



The National Cooperative Observer

Summer 2006

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President Carter Helps Honor University of Georgia Weather Observers



From left are Nate Mayes, Cooperative Program Manager (CPM), NWS Peachtree City, GA; Mike Asmus, NWS Regional CPM; Former U.S. President Jimmy Carter; Stan Jones, Superintendent, UGA Southwest Georgia Research and Education Center; Dr. Steve Brown, Assistant Dean, UGA College Of Agriculture and Environmental Sciences; and Gary Beeley, NWS Science and Operations Officer. Photo by NWS Electronic Technician Christopher Carney.

Former President Jimmy Carter and officials from the NWS Southern Region presented the Honored Institution Award to the University of Georgia's Southwest Research and Education Center in Plains, GA. This prestigious award recognizes the center for 50 years of weather observations and cooperative service to the National Weather Service.

"I am pleased to be able to present this award to the exceptional staff of the Southwest Research and Education Center," said Carter. "As a resident of Plains and a farmer, I depend on the accurate reports collected by this outstanding facility."

Southwest Research and Education Center Supervisor Stan Jones accepted the award on

behalf of the university and participating staff members. The center began providing weather observations in January of 1956. Currently, the staff monitors and provides daily reports on temperature, precipitation, evaporation and soil temperatures to the NWS Forecast Office in Atlanta.

The NWS Cooperative Weather Observer Program has given scientists and researchers continuous observational data since the program's inception more than a century ago. Today, nearly 12,000 volunteer observers participate in the nationwide program to provide daily reports on temperature, precipitation and other weather factors such as snow depth, river levels and soil temperature.

Red River Rage, Midnight Mines and Wild Winters

Robert was responsible for snow storage observations and maintenance at Midnight Mine, NM for 12 years, until its closure in 1976. He made many of the trips by skis or snowshoes.



Robert Prunty shows off his 50 year plaque and pin for service as NWS Cooperative Observer.

The weather station in Red River, NM, has been in the Prunty family since 1921, when the family moved from Colorado to New Mexico. In 1932, George Prunty took over measuring Red River's fluctuating weather from Ed Westoby.

That's when Robert Prunty began his on-the-job training. During World War II, Robert's mother, Ethel, monitored the station. Robert eventually took over the station from her in 1956 and since then has posted daily weather conditions on a black board in front of his two-story log home on the main street in Red River.

He also sends daily reports to WFO Albuquerque by telephone and the IV-ROCS computer. In addition to the daily reports, he has volunteered to send NWS monthly reports.

The highly accurate and reliable weather records taken by the Prunty family for more than 74 years are a major factor in describing and determining the climatic boundaries of this sparsely populated but strategic mountainous region. Robert was responsible for snow storage observations and maintenance at Midnight Mine, NM, for 12 years,

until its closure in 1976. He made many of the trips by skis or snowshoes.

Robert also has been exceedingly responsive and cooperative when asked for special and non-routine weather reports.

On many occasions Robert has aided the NWS Forecast Office in Albuquerque with his intimate knowledge of local weather conditions and its effects in this rugged mountain region.

During wet or snowy years, he keeps close contact with the NWS Albuquerque's Service Hydrologist concerning winter snow pack and its spring water runoff into the upper Rio Grande.

In addition to helping NWS, Robert has been Red River's postmaster and president of its Chamber of Commerce.

Robert says in his years of watching Red River's weather, the hottest temperature he's recorded was 94 degrees in the late 1930s, and the coldest was 51 degrees BELOW zero in the late 1940s.

Robert was awarded the John Campanius Holm Award in 1979. In 1989, he was given the Thomas Jefferson Award, the highest honor given NWS observers.

Life in the Early Weather Bureau

By Steve Doty, Adapted from an article in Climate Station Chronicles

This article was extracted from a newspaper article highlighting the 50th wedding anniversary of Mr. and Mrs. William Hosea Green that appeared in The Abilene Reporter-News on June 12, 1955, and an article written in 1991 by Keith Hayes, NWS Abilene, TX.

A little more than 50 years ago a lonesome weatherman on a tiny island 8 miles southwest of Key West, FL., boiled a white shirt and a pair of tan socks together.

A tan dress shirt was not the final result of this batchin' experience for W. H. Green, who grew

up with six sisters as home support. He decided he needed a wife. On June 15, 1905, he married Emma Bryan in Flatcreek, TN. Emma was a school teacher.

Some 50 years later the couple's seven children are honoring them with a golden wedding celebration. After 41 years of predicting weather, and 34 years spent watching unpredictable Abilene weather, William has been retired to the "yard boy" position.

William loves to reminisce about the varied experiences in his roving life spent at various weather observation stations. After their marriage, the Greens lived for 5 months in Havana, Cuba, and then returned stateside to Montgomery, AL. The couple moved frequently. Their longest stay, before moving to Abilene in 1909, was in Knoxville, TN, for 3 years. Then they spent a short time in Wytheville, VA, and in Fort Worth, TX.

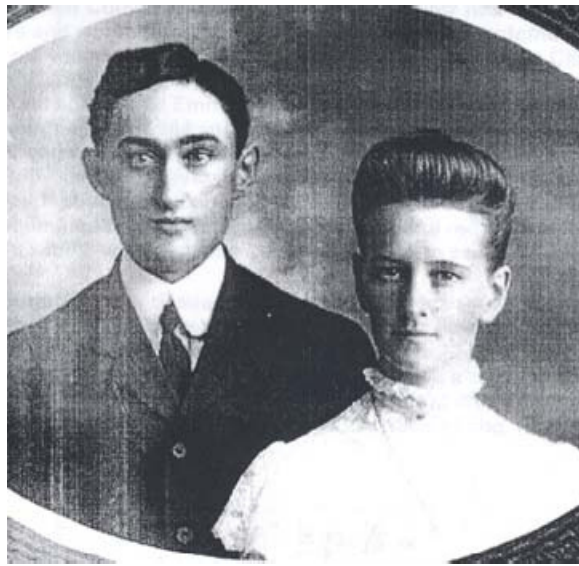
In his forecasting days, William reported the weather via colored flags on top of the weather station. A white flag signaled fair weather, a blue one, rain, and a half-and-half banner meant showers. A white flag with a blue square in the center forecasted a cold wave. A smaller triangular flag indicated the temperature range: If flown over the weather flag, it meant a rise in temperature, if below the flag, it meant a drop in the thermometer

For those that wanted more detailed information, bulletins were posted at Minter's Department Store, the Texas and Pacific depot, the Western Union office, Chamber of Commerce, and on the Farmers and Merchants' National Bank. Radio and TV did away with these hand bulletins and flag waving announcements.

Declaring he had "nothing to do with Wednesday's storm," William says the flood July 31, 1911, was the worst he ever saw. "Downtown stores were flooded and hail and high wind ruined nearly every window pane and crop it could reach," he remembers.

Weather observations were established at Abilene in 1885 by noted meteorologist Dr. Isaac M. Cline as a post for the U. S. Signal Corps. Dr. Cline left the area in 1888 or '89 and was the weather observer at Galveston, TX, during the great hurricane of 1900. Dr. Cline's wife was one of the 6,000 victims of this disaster.

Major George Eddey assumed duties as weather observer following Dr. Cline. Eddey was succeeded by Captain James W. Watson. Watson would oversee the construction of the Weather Bureau.



William and Emma Green at the time of their wedding in 1905. From www.rootsweb.com.

The Greens had resided in the new bureau only shortly when tragedy struck. Captain Watson died December 18, 1909, in a fall from the steep basement staircase.

Green told the local newspaper he was "in the dark about permanent plans" after Watson's death. The chief of the bureau had merely wired him to take charge of the Abilene office until further notice. Thus began his 34 year tenure.

Life in the Abilene bureau became a family affair for the Greens. What began in untimely death at the Weather Bureau building soon became noisy play and new life.

Five of the seven Green children were born in the master bedroom of the bureau building. Years later William's eldest son, J. W., spoke of everyone in the family answering the telephone and being expected by the caller to provide accurate forecasts instantly.

The children shared the daily duties of posting the forecasts written on cards at various display sites within town such as the banks and post office. J.W. Green would later serve as observer at the new airport office from 1935 to 1939.

Another son, Burton, found a career with the Weather Bureau serving once as Official-in-Charge at Roanoke, VA, and then Concordia, KS. Burton retired in 1967.

Even daughter Mary would have lifetime ties to the bureau. She married airport observer Russell Mozeny, later the Official-in-Charge at Corpus Christi, TX, from 1947 to 1972.

In his forecasting days, William reported the weather via colored flags on top of the weather station. A white flag signaled fair weather, a blue one, rain, and a half-and-half banner meant showers.

Thomas Jefferson Award Winners



Editha Bartley, left center, of Gascon, NM, receives the Thomas Jefferson Award. Bartley often goes out of her way to drive into Las Vegas, NM, to pass on important weather information to NWS staff.

Presenting the award was Albuquerque, NM, Meteorologist in Charge (MIC) Charlie Liles and Observing Program Leader (OPL) Joseph A. Alfieri. The award was presented at the Rotary Club of Las Vegas, NM, during a Rotary Meeting. Editha's daughter, Sherrill Becker and friend John Beemer were on hand from Phoenix for the occasion.

Owen B. Hendrix receives both his Thomas Jefferson Award and Dick Hagemeyer 45 Years Service Award. Pictured center left is Owen surrounded by his sons David and Benson. Far left is Owen's cousin, Arkansas State Treasurer Gus Wingfield. Attending but not pictured are NWS Little Rock, AR, MIC Renee R. Fair and NWS Warning Coordination Meteorologist (WCM) John Robinson. Photo by Jimmy Russell, OPL, NWS Little Rock, AR.



John Campanius Holm Award Winners



NWS Shreveport, LA, presented the Holm Award to **Wayne W. Ward** of Dierks, AR. William is a lifetime resident of Dierks and an employee of the Arkansas Forestry Commission. His duties as a dispatcher for the commission include operating an official NWS weather station. William has been an NWS Cooperative Observer for 34 years.

From left front, are MIC Armando Garza and Wayne. Rear are DAPM Marion Kuykendall, Wayne's daughter Melissa King and James White, a fellow city employee. Photo by WCM Mark Frazier.

Betty Dunlap of Fort Sumner, NM, receives the John Campanius Holm Award from Albuquerque MIC Charlie Liles. Betty is a dedicated observer who, with her husband, has been taking observations for many years.

When her husband died, Betty considered giving up her weather station but decided to continue the tradition. When her daughter was injured in Florida, she again thought about giving up the station, but she is still there every day to aid the NWS in its programs. Photo by OPL Joseph A. Alfieri.



John Campanius Holm Award Winners



Lubbock, TX, MIC Justin Weaver presents the John Campanius Holm Award to **Johnnie Wilson** of Crosbyton, TX, for his exceptional service as an NWS Cooperative Observer. Photo by Lubbock DAPM Johnny Wallace.

The prestigious John Campanius Holm Award was presented to **Peggy Wolf** (center) by Dessa Emch, OPL (right) at an awards presentation. Also pictured is Judy Honerkamp, Peggy's daughter, who began weather observing for the San Miguel Wolf Ranch in southern California when she was in high school.



John Campanius Holm Award Winners



From left, OPL Jimmy Russell presents the prestigious John Campanius Holm Award to **Lela and Bill Cooper** with help from Little Rock, AR, MIC Renee Fair. Photo by Michael Reid, HMT.

150 Year Family Heritage Award

John Maddox of Rome, GA, receives the NWS Family Heritage Award for more than 150 years of service at a meeting of the Exchange Club. Observations were begun by Ruben S. Norton in 1855. William H. Towers, William H. Towers Jr. and William H Towers III continued to take weather observations until 1974, when the duties were passed to John.

The award was presented by NWS Peachtree City, GA, MIC Lans Rothfus (left). Not pictured are WCM Barry Gooden and OPL Frank Taylor,



100+ Family Heritage Awards



Barbara and Joseph H. Conger Jr. with extended family and awards.

NWS Wakefield, VA, MIC Anthony Siebers and CPM Rick Curry presented the Family Heritage Award to the **Conger Family** at their home in Edenton, NC. The event was shared with friends, family, the mayor of Edenton and members of the town council.

The family's contributions began in 1897 when **E. R. Conger** began taking and recording observations at the Edenton site. He continued until 1943 when his son **Joseph** took over the station. Joseph's dedicated efforts were recognized in 1978 when he was presented the Thomas Jefferson Award. He continued until 1981 when **Joseph Jr.** became the primary observer. Joseph Jr. received a 25 Year Award during the presentation. Throughout its

109 year history, the site's equipment has remained within 300 feet of its original location at E. R.'s home.

Many of those attending remember the Conger family "raising the flag" for mariners. In addition to their duties as cooperative weather observers, family members disseminated NWS marine warnings and advisories by displaying storm flags over the Edenton Dock. They performed these duties from 1898 until the program ended in the 1980s. Joseph Sr. was presented a boxed storm flag to commemorate his family's efforts.

Anthony Siebers presented the Conger family with the Family Heritage Award along with congratulatory letters from Brig. Gen David L. Johnson, USAF (Ret.), NWS Director; and Dean P. Gulezian, NWS Eastern Region Director.



Left back are Rick Curry and Anthony Siebers presenting Family Heritage Award to Joseph H. Conger Jr. and his wife Barbara.

100 Year Honored Institution Award

In July 1905, the first weather observations were taken by Bureau of Reclamation personnel in a town called Tokna, MT. Tokna no longer appears on maps, but 100 years later, temperature and precipitation are still recorded within 5 miles of that original location. NWS honored the employees of the **Lower Yellowstone Irrigation District** in Savage, MT, for more than 100 years of dedicated service to the NWS Cooperative Weather Observer Program.

NWS Glasgow, MT, MIC Julie Adolphson, right, presented a plaque to Bill Hamburg for the outstanding service provided by staff of the Lower Yellowstone Irrigation District, despite numerous challenges. The station was moved in 1910 from Tokna to Savage. At that time a cotton region shelter was used to house the temperature equipment.

Routine maintenance was all that was required on the equipment over the decades. A big change came in 1998 when the thermometers were replaced with electronic temperature equipment. CPM Matt Moorman, of NWS Glasgow humorously comments that “the new equipment is great, but we sometimes miss those old thermometers when there is lightning in the area and the power gets knocked out.”



75 Year Honored Institution Award

Progress Energy's Tillery Hydroelectric Plant in Mt. Gilead, NC, received a 75-Year Honored Institution Award for service as a member of the Cooperative Observer Network. Several representatives from Progress Energy were in attendance at the ceremony, along with the mayor of Mt. Gilead, a member of the Mt. Gilead Board of Commissioners, and NWS Raleigh Cooperative Program Focal Point Bob Ussery.



From left are Garry Whisnant, Hydro Operations Manager at the Tillery Dam for Progress Energy, DAPM Debbie Money penny, and MIC Darin Figurskey.

Benjamin Franklin 55 Year Award



NWS Tucson MIC Glen Sampson, left, presents the Benjamin Franklin Award for 55 Years of Service to **Bill and Doris Winkler** at their home in Rucker Canyon, AZ. Photo by OPL Angel Corona.

Audrey Mushrush of Hoopston, IL, was presented with the Benjamin Franklin Award for her 55 years of service. Her late husband, John, began taking observations in Hoopston in May 1951. The Mushrushes have provided nearly 21,000 consecutive days of observations from Hoopston, a Historical Climate Network station.

Pictured with Audrey are Dr. Jim Angel, Illinois State Climatologist, and Central Illinois DAPM Billy Ousley. The event was attended by numerous NWS staff members as well as family, friends and local officials. Photo by Dan Kelly, NWS Central Illinois.



50 Year Edward H. Stoll Awards



Mildred Guse of Bryant, SD, was recently presented with the Edward H. Stoll Award for completing 50 years of dedicated service.

Mildred and her husband **Walter** began taking observations from their farm near Bryant in August 1956.

Pictured from left are NWS Aberdeen, SD, HMT Kenneth Gillespie, Mildred and MIC Jim Scarlett.

James Franck was recognized for 50 years of volunteer service in Trenton, NC. James is a dedicated observer and takes immense pride in the accuracy of the data which he has diligently collected for half a century. Eastern Region Director Dean Gulezian presented The Edward H. Stoll Award to James.

After the presentation, James and his wife, Dot, served one of the best BBQ meals ever tasted by NWS staff attending the award ceremony--and that's saying something in eastern NC, where BBQ is art. This act of great kindness was just one more testimony of James' and Dot's generosity and willingness to give something back to others.



Pictured from left are James R. Franck, NWS Newport/Morehead City MIC Tom Kriehn, DAPM Central Wills, and Eastern Region Director Dean Gulezian.

Photo by HMT Gil Wag.

45 Year Dick Hagemeyer Award



Bud Nordin, observer in Sheffield, PA, for the past 45 years was presented the Dick Hagemeyer Award by NWS State College, PA. NWS Director General (ret.) D. L. Johnson, right, presented the award. Pictured along with General Johnson from left are Eastern Region Director Dean Gulezian; Julia Bowser, aide to U.S. Senator Santorum; Pennsylvania State University Dean Eric Barron of Earth and Mineral Sciences, and Bud.

Bud was also presented certificates honoring his volunteer service from U.S. Rep. John E. Peterson. Nearly 100 guests were present during this celebration.

From left, **Ruth, Beth and Rex Bourland**, members of the Knoepfli family and observers at Comfort, TX, were presented the Dick Hagemeyer Award for 45 years of service. The award was presented by San Antonio, TX, HMT Pat McDonald.



40 Year Length of Service Award



Bill Gibbs (left) and wife accept their 40 Year Service Award at Gibbs Ranch in Northern Nevada from MIC Kevin Baker, NWS Elko, NV, presented the award.

Freda Trussell of Coloma, MO, received her 40 Year Length of Service Award from OPL George Amis, NWS Pleasant Hill, KS. Photo by HMT Harry Morgan.



Ferris Brough, right, with wife **Marlene**, of Clover Valley, NV, is presented with a 40 Year Length of Service Award by MIC Kevin Baker, WFO Elko, NV.



35 Year Length of Service Awards



Dolores Seal, right, holds up her 35 Year Service Award for observations at Water Valley, TX. Celebrating with Dolores is NWS San Angelo, TX, staff member Eva Mullen.



A 35 Year Length of Service Award was presented by NWS Shreveport, LA, DAPM Marion Kuykendall (left) to **William W. Ward** of Dierks, AR.



Charles Meyer, long-time Bowling Green, IN, observer was presented a 35 Year Length of Service Award. Pictured from left are Indianapolis MIC John Ogren, Charles and wife Beverly, and HMT Ed Terrell. Photo by Albert Snipe, Service Hydrologist.



Andrew Korus, observer at Stockdale, TX, received a 35 Year Length of Service Award from NWS San Antonio HMT Joe Baskin.

30 Year Length of Service Awards



Duane Woodward (center) of Atlantic, IA, shows his 30 Year Length of Service Award presented by NWS Des Moines, IA, ET Drew Bouvette, and Service Hydrologist Marian Baker.



From left, NWS Shreveport, LA, DAPM Marion Kuykendall presents a 30 Year Length of Service Award to **Wilmer Ray Bailey** of Jena, LA.



Jim Benovic of Montague, MI, shows his 30 Year Award. Jim has been busy since he retired from the US Postal Service 5 years ago. Jim and wife Marilyn have recently completed renovations on their home requiring quite an upheaval of their observing equipment. Not one observation was lost during the construction. The award was presented by Grand Rapids, MI, OPL George Wetzel and CPM Mike Kalembkiewicz.



Arlene Bernhardt from Taylor, ND, was awarded a 30 Year Length of Service award by Vern Roller, CPM/HMT, at Bismarck, ND.

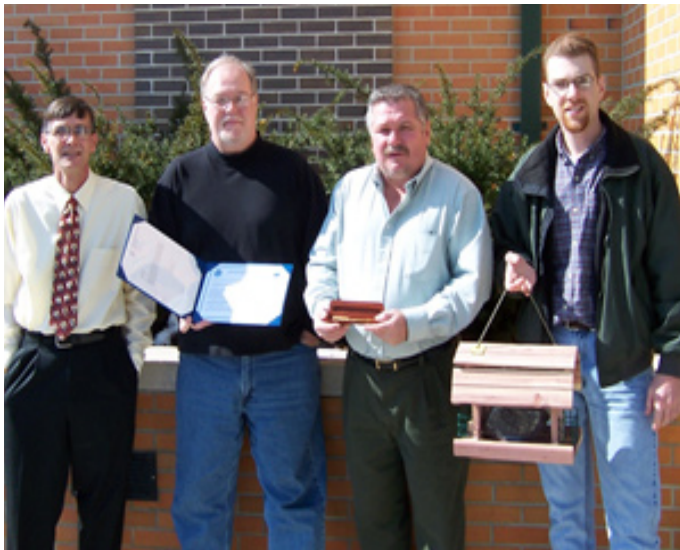
25 Year Length of Service Awards



Patsy Eicks Rineer accepted a 25 Year Award for observations at McNeal, AZ, presented by Tucson MIC Glen Sampson. Photo by OPL Angel Corona.



Gary and Wanda (not pictured) **Ottmar** from Manning, ND, receive a 25 Year Length of Service award for the Dickinson NDSU Research Extension Center-Ranch Headquarters. Presenting the award is NWS Bismarck, ND, OPL Len Peterson, left.



Rudy Young was recognized for 25 years of outstanding service as an observer in Stearns, KY, at a ceremony held at the Whitley City Court House in McCreary County. From left are County Judge Blain Phillips, Rudy, NWS Jackson, KY, DAPM Dave Stamper, and Forecaster Tony Edwards.



David D. Einspahr, observer in Wheat Ridge, CO, received a 25 Year Length of Service Award from Byron Louis, DAPM, NWS Boulder, CO.

25 Year Honored Institution Awards



The **Hazard State Police** show their 25 Year Honored Institution award. Pictured from left are Dispatchers Gretta Huff, Jimmy Duncil, Sherry Cole, Glenna Huff, and Supervisor David Adams. Presenting award is Jackson, KY, MIC Shawn B. Harley. Picture taken by DAPM Dave Stamper.



Utah Power and Light, Hunter Plant, UT, was presented a 25 Year Honored Institution Award by Steve Summy, OPL, NWS Salt Lake City, UT. Accepting the award is Darrell Cunningham, observer at Castledale-Hunter UP&L, UT.



NWS Green Bay, WI, honored the employees of the **Oshkosh Waste Water Treatment Plant** with a 25 Year Honored Institution Award. From left are NWS MIC Gary Austin, Plant Operators Jan Brandenburg, Brad Randall, Jason Schill, Kevin Sorge, Randy Whittaker and Superintendent Tom Kruzick.



The **South Central Experiment Field Station**, part of the **Department of Agronomy** at **Kansas State University**, was presented a 25 Year Honored Institution Award for the Hutchinson, KS, area. Pictured from left are NWS Wichita, KS, DAPM Joe Rosner, and Observers Mike Seyb and Mike Herr.

20 Year Length of Service Awards



Joseph Muller from Glen Ullin, ND, shows his 20 Year Length of Service award presented by Vern Roller, CPM/HMT, Bismarck, ND.

NWS Shreveport, LA, DAPM Marion Kuykendall, helps hold up a 20 Year Length of Service Award with **Patricia Wright** of Mount Vernon, TX.



Randy Wagner of Max, ND, shows his 20 Year Award presented by CPM Sandra Wiche of NWS Bismarck, ND. Randy works at the local grain elevator.

Observers Leslie and Mark Steffek received a 20 Year Length of Service award for the **WWTP Radio** in Suring, WI. Picture not available.

15 Year Length of Service Awards



Richard and Ann Abel of Kokomo, IN, display their 15 Year Award presented by NWS Indianapolis HMT Ed Terrell. Photo by DAPM Mike Shartran.



Suzanne Armand, observer and postmaster at the Venus, FL, Post Office proudly displays her 15 Year Award and pin given by HMT Tom Dougherty, NWS Tampa Bay, FL.



Observer **Jerry Alexander**, left, of Caldwell, KS, shows his 15 Year Length of Service Award presented by Wichita CPL Leon Wasinger.

15 Year Length of Service Awards



Joy Hendrix of Lund, NV, is presented with a 15 year Length of Service award by HMT Greg Lonien, WFO Elko, NV.



A 15 Year Length of Service Award was presented to **Clint Cooper** of Mount Pleasant, TX, by Shreveport, LA, DAPM Marion Kuykendall.



Dick Fischer from Watford City, ND, holds his 15 Year Award. Photo by Len Peterson, OPL, Bismarck, ND.



Vernon Erickson shows his 15 Year Length of Service Award. Photo by Vern Roller, HMT/CPM NWS Bismarck, ND.

Observers **Jack and Norma Dennett** were presented a 15 Year Length of Service Award for the Oxford, KS, area. Presenting the award was Wichita, KS, CPL Leon Wasinger. No picture available.



Anthony Hale, observer at Lafayette, TN, was presented his 15 Year Award by NWS Nashville OPL Ralph Troutman.

15 Year Length of Service Awards



A 15 Year Length of Service Award was presented to **Danny Wilcox** of Lewisville, AR, by DAPM Marion Kuykendall, NWS Shreveport, LA.



Wallace Roeske, left, observer at Rogers City, MI, was presented with a 15 Year Award by HMT Keith Berger, NWS Gaylord, MI. Photo by R. Eric Kersey, OPL.



David Sylvester, Coop Observer at Barnard Plantation, ME, shows his 15 Year Award.

10 Year Length of Service Awards



A 10 Year Service Award was presented to **Beth Anderson** of Callao, UT, by MIC Kevin Baker, NWS Elko, NV. Beth's husband **Don**, not pictured, also received a 10 Year Award.



Marion Bates, Observer at Topsfield, ME, was recently presented with a 10 Year Length of Service Award.

Jim Allen, right, Observer at Julesburg, CO, holds up his 10 Year Award with help from HMT Carl Burroughs, NWS Boulder, CO. Photo by Vickie Sandlin, reporter, *Julesburg Advocate*.



A 10 Year Length of Service Award was presented by NWS Shreveport, LA, Meteorologist Patrick Omundson to **M. L. Broussard** of Hemphill, TX. Picture not available.

10 Year Length of Service Awards



Beverly and Reinhard Grenz, left, A-Paid and Coop Observers at Chulitna River, AK, hold up their 10 Year Award. Presenting the award was Alaska Regional Cooperative Program Specialist Peter Rahe.



Observer **Scott Gutsch** was presented a 10 Year Award for the Lincolnville, KS, area by DAPM Joe Rosner, NWS Wichita, KS. Picture not available.

Bob and Vera Cole, observers at Beaver Dam, AZ, receive their 10 Year Length of Service Award from Don Maker, OPL, NWS Las Vegas, NV.

Observers **Richard and Karen Fulk** brave the cold to show their 10 Year Service Awards for the Hesston, KS, area. Presenting the award was DAPM Joe Rosner, NWS Wichita, KS.



Adrian Fredriksson, Observer at Hondo, TX, received a 10 Year Award from Dennis Cook, HMT San Antonio, TX.



Bill Fyre of Edinburg, VA, shows his 10 Year Award. Photo by OPL John Darnley, NWS Sterling, VA.



Joe Hays receives his 10 Year Award for taking care of the Fischer and Porter recording rain gage at Edison, NE. Joe also keeps grain dust off the solar panel. DAPM Marla K. Doxey, NWS Hastings, NE, presented Joe with his award.

10 Year Length of Service Awards



Mike Kirkham (right), of Jamestown, LA, shows his 10 Year Length of Service Certificate. The award was presented by NWS Shreveport, LA, DAPM Marion Kuykendall.

Betty Klepper, observer at Pandale, TX, received a 10 Year Length of Service Award. Photo by Dennis Cook, HMT, San Antonio, TX.



Al Kinsall, observer at Eagle Pass, TX, received a 10 Year Award from Dennis Cook, HMT, San Antonio, TX.



Lloyd Kraft of Wessington Springs, SD, (left) accepted his 10 Year Award from DAPM Don Morin, NWS Sioux Falls, SD. Lloyd also accepted a 20 Year Award on behalf of his back up observer **Duke Wenzel**, who was not available for a photo. Photo by Meteorological Intern Tim Masters, NWS Sioux Falls, SD.



William E. (left) and **Mary Jo King** (not pictured) get their 10 Year Award for service at Smyrna, TN, from NWS WCM Jerry Orchanian, Nashville, TN.

10 Year Length of Service Awards



From left are Jimmy Elliott, Mayor pro tem of Haleyville, AL; **Randy Stultz**, 10 Year Observer at Haleyville, and DAPM David Wilfing, NWS WFO Birmingham, AL.

Observer **Frank Terrill** was presented a 10 Year Length of Service Award for his observations at Arlington, KS. Photo by DAPM Joe Rosner NWS Wichita, KS.



Myrtle Thornton, Coop Observer for Guntown, MS, accepts her 10 Year Length of Service Award from Zwemer Ingram, DAPM, NWS Memphis. Besides collecting rainfall data, Myrtle enjoys raising and caring for donkeys, dogs, birds and goats.



Kathy Woodcox received her 10 Year Length of Service Award and pin from Larry Boyd, OPL Goodland, KS. Kathy owns and operates a motel in St. Francis, KS.



Cole Timberlake of Branford, FL, received a 10 Year Length of Service Award from Mike McAllister, OPL, NWS Jacksonville, FL.

**The
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Chains, Wells and Tapes

Delmar and Veronica (not pictured) **Schoenfish** are 25 Year river observers at Cambridge, NE, on the Republican River. Their river readings also provide information on stream flow into Harlan Reservoir. They maintain a slice of history by using some of the oldest equipment NWS owns. Check out the photos below.



Stilling well in the river gage house, with one of the few remaining tape measuring devices still in operation in Nebraska.



Delmar stretches the chain to get a reading on the chain gage.



Sutron river gage recording device.

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