



The National Cooperative Observer

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Spring 2010

Inside

42,226 Daily
Temperature Readings,
and Counting
2

John Campanius
Holm Awards
5

Helmut E. Landsburg
60 Year Awards
6

50 Year Honored
Institution Awards
6

Special Service
Award
9

25 Year Honored
Institution Awards
12

Length of Service
Awards
40 Year: 8
35 Year: 10
30 Year: 10
25 Year: 11
20 Year: 14
15 Year: 15
10 Year: 16
5 Year: 19

June, July, August
Temperature and
Precipitation
Outlook
20

Edward H. Stoll, Hard Act to Follow

The Edward H. Stoll Award was created in 1975. It is presented to a Cooperative Weather Observer who has completed 50 years of service. What did Ed Stoll do to earn the honor of an award in his name? Here's a little history of this consummate Observer.

Ed recorded his Coop observations for 76 years, beginning in 1905, when the weather observing job was given to him by a neighbor who was moving away.

In June 1980, Ed's remarkable longevity earned him a trip to Washington, D.C., with his daughter, Esther Grabenstein, to receive a diamond pin from President Jimmy Carter. Ed sat in the Oval Office and chatted with the President. The weather, no doubt, was the main topic of conversation! She remembers that event as one of the highlights of her life.

Esther also remembers that she and her father made the national news and that President Carter gave her a hug. Esther lives in Eustis, NE, about 10 miles from the farm where she grew up and where her father spent most of his life. In NWS parlance, it was known

as Elwood 9SSW. Esther's brother Oscar still lives on the farm. Being both a farmer and a Weather Observer brought an interesting observation from Ed.

He pointed out that it was not always rain, but weather, which made good crops possible in his region. He commented that several years of short rainfall produced good harvests, when other years of more abundant rainfall produced less than average harvests for the farm.

In 1968, 17.15" of precipitation produced a very good crop. The following year the measurement was almost double that number, 33.21", and in Ed's words, "The crops were very little better."

Ed was a stalwart in farming and soil conservation practices, but he always pointed out that we should not condemn our forefathers for not being conservationists but rather commend them for the courage it took to open up a new country and wrench a living from the soil.

When asked why he gave so many years of service to the Coop program, Ed said, "Everyone owes something to his country free of charge and I am glad I had the chance to contribute in this way."



Ed Stoll checking his Coop equipment.

Five years later, 200 people gathered at the school auditorium in Arapahoe to honor Ed for 65 years of service.

His weather observations began when he was only 18 and already tilling the soil on the farm his family moved to when Ed was just 1 year old.

During Ed's tenure as a Coop Observer, the highest temperature he recorded was 112 degrees and the lowest 32 degrees below zero. He recorded a whopping 36.64" of precipitation in 1915, and only 12.37" in 1934, a total that led to the famed "Dust Bowl." He reported a thunderstorm that lasted 9 hours on September 6, 1946, but only netted 0.27" of rain.

In October of 1965, 120 neighbors, friends, and relatives gathered at the community building in Elwood to honor Ed for 60 years of service as a Coop Observer. The local newspaper reported that it was one of the

nicest events held in the community for some time. The "Weather Bureau" presented him with a personal rain gage with an engraved inscription and a letter from President Lyndon Johnson.

Five years later, 200 people gathered at the school auditorium in Arapahoe to honor Ed for 65 years of service. At that ceremony, congratulatory messages from President Nixon, the Secretary of Commerce, the Secretary of Agriculture, and Robert White, Chief of the Environmental Services Department were read. At that time, only one person had served longer than Ed, a 97 year old lady in Tennessee who beat him by 2 months.

Thanks Ed and all of you who give your time to your country! ☼

42,226 Daily Temperature Readings, and Counting

Reprinted from the Eureka Alert.

Every day since January 1, 1896, an Observer has hiked to a spot at The Mohonk Preserve, a resort and nature area some 90 miles north of New York City, to record daily temperature and other conditions there. It is the rarest of the rare: a weather station that has never missed a day of temperature recording; never been moved; never seen its surroundings change; and never been tended by anyone but a short, continuous line of family and friends, using the same methods, for 114 years.

On top of that, Observers have for decades recorded related phenomena such as first appearances of spring peepers, migratory birds and blooming plants. At a time when scientists are wrestling to ensure that temperature readings from thousands of divergent weather stations can be accurately compared with one another to form a large-scale picture, Mohonk offers a powerful confirmation of warming climate, as well as a compelling multigenerational yarn.

The story is told in an article by researchers from Columbia University's Lamont-Doherty Earth Observatory and Mohonk in the current issue of the Journal of Applied Meteorology and Climatology.



Paul Huth checks the thermometer at the Mohonk Preserve, located at the same spot for 114 years and read every day without a break.

Mohonk was founded in 1869 by the Smileys, a close-knit Quaker family that still runs the 7,200-acre property on a high ridge in the Shawangunk Mountains.

When the fledgling United States Weather Bureau (later the National Weather Service) founded an official station there, the Bureau supplied thermometers, log sheets and other materials. Albert K. Smiley, one of the twin brothers who founded the place, volunteered to man it.

The thermometer (occasionally replaced by a new duplicate over the decades) has

always been kept in a box out of direct sun, in the same place, a short walk from the Mohonk hotel; a brass rain gauge at the end of a boat dock is the 1896 original.

In 1906, Albert's half-brother, Daniel, took over the readings. In 1930, Daniel's sons Bert and Doc followed. In 1937, Bert's son Daniel Smiley Jr., picked up the job. In addition, Daniel Jr., an old-school amateur naturalist, started recording many other observations, including first spring sightings of various creatures, on some 15,000 index cards.

In 1988, the year before Daniel Jr. passed away, he handed his duties to Paul Huth, a longtime friend and employee. Huth, or one of his staff, still walks up to the box at 4 pm every day.

The weather log, for many decades kept on handwritten sheets, lacks only 37 days of precipitation data from 1901, 1908 and 1909, due to a missing data sheet, and a few days when Observers apparently didn't look at the rain gauge. The temperature record is complete.

Enter another father-son team. In 1971, Edward R. Cook, then serving as a military policeman at nearby West Point, became friends with Daniel Smiley Jr. Later, Cook became a tree-ring scientist and climatologist at Lamont, and began studying conifer trees at Mohonk--some of which turned out to be over 400 years old. From these, he extracted a rough record of weather in the Hudson

Valley before Europeans settled. Then Edward Cook's son, Benjamin I. Cook, became a climate modeler at Lamont. It was under Benjamin's leadership that the Cooks and their colleagues at Mohonk began studying the instrumental readings and other data.

Starting in the 1990s, Mohonk staffers



The rain gauge at Mohonk is the brass 1896 original, supplied by the US Weather Bureau, now the National Weather Service.

spent hundreds of hours digitizing the records so they could be analyzed. "It is incredibly rare to have the level of continuity that we have at Mohonk," said Benjamin Cook. "Any one record cannot tell you anything definitively about climate globally or even regionally. But looking closely at sites like this can boost our confidence in the general trends that we see elsewhere, and in other records."

Indeed, the new study finds remarkable correlations with many other widely spread, but less continuous records.

At Mohonk, average annual temperatures from 1896-2006 went up 2.63 degrees Fahrenheit. Global measurements in the same time over both land and oceans put the rise at about 1.2 to 1.4 degrees; but land temperatures are rising faster than those over the oceans, and those at Mohonk track the expected land trend closely. As



Climber amidst autumn foliage in the Mohonk Reserve, courtesy of mohonkreserve.org.

The weather log, for many decades kept on handwritten sheets, lacks only 37 days of precipitation data from 1901, 1908 and 1909.

Prior to 1980, it was rare for the thermometer to surpass about 89 degrees more than 10 days a year. Since then, such events have come to Mohonk on at least 10 days a year.

expected also, temperatures are up in all seasons, but increases have been especially evident in summer heat waves, and this has been accelerating in recent years.

Prior to 1980, it was rare for the thermometer to surpass about 89 degrees more than 10 days a year. Since then, such events have come to Mohonk on at least 10 days a year—and often on more than 20 days. At the same time, the number of freezing days has been decreasing—about a day less every 5 years over the long term, but since the 1970s, at the accelerated rate of 1 day every 2 years. This also matches wide-scale observations in North America and elsewhere.

The Mohonk records do not match wider trends in one area. The start of the growing season—the date of the last when freeze—has been moving up steadily in many places, but not here. Instead, the total number of yearly above-freezing days is increasing because more unusually warm days are puncturing the winter.

As described in an earlier study in the *International Journal of Climatology*, also by the Cooks and Mohonk staff, the effect has been a sort of an intermittent false spring that may expose some early-flowering plants to frost damage.

"The earliest flowering native plants like hepatica, bloodroot and red-berried elder are likely to be most affected," said Benjamin Cook. He said it is still too early to tell the ecological effects of such disruptions,

but added: "The data from Mohonk will be invaluable for expanding our knowledge of how ecosystems respond to climate change."

Mohonk maintains an up-to-date online archive of the weather data accessible to the public.

The new study comes at a time when some skeptics have questioned the accuracy of long-term weather records, on the basis that many stations have been moved or that surroundings have changed, occasionally putting instruments nearer to buildings, parking lots or other possible heat sources that could skew readings upward; however, recent studies including one by scientists at the National Oceanic and Atmospheric Administration, have found that such year-to-year inconsistencies cut both ways, and that instruments near developed spots actually more often read too cool rather than too hot.

Researchers say every effort has been made to adjust for errors, and that errors one way or the other at individual stations basically cancel each other out, leaving the averages correct.

"Pictures, anecdotes, and cursory glances of poorly sited or maintained sites and weather stations may suggest problems, but until the data is analyzed it is impossible to conclude that the record is compromised by cold or warm biases," said Cook. "The advantage to Mohonk is that

we can revisit the record in detail, with minimal corrections. This helps confirm the large-scale trends, and it helps us identify stations with errors that need to be corrected."

As for the long history behind the studies, he said: "We and the Smileys all just happened to be in the right place, at the right time."

The other authors of the study are Kevin J. Anchukaitis, also of Lamont; and Paul C. Huth, John E. Thompson and Shanan F. Smiley, of the Mohonk Preserve. ☼



Autumn Trail in the Mohonk Reserve, courtesy of mohonkreserve.org.

John Campanius Holm Awards

Debbie Spero has been a Coop Observer in Bethpage, TN, since 1985. Through her 24-year involvement, Debbie has been an incredibly reliable Observer. Her observations are complete and in near real time. When she has been unable to make her observations because of illness or travel, she has enlisted help to ensure as few breaks in the record as possible.

Debbie is also an active community member. As a Girl Scout leader for more than 14 years, she and her troop have helped serve underprivileged girls in the Bethpage area by meeting with them weekly. Debbie also works as a Youth Leader at Grace Baptist Church and has served as President of the Bethpage Parent Teacher Organization.



From left, Tom Johnstone, Warning Coordination Meteorologist (WCM), NWS Nashville, TN; Michael Davis, NWS Information Technology Officer (ITO); Larry Vannozzi, NWS Meteorologist in Charge (MIC); **Debbie Spero**, Holm Award Recipient; Ralph Troutman, NWS Observing Program Leader (OPL); James LaRosa, NWS Service Hydrologist (SH); and Congressman Bart Gordon, Chair of the House Science and Technology Committee.



William F. Sharp of Rutland, VT, right, received the John Campanius Holm Award from Lora Mueller, the Eastern Region Cooperative Program Manager (CPM). The award was presented at **Sharp Printing Company** in Rutland, which has been in operation since 1936, and is under its third generation of family ownership.

Helmut E. Landsburg 60 Year Awards

Pat King, center, accepted the Helmut E. Landsberg Award from NWS Tucson MIC Glen Sampson and Western Region Headquarters Data and Observing Systems Program Manager (DOSPM) Susan Nelson. The King family has been taking observations at Anvil Ranch, AZ, for the past 60 years. Photo by OPL Mic Sherwood.



50 Year Honored Institution Award



From left, **Justin Ferguson**, **Leisha Hopkins**, **James Hutchison**, **Carl Hopkins** and **Kerry Hansford** from the **Texas Department of Transportation** in Paris, TX, were presented with the 50 Year Honored Institution Award by OPL Gerry Shultz, NWS Ft. Worth, TX.

50 Year Honored Institution Awards

Larry Chew, manager of the **East Jordan, MI, Wastewater Treatment Plant**, shows the utility's 50 Year Honored Institution Award. The award was presented by CPM Denny Fruehauf, NWS Gaylord, MI.



From left, **Johnny Williams**, from **ONCOR Electric Company** in Gainesville, TX, accepts a 50 Year Honored Institution Award from HMT Troy Marshall, NWS Ft. Worth, TX. Photo by Meteorologist Victor Corbelli, NWS Ft. Worth, TX.

Zach Koziol, Park Ranger with the **U.S. Army Corps of Engineers at Birch Hill Dam**, MA, accepts a 50 Year Honored Institution Award. Zach also received a Certificate of Recognition for 5 years of dedication as a Coop Observer. Photo by CPM Kimberly Buttrick, NWS Taunton, MA.



50 Year Honored Institution Award

The **U.S. Army Corps of Engineers, Surry Mountain Lake**, NH, receives an Honored Institution Award for 50 years of service. Pictured from left are **Christie Baker**, Park Ranger, receiving a 10 Year Length of Service award; **Jim Lewis**, Project Manager, holding the 50 Year Honored Institution Award; and **Eric Chouinard**, Park Ranger. Photo taken by CPM Kimberly Buttrick, NWS Taunton, MA.



40 Year Length of Service Awards



Ray Allen of South Hero, VT, left, accepts a 40 Year Length of Service Award from OPL Gerald Macke, NWS Burlington, VT. The award was presented at Allenholm Farms, VT, followed by refreshments of hot apple pie and soft serve maple ice cream. We hope Ray gets many awards for the pie and ice cream as well as the excellent climate records.

Bill Bunting, left, MIC at NWS Fort Worth, TX, presents **Hubbard Ganze** of Powell, TX, a 40 Year Length of Service Award. Accompanying Bill to present the award were Meteorologist Tara Dudzik and HMT Troy Marshall.



40 Year Length of Service Award



Nelda F. Ray, from Youngsport, TX, was presented with a 40 Year Length of Service Award by OPL Gerry Shultz, NWS Ft. Worth, TX.

Special Service Award

Russell L. Pierson was presented a Special Service Award honoring 38 years as a Coop Observer. The award was presented to Russell in his home town of Lamar, MO, on his retirement.

The weather station at Lamar was established on December 1, 1877. It is the longest continuous cooperative station in Missouri.

Russell began taking daily weather observations on October 1, 1972. Over the course of almost 38 years he has taken and transmitted around 14,000 daily and event driven weather observations.

In his long observing career, Russell has missed only two daily observations: one due to the death of his mother and the other because a backup Observer did not reset the equipment.

Russell's dedication was honored with a Holm Award and two nominations for the Thomas Jefferson Award, the highest NWS Coop honor.

Russell's devotion to accurate and timely observations has been noted by customers outside of the Lamar community. Pat Guinan, Missouri State Climatologist, mentioned in his recommendation letter, "Two major ice storm events impacted southwestern Missouri in January and December 2007. These sleet and freezing rain events did not deter [Russell] from his daily observation. In fact, he noted on his weather observation form that he was without power during the December ice storm."

Russell stayed on the edge of technology. He was one of the first Observers to use WxCoder, an Internet-based reporting program. He also was one of the first Observers to switch to paperless reporting using the upgraded WxCoder III. Russell embraced new technology and change throughout his observing career.



Pictured from left are Bob Bonack, Central Region Coop Program Manager (CPM); **Russell Pierson**, Award Winner; and Bill Davis, MIC, NWS Springfield, MO. Also attending the presentation but not pictured were OPL Larry Dooley; Retired Data Acquisition Program Manager (DAPM) Paul Murphy; and Information Technology Officer Mike Sutton.

35 and 30 Year Length of Service Awards



Thelma Schrank, Observer at Slana, AK, received her 35 Year Service Award from Michael Kutz, Alaska Region Coop Program Specialist (CPS). Located at the top of the Wrangell-St Elias National Preserve, and surrounded by the Wrangell, the Mentasta and the Nutzotin Mountain Ranges, Slana is the gateway to Alaskan wilderness adventure. Thelma sees campers, hikers, Copper River fishermen and moose and caribou hunters along the road linking Anchorage to the Alaska-Canada Highway.



Patsy Eicks Rineer of McNeal, AZ, accepts her 30 Year Length of Service Award from NWS Tucson WCM Ken Drozd. Photo by NWS Meteorologist Greg Mollere.



William E. Houghton of Walpole, NH, receives a 30 Year Length of Service Award with his wife Nancy Ann by his side. Bill and Nancy Ann will celebrate their 52th wedding anniversary in June. Photo by CPM Kimberly Buttrick, WFO Taunton, MA.



With their mother Lorene Ellis looking on, **Christy Ellis** and **Genevieve Ellis** (not pictured), Observers at Nabesna, AK, receive their 30 Year Award from Michael Kutz, Alaska Region CPS. Nestled near the top of the Wrangell-St Elias National Preserve, part of the largest U.S. National Park, and the Mentasta and the Nutzotin Mountain Ranges, the region is true Alaskan wilderness.

30 and 25 Year Length of Service Awards



Joe Meahl, center, of Eloy, AZ, received a 30 Year Length of Service Award from NWS Tucson MIC Glen Sampson and Western Region Headquarters DOSPM Susan Nelson. Photo by OPL Mic Sherwood.



Fran and George R. Proctor, center, of Patagonia, AZ, received a 30 Year Length of Service Award from NWS Tucson MIC Glen Sampson and Western Region Headquarters DOSPM Susan Nelson. Photo by OPL Mic Sherwood.



John and Wanda Ray from Bremond, TX, show their 30 Year Length of Service Award. The award was presented by Gerry Shultz, OPL, NWS Ft. Worth, TX.



Rex Caraker of Wisdom, MT, received a 25 Year Length of Service Award. Presenting the award was NWS Great Falls OPL Jerome Saucier.

25 Year Length of Service and Honored Institution Awards



Dolores Montes of Imlay, NV, holds up her 25 Year Length of Service Award for excellence in service in the Cooperative Observing Program. OPL Rudy Cruz, NWS Reno, NV, presented the award and took the photo.



Babs Reynolds, Observer at Whittier, AK, accepts her 25 Year Length of Service Award from Michael Kutz, Alaska Region CPS. Babs is the second 25 Year Award recipient for Whittier. The town serves as one of Alaska's gateways to Prince William Sound, and is one of region's most hazardous weather locations. Photo by Kelly Harris, NWS Mobile Emergency Unit Specialist.



Bonnie and **Richard Kenyon** of McCarthy, AK, received their 25 Year Awards from CPM Jim Jones, center. Bonnie and Richard observe weather from in the largest U.S. National Park and Reserve, the Wrangell-St. Elias National Park. McCarthy is at the end of 60 plus miles of gravel roads and is the site of the historic Kennecott Copper Mine. Surrounded by four mountain ranges, as well as nine of the 16 highest mountains in the United States, the park also has the greatest concentration of glaciers on the continent. Photo by Coop/QC Specialist Michael Kutz.



Employees of the **Charlevoix, MI, Water Treatment Plant** are shown accepting a 25 Year Honored Institution Award from NWS Gaylord CPM Denny Fruehauf. Pictured from left are Plant Operator **Shelley Mayer**, Superintendent **James Caldwell**, Lead Operator **Jim Coppock** and Plant Operator **Nick Hilling**. Not pictured are Plant Operators **Chuck Meier** and **Randy Wurst**. Photo by Denny Fruehauf.

25 Year Honored Institution Awards; 20 Year Length of Service Awards



From left, **Marcus Holloway**, of the **Army Corps of Engineers at Joe Pool Lake**, TX, accepts a 25 Year Honored Institution Award from HMT Troy Marshall, NWS Ft. Worth, TX. Photo by Meteorologist Victor Corbelli, NWS Ft. Worth.

Fire Chief **Randy Redmond** accepts a 25 Year Honored Institution Award on behalf of the **Sierra Vista, AZ, Fire Department**. Dennis Baron, ESA from NWS Tucson, presented the award.



The "B" shift for the **Reno, NV, Fire Department Station # 13** in Stead, NV, accept a 25 Year Honored Institution Award for the station staff for excellent service in the Cooperative Observing Program. Presenting the award is OPL Rudy Cruz. Photo by Katie LaBelle, Meteorologist, NWS Reno, NV.



The **Greenfield Water Pollution Control Facility** staff in Greenfield, MA, accepts 20 Year Service Awards. Pictured from left are **Cliff Bassett**, Water Facilities Supervisor, **Paul Zilinski** and **Todd Little**, Plant Operators; and **Mark Holley**, Operations Supervisor. The award was presented by CPM Kim Buttrick and HMT Bill Simpson, NWS Taunton, MA.



Bonnie and **Dean Dyer**, left, of **WRWH Radio** in Cleveland, GA accept a 20 Year Length of Service Award from Frank Taylor, NWS Peachtree City, GA. Photo by Laura Griffith, Meteorologist, NWS Peachtree City, who also provides the listeners of WRWH with winter weather information, meteorologist college requirements and general weather facts.

20 Year Length of Service Awards



John "Jack" Evans, of Sunderland, VT, receives a 20 Year Length of Service Award with help from his wife, Aula. The award was presented by OPL Tim Scrom, NWS Albany, NY. Jack is an avid ham radio user and reports daily to the NWS at Albany with a summary of nearby Coop Observers. In addition, Jack reports flooding and ice on the nearby Battenkill River. Photo by Meteorologist Intern Brian Frugis.

Gary Fredrickson, Observer at Northport, MI, proudly displays his 20 Year Length of Service Award, assisted by his wife, Carol. Gary owns a cherry orchard operation at the northern tip of Michigan's Leelanau peninsula. When asked if he had any words of advice, Gary replied, "Eat more cherries!" Picture by Denny Fruehauf, CPM, NWS Gaylord, MI.



Robert Melancon, Plant Operator at the **New Bedford Water Department**, Quittacas, MA, Water Treatment Plant, accepts a 20 Year Award from CPM Kim Buttrick, NWS Taunton, MA. Photo by Robert Giard, Chief Operator at the plant.



Gene Sherfick of rural Shoals, IN, shows his 20 Year Length of Service Award. Gene started reporting precipitation and river data in 1990. He became the official Cooperative Observer in 2005, along with his son **Larry**. Presenting the award is OPL Ed Terrell, NWS Indianapolis, IN. Photo by NWS Service Hydrologist Albert Shipe.



Rose Van De Yacht, center, from Pearce-Sunsites, AZ, received a 20 Year Length of Service Award. NWS Tucson MIC Glen Sampson and Western Region Headquarters DOSPM Susan Nelson presented the award. Photo by OPL Mic Sherwood.

20 and 15 Year Length of Service Awards



Jim Andrew, center, accepted a 15 Year Length of Service Award on behalf of **Arizona Electric Power Coop, Inc.**, near Cochise, AZ. NWS Tucson MIC Glen Sampson and Western Region Headquarters DOSPM Susan Nelson presented the award. Photo by OPL Mic Sherwood.



Melinda Bradford shows her 15 Year Length of Service Award presented by Jim Fairly, Meteorologist Intern, NWS Jackson, MS. Melinda's family has been taking observations for nearly 28 years.

Helen A. Long from Cresson, TX, was presented with a 20 Year Length of Service Award by HMT Troy Marshall, NWS Ft. Worth, TX. No photo was available.



Anna Buttram of West Yellowstone, ID, received a 15 Year Length of Service Award from NWS Great Falls OPL Jerome Saucier.



Rob Deroy, left, DAPM at NWS Des Moines, IA, presents **Rex White** of Rhodes, IA, with a 15 Year Length of Service Award.



Vince Kolar, left, received a 15 Year Length of Service Award from NWS Great Falls MIC Michael Mercer.

15 and 10 Year Length of Service Awards



Alan Mackiewicz, Head Caretaker at **Shuttle Meadow Reservoir**, receives a 15 Year Length of Service Award. Al works for the city of New Britain, CT, Board of Water Commissioners. Photo by CPM Kimberly Buttrick, NWS WFO Taunton, MA.

Donald Ives is recognized for 15 years of service as an Observer in Worthington, MA. The award was presented by CPM Kim Buttrick, NWS Taunton, MA. Photo by HMT Bill Simpson.



Richard and Judy Van Meter of Bonita, TX, receive 15 Year Length of Service Awards from HMT Troy Marshall, NWS Ft. Worth, TX. Judy is the primary Observer and Richard is the alternate.



Diane Ward of Gilman, IA, receives her 15 Year Length of Service Award. Brad Fillbach, HMT, Des Moines, presented the award.



Cal Anderson and **Mal Sillars** of Buena Vista, CO, retired meteorologists, received 10 year Length of Service Awards and Special Service Awards from OPL Randall Gray, (center), NWS Pueblo, CO. Cal and Mal established and oversee an all volunteer SAWRS observation program, and helped procure and select the site for an AWOS observation platform for Buena Vista Airport. They also serve as Weather Spotters. Photo by Cathy Davis, Reporter, *Chaffee County Times*.

10 Year Length of Service Awards



Sharon Arrizubieta, Cooperative Observer near May, ID, received a 10 Year Length of Service Award. Stan Krenz, OPL, NWS Missoula, MT, presented the award.



Observer **Olin Claassen** was presented with a 10 Year Length of Service Award for providing precipitation readings for the Potwin, KS, area. Presenting the award was OPL Leon Wasinger, NWS Wichita, KS.



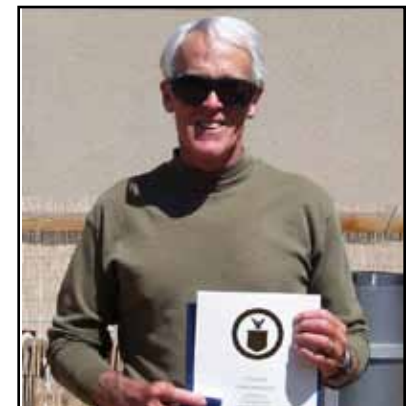
Barb and **Paul Heersink** of Monte Vista, CO, received a 10 Year Length of Service Award from Randall Gray, OPL, NWS Pueblo, CO. Barb provides temperature and precipitation observations, while Paul monitors the Fischer Porter Punch Tape Gauge. They make a wonderful team.



OPL Ed Terrell, left, NWS Indianapolis, IN, helps **Jerry Lindsey** of Franklin, IN, show his 10 Year Length of Service Award. The award was presented at Aunt Judy's restaurant during a delicious home-style cooked meal. Jerry's observing days go much further back than 10 years. Prior to retiring in the mid-1990s, he was the DAPM at NWS Indianapolis. Photo by HMT Brad Herold.



From left, James LaRosa, Service Hydrologist, Nashville, TN, presents a 10 Year Length of Service Award to **John Lawrence** of Goodlettsville, TN. Photo by OPL Ralph Troutman, NWS Nashville, TN.



Cooperative Observer **James Howells**, Cedar City, UT, receives his 10 Year Length of Service Award and pin.

10 Year Length of Service Awards



Janet McGaughey of La Junta, CO, received a 10 Year Length of Service Award from Mike Nosko, HMT, of NWS Pueblo, CO. Janet is the daughter of Observer **Layton Munson** of Sedgewick, CO, who received a 60 Year Length of Service Award before retiring in 2007. NWS Pueblo wishes Janet an even longer Coop career. Photo by Mike Nosko, HMT, WFO Pueblo.



Lois and **Bob Miller**, center, of Y-Lightning Ranch, AZ, received a 10 Year Length of Service Award from NWS Tucson MIC Glen Sampson and Western Region Headquarters DOSPM Susan Nelson. Photo by OPL Mic Sherwood.



Observer **Kevin Odle**, left, was presented a 10 Year Length of Service Award for readings for the Ellsworth, KS, area. Presenting the award was OPL Leon Wasinger, NWS Wichita, KS.



From left, OPL Mike Lammers presented a 10 Year Length of Service Award to **Dallas Saffer** at Flagler Aerial Spraying, Flagler, CO. Dallas has been interested in the weather since was a kid and is an avid flyer. Photo by HMT Christina Henderson, NWS Goodland, KS.



Dale E. Schmidt, Observer at Standish, MI, is shows his 10 Year Award. Dale took over both the farm and the Coop responsibilities when his father, Dale H. Schmidt, retired. As you can see from the photo, Dale is, in every sense of the words, "a man out standing in his field." Picture by Denny Fruehauf, CPM, WFO Gaylord.



Beverly Sensenig of Orange Springs, FL, shows her 10 Year Award. Beverly's backup Observer is her son, **Daniel Sensenig**. Photo by OPL Michael McAllister, NWS Jacksonville, FL.

10 and 5 Year Length of Service Awards



George Springston of Plainfield, VT, right, is presented a 10 Year of Service Award by Meteorology Intern Maureen Breitbach, NWS Burlington, VT. Photo by OPL Gerald Macke.



Anjanette Steer and Iditarod and Yukon Quest Dogsled Racer **Zack Steer** (not pictured) received their 10 Year Award for Sheep Mountain Lodge, AK, from Michael Kutz, Alaska Region CPS. Zack was in training for these two big races. He finished 4th in the 2010 Yukon Quest (1,000 miles from Fairbanks to Whitehorse, Canada), and 12th in the March 2010 Iditarod (1,150 miles from Anchorage to Nome). Both races are run during the coldest parts of the winter, where -40°F is often an average temperature, not counting wind chill!



Bob Steiner, left, of North Vernon, IN, received his 10 Year Award from Ed Terrell, OPL, NWS Indianapolis, IN. Bob's wife was kind enough to present an award of her own to the NWS personnel that visited—home baked bread! Photograph by HMT Brad Herold.



Cathy Dunlap, Park Ranger with the **U.S. Army Corps of Engineers at West Thompson Lake, CT**, shows her 5 Year Award. Photo by CPM Kimberly Buttrick, NWS Taunton, MA,



Brad Mueller of Greenfield, IA, receives a 5 Year Award. The award was presented by Brad Fillbach, HMT, Des Moines, IA.



Jason C. Tremblay, Project Manager with the **U.S. Army Corps of Engineers at Edward MacDowell Lake, NH**, receives a 5 Year Length of Service Award from CPM Kimberly Buttrick, WFO Taunton, MA,

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June, July, August Temperature and Precipitation Outlooks From the Climate Prediction Center

