the U.S. troop buildup reached the point where the Eighth Army in Korea was nine divisions strong, grouped into three corps: the U.S. I and IX Corps, and the Republic of Korea (ROK) II Corps. Total combat strength of the entire command was about 200,000 men, with perhaps another 150,000 in support functions in the rear. But combat effectiveness suffered due to the weather.

Weather support

Until November 16, 1950, support of the Eighth Army was the responsibility of the 20th Weather Squadron (20WS) at Nagoya, Japan, commanded by Lt. Col. Oliver K. ("O.K.") Jones. On that date, the 30th Weather Squadron (30WS) was activated at Seoul, under Lt. Col. Kenneth A. Linder, and it assumed the job of supporting the Eighth Army, as well as the Fifth Air Force (5AF) in Korea.

Eighth Army officials shared in weather briefings available to the

5AF's Joint Operations Center and Tactical Air Control Center (JOC-TACC, moved several times, but settled in Seoul in June 1951), but were otherwise rather vague and indifferent to inquiries by Jones and Linder about the kind of support they needed.

Principally to extend his weather observing net, Jones, in August and September 1950, sent several two-man teams of enlisted observers to front line artillery units. Lacking communications support, they accomplished little, except to confirm that the concept was sound and worth continuing.

Taking cue, Linder decided to build a rudimentary weather support program for the Eighth Army. In November 1950, he organized a number of volunteer, two-man teams and assigned them to each corps headquarters. Though only about a dozen men were involved at any one time, it was the best Linder could do with the limited resources available to him. He was well aware that the Eighth was not receiving weather support comparable to that tendered the 5AF.

While Eighth Army voiced no complaints, the Department of the Army resolved not to let the soldiers get caught short again of winter clothing and equipment. It organized a "winter environment team" in October 1951 to study the problems of winter combat in Korea, and to investigate the quality of weather service being rendered. Consisting of two officers and three civilians, the team was led by the Army's noted cold weather expert, Dr. Paul A. Siple.

Who needed support

Siple's team was in Korea from December 1951 through February 1952. In a report of its findings, it noted widespread disagreement among the echelons of the Eighth Army as to the need for weather support. Each successive echelon believed it had *prima facie* need for weather support, but that the echelon immediately below it did not. In fact, each needed it, down to the lowest echelon commanders. But the closer an Army unit was to the front, and the further away from an air strip or Seoul, the worse the support. Moreover, the general area forecasts distributed by the 30WS weather center at the JOC-TACC in Seoul lacked the detail to make them particularly useful to tactical ground commanders below corps level. If AWS forecasts were to be of maximum value there, more weather data would have to be gathered by Army observer teams in the front line area.

The Siple report was referring to an initiative by an aggressive Army captain, Norman Sissenwine (a former research climatologist in the Office of the Quartermaster General), who had convinced the Eighth Army to establish small Army weather observing stations at regimental level. Usually located near the regimental command post, the weather stations became popular with division and regimental commanders. Impressed with the way Sissenwine's almost singlehanded effort took hold at the front, Siple's team thought it should be continued — under Army Signal Corps auspices. The 30WS welcomed the recommendation, in light of the fact that it was the first time since the fighting began that anyone connected with the Army had come forth with ideas on improving support.

When he assumed command of the 30WS in February 1952, Lt. Col. Carl E. Wagner was aware that the Siple report would spotlight shortfalls in weather support. In early April, after conducting a survey of the Eighth's requirements, he asked for more forecasters to expand his service. Because of a forecaster shortage, AWS was unable to send immediate help. But Wagner went ahead and assigned a forecaster as his liaison officer to Hqs. Eighth Army. Maj. Sidney A. Bird worked extensively with 1st Lt. B. J. Gudenkauf, the Signal Corps met officer assigned to Hqs Eighth Army, ironing out arrangements for implementing Wagner's recommendations and those of the Siple report.

90-day test

The arrangements were acceptable to both the Army and Air Force on a 90-

day test basis. At Fort Monmouth, N.J., Signal Corps personnel needed as forward weather observers were entered into a special, six-week training course. In late November 1952, six Signal Corps lieutenants and 44 enlisted men, who had progressed out of basic training into Monmouth's accelerated observing course, arrived in Korea. After a short orientation, most of the men were divided into two-man teams and sent forward to start a surface observing net. Five-man teams (an officer and four enlisted) were established at each corps headquarters, and at the Seoul weather center, to collect and disseminate observations and supervise the two-man Army observing teams.

In December 1952, Wagner dispatched 30WS forecaster teams (each consisting of an officer forecaster, an enlisted weather technician, and two senior enlisted observers) to each corps headquarters. He also put two more forecasters in his weather center at Seoul to handle the additional work placed on the center by the Army's expanded experimental weather support program.

From the beginning, the forecast teams at the corps headquarters were well received, but were hampered by insufferable communications. The Eighth Army had agreed to provide radio facsimile gear to connect the teams with the center at Seoul, but the equipment proved difficult to secure, and was erratic in performance when finally put into commission. As a result, the corps teams routinely depended on the Army's administrative teletype and telephone channels, neither of which allowed the dissemination of more than nominal amounts of weather data.

Second only to communications as a major hangup was the question of whether the experimental setup would be permanently continued. Bird and Gudenkauf were of the opinion that the Signal Corps could not provide adequate weather service to the Eighth Army. On March 23, 1953, when the 30WS asked whether it should be prepared to man the frontline observing posts after the Signal Corps observers on 90-day temporary duty went home, the Eighth replied that such, indeed, was its wish — as well as keeping forecast teams at the corps level. In late April, therefore, 30WS personnel moved into front line observing sites. After May 1, 1953, the Eighth Army weather program became the sole responsibility of the 30WS and, except for continuing communications problems, the program gave increasingly better service to Eighth Army units until the armistice was signed that July.

AF Outstanding Unit Award to 1st Special Operations Wing

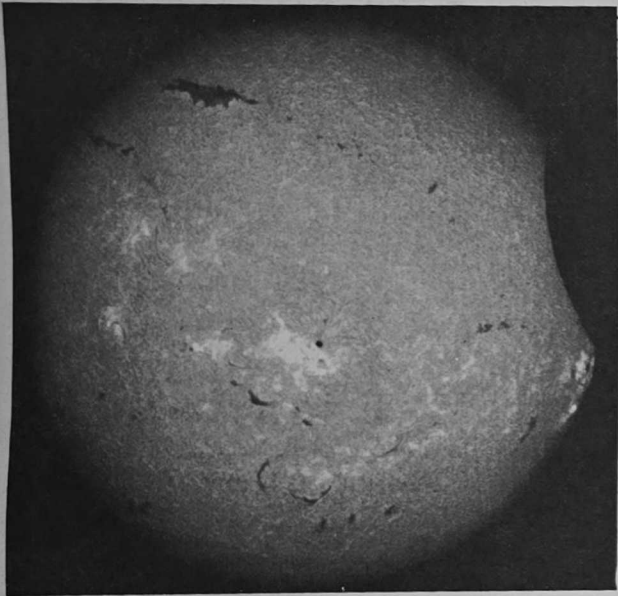
by 1st Lt. Daniel J. Brees

The Air Force Outstanding Unit Award has been presented to the 1st Special Operations Wing.

Personnel assigned to Det. 75, 3 WS,

Hurlburt Field, Fla. between May 16, 1980 and April 30, 1982 are now authorized to wear this award.

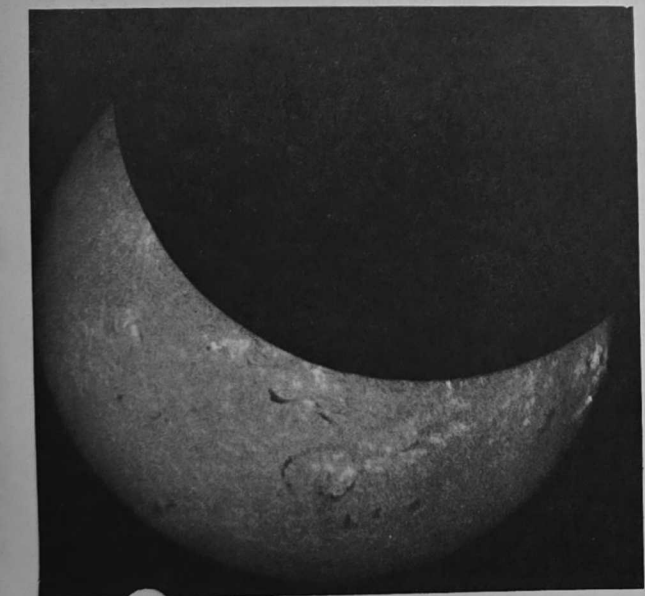
For documentation or more information, contact Det. 75, 3WS, 7WW, Hurlburt Field, Fla. 32544.



ABOVE — At 11:09 a.m., only eight minutes after the start of the eclipse, the moon has already taken a small bite out of the solar disc. The small black dot near the center is a sunspot, the white patches nearby are plage and the black ribbon-like structures scattered across the surface are huge clouds of cooler gas suspended in the sun's atmosphere.

RIGHT — At 12:30 p.m. the moment of greatest occultation, an enlargement of a section of the eclipsed sun shows that the moon's surface is not really smooth. Lack of atmosphere allows lunar mountain ranges to be seen as small bumps along the moon's edge or limb.

BELOW — At 12:20 p.m. the eclipse is nearly at its fullest with the moon blocking nearly 63 percent of the sun.



Watching the sun down-under

Photos and story by
Capt. Robert A. Frederick, and
Dr. John A. Kennewell, IPS

The Learmonth Solar Observatory is down-under in the out-back. That is, it's located on the arid Northwest Cape of Western Australia.

This location was chosen for the newest observatory in the Air Force's worldwide solar patrol network because of its ideal observing conditions. On the Cape, clouds are scarce and radio interference is rare, making the Observatory an ideal place to monitor the sun's optical and radio activity.

The mission of the observatory is to monitor the sun and report activity to various space environmental forecast and warning centers around the world. Customers include Air Force Global Weather Central, Offutt AFB, Neb., the National Oceanic and Atmospheric Administration Space Environmental Services Center, Boulder, Colo., and the Ionospheric Prediction Service, Sydney, Australia.

Sunspots and flares

Optically, the sun is watched using a 25 centimeter refractor with a narrow bandpass filter. The filter allows

observations of the sun's lower atmosphere, where intense magnetic fields create a number of interesting phenomena.

There are dark sunspots, areas around 4,500 degrees hot, but dark in contrast to the rest of the sun. Bright areas, called plage, where magnetic fields concentrate the atmospheric gases of the sun into dense, hot areas. Long black, ribbon-like structures that are huge clouds of dense, cooler gas suspended in the sun's atmosphere.

The lower atmosphere is also where magnetic fields store vast amounts of energy which can be released suddenly as a solar flare.

Flares are the reason for solar patrol observatories. Flares can cause the sun's normal output of X-rays and radio emissions to increase by a factor of a hundred, a thousand, or more for tens of minutes.

Some flares also throw streams of high energy-charged particles into space. The earth's magnetic field can guide these particles toward the poles, where they cause light displays called the aurora.

The solar radio

The radio sun is watched using three parabolic dish radio telescopes at Learmonth.

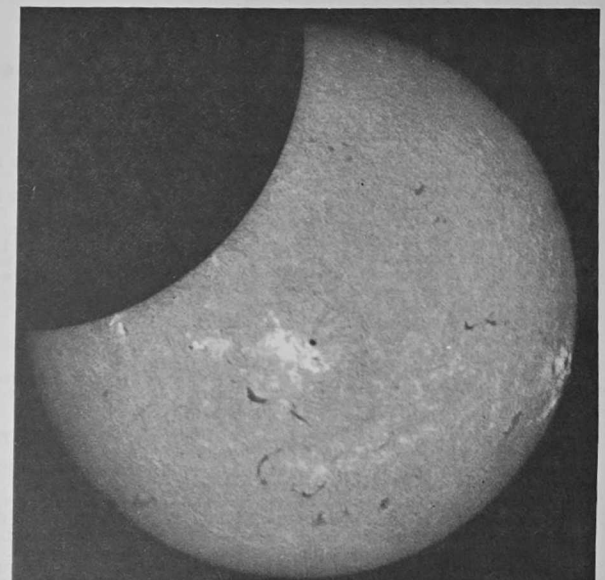
Several discrete frequencies are monitored, giving full coverage across the solar radio band. Each layer in the

sun's atmosphere emits its own characteristic radio frequency. For example, the sun's lower atmosphere is sampled on 15,400 megahertz, mid-level at 2,695 megahertz and the outer layer is heard at 245 megahertz.

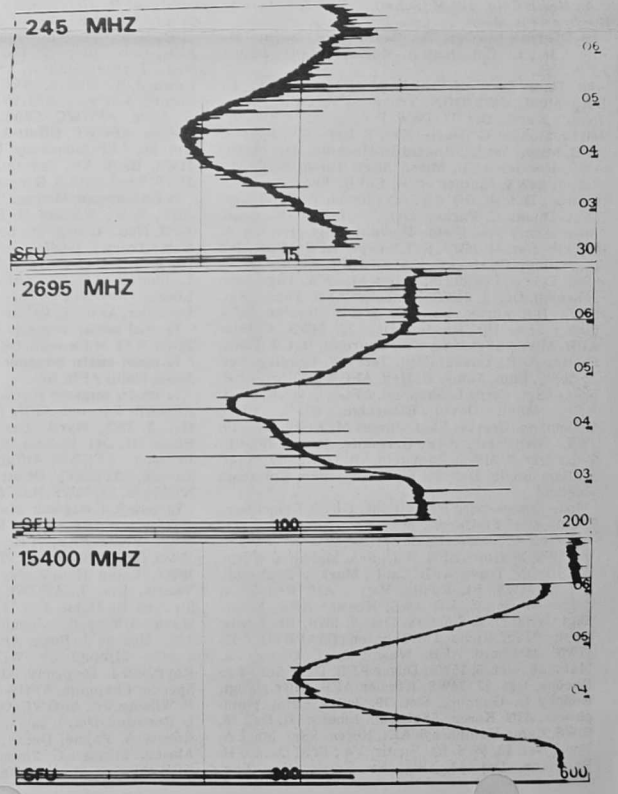
During the June 11, 1983 solar eclipse, the radio eclipse began at 10:40 a.m. when the moon first began to cover part of the sun's outermost atmosphere. At that time, the 245 megahertz output began to drop. About 10:50 a.m., the sun's output at 2,695 megahertz began to drop and finally, about 11:01 a.m. — when the optical eclipse began — the 15,400 megahertz output began to fall.

Observing optical and radio events on the sun gives early warning of possible troublesome side effects in earth's upper atmosphere and in the near earth environment. Radar and communication systems, geophysical explorations, satellites and manned space flights can be adversely affected by solar activity.

The Learmonth Observatory became fully operational in June 1980. It is jointly managed by Det. 9, 1st Weather Wing, USAF Air Weather Service and the Australian Department of Science and Technology Ionospheric Prediction Service. A small AFCC unit keeps the optical and radio telescopes in near continuous operation during daylight hours.



ABOVE — At 1:25 p.m. the moon is retreating and in only 34 minutes the eclipse will be over. BELOW — Time plots of three discrete radio frequencies monitored at the observatory show the effect of the eclipse. The solar output received at 245 megahertz began dropping off about 10:40 a.m., followed by 2,695 megahertz about 10:50 a.m. and 15,400 megahertz about 11:01 a.m. Traces gradually returned to normal as the moon began to move off the sun.



AWS salutes...

Medals

Legion of Merit: Col. Kenneth E. German, HQ AFGWC, Offutt AFB, Neb.

Meritorious Service Medal: Lt. Col. Willie J. Dean, Sr., HQ AWS/SYX, Scott AFB, Ill.; Maj. Edward F. Sander, Sr., HQ AWS/WO, Scott AFB, Ill.; Maj. James A. Wilson, HQ AWS/WOJ, Scott AFB, Ill.; Capt. Christopher P. Mendola, HQ AWS/CSA, Scott AFB, Ill.; MSgt. Michael J. Ford, HQ AWS/DOK, Scott AFB, Ill.; MSgt. Eugene G. Peterson, HQ AWS/LGXE, Scott AFB, Ill.; SSgt. Lawrence B. Harper, Det. 3, 11WS, Shemya AFB, Alaska; Maj. Kenneth A. Beeman, Det. 14, 26WS, Blytheville AFB, Ark.; 2nd Lt. Cynthia G. Mendonca, Det. 8, 26WS, Griffiss AFB, N.Y.; MSgt. Franklin P. Hauck, Det. 28, 26WS, Wurtsmith AFB, Mich.; CMSgt. Billy G. Knippers, HQ 1WW, Hickam AFB, Hawaii; Capt. James K. Woessner, Det. 2, 24WS, Columbus AFB, Miss.; Maj. James A. Johnston, 22AF/WSU, Travis AFB, Calif.; Lt. Col. Jerry E. Albrecht, 17WS/CC, Travis AFB, Calif.; Maj. James Weyman, Det. 9, 24WS, Maxwell AFB, Ala.; Capt. Robert O'Donnell, Det. 20, 24WS, Laughlin AFB, Texas; Lt. Col. David K. Douglas, AFGWC, Offutt AFB, Neb.; Lt. Col. Paul H. Neu, AFGWC, Offutt AFB, Neb.; Maj. Carl F. Lemon, AFGWC, Offutt AFB, Neb.; Lt. Col. Russell A. Hankins, AFGWC, Offutt AFB, Neb.; Maj. William M. Cox, AFGWC, Offutt AFB, Neb.; Maj. Herman E. Fresh, AFGWC, Offutt AFB, Neb.; CMSgt. Paul W. Crimmins, AFGWC, Offutt AFB, Neb.; Maj. Ronald J. Bound, AFGWC, Offutt AFB, Neb.; MSgt. Randy L. Peterson, AFGWC, Offutt AFB, Neb.; Maj. James Weyman, Det. 9, 24WS, Maxwell AFB, Ala.; Capt. Robert O'Donnell, Det. 20, 24WS, Randolph AFB, Texas.

Air Medal: Capt. Jill M. Schmidt, Det. 5, HQ AWS, Keesler AFB, Miss.

Joint Service Commendation Medal: Capt. Gerald F. Riley, Jr., Lt. Col. Dean A. Morss, AFGWC, Offutt AFB, Neb.

Air Force Commendation Medal: Capt. Steven K. Bergenfeld, 17WS/DON, Travis AFB, Calif.; Capt. John C. Karsk, Det. 11, 1WW, Hickam AFB, Hawaii; 1st Lt. Ronald G. Meris, Det. 5, HQ AWS, Keesler AFB, Miss.; 1st Lt. Ronald E. Havholm, Det. 5, HQ AWS, Keesler AFB, Miss.; SSgt. Tanya Edwards, Det. 7, 24WS, Mather AFB, Calif.; SrA. Steven J. DeBree, Det. 4, HQ AWS, Anderson AFB, Guam; TSgt. Duane C. Parker, Det. 7, OL-A, 1WW, Bradshaw Army Air Field, Hawaii; SSgt. Dennis A. Rucker, Det. 24, 26WS, K. I. Sawyer AFB, Mich.; 2nd Lt. William D. Hall, Det. 9, 5WS, Ft. Rucker, Ala.; SSgt. Lyle P. Leatherman, Det. 81, 1WW, TSgt. John Schendel, Det. 1, 24WS, Randolph AFB, Texas; Sgt. Mark Hoffmeyer, Det. 22, 24WS, Keesler AFB, Miss.; SrA. Jim Rhodes, Det. 22, 24WS, Keesler AFB, Miss.; SSgt. James L. Laurenti, Det. 2, 11WS, Eielson AFB, Alaska; TSgt. Terry W. Langley, Det. 19, 30WS, Capt. James N. Heil, AFGWC, Offutt AFB, Neb.; SSgt. Perry L. Shappell, AFGWC, Offutt AFB, Neb.; MSgt. David Etheridge, OL-C, 31WS, Hellenikon, Greece; SSgt. James M. Kelly, Det. 10, 7WS, Giebelstadt AAF, Germany; 1st Lt. John C. Pace, Det. 2, 31WS, Ramstein AB, Germany; SSgt. William Boyle, Det. 26, RAF Greenham Common, England.

Army Commendation Medal: Capt. Glenn Reigelman, Det. 12, 5WS, Ft. Devens, Mass.

Air Force Achievement Medal: Sgt. Leroy G. Krind, Det. 10, 15WS, McGuire AFB, N.J.; SrA. Melvin A. Watts, 17WS/DON, Travis AFB, Calif.; Mark A. Dominick, Det. 13, 5WS, Ft. Eustis, Va.; A1C Ronald A. Zahoryin, Det. 5, HQ AWS, Keesler AFB, Miss.; SSgt. William J. Sanders, Det. 6, 5WS, Ft. Lewis, Wash.; MSgt. Richard M. Johnson (USAFR) Det. 11, 17WS, McChord AFB, Wash.; SSgt. George E. Marshall, Det. 5, 15WS, Dover AFB, Del.; SrA. Jim Rhodes, Det. 22, 24WS, Keesler AFB, Miss.; SSgt. Rodney E. Gunning, Det. 19, 30WS, Camp Humphreys, AIN, Korea; SSgt. Sam Liberto III, Det. 19, 30WS, Camp Humphreys AIN, Korea; SSgt. Marc A. Pope, Det. 13, 5WS, Ft. Eustis, Va.; SrA. Danise H. Patterson, Det. 13, 5WS, Ft. Eustis, Va.; SrA.

Samuel G. Dolinger, Det. 13, 5WS, Ft. Eustis, Va.; A1C Jillayne S. Rudy, Det. 2, 31WS, Ramstein AB, Germany.

Army Achievement Medal: 1st Lt. William D. Hall, Det. 9, 5WS, Ft. Rucker, Ala.

Combat Readiness Medal: SrA. Chet Maynard, Det. 8, 5WS, Ft. Riley, Kan.; SSgt. Salvador Bernal, Jr., Det. 6, 5WS, Ft. Lewis, Wash.; SSgt. Lawrence L. Shipp, Det. 6, 5WS, Ft. Lewis, Wash.; Sgt. Ralph T. Barrett, Det. 19, OL-H, 30WS, Camp Walker, Korea.

Air Force Good Conduct Medal: TSgt. John R. Griffith, Det. 3, 3WS, Myrtle Beach AFB, S.C.; MSgt. Michael J. Wellman, Det. 24, 26WS, K. I. Sawyer AFB, Mich.; SrA. Tara R. Carty, Det. 5, 15WS, Dover AFB, Del.; Sgt. David D. Schuetrom, Det. 20, 26WS, Barksdale AFB, La.

Sustained Superior Performance Award: Ms. Hazel L. Webster, Secretary, 17WS, Travis AFB, Calif.

Promotions

To lieutenant colonel: William O. Kiser II, HQ 5WS, Ft. McPherson, Ga.

To major: Randolph Arbeiter, AFGWC, Offutt AFB, Neb.; Victor H. Hill, AFGWC, Offutt AFB, Neb.

To captain: Debra J. Carroll, Det. 15, 30WS, Osan ABS, Korea; Byron W. Collison, Det. 4, HQ AWS, Anderson AFB, Guam; Charles T. Doolittle, Det. 8, 26WS, Griffiss AFB, N.Y.; Bill I. Greg, Det. 4, HQ AWS, Anderson AFB, Guam; Charles F. Terry, Det. 8, 1WW, Kadena ABS, Japan; John M. Bender, AFGWC, Offutt AFB, Neb.; Patrick A. Lunney, AFGWC, Offutt AFB, Neb.; Michele Roissier, AFGWC, Offutt AFB, Neb.; Bonita L. McNamara, AFGWC, Offutt AFB, Neb.; Steven Wilderott, AFGWC, Offutt AFB, Neb.; Paul T. Scott, AFGWC, Offutt AFB, Neb.; Mark J. Welsinger, AFGWC, Offutt AFB, Neb.; Darrel E. Gebert, AFGWC, Offutt AFB, Neb.; Timothy Halderman, AFGWC, Offutt AFB, Neb.; Mary J. Carr, AFGWC, Offutt AFB, Neb.; Thomas Guthrie, AFGWC, Offutt AFB, Neb.; Edward K. Hogan, AFGWC, Offutt AFB, Neb.; Pamela J. Dwyer, AFGWC, Offutt AFB, Neb.; Gary G. Bard, AFGWC, Offutt AFB, Neb.; Gerald R. Borger, AFGWC, Offutt AFB, Neb.; David Guiney, Det. 36, RAF Alconbury, UK; Bill Munley, Det. 14, 31WS, Hahn AB, Germany; Don Wilson, Det. 20, 31WS, Sembach AB, Germany.

To 1st lieutenant: Michael E. Adams, AFGWC, Offutt AFB, Neb.; William H. Bauman, AFGWC, Offutt AFB, Neb.; George Bochain, AFGWC, Offutt AFB, Neb.; Tracy L. Godfrey, AFGWC, Offutt AFB, Neb.; Douglas D. Owen, AFGWC, Offutt AFB, Neb.; John L. Shattel, AFGWC, Offutt AFB, Neb.; David S. Liesse, AFGWC, Offutt AFB, Neb.; Ralph C. Fulwider, AFGWC, Offutt AFB, Neb.

To chief master sergeant: Joseph R. Lara, Det. 15, 28WS, RAF Mildenhall, UK.

To senior master sergeant: Billy W. Brown, Det. 16, 25WS, Nellis AFB, Nev.

To master sergeant: Franklin O. H. Benton, Det. 7, AFGWC, Carswell AFB, Texas; John P. Chapman, Det. 3, 3WS, Myrtle Beach AFB, S.C.; James N. Horne III, Det. 10, 2WS, Eglin AFB, Fla.; Randy J. Pearson, AFGWC, Offutt AFB, Neb.; John E. Justice, AFGWC, Offutt AFB, Neb.; Gary E. Wiclund, HQ 28WS, RAF Mildenhall, UK.

To technical sergeant: Mary N. Buckley, Det. 15, 30WS, Osan ABS, Korea; Robert Cari, Det. 6, OL-B, 26WS, Pease AFB, N.H.; John L. Davis, Det. 15, 30WS, Osan ABS, Korea; Terry W. Langley, Det. 19, 30WS, Camp Humphreys AIN, Korea; Bruce W. Swartz, Det. 7, AFGWC, Carswell AFB, Texas; Stephen R. Hahn, Det. 11, 17WS, McChord AFB, Wash.; Jimmy T. Calhoun, Det. 9, 5WS, Ft. Rucker, Ala.; George J. Begg, AFGWC, Offutt AFB, Neb.; James Milton, AFGWC, Offutt AFB, Neb.; Raymond J. Tenpenny, AFGWC, Offutt AFB, Neb.; Spencer Chapman, AFGWC, Offutt AFB, Neb.; Earl P. Wilsing, Jr., AFGWC, Offutt AFB, Neb.; Mary Jo L. Bertrand, Det. 1, 26WS, Elmendorf AFB, Alaska; Robert A. Payne, Det. 1, 11WS, Elmendorf AFB, Alaska; Michael G. Joseas, Det. 2, 11WS, Eielson AFB, Alaska; Mary F. Hebert, Det. 15, 28WS, RAF

Mildenhall, UK; Tom Sleeker, Det. 1, 31WS, Bitburg AB, Germany.

To staff sergeant: Michael Boettcher, Det. 4, HQ AWS, Anderson AFB, Guam; Raymond E. Miller, Jr., Det. 19, 26WS, Whiteman AFB, Mo.; Marc A. Pope, Det. 13, 5WS, Ft. Eustis, Va.; Peter J. Rahe, Det. 1, 5WS, Ft. Campbell, Ky.; Michael J. Kogut, Det. 11, 17WS, McChord AFB, Wash.; Scott T. Klaiber, Det. 5, 15WS, Dover AFB, Del.; Frank Rivera, AFGWC, Offutt AFB, Neb.; Arnold B. Michaels, AFGWC, Offutt AFB, Neb.; Dawnlee Roberson, AFGWC, Offutt AFB, Neb.; Daniel R. Kurek, AFGWC, Offutt AFB, Neb.; John M. Fritz, AFGWC, Offutt AFB, Neb.; Anita L. Pruitt, AFGWC, Offutt AFB, Neb.; Richard L. Gill, Det. 18, 28WS, RAF Fairford, UK.

To sergeant: Barbara Baldwin, Det. 3, 11WS, Shemya AFB, Alaska; Chester Cooper, Det. 20, 24WS, Laughlin AFB, Texas; Steven J. DeBree, Det. 4, HQ AWS, Anderson AFB, Guam; Michael D. Morrison, Det. 26, 26WS, Grissom AFB, Ind.; Richard D. Sutton, Det. 9, 5WS, Ft. Rucker, Ala.; Edward C. Crawford, AFGWC, Offutt AFB, Neb.; Richard L. Sharpe, AFGWC, Offutt AFB, Neb.; Charles E. Carter, AFGWC, Offutt AFB, Neb.; Henry C. Floyd, AFGWC, Offutt AFB, Neb.; Alfredo L. Ituarte, AFGWC, Offutt AFB, Neb.; Jeffrey M. Curl, AFGWC, Offutt AFB, Neb.; Michael S. Maricle, AFGWC, Offutt AFB, Neb.; Jeffrey A. Rosbach, Det. 6, 26WS, Pease AFB, N.H.; Charles Shaw, Det. 1, 24WS, Randolph AFB, Texas; Robert C. David, OL-A, Det. 10, 7WS, Wertheim AAF, Germany; Keith D. Anderson, Det. 10, 7WS, Giebelstadt AAF, Germany; Marc D. Adams, Det. 3, 28WS, RAF Lakenheath, UK; Robert A. Russ, Det. 15, 28WS, RAF Mildenhall, UK.

To senior airman: Christine Chapple, Det. 8, 1WW, Kadena ABS, Japan; Timothy E. Deely, Det. 19, 30WS, Camp Humphreys AIN, Korea; Samuel G. Dolinger, Det. 13, 5WS, Ft. Eustis, Va.; Mark A. Dominick, Det. 13, 5WS, Ft. Eustis, Va.; Dennis L. Fenstermaker, Det. 7, 5WS, Ft. Ord, Calif.; Kevin Forster, Det. 7, AFGWC, Carswell AFB, Texas; Garry R. Hagins, Det. 19, OL-H, 30WS, Camp Walker AIN, Korea; Denise Haywood, Det. 13, 5WS, Ft. Eustis, Va.; Alison B. Hocutt, Det. 3, 3WS, Myrtle Beach AFB, S.C.; Faisal Hosein, Det. 18, 30WS, Yongsan, Korea; Dana A. Miller, Det. 13, 5WS, Ft. Eustis, Va.; David Resendez, Det. 9, 1WW, Wheeler AFB, Hawaii (BTZ); Jeffrey L. Ferguson, Det. 10, 15WS, McGuire AFB, N.J.; Anthony DiBenedetto, Det. 9, 5WS, Ft. Rucker, Ala.; Anne M. Kenny, Det. 8, 1WW, Kadena ABS, Japan; Tara R. Carty, Det. 5, 15WS, Dover AFB, Del.; Mark M. Fulmer, AFGWC, Offutt AFB, Neb.; Richard J. Goreczny, AFGWC, Offutt AFB, Neb.; Kurt E. McGrath, AFGWC, Offutt AFB, Neb.; Elvis L. Hamblin, AFGWC, Offutt AFB, Neb.; Mark Patton, Det. 31, 15WS, Dobbins AFB, Ga.; James E. French, Det. 28, 26WS, Wurtsmith AFB, Mich.; William M. Schmeiser, OL-A, Det. 4, 11WS, Ft. Wainwright AIN, Alaska; Michelle M. Graf, OL-A, Det. 4, 11WS, Ft. Wainwright AIN, Alaska; Samuel W. Higgins, OL-B, Det. 10, 7WS, Kitzingen AAF, Germany; Rebecca Fisher, Det. 14, 31WS, Hahn AB, Germany; LaTanya Jackson, Det. 2, 31WS, Ramstein AB, Germany.

To airman first class: Scott K. Hughes, Det. 5, 5WS, Ft. Knox, Ky.; Charles L. Ryan, Det. 6, 17WS, Hill AFB, Utah; Priscilla F. Parham, Det. 8, 1WW, Kadena AB, Japan; Scott M. Goldstein, AFGWC, Offutt AFB, Neb.; Marc J. Sylvestre, AFGWC, Offutt AFB, Neb.; Ronald W. Jones, AFGWC, Offutt AFB, Neb.; Kevin W. Fuller, AFGWC, Offutt AFB, Neb.; Robert A. Moore, AFGWC, Offutt AFB, Neb. (BTZ); Billie J. Knaack, AFGWC, Offutt AFB, Neb.; David S. Banks, AFGWC, Offutt AFB, Neb.; Alan K. Eagle, AFGWC, Offutt AFB, Neb.; Kimberley A. Stoner, AFGWC, Offutt AFB, Neb.; Barbara S. Vanmeter, AFGWC, Offutt AFB, Neb.; Brenda K. Rasmussen, AFGWC, Offutt AFB, Neb.; Daniel B. Ertz, AFGWC, Offutt AFB, Neb.; Robert J. Welsh, Jr., Det. 20, 26WS, Barksdale AFB, La.; Linda Kiff, Det. 9, 24WS, Maxwell AFB, Ala.; Sheri Sheppard, Det. 1, 31WS, Bitburg AB, Germany; Mark A. Redford, Det. 20, 24WS, Randolph AFB, Texas.

AWS salutes...

To airman: Eric H. Apple, Det. 10, 5WS, Ft. Benning, Ga.; Renee Y. Baron, Det. 7, AFGWC, Carswell AFB, Texas; Brian K. Boddy, Det. 7, AFGWC, Carswell AFB, Texas; James P. Brown, Det. 8, 5WS, Ft. Riley, Kan.; Charles Conroy, Det. 11, 25WS, Cannon AFB, N.M.; Phillip Q. Gonsalves, Det. 11, 25WS, Cannon AFB, N.M.; James Kelley, Det. 9, 24WS, Maxwell AFB, Ala.; Brian K. Kraner, Det. 13, 5WS, Ft. Eustis, Va.; Todd H. Mogged, Det. 14, 5WS, Ft. Hood, Texas; Theresa M. Ratz, Det. 15, 24WS, Vance AFB, Okla.; David M. Teffit, Det. 6, 17WS, Hill AFB, Utah; Randall S. Webb, Det. 9, 5WS, Ft. Rucker, Ala.; Gregory A. Hentitze, Det. 9, 5WS, Ft. Rucker, Ala.; Mark A. Everson, AFGWC, Offutt AFB, Neb.; Kevin W. Cooper, AFGWC, Offutt AFB, Neb.; Wendy J. Brown, AFGWC, Offutt AFB, Neb.; Bryan Smith, AFGWC, Offutt AFB, Neb.; Edward O. Bartlett, AFGWC, Offutt AFB, Neb.; Fred Scott, Jr., Det. 19, 26WS, Whiteman AFB, Mo.; Robert J. Henderson, Jr., Det. 20, 24WS, Randolph AFB, Texas.

Unit Honors

Airman of the year: SrA Steven J. Debree, 3WW, Offutt AFB, Neb.

Junior Officer of the quarter: 1st Lt Richard L. Petrilla, Det. 15, 15WS, Wright-Patterson AFB, Ohio.

Senior NCO of the quarter: MSgt Robert H. Hinson, Det. 3, 28WS, 2WW, RAF Lakenheath, UK; MSgt David A. Birchfield, Det. 4, 28WS, 2WW, RAF Bentwaters, UK; CMSgt Joseph R. Lara, Det. 15, 28WS, 2WW, RAF Mildenhall, UK.

NCO of the quarter: SSgt Benito R. Chavarria, Det. 11, 25WS, Cannon AFB, N.M.; Sgt Richard T. Kocinski, Det. 3, 15WS, Charleston AFB, S.C.; Sgt Melody L. Norton, Det. 7, AFGWC, Carswell AFB, Texas; SSgt Frank J. Simon, Det. 10, 2WS, Eglin AFB, Fla.; Sgt Jerry W. Smith, Det. 15, 24WS, Vance AFB, Okla.; Sgt Taffy M. Lawton, Det. 11, 1WW, Hickam AFB, Hawaii; SSgt James B. Bennett, Det. 9, 5WS, Ft. Rucker, Ala.; TSgt Joseph G. Kisela, Jr., Det. 8, 1WW; Kadena AB, Japan; TSgt William Anderson, Jr., Det. 15, 15WS, Wright-Patterson AFB, Ohio; SSgt Wendy Gongalas, Det. 25, 31WS and 2WW, Rhine Main AB, Germany; Sgt Alice L. Daudelin, Det. 4, 28WS, RAF Bentwaters, UK; TSgt Gary A. Ouderkirk, Det. 15, 28WS, RAF Mildenhall, UK; SSgt Benjamin J. Depecol, Det. 36, 28WS, RAF Alconbury, UK.

Forecaster of the quarter: SSgt Scott R. Kingsley, Det. 3, 3WS, Myrtle Beach AFB, S.C.

Observer of the quarter: SrA Allison B. Hocutt, Det. 3, 3WS, Myrtle Beach AFB, S.C.

MAC regional airman of the quarter: SrA Scott R. Nelson, Det. 11, 1WW, Hickam AFB, Hawaii.

Airman of the quarter: A1C Marsha K. Patterson, Det. 6, 5WS, Ft. Lewis AIN, Wash.; A1C Cristy Peterson, Det. 7, AFGWC, Carswell AFB, Texas; SrA Gary W. Kimsey, Det. 10, 2WS, Eglin AFB, Fla.; A1C Vance A. Kuhn, Det. 15, 24WS, Vance AFB, Okla.; SrA Scott R. Nelson, Det. 11, 1WW, Hickam AFB, Hawaii; SrA Alan B. Bryant, Det. 9, 5WS, Ft. Rucker, Ala.; SrA Alan Dorman, Det. 2, 24WS, Columbus AFB, Miss.; A1C Thomas L. Applebach, Det. 4, 28WS, RAF Bentwaters, UK; Amn Tammy R. Enyeart, Det. 15, 28WS, RAF Mildenhall, UK; A1C Gregg R. Baron, Det. 10, 15WS, McGuire AFB, N.J.; SrA John L. Distler, Det. 36, 28WS and 2WW, RAF Mildenhall, UK.

Editor of the quarter: A1C Lisa L. Houser, Det. 40, 2WW, RAF Croughton, England..

Special kudos to: SSgt William Boyle and TSgt. Leslie O. Taylor, Det. 26, 28WS, received a Letter of Appreciation from the Director of Low-level Laser-guided Bomb Test and Evaluation.

TSgt Gary A. Ouderkirk and SSgt Michael Scott, Det. 15, 28WS, who contributed to the combined Weather/Navy Dart Team's first place finish in the Mildenhall Intramural League.

Education

Air Command and Staff College: Capt Mike W. Kowa,

Det. 1, HQ AWS, Pentagon; Capt Marsha S. Korose, Det. 4, HQ AWS, Guam; Capt Alfred M. Powell, Det. 3, HQ AWS, Sunnyvale AFS, Calif. (Correspondence).

Squadron Officer School: 2nd Lt John A. Coover, Jr., Det. 10, 15WS, McGuire AFB, N.J.

U.S.M.C. Command and Staff Correspondence Course: Capt. Randolph A. Fix, OL-D, HQ AWS, McClellan AFB, Calif.

NCO Academy

TSgt Charles J. F. Potter, Det. 8, 5WS Ft. Riley, Kan. (Distinguished graduate); TSgt David Boom, Det. 20, 31WS, Sembach AB, Germany, MAC NCO Academy honor graduate.

TSgt William M. (Mike) Spaulding, Det. 31, 5WS, Ft. Polk, La.

TSgt Stephen Rosemeier, Det. 8, 26WS, Griffiss AFB, N.Y.; TSgt Mike Sepinski, Weather Tng Branch, Chanute AFB, Ill.; TSgt Vince Aquino, Weather Tng Branch, Chanute AFB, Ill.

NCO Leadership School: SSgt Kathy Milford, Det. 9, 5WS, Ft. Rucker, Ala.; SSgt Paul R. Beaty, Det. 3, 15WS, Charleston AFB, S.C.; TSgt Joseph G. Kisela, Jr., Det. 8, 1WW, Kadena AB, Japan (honor graduate); SSgt Frank J. Simon, Det. 10, 2WS, Eglin AFB, Fla. (honor graduate, Esprit de Corps Award and class president); SSgt Ken Starks, Weather Tng Branch, Chanute AFB, Ill.; SSgt Lauretta Brooks, Weather Tng Branch, Chanute AFB, Ill.; SSgt David A. Bennett, Det. 15, 15WS, Wright-Patterson AFB, Ohio (Commandants Award); SSgt Richard C. Ramm, AFGWC, Offutt AFB, Neb.; SSgt Greg A. Lieke, AFGWC, Offutt AFB, Neb. (Commandants Award); SSgt Charlee L. Davis, AFGWC, Offutt AFB, Neb. (Graduated with Merit); Sgt Kristine Schadel, AFGWC, Offutt AFB, Neb.; SSgt James E. Pinyerd, Det. 17, 28WS RAF Upper Heyford, UK.

PME II: Sgt Sara Bruneau, Det. 11, 17WS, McChord AFB, Wash.; SrA Vanessa U. Harris, Det. 11, 17WS, McChord AFB, Wash.; Sgt Trena L. Tice, Det. 8, 1WW, Kadena AB, Jpana; SrA Mark Patton, Det. 31, 15WS, Dobbins AFB, Ga.; Sgt Craig E. Ballew, Det. 4, 28WS, RAF Bentwaters, UK.

PME I: SrA Sam Dolinger, Det. 13, 5WS, Ft. Eustis, Va.; SrA Eric Diaz, Det. 9, 5WS, Ft. Rucker, Ala.; SrA David Resendez, Det. 7, 1WW, Wheeler AFB, Hawaii.

METSAT Applications, at RAF Mildenhall: CMSgt Harvey Hurtt, HQ 28WS; TSgt George Ramos, Det. 4; SSgt Ian W. Thompson, Det. 15; SSgt Wanda J. Cavanaugh, Det. 17; 1st Lt Glen Blood, Det. 18; SSgt James R. Gowan, Det. 36.

European Theater Weather Orientation Course: Capt James S. Perkins, HQ 28WS; MSgt David P. Pruitt, Det. 17; SSgt William J. Boyle, Det. 26; SSgt Milton W. Clark, Det. 26.

Satellite Imagery Interpretation Course: 2nd Lt Mary Germaine, MSgt Barry O'Donnell, MSgt Thomas Fratangelo, TSgt Robert Cari, SSgt Jacob Lee, all from Det. 8, 26WS, Griffiss AFB, N.Y.

Master of Science Degrees: Capt James B. Near, Jr., Det. 6, 1WW, Hickam AFB, Hawaii - Meteorology, North Carolina State Univ., AFIT.; 1st Lt Robert P. Callahan, Meteorology, MIT, AFIT.; Lt Col Stephen C. Walden, HQ 1WW, Hickam AFB, Hawaii - Systems Management; Capt Robert T. O'Donnell, Det. 20, 24WS, Randolph AFB, Texas; Capt Alfred M. Powell, Det. 3, HQ AWS, Sunnyvale AFS, Calif. Computer Science, Univ. of Santa Clara.

Bachelor of Arts Degrees: MSgt Dennis Marsh, MSgt James Buckley, MSgt Tom Bassler, TSgt Eric Schell, TSgt Mike Josias, SSgt Clint Perry, SSgt Gene Wilson, all from 3330 Tech. Tng. Wing, Chanute AFB, Ill.; TSgt Mary F. Hebert, Det. 15, 28WS, RAF Mildenhall, UK.

Bachelor of Science: CMSgt Joseph R. Lara, Det. 15, 28WS, RAF Mildenhall, UK, Summa cum Laude from Troy State University.; TSgt Wardell Adams, HQ AWS, Scott AFB, Ill., Industrial Technology from Southern Illinois University.

To OTS: SSgt Mike Gottschall, Weather Tng Branch, Chanute AFB, Ill.

CCAF Degree: SSgt Lawrence L. Shipp, Det. 6, 5WS, Ft. Lewis AIN, Wash.; SSgt Ursula Seyerle, 31WS.

National Security Management School: Maj Gregory L. Logan, Det. 3, 15WS, Charleston AFB, S.C.

Weather Technician Course: SSgt G. D. Stroh, Det. 13, 5WS, Ft. Eustis, Va.; Sgt David M. Sysock, Det. 9, 5WS, Ft. Rucker, Ala.

Arrivals/Departures

1st Lt Richard L. Petrilla, Det. 15, 15WS, Wright-Patterson AFB, Ohio to the University of Utah-AFIT; Sgt Stanley D. Smiddy to Det. 15, 15WS, Wright-Patterson AFB, Ohio; Maj Robert Prochaska, HQ AWS/DNXP, Scott AFB, Ill., to ACSC, Maxwell AFB, Ala.; Sgt David A. Bird, Det. 4, AWS, Andersen AFB, Guam to Chanute AFB, Ill.; Sgt Milton G. Kooyman, Jr., Det. 4, AWS, Andersen AFB, Guam, to Chanute AFB, Ill.; Capt Marsha S. Korose, Det. 4, AWS, Andersen AFB, Guam to St. Louis University-AFIT.; Capt Gerald R. Griggs, Det. 4, AWS, Andersen AFB, Guam to OL-D, McClellan AFB, Calif.; Sgt Kenneth F. Heyward to HQ 28WS, RAF Mildenhall, UK; SSgt Ian W. Thompson to Det. 15, 28WS, RAF Mildenhall, UK; A1C Terry D. Allen, Det. 15, 28WS, RAF Mildenhall, UK; TSgt Alan F. McKee, from Det. 15, 28WS, RAF Mildenhall, UK; SrA Marion G. Stinnett, from Det. 36, 28WS, RAF Alconbury, UK; SSgt Terry L. Thrasher, to Det. 21, 2WW, Kapaun AS, Germany; A1C James N. Ozgunduz, to Det. 21, 2WW, Kapaun AS, Germany; SMSgt Larry J. Burns, from Det. 21, 2WW, Kapaun AS, Germany; Lt. Col John P. Cipriano, from Det. 21, 2WW, Kapaun AS, Germany; MSgt. Patrick L. Pritchett, from Det. 21, 2WW, Kapaun AS, Germany; A1C Gail Fermin, to Det. 1, 31WS, Bitburg AB, Germany; SSgt Jeff Bernard, from Det. 1, 31WS, Bitburg AB, Germany; A1C Paula A. Clarke, from Det. 1, 31WS, Bitburg AB, Germany; Col Floyd F. Hauth, to HQ AWS/ADN, Scott AFB, Ill., from HQ European Command, Det. 6, 2WW; Maj Jeffrey S. Schleher, HQ AWS/DNXP, Scott AFB, Ill., from 3WW/DNC; SMSgt Roy Metcalf, HQ AWS/DNTM, Scott AFB, Ill., from Det. 1, 7WS; MSgt Theodore Lippnik, HQ AWS / DNTS, Scott AFB, Ill., from Det. 12, 31WS, 2WW.

Weddings

2nd Lt Randy J. Horlocker to Teresa Toddie, Det. 11, 17WS, McChord AFB, Wash.

John Walker to Sun Hui, Det. 18, 30WS, Yongsan AIN, Korea.

A1C Majory F. Winslow to A1C Scott Condra, Det. 3, 28WS, RAF Lakenheath, UK.

A1C Thomas L. Applebach to A1C Terri Gassett, Det. 4, 28WS, RAF Bentwaters, UK.

SSgt Edward M. Pallay, Jr., to A1C Karen Sheppard, Det. 15, 28WS, RAF Mildenhall, UK.

A1C Lisa D. Miller to TSgt James Arend, Det. 15, 28WS, RAF Mildenhall, UK.

Retirements

Maj James A. Johnston, Chief, 22AF/WSU, Travis AFB, Calif., effective July 30, 1983.

CMSgt Billy G. Knippers, HQ 1WW, Hickam AFB, Hawaii, effective Oct. 1, 1983.

Capt John C. Karsk, Det. 11, 1WW, Hickam AFB, Hawaii, effective July 31, 1983.

MSgt James Buckley, Weather Tng. Branch, Chanute AFB, Ill.

Mr. Kyle Gilbert, HQ AFGWC, Offutt AFB, Neb.

MSgt Richard F. Watson, Det. 20, 24WS, Laughlin AFB, Texas.

TSgt Gilbert A. Brown, Det. 2, 11WS, Eielson AFB, Alaska.

Col Kenneth E. German, AFGWC, Offutt AFB, Neb.

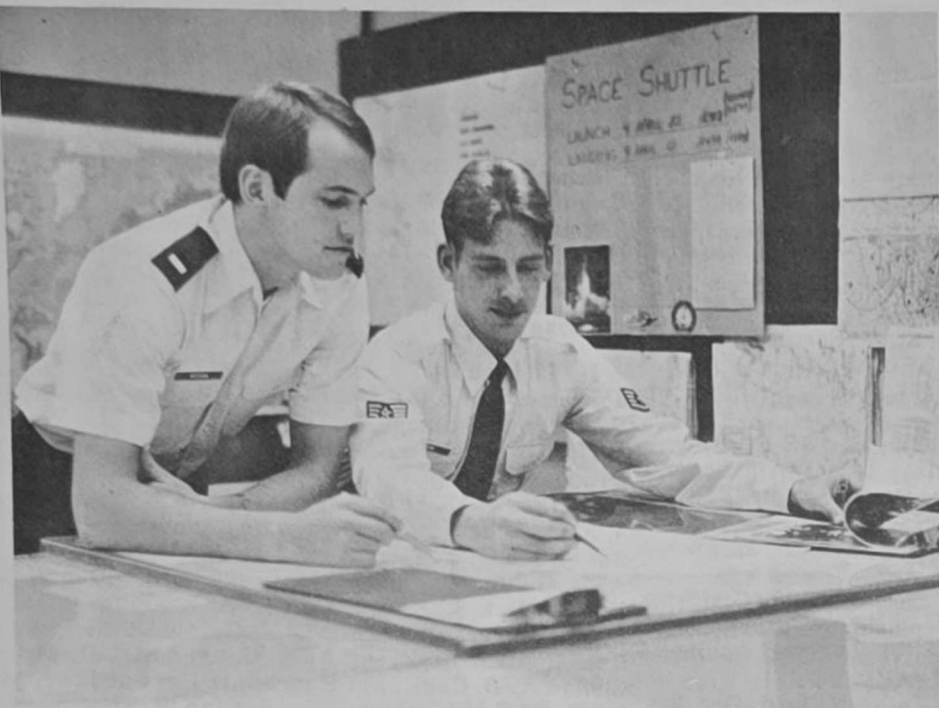
Lt Col Russell A. Hankins, AFGWC, Offutt AFB, Neb.

Maj Carl F. Lemon, AFGWC, Offutt AFB, Neb.

Mr. Benjamin Lawrence, AFGWC, Offutt WFB, Neb.

MSgt Leonard R. Edwards, AFGWC, Offutt AFB, Neb.

TSgt Mark Whitehead, Det. 21, 2WW; Kapaun AS, Germany.



LAUNCH FORECAST — 2nd Lt. George Bochain and SSgt. Wayne Klein prepare STS-7.

Another AFGWC job

Space Shuttle support

by Capt. Mary J. Carr

One of the many missions of Air Force Global Weather Central is Space Shuttle support.

During the STS-7 "Challenger" mission which launched June 18, four sections were directly responsible for providing pre-launch, launch and primary/alternate landing site Terminal Aerodrome Forecasts (TAF) to NASA mission planners.

Current Operations Forecast Unit (COFU) produced wind profiles from the surface to 100,000 feet in 1,000-foot intervals. COFU provided this data to both Worldwide Operations Forecast Section and other NASA planners.

Medium Range Forecast Unit (MRFU) provided pre-launch and launch synoptic discussions from 10 to three days before the launch and three to 10 days after the launch. These discussions centered around the synoptic situation and its possible effects on pre-launch, launch or post-launch activities.

Worldwide Operations Forecast Section (WOFS) provided zero to 48 hour pre-launch, launch and post-launch TAF as well as synoptic discussions for each TAF. Various weather bulletins included:

1. Area forecast for the solid rocket booster recovery, usually a broad ocean area covering 200 nautical miles. Cloud coverage, precipitation, winds and severe weather were the parameters.

2. Twenty-four to 48-hour TAF with accompanying synoptic discussions for the primary and alternate landing sites. The forecasts were prepared for Kennedy Space Center, Fla.; Edwards AFB, Calif.; White Sands Space Harbor, New Mexico; Rota Naval AS, Spain; and Dakar (Senegal) Africa.

3. Forecast for actual conditions at launch time, including cloud coverage, visibility, weather, surface pressure and temperature, as well as winds from the surface to 100,000 feet Mean Sea Level.

Before issuing landing site TAF and launch weather bulletins, WOFS ensured forecast continuity from their products to MRFU products and coordinated extensively with the base weather stations at Patrick AFB, Edwards AFB, and White Sands Space Harbor. Once their various bulletins were issued, the WOFS provided constant METWATCH by closely monitoring weather conditions in and around all operations areas. Other sections within the Forecasting Services Division provided WOFS timely and accurate data which aided immensely in TAF and METWATCH capability. These included the CONUS, European, Asian, Tropical and Upper Air Forecast Sections.

Along with weather support, AFGWC provided space environmental support for the shuttle.

Basic support from the Space Environmental Support Branch consisted of input to the preparation of forecasts of solar and geophysical activity with the Joint USAF/NOAA Space Environmental Services Center (SESC), Boulder, Colo. SESC is charged with the primary responsibility for Space Shuttle support. However, WSE maintains a standby support posture in the event that SESC loses support capability. WSE also contributed to shuttle support by providing data from unique USAF resources to augment the routine solar/geophysical data received at the SESC from worldwide sources.

Geomagnetic indices, for example, computed at AFGWC in real-time, were passed through the SESC to NASA for use in orbital correction calculations for the Shuttle.

AFGWC's space environmental support can become especially important in case of solar flare activity. Astronauts outside the shuttle can be exposed to high levels of radiation, which can also damage spacecraft electronic systems and disrupt communications.

Training exercise helps meet deployment challenge

by Capt. Paul H. Harris
Det. 8, 5WS

No one ever said Army weather support was easy, but Det. 8, 5WS has accepted the 1st Infantry Division challenge at Ft. Riley, Kansas.

The key to providing good Army weather support is training, training and more training. This applies to both tactical and garrison support.

Earlier this year, Det. 8, 5WS took advantage of a break in the division's training schedule to 'do their own thing.' The weather team of 2nd Lt. Anthony Warren and SSgt. Robert Wolf scheduled a local week-long field training exercise to train their people in tactical weather support and winter survival techniques.

The FTX Letter of Instruction called for setting up a tactical field site, instruction on the proper use of tactical weather equipment, preparing and providing staff weather briefings and learning winter survival techniques.

Plenty of time was provided to instruct each person on all aspects of setting up a tactical observation post, reading maps, using the TMQ-22 (operating tactical met equipment), erecting a 292 antenna, using an FM radio, operating an arctic stove, running 1.5kw generators, coding, decoding, etc. The exercise provided an excellent opportunity for a one-on-one training environment.

On the last day of the exercise, the Division G-2 gave out the good news; "Det. 8, be prepared to send a weather team to Ft. Drum, New York next week." Thanks to the special training, detachment members like A1C Theodore Zweifel and A1C Bruce Linde were able to share SSgt. Wolf's Army expertise and meet the cold challenge of Ft. Drum.

Team members felt that they would have never overcome the challenge of



FIELD OBSERVATIONS — The essence of an accurate forecast is good observation. A1C. Daniel Gardner measures wind direction and speed with a TMQ-22 Tactical Observing Kit. (U.S. Army photo)

Ft. Drum if they had not taken their training program seriously.

No one ever said Army support was easy, but Det. 8 accepts the 1st Infantry Division challenge and takes pride in being #1 in everything they do.

Lawrence retires after 31 years

Air Force Global Weather Central Assistant Chief, Automation Division, Benjamin Lawrence, Jr., retired July 31, ending a 31-year civil service career.

Lawrence had been part of AFGWC since its inception in November 1957. He was the assistant chief since 1969.



RETIRED — Benjamin Lawrence, Jr.

Lawrence began his employment with AWS as a weather forecaster at the Air Force Weather Central, Andrews AFB, Md.

In 1955 he moved to Suitland, Md., where Central was co-located with components of the National Weather Service. In 1957 he again moved with Central, then Det. 1, 3WW, to Offutt AFB, Neb.

He was with Central when their first computer system, an IBM 7090, was installed in 1960.

Lawrence was named chief of the Data Decode and Validation Section in 1963 and wrote the first AWS programs for the decoding of surface and upper air data. These programs remained in continuous use by Central until 1969. He saw Central grow from a small, totally manual system to the largest environmental support computer system in the free world.

"It has been an enjoyable 31 years, all associated with weather. The remarkable thing is the changes in the way we do business," said Lawrence.

(Reprinted from "Air Pulse," Offutt AFB, Neb.)