



# The National Cooperative Observer

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Fall 2014

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## Weather Buff, Author, Father and Grandfather



From left, NWS Davenport, IA, Data Acquisition Program Manager (DAPM) **Terry Simmons**; **Dave LeShtz**, representing Iowa Congressman Office Representative **Dave Loeb sack**; NWS Davenport, IA, Meteorologist in Charge (MIC) **Steve Kuhl**; Jefferson Award recipient **Steve Gottschalk**, Iowa State Climatologist **Harry Hilliker**, Lowden Iowa Mayor **Barry Hoffmeier**; NWS Central Region Headquarters Warning Coordination Meteorologist (WCM) **Jim Keeney**; and Regional Director for U.S. Senator Chuck Grassley, **Fred Schuster**. Photo by **Mark NeuCollins**.

**Steve Gottschalk** has been an NWS Cooperative Observer for more than 30 years; however, he has recorded personal weather observations since childhood.

During the past 52 years, Steve has experienced some of the most extreme weather conditions in eastern Iowa. For example, during the Ground Hog Day Blizzard of 2011, he accurately measured snowfall, snow depth and water equivalent of snow during periods of zero visibility with winds over 35 mph.

During a flash flood in June 2013, Steve measured the rainfall event of a lifetime,

6.25 inches in less than 6 hours. During this flood event, his home was destroyed by the effects of floodwater and diesel fuel. Flooding also washed away a rain gage and forced mud and debris into his remaining weather instruments and garden. Through it all, Steve did not miss a single daily report and provided real-time updates to the NWS Davenport, IA, office on the impacts of flooding to his neighbors and the city of Lowden.

Steve is civic minded and well respected in his community. Local television and newspaper reporters often seek his data. He writes a weekly weather column for the local

Steve has been featured in *Our Iowa Magazine*, the *Quad City Times*, and the *Sun-News*. Besides his own publications, Steve was a major contributor to the book, *Superstorms: Extreme Weather in the Heart of the Heartland*.



**Steve Gottschalk** with his daughter **Hollie Appleby** and granddaughters, **Adalyn**, **Ashlyn**, and **Avrieanna**.

newspaper and has created annual weather summaries for the Lowden Historical Society since 2005.

Steve has been a guest speaker at local churches, care facilities, the Historical Society, scout groups and other civic groups within the Cedar County area.

In addition, he is an author and weather researcher. He published a Weather Almanac for Lowden and has written several books and booklets including: *The Early Winters of Cedar County, Iowa 1836-1889*, *Predicting the Weather Like Grandpa Use To*.

Steve has been featured in *Our Iowa Magazine*, the *Quad City Times*, and the *Sun-News*.

Besides his own publications, Steve was a major contributor to the book, *Superstorms: Extreme Weather in the Heart of the Heartland*.

Steve's publications and speaking events are testaments to his love of weather, his professionalism, and dedication to his community and country. Steve is also a devoted father and grandfather.

## NWS Climate History: Isaac M. Cline

**Isaac M. Cline** is most famous for his actions as MIC in Galveston, TX, during the "Great Hurricane of 1900;" however, Cline provided considerable information regarding his experiences in the Signal Service beginning in 1882. Excerpts from Isaac's book, *Storms, Floods and Sunshine* are presented below.

Washington, DC, was to me the most important place in the world. I arrived early on the morning of July 6, 1882, and got off the train at the depot where President James A. Garfield had been assassinated the previous year. The first thing I saw was the spot and marker where he had fallen and from which he was carried away to die a few days later.

Hotel accommodations were secured near the Office of the Chief Signal Office. As this was the first time I had ever been in a large city, I was afraid to wander out of sight of the hotel. Promptly on the morning of July 7, I reported to the Chief Signal Officer for the physical examination. Three other young men reported at the same time, and we were accepted for instruction in the duties of Weather Observer.

The four of us were taken in a two-horse spring wagon to Fort Myer.

Fort Myer was named for Brigadier General Albert J. Myer [see previous editions of this newsletter for Myer's story].

First Sergeant Mahaney, a veteran of the War Between the States and a fine man, took charge of us on our arrival at Fort Myer. We were fitted out with uniforms and assigned to our rooms in the barracks. Each room had four single beds. There were 30 men in our class but 5 or 6 of the preceding class were retained to help us get started.

Military training in infantry and cavalry tactics formed part of our instruction. The Signal Corps was a cavalry organization and we had lessons in horsemanship. When we went on cavalry drill, we had to groom, bridle, saddle, and care for our mounts and return them clean and nice to their stalls.

Some of the men from large cities had never ridden horseback. These men would become badly frightened when we raced around the drill grounds. Some of them would

lean forward and put their arms around the necks of the horses, incurring the wrath of Sergeant Mahaney.

Military discipline was such as would impress us with our duties. Our equipment consisted of carbines and cavalry sabres, which we were required to keep in immaculate condition. Inspection was held regularly, and if our buttons were not polished and our shoes shined, including the heels, or if a speck of rust or dirt was found on our equipment, our weekend leave was cancelled.

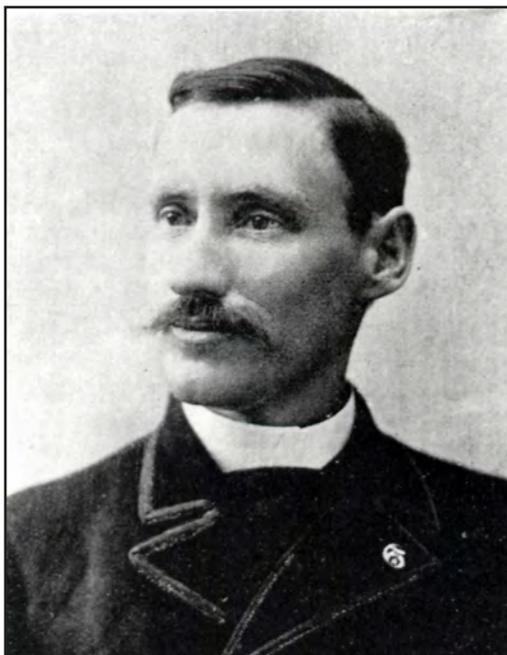
Instruction was given in military signaling with flags, torches and the heliograph, and also in the mechanism and operation of the magnetic telegraph and the telephone. We overhauled telegraph apparatus to learn what caused the click, and strung wires over which that click would be heard thousands of miles distant.

Subjects bearing on meteorology, the taking and recording of meteorological observations and the uses to which they could be applied called for study every minute of our time. Good progress in studies meant early assignment as Assistant Observer on some station, and this was our immediate objective.

The instruction was crammed into us so rapidly that many could not keep up and make the required grades. Such distinguished physicists and mathematicians as William Ferrel, T. C. Mendenhal and Cleveland Abbe were among our instructors.

Stations for observing the weather were being opened in different parts of the country. Assistants who had made good records on stations were selected to take charge of the new stations. To meet the demand for assistants at stations, a rigid examination was held. The 16 passing with the highest grades were assigned to stations and the others remained for further instruction. I passed 16<sup>th</sup> and was notified that I would be assigned to the Little Rock, Arkansas, weather station where I would have an opportunity to study the influence of weather conditions on the development and movements of the Rocky Mountain locust.

I was 21 years old when I was assigned to Little Rock. Orders were received, and the government furnished railroad transportation, as well as an allowance for en route meals. I had no sleeping accommodations so an army



Isaac Cline

blanket was swung between two seats to make a hammock. The salary and allowances for the assignment amounted to \$60 a month. Medical services were to be paid by the government when no Army Surgeon was available. In addition, there was an allowance for clothing, which amounted to about \$120 a year.

The weather observation station at Little Rock was in the Logan H. Roots Bank Building. A room in the building, near the office, was available for my use. This proved to be advantageous as no time was lost going to and from the office.

Observations were taken frequently in those days; the first at 5 am and the latest at 11 am. My detail opened and closed the work for the day. The official in charge took the observations during the day. Special weather reports were collected during the crop growing season for agricultural interests. Railroad Station Agents telegraphed reports of temperature and rainfall at 5 pm daily. A telegraph instrument in the weather office was connected with the railroad wires, and I took the reports as they came in and prepared bulletins for the commercial interests.

The Medical Department of the University of Arkansas was located at Little Rock just three blocks from the office of the weather service. It offered a 3-year course and was rated as one of the best medical schools in the

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country at that time. In my opinion, the field of medical meteorology was a field in which there had been little research; consequently, I enrolled in the medical course and received the diploma making me an M.D. in 1885.

Subsequently, orders were received directing me to proceed to Fort Concho, Texas, near San Angelo, to take charge of the station and complete the transfer of remnants of the military telegraph lines.

The assignment increased my pay to \$75 a month. Transportation was by railroad from Little Rock to Abilene and thence by Rocky Mountain Stage Coach the 100 miles from Abilene to Fort Concho. I looked over the latest Rand McNally Railroad Map and there was no Abilene to be found. Consultation with the railroad ticket agent revealed that Abilene was a new town which had grown up like a mushroom over night. It was the center of a large and rich cattle industry.

Trains did not run on regular schedules in those days, especially over newly built railways. Heavy rains had fallen over western Texas, and many of the bridges over the small streams had washed out. We were frequently delayed until repair teams could rebuild the bridges or replace a washed-out stretch of track.

Abilene came in sight late in the afternoon, and the first thing I noticed was a large congregation of cowboys with their high boots, large spurs, big hats, and with pistols in holsters hanging from their belts. The stagecoach was not due to leave until the following morning, and the thought of remaining in Abilene all night with such a fierce looking crowd of cowboys was anything but pleasant.

I could not get a room in the hotel, but the railroad agent, to whom I carried a letter of introduction, got me a room for the night over a nearby saloon. When I reached the saloon, a porter was washing blood off the sidewalk as a result of four cowboys being killed in a gun fight. My head did not rest easy that night; the tramp of cowboys and the shooting of pistols made it a night of suspense.

Morning finally came, bright with cheerful sunshine which portended a pleasant journey over the plains. The stagecoach, four in hand, pulled up at the depot. Four passengers were waiting, all bound for a through trip.

We were scheduled to reach Fort Concho late that afternoon, but a stream which under

ordinary conditions could be forded by the stagecoach, was swollen by a flood when we reached it, and we could not cross. The driver informed us that we would have to spend the night there and wait for the stagecoach which would come in from San Angelo the next morning. Then we, with our luggage, would be ferried across the stream in a skiff kept for such emergencies.

We had eaten supper at the stage station about 10 miles back, the nearest habitation, but there were no accommodations for passengers at the river side.

One of the four passengers was a woman, and we let her sleep in the coach. The rest of us slept on the ground. About midnight I was frightened by a rattlesnake to the point that I ran and jumped on top of the stagecoach and scared the woman into hysterics. She thought the Indians, who appeared in that neighborhood sometimes, had attacked us. I remained on the coach until morning.

Soon after daybreak, the stagecoach from San Angelo appeared on the opposite side of the stream. We were ferried across in the skiff and were soon on our way to Fort Concho.

Fort Concho was on the fringe of a region marked on the maps of that time as the "Great American Desert." The headquarters for that section of the United States Military Telegraph was located at Fort Concho.

Telegraph lines had connected the military posts of that region and formed part of the strategy for combatting the Indians. In addition to my duties as Weather Observer, I had to complete the transfer of the telegraph equipment to the telephone company or to U.S military posts on the Mexican border.

A cottage located near the Fort Concho reservation was occupied as the weather observation station and sleeping quarters. I took my meals at the hotel in the new town of San Angelo. Weather observations, which were telegraphed three times daily to Washington, DC, were filed with the telegraph office in San Angelo.

I subsequently was transferred from Fort Concho to Abilene, and in 1889, to Galveston, Texas. On July 1, 1891, weather services of the Signal Service were transferred to the Department of Agriculture and the name of the new agency became the Weather Bureau.

## John Campanius Holm Awards



From left, NWS Sacramento MIC **Dan Keeton**, Award recipient **Ben Borsoff**, and Observing Program Lead (OPL) **Johnnie Powell**.

Observer **Ben Borsoff**, Strawberry Valley, CA, has maintained a continuous weather record for over 30 years despite personal illnesses and other life struggles. His records have always arrived on time to the NWS Sacramento office with very few missing observations. Ben also shares his weather data with several TV stations in the Sacramento market.

An example of his extreme dedication occurred in January 1995 when despite 42.49 inches of rain and melted snow, Ben got his observations in on time. Located in the heart of the Sierra Nevada Mountains, Strawberry Valley receives several inches of rain and snow regularly. Ben also has volunteered to repair weather equipment when needed, sometimes in very inclement conditions.

Utah State Climatologist, **Dr. Robert Gillies**, left, and OPL **Gary Wicklund**, NWS Pocatello, ID, present the John Campanius Holm Award to Observer **Jane Digerness**. Also present were OPL **Steve Summy**, NWS Salt Lake City, and WCM **Vern Preston**, Pocatello, ID. Photo by Service Hydrologist **Corey Loveland**, NWS Pocatello, ID.



## John Campanius Holm Awards



**Lanette Edmondson** was presented with the John Campanius Holm Award at the Kendalia Cafe in Kendalia, TX. The award was presented by MIC **Joe Arellano**, NWS New Braunfels, TX.

The John Holm Award is one of the most prestigious awards the NWS gives to a Cooperative Observer. Lanette has been taking weather observations for Kendalia since October 1978. In attendance were many of her friends and neighbors and her husband Sam.

From left are OPL **Steve Smart**; MIC **Joe Arellano**; Holm Award Recipient **Lanette Edmondson** and Cooperative Program Manager (CPM) **Patrick McDonald**. Photo taken by Lanette's good friend, Pastor **Wayne Mathis**.

NWS Gaylord, MI, honored their first ever John Campanius Holm award winner, Beulah, MI, Observer **Hazel Evans**. Hazel took over observations after her husband, **James**, passed away in 1973. She has flawlessly performed her duties in his memory for these 41 years with the quiet dedication she is known for.

Hazel can be found outdoors most days, working in her garden and tending to her expansive field of day lilies. Winter keeps her plenty busy as well, snow blowing an average of 100 inches of snow per year and gathering in wood as her sole source of heat. Hazel is one of those special, highly intelligent and resilient ladies that epitomizes the very best of the Great Generation.



From left: OPL **Keith Berger**, Holm recipient **Hazel Evans**, and MIC **Bruce Smith**. Photo by **Scott Rozanski**, CPM, NWS Gaylord, MI.

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## John Campanius Holm Awards



Cimarron, CO, Observer **William Newberry** was presented with a John Campanius Holm Award. Receiving the award from left are **Mrs. Newberry**, William Newberry and son, **Jim Newberry**. Along with the Holm Award, William was presented the Edward H. Stoll Award for 50 years of volunteer weather observing. The awards were presented by Grand Junction, CO, DAPM **John Kyle**.

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## Edward R. Stoll 50 Year Award



**Mike Davis** of Waycross, GA, shows two NWS awards: the Edward H. Stoll Award for 50 years of family service and a 25 Year Individual Length of Service Award. Mike's time-in-service actually exceeds 25 years. Before he became the official Observer, he helped his future father-in-law take the Satilla River gauge readings as well as those for temperature and rainfall. Presentation and photo by NWS Jacksonville, FL, OPL **Mike McAllister**.

## 50 Year Honored Institution Awards



Staff at the **Grinnell Wastewater Treatment Plant** in Grinnell, IA, show their 50 Year Honored Institution Award. HMT **Brad Fillbach**, right, NWS Des Moines, IA, presented the award to staff members **Jan Anderson** and **Rick Graves**.

From left, **Todd Pyle**, and **Gary Perine**, staff at **Denver Water** accepted a **50 Year** Honored Institution Award on behalf of the water company in Lake George, CO. Presentation by OPL **Jim Kalina**, NWS Boulder, CO.



**Toni Wood**, right, Lake Superintendent at Glen Elder Lake in Kansas accepted a 50 Year Honored Institution Award for the **U.S. Bureau of Reclamation** employees from DAPM **Marla K. Doxey**, left, NWS Hastings, NE. Since 1964, this site has measured more than 1,200 inches of rainfall. One of the wettest years was 1993 with 47.15 inches. One of the driest years was 1988 when only 16.59 inches of precipitation was observed.



## 45 Year Dick Hagemeyer Service Award



From left, Administrative Support Assistant (ASA) **Rose Tibbitts**, NWS Spokane; **Sean Wink**, Chief of the Systems and Facilities Division, NWS Western Region Headquarters; **Alice and William Hofmann**, Rosalia, WA; and **Bob Tobin**, Lead Forecaster. Photo by: OPL **Mark Turner**. Bill and Alice took over the recording duties from neighbors **Dorothy and Rudolph Rosenzweig** in October 1969. The Rosalia site was established in 1892 by Observer **Hans Mumm**.

**Gilbert Koch**, Observer near Eustis, NE, shows his Dick Hagemeyer Award presented for 45 years of service. Gilbert has had a stellar career. He received the John Companius Holm Award in 2000, which is given to no more than 25 Observers in the nation each year. In 2009, Gilbert also received the Thomas Jefferson Award, the most prestigious award NWS presents. The award was presented by OPL **Steve Carmel**, NWS North Platte, NE.



WCM **Tanja Fransen**, NWS Glasgow, MT, presents a Dick Hagemeyer Award for 45 years of service to **Donald and Jeanie (not pictured) Smith**. Donald and Jeanie take and record daily maximum and minimum temperatures, precipitation, snowfall and snow depth at their weather station near Wibaux, MT. Photo and presentation by OPL **Matt Moorman**.

## 40 and 35 Year Length of Service Awards



From left, **Kenneth Fernald** of Greenland, NH, accepts a 40 Year Length of Service Award from MIC **Hendricus Lulofs**, NWS Gray, ME. Photo by OPL **Nikki Becker**, NWS Gray, ME.

From left, MIC **Larry Ruthi**, NWS Dodge City, KS, presents a 40 Year Length of Service Award to **Brenda and David Van Meter** of rural Pawnee County near Sanford, KS. The site goes back to April 1954 when Brenda's mother, Thelma Darnell, started it as a river reporting station. Brenda became the primary observer in 1973, with her husband David as her backup. Photo by OPL **Jesse Lee**, NWS Dodge City, KS.



**Richard Bly**, Observer at Breckenridge, CO, shows his 35 Year Length of Service Award. OPL **Jim Kalina**, NWS Boulder, CO made the presentation.

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## 35 Year Length of Service Awards



The cooperative station at Fiddletown, CA, has been a long time, high-profile station. When the time was approaching to give Observer **Leo Dexter** his 35 Year Length of Service Award, NWS Sacramento tried to contact him. His wife, Katherine, told us he lost his long battle with health issues and passed away. Katherine said she wanted to continue doing the observations because she wanted to keep his legacy going. MIC **Dan Keeton** presented Leo's posthumous 35 Year Length of Service to **Katherine Dexter**. Photo by and OPL **Johnnie Powell**.

**Tim and Diane Ehman** were presented with a 35 Year Length of Service Award for their dedication to taking and recording weather observations for the NWS Glasgow, MT, office. Tim and Diane take and record daily maximum and minimum temperatures, precipitation, snowfall and snow depth at their station north of Mildred, MT. Presenting the award was OPL **Matt Moorman**.



**Eva Oxarart** was presented with a 35 Year Length of Service Award from NWS Glasgow, MT. Eva has been responsible for taking daily weather observations at and near her home south of Malta, MT. She records maximum and minimum temperatures, daily precipitation, snowfall and snow depth. Eva's station was established in **1939** near the current location and was shared by several neighbors before Eva took over the station in 1979. The station boasts almost continuous weather records for 75 years. Presenting the award is OPL **Matt Moorman**. Photo by MIC **Don Britton**.



## 30 and 25 Year Length of Service Awards



**Cindy Kimsey** at Calhoun Falls, SC, was presented a 30 Year Length of Service Award by OPL **Chris Horne**, NWS Greenville-Spartanburg, SC. Cindy was a Holm Award recipient in 2011. Photo by HMT **Doug Outlaw**.



**Brian Waldstein** of Sioux Rapids, IA, shows his 30 Year Length of Service Award. Official weather observations of rain, snow, and temperature data began in Sioux Rapids, IA, in 1941. The award was presented by OPL **Brad Adams**, NWS Sioux Falls, SD. Brian has been a leader in forging new and innovative ways to enhance farming methods in the area. He also loves being a grandfather and enjoys outdoor activities such as hunting and fishing.



NWS honored **Karen Brown** and her family in De Smet, SD, with a 25 Year Length of Service Award. Pictured from left are Karen, her father **Earl**, brother **Lee** and mother **Donna Stewart**. Karen is a native of De Smet and enjoys bike riding through the countryside. She also has a passion for cooking. The award was presented by HMT **Tim Masters**, NWS Sioux Falls, SD.



From left, **Paul Dalrymple** of Port Clyde, ME, received a 25 Year Length of Service Award from MIC **Hendricus Lulofs**, NWS Gray, ME. Photo by OPL **Nikki Becker**, NWS Gray, ME.

## 25 Year Length of Service and Honored Institution Awards



**Marion Catalano** of Live Oak, FL, received a 25 Year Length of Service Award. The Live Oak Coop station is hosted by **WQHL Radio Station**. Marion is the primary observer. Presentation and photo by NWS Jacksonville, FL, OPL **Mike McAllister**.



**Nicky Lenz** of Boyer, IA, receives her 25 Year Length of Service Award. Presenting the award was HMT **Brad Fillbach**, NWS Des Moines, IA.

The **Kennebunkport Waste Water Treatment Plant** in Maine accepted a 25 Year Honored Institutional Length of Service Award from NWS Grey, ME. No picture taken.



**Eugene McAlexander** of Beaconsfield, IA, receives his 25 Year Length of Service Award. Eugene recently celebrated his 90<sup>th</sup> birthday. He also recently celebrated his 61<sup>st</sup> wedding anniversary with his wife, **Esther**. Presenting the award was HMT **Brad Fillbach**, NWS Des Moines, IA.



From left, OPL **Brian Warren**, NWS Goodland, KS, presents a 25 Year Length of Service Award to **Herbert "Herby" F. Queen** of Grainfield, KS. Herby reports precipitation and snowfall data. Photo by NWS ASA **Joy Hayden**.

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



The **Ankeny Wastewater Treatment Plant** receives a 25 Year Honored Institution Award from HMT **Brad Fillbach**, NWS Des Moines, IA. From left are plant staff **Rick Butler**, **Matt Buttz** and **Larry Metcalf**.



From left, CPM **Michael Scott**, NWS Dodge City, KS, presents a 25 Year Honored Institution Award to USDA Forest Service District Ranger **Lance Brown**, center, and Resource Clerk/Visitor Information Specialist **Shari Butler** of the **Cimarron National Grassland** in Elkhart, KS. Photo by OPL **Jesse Lee**. This station dates back to **1918**. The USDA Forest Service took over the observation duties from **Cathy Corpening** in 1989.



A 20 Year Length of Service Award was presented to **Catherine L Gates**, an Observer in Boulder, CO. OPL **Jim Kalina**, NWS Boulder, CO, made the presentation and took the photo.



**Mark Hoover** of Eldora, IA, received his 20 Year Length of Service Award presented by DAPM **Rob Deroy**, NWS Des Moines, IA.

## 20 and 15 Year Length of Service Awards



**Brad Hinkle** of Liberal, KS, was presented with a 20 Year Length of Service Award by OPL **Jesse Lee**, NWS Dodge City KS. Brad records temperature and precipitation data, including snowfall. The weather station was started at Liberal back in **1892** by **Thomas J. Smith**. Brad took the site over from Observer **Ralph Miller**.



**Ron Pierce**, Observer at Moab, UT, receives his 20 Year Length of Service Award. Photo and presentation by DAPM **John Kyle** NWS Grand Junction, CO.



**Delbert Stanton**, Observer at Brusett, MT, received a 15 Year Length of Service Award. Delbert's site goes back to **1940**. He takes daily precipitation, snowfall and snow depth reports for NWS Glasgow, MT. Photo and award by OPL **Matt Moorman**.



From left, OPL **Keith Berger** NWS Gaylord, MI, presents **Stan Darmofal** with a 15 Year Length of Service Award. Stan has been taking observations at the Harrisville, MI, since 1997. Photo by CPM **Scott Rozanski**.



**Brett Carlson** an Observer in rural Rush County near Bison, KS, was presented with a 15 Year Length of Service Award by OPL **Jesse Lee**, NWS Dodge City, KS. The weather station was begun by **Dr. W.M. Goodwin** at LaCrosse back in **1890**. The site was moved to the Bison area in 1923 when **William Crotinger** took it over.

## 15 Year Length of Service Awards



**Marguerite Gosbee** of Harmony, ME, accepted a 15 Year Length of Service Award. Photo by OPL **Nikki Becker**, NWS Gray, ME.



NWS presented **Mark Gubbins** of Iroquois, SD with a 15 Year Length of Service Award. Mark has always been fascinated by the weather and is an avid photographer in his spare time. His prized photo is a picture of the Manchester tornado on June 24, 2003. The award was presented by HMT **Tim Masters**, NWS Sioux Falls, SD.



NWS honored **Gary Lambert** of Mitchell, SD, with a 15 Year Length of Service Award. Gary is a retired Air Force veteran who served in the electronics field. Gary has a zest for collecting weather data and keeps his own database of weather data at his residence to compare with the local airport data. The award was presented by HMT **Tim Masters**, NWS Sioux Falls, SD.



From left, Meteorology Intern **Tim Gross**, NWS Davenport, IA, present a 15 Year Length of Service Award to **Scott Sample**, Observer in Muscatine, IA. Photo by HMT **Tom Olsen**.



**Randy Schwartz** of Cape Neddick, ME, accepted a 15 Year Length of Service Award. Photo and presentation by OPL **Nikki Becker**, NWS Gray, ME.



**Phil Webber** shows his 15 Year Length of Service Award. Phil has been taking observations at the Wellston, MI, since 1999. Photo and presentation by CPM **Scott Rozanski**, NWS Gaylord, MI.

## 10 Year Length of Service Awards



**Bruce Bourque** shows his 10 Year Length of Service Award for taking observations at Atlanta, MI. Bruce is a public school teacher and in his spare time likes geocaching. Photo by CPM **Scott Rozanski**, NWS Gaylord, MI.



**Ray Banister** was presented with a 10 Year Length of Service Award from NWS Glasgow, MT, for his service in northwest Carlye, MT. Photo and presentation by OPL **Matt Moorman**.



**Gerald Hume** of Turner, ME, accepted a 10 Year Length of Service Award. Photo and presentation by OPL **Nikki Becker**, NWS Gray, ME.

**Carmelita Miranda** and her husband, **Charles Morris**, accepted their 10 Year Length of Service Awards. The award was presented by OPL **Bonnie Bartling**, NWS-Oxnard/Los Angeles. They requested no photo.



Observer **Leroy Koopman** received a 10 Year Length of Service Award. Leroy is a volunteer firefighter in Colton and enjoys time with his grandchildren. The award was presented by HMT **Tim Masters**, NWS Sioux Falls, SD.



**Judy Murray** accepts a 10 Year Length of Service Award. Judy and her husband **Dennis** take observations at Frankfort, MI, just south of Michigan's only national park, the Sleeping Bear Dunes National Lakeshore. Photo by CPM **Scott Rozanski**, Gaylord MI.



**Billy Wayne Sellers** of Baxley, GA, shows his 10 Year Length of Service Award. Presentation and photo by NWS Jacksonville, FL, OPL **Mike McAllister**.

**The National  
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# November, December, January Temperature and Precipitation Outlooks From the Climate Prediction Center

