

The National Cooperative Observer



Winter 1999

Eastern Region

Southern Region

Central Region



Western Region

Alaska Region

Pacific Region

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

THE NATIONAL COOPERATIVE OBSERVER

NATIONAL CLIMATIC DATA CENTER

NATIONAL COOPERATIVE OBSERVER is prepared, funded and distributed by the National Oceanic and Atmospheric Administration (NOAA) and is provided free of charge to Cooperative Observers.

Photographs are taken by NWS employees unless otherwise noted. Narratives are prepared and submitted by the NWS. Narratives are edited only for grammatical errors, space limitations and consistency.

The Cooperative Observers Climatological Network was created in 1890. The program is currently administered by the National Weather Service, a line of the National Oceanic and Atmospheric Administration, an agency within the Department of Commerce. One of the responsibilities of the NWS is to take meteorological observations which are used to record the climate condition in the United States. The National Weather Service relies heavily on a vast network of cooperative observer volunteers to achieve this objective.

The NWS determines where observations are needed and furnishes standard metrological instruments to individuals who volunteer their time to take a record daily weather observations of the weather. Currently, there are about 8000 published volunteer observation stations operated by individuals, many are maintained by institutions and commercial firms (universities, utility companies, etc.). All cooperative observers submit a monthly report summarizing daily observations. These contributions to the climate record of the United States are invaluable.

The publications staff of NATIONAL COOPERATIVE OBSERVER welcomes your help in acquiring stories concerning experiences by cooperative observers and significant weather events. We request our observers to mail such items to:

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Asheville, NC 28801-5001

Any such items received by the editor will be for use in the NATIONAL COOPERATIVE OBSERVER only. Any other use will be with permission of the owner of said items. Materials submitted will be returned if requested.

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COVER PHOTO

A celebration was held with *cake and ice cream* when the staff at **MYSTIC LAKE, MT** was presented a **75 Year Institutional Award**. The Cooperative Weather Station at the Mystic Lake Power Plant was established in 1924. The award was presented to Plant Foreman by Vickie Nadolski, Western Regional Director of the National Weather Service. In the photo: William Rhoads, Manager Montana Power Company, Bob Johnson, Cooperative Program Manager Billings Weather Office, Steve Kuhl, Warning Coordination Meteorologist Billings Weather Office, Dale Robinson, Plant Foreman, Danny Graves, Data Acquisition Program Manager Billings Weather Office, Vickie Nadolski, Regional Director Salt Lake City, Scott Hursch, Plant Operator, and Bob Diaz, Meteorologist In Charge of the National Weather Service Office in Billings. Also attending was John Pulasky, Weathercaster for the Northern Ag. Network.

CENTRAL REGION

JOHN CAMPANIOUS HOLM AWARDS



In honor of a 51 year tradition of excellence of weather reporting and service to the community. Storm Lake, IA radio station KAYL General Manager Brad Sargent and Observer John Waters accept the prestigious Holm Award from Sioux Falls, SD MIC Greg Harmon. The award was presented at KAYL studios in Storm Lake, IA in the presence of KAYL staff and NWS Sioux Falls DAPM Don Morin, who nominated the station for the award. Pictured: (L-R) Sioux Falls, SD MIC Greg Harmon, COOP Observer John Waters, and KAYL General Manager Brad Sargent. (Photo by...DAPM Don Morin, NWS, Sioux Falls, SD)



Mr. Alfred Bolte of Bowman, North Dakota is awarded the **Holm award** by Len Peterson, DAPM, Bismarck, ND.

CENTRAL REGION

JOHN CAMPANIOUS HOLM AWARDS



At the **Holm award** winning station Storm Lake 2E, IA, **Sandy Robinson** plays a key roll on the weather observing team. Sandy dutifully records the data and sends monthly reports to the National Weather Service in Sioux Falls, SD (*Photo by...DAPM Don Morin, NWS, Sioux Falls, SD*)



Herman Korthals of Platte, SD has kept the weather watch going for 42 years. Here he is pictured accepting his Holm Award from Sioux Falls Meteorologist in Charge Greg Harmon (right) and Data Acquisition Program Manager Don Morin (left). Family and friends gathered at the offices of the Platte Enterprise to help Mr. Korthals celebrate.

CENTRAL REGION

“Ruby Stufft” / 70 Year Length of Service Award



On March 8, 2000, members of the National Weather Service, the Kortes family, and friends gathered in Medicine Bow, Wyoming to present **Mr. John Kortes** with the “**Ruby Stufft**” award for **70 years of voluntary service** to this nation. Mr. Lester Stufft, son of Ruby, for which the award is named, was also in attendance to present the award to only the fourth person, other than his mother to receive it. (Pictured from left to right are: Mr. John (Jack) A. May, Acting Director of the National Weather Service’s Central Region, Lester Stufft (son of Ruby Stufft), John Kortes, and William (Bill) T. Parker).

CENTRAL REGION

Edward H. Stoll Awards



The NWS Northern Indiana office presented the **Edward H. Stoll award** to **Ray Burkholder** from Pandora, Ohio. Mr. Burkholder a community leader, has reported, daily readings at midnight for **50 years** to the NWS. Pictured is, (from left) Barbara Barker from Cong. Gilmor's office, Mrs. Burkholder, Ray Burkholder, Michael Sabones, MIC IWX, Terry Click, DAPM IWX. The award presentation was attended by seven of his nine children and their spouses, local dignitaries and the media. Ray has previously been the recipient of other awards such as the Jefferson and Holm award.



Mr Gene Bartram (left) observer, Versailles, MO was presented the **Edward H. Stoll Award** by Paul A. Murphy, DAPM (right) and Larry Dooley, HT, Springfield, MO. This award was presented to Mr. Bartram with his fellow members of the Lions Club in attendance.

CENTRAL REGION

50 Year Length of Service and Edward H. Stoll Awards



Pictured is Herbert and Clarice Clark, Cooperative Observers from Powers Lake, ND with their 50 Year Length of Service and Edward H. Stoll Awards. This husband and wife team have been excellent daily observers of temperatures and precipitation at their NW North Dakota station. Photo and presentation by Vern Roller, HMT/CPM WFO Bismarck ND. 5/15/2000

CENTRAL REGION

40 Year Length of Service Award



The National Weather Service in Grand Junction, CO, was honored to present **Mr. H. Ballard Harris** with a **40 year Length Of Service award**. Mr. Harris has been taking exceptional temperature and precipitation measurements since November 18th, 1959, most of which has occurred on his rural residence of eastern Utah, a scenic location overlooking the Colorado river.



Patsy Fitch, Atlanta 2 WNW NE, receives her **40 Year Length of Service Award**. In photo from left: Brian Montgomery, Patsy and Don Fitch, and Steve Schurr.



Mr. and Mrs. Warren Ronning, observers, Rock Springs, MT were presented their **40 Year Length of Service Award and pin** by Bob Diaz, Meteorologist in Charge, and Danny Graves, Data Acquisition Program Manager of the National Weather Service Forecast Office in Billings. They also received a letter from John J. Kelly, Jr., Assistant Administrator for Weather Services for their achievement. A banquet was held in their honor attended by their children, grand children, and close friends. Pictured from the left, Bob Diaz, Warren Ronning, Elizabeth Ronning, and Danny Graves. *Photo taken by CMP Bob Johnson.*

CENTRAL REGION

35 Year Length of Service Awards



The National Weather Service in Grand Junction, CO was honored to present **MR. WILLIAM H. NEWBERRY** with a **35-Year Length-of-Service Award**. Mr. Newberry (left), has been taking precipitation measurements these last 35 years at his home and store in CIMARRON, CO. The award was presented by Becky T. Klenk(right), Cooperative Program Manager. Picture taken by Brian Avery, Service Hydrologist.



Frederick Clair of Stryker, OH with his **35 year of service award** presented by Michael Hayes of NWS Northern Indiana. Mr. Clair reports precipitation and river levels.



After dinner at the Buffalo Jump Restaurant in Livingston Montana **Mr. and Mrs. Jack Davis**, observers at Livingston 12 S., MT were presented their **35-Year Length of Service Award and Pin**. Pictured from the left are Bob Johnson, Cooperative Program Manager, Lorene Davis, Jack Davis and Bob Diaz, Meteorologist in Charge of the NWSFO in Billings. *Photo taken by Danny Graves, Data Acquisition Program Manager in Billings.*

30 Year Length of Service Awards



MRS. MARIE E. MCCRACKEN, observer, FLEMINGTON, MO, was presented with a **30-YEAR LENGTH-OF-SERVICE AWARD** by Gene Hatch.

CENTRAL REGION

25 Year Length of Service Awards



Pictured is Cooperative Weather and River Observer, **Barbara Hankel**, from Minot 4 NW, ND with her recent **30 Year Length of Service Award**. Barbara and her husband Lloyd help the National Weather Service keep an eye on the Souris River near Minot, ND for runoff and flooding purposes. Picture and presentation by Vern Roller, HMT/CPM WFO Bismarck ND.

CENTRAL REGION

20 Year Length of Service Awards



Cooperative observer **Suzanne Platt**, Kim 15NNW, Colorado receives a **20 Year Length of Service Award**. Supervising office is WFO Pueblo, CO.



Pictured is **Mr. Don Martel**, Cooperative Observer and U.S. Customs Officer from Ambrose 3N, ND with his recent **20 Year Length of Service Award**. The customs officials at Ambrose have been taking observations for 45 years. Some past observers including Mr. Martel are Morris Benson, Park Montgomery, and another current observer, Ken Grose. *Photo and presentation by Vern Roller, HMT/CPM WFO Bismarck ND.*



Pictured is **Judy and Spencer Legaard**, Cooperative Observers from Fortuna IW, ND with their recent **20 Year Length of Service Award**. This husband and wife team take daily temperature and precipitation readings Fortuna IW, ND in the northwest corner of North Dakota. *Photo and presentation by Vern Roller, HMT/CPM WFO Bismarck ND.*



Mr. Robert Peterson (right) was presented a **15 Year Length of Service Award**. Presenting the award is Steve Teachout (left) HMT Des Moines, Iowa.



KZZJ Radio in Rugby, ND received a **20 Year Length of Service Award** on August 29, 2000. Accepting the award was staffer **Helen Trotter**. KZZJ has been the cooperative weather observer for Rugby since July 28, 1980. Presenting the award was Sandra Wiche, CPM, Bismarck, ND. Site #32-7704-2. Central Region.

CENTRAL REGION

15 Year Length of Service Awards



Pictured is **Mr. Elwyn Nichols**, Cooperative Observer at Reeder, ND with his recent **15 Year Length of Service Award**. Elwyn takes daily precipitation readings at his station in southwest ND. Photo and presentation by Vern Roller, HMT/CPM WFO Bismarck, ND



Mr. Robert Peterson (right) was presented a **15 Year Length of Service Award**. Presenting the award is Steve Teachout (left) HMT Des Moines, Iowa.

CENTRAL REGION

10 Year Length of Service Awards



Pictured is Cooperative Observer from McGregor ND, **Mr. Gene Skalicky**, with his recent **10 Year Length of Service Award**. Gene helps the National Weather Service keep track of the precipitation at his station in NW North Dakota. *Picture and presentation by Vern Roller, HMT/CPM. WFO Bismarck ND.*



Pictured is **Mr. Rober A. Kessel**, Cooperative Observer at Fairfield, ND with his recent **10 Year Length of Service Award**. Roger and his wife Lynette take daily temperature and precipitation observations in western ND. *Picture and presentation by Vern Roller, HMT/CPM. WFO Bismarck ND.*



Rollie Deering (left) and **Ward Deering** (right) Yuma 10 NW, Colorado were presented the **10 Year Service Award** by Carl Burroughs (right) HMT and Frank Benton (not pictured) HMT WFO Boulder, Colorado.



Pictured at left is **Naomi Gajewski** and at right is **Mervin Gajewski**. The Gajewski family recently received their **10 Year Length of Service Award** at their Alexander 4NNW weather station in NW North Dakota. *Picture and presentation by Vern Roller, HMT/CPM. WFO Bismarck ND.*



Pictured is **Nicki Lenz** and friend of Boyer Iowa. Nicki was the recipient of a **10 year Length-of-Service Award**.

CENTRAL REGION

Special Service Awards



Bob Florian, center, was presented a **Special Service Award** for taking continuous weather observations since January 1954 for the USDA Central Plains Field research Station Akron 4E, Colorado. Presentation made by Carl Burroughs (left) HMT and Byron Louis (right) DAPM, WFO Boulder, Colorado.



Jeremy Crume (L) Burlington IN. is presented a **special service award** by Roger Kenyon (HMT IND) Jeremy resigned his cooperative weather observer position to pursue a career as a pilot for American Eagle Airlines.

EASTERN REGION

50 Year Length of Service Award



Mr. Sherman McGuire, observer, DE, accepted a **50 Year Length of Service Award**. The award was presented by Rick Curry, HMT.

30 Year Length of Service Award



Mr. Curtis E. Schockley, observer, Snow Hill, MD accepted his **30 Year Length of Service Award**. The award was presented by Rick Curry, HMT.

EASTERN REGION

25 Year Length of Service Awards



William Traugh, (right) observer, Nelsonville, Ohio received a **25 Year Length of Service Award**. The award was presented by Randall Hatfield, (left) CPM WSFO, Charleston, WV.



Mr. Thomas A. Pruitt, (left) observer, accepted a **25 Year Length of Service Award**. The award was presented by Rick Curry, (right) CPM/HMT aboard the supply boat "My Tangier" on a return trip to the island.



Yvonne and Edd Wolfe, observers from station WAR 1NE received a **25 Year Length of Service Award**. The award was presented by Marshall Monroe and Randall Hatfield, WFO, Charleston, WV.

EASTERN REGION

15 Year Length of Service Awards



Michael and Joeng Divney of Colebrook, NH received a **15 Year Length of Service Award** presented by James F. Brown, Cooperative Program Focal Point in the state of New Hampshire, for the National Weather Service in Gray, Maine. Pictured from left to right are Michael Divney and James F. Brown.



Ronald F. Packard, observer, Rockland, Maine accepted his **15 Year Length of Service Award**, presented by James F. Brown, Cooperative Program Focal Point in the state of New Hampshire, for the National Weather Service in Gray, Maine.

10 Year Length of Service Awards



Ronald E. Taylor, of Kennebunkport, Maine received a **10 Year Length of Service Award** for service from *both* Waterboro and Kennebunkport. Presenting the two awards was James F. Brown, Cooperative Program Focal Point in the state of New Hampshire, for the National Weather Service in Gray, Maine. Pictured from left to right are James F. Brown and Ronald E. Taylor.



Jerry A. Fowler, observer, Elk Horn received a **10 Year Length of Service Award**, presented by Marshall Monroe and Randall Hatfield, CPM Charleston, WV. Accepting the award for Mr. Fowler was Becky Barker.



Mr. Ernel Garland, observer in Rochester, NH accepted his **10 Year Length of Service Award**. Presenting the award was James F. Brown, Cooperative Program Focal Point in NH and ME. Pictured from left are James F. Brown and Mr. Garland.



Paul Dalrymple, observer, Port Clyde, ME received a **10 Year Length of Service Award**, presented by James F. Brown, Cooperative Program Focal Point in New Hampshire and Maine, for the NWS in Gray, ME. Pictured from left are James F. Brown and Paul Dalrymple.

SOUTHERN REGION

JOHN CAMPANIOUS HOLM AWARD



Presentation made by (L-R): Bill Murrell(MET), Lee Harrison(MIC), Robert R.Gentry(Recipient), Marion Kuykendall(DAPM), and Steve Griffin(HMT) from Shreveport, LA NWFO.

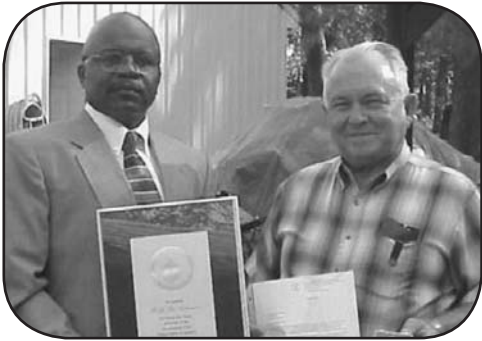
50 Year Length of Service Award



Award presented to **Leon Sanders, Jr** from Marion Kuykendall(DAPM) and Cody Lindsey(MET-not pictured) from Shreveport, LA NWFO.

SOUTHERN REGION

25 Year Length of Service Awards



Presentation made by Lee Harrison-MIC and Marion Kuykendall-DAPM(not pictured) from Shreveport, LA NWFO to **Mr. Billy Joe Metteauer**.



Mr. & Mrs. L. R. Harrison, observers, DeKalb 12 NNW, TX receive their **25 Year Length of Service Award**. Presenting the award is Marion Kuykendall-DAPM (not pictured) from Shreveport, LA

20 Year Length of Service Awards



20 year Length of Service Award for **Idolene M. Adams**; observer at Midway, Alabama (01-5397). BMX (Birmingham, AL) Pictured: Idolene M. Adams (L) and Mr. Donald E. Smith; HMT WFO BMX (R). Award was presented 11/10/99.

SOUTHERN REGION

15 Year Length of Service Awards



Rev. Kermis (Danny) Thompson, observer in Hope, 3 NE, AR accepted a **15 Year Length of Service Award** presented by Marion Kuykendall-DAPM (not pictured) from Shreveport, LA. Pictured are Mrs. Mary Thompson, Danny's wife, and recipient Rev. Kermis (Danny) Thompson.



At left is Mr. William J. Thacher, Cooperative Observer working for the City of Inverness, shown here accepting the **15 Year Cooperative Observer Award**. Presenting the award, at right, is Colleen Rhea, Data Acquisition Program Manager at NWSO TBW.



At left is Mr. William J. Thacher, Cooperative Observer working for the City of Inverness, shown here accepting the **15 Year Cooperative Observer Award**. Presenting the award, at right, is Colleen Rhea, Data Acquisition Program Manager at NWSO TBW.

WESTERN REGION

75 Year Length of Service Award



A celebration was held with *cake and ice cream* when the staff at **MYSTIC LAKE, MT** was presented a **75 Year Institutional Award**. The Cooperative Weather Station at the Mystic Lake Power Plant was established in 1924. The award was presented to Plant Foreman by Vickie Nadolski, Western Regional Director of the National Weather Service. In the photo: William Rhoads, Manager Montana Power Company, Bob Johnson, Cooperative Program Manager Billings Weather Office, Steve Kuhl, Warning Coordination Meteorologist Billings Weather Office, Dale Robinson, Plant Foreman, Danny Graves, Data Acquisition Program Manager Billings Weather Office, Vickie Nadolski, Regional Director Salt Lake City, Scott Hursch, Plant Operator, and Bob Diaz, Meteorologist In Charge of the National Weather Service Office in Billings. Also attending was John Pulasky, Weathercaster for the Northern Ag. Network.

WESTERN REGION

35 Year Length of Service Awards



At a dinner held in their honor **Mr. and Mrs. Charles Meyers**, observers, Judith Gap 13 E., MT were presented their **35-Year Length of Service Award and Pin**. Pictured from the left are Bob Diaz, Meteorologist in Charge of the NWSFO in Billings, Bob Johnson, CPM in Billings, Grace Meyers, Danny Graves, DAPM in Billings, and Charles Meyers.



After dinner at the Buffalo Jump Restaurant in Livingston Montana **Mr. and Mrs. Jack Davis**, observers at Livingston 12 S., MT were presented their **35-Year Length of Service Award and Pin**. Pictured from the left are Bob Johnson, Cooperative Program Manager, Lorene Davis, Jack Davis and Bob Diaz, Meteorologist in Charge of the NWSFO in Billings. *Photo taken by Danny Graves, Data Acquisition Program Manager in Billings.*

20 Year Length of Service Awards



A **20 Year Length of Service Award** was presented to **Patsy Eicks Rineer** (right) observer, McNeal, Arizona, by Paul Crimmins (left), Data Acquisition Program Manager and Glen Sampson, Meteorologist in Charge, WFO Tucson, AZ.



Pictured is **Clint Dietz**, Cooperative Observer from Plevna, Montana with his recent **20 Year Length of Service Award and pin**. Mr Dietz accepts his award from Bob Johnson, CMP Billings, MT.



Mr. Wallace (Wally) K. Broder-son, observer, Ryegate 2E, Montana receives his **20 Year Length of Service Award**. Presenting the award is Bob Johnson, Cooperative Program Manager, National Weather Service Forecast Office, Billings, MT.

WESTERN REGION



OF SPECIAL INTEREST TO OUR READERS

Weather Station in Obarsia Lotrului County, Valcea Romania
Pictured are the observer and friend

Submitted by: George L. Glotzbach
Santa Fe, NM

WESTERN REGION

15 Year Length of Service Awards



Mrs. Dorothy Jean Stanley, observer, Volbort, MT was presented her **15 Year Length of Service Award**. Presenting the award is Bob Johnson CPM Billings, MT. The photo is taken in front of the store and post office in Volborg where Jean is the Postmaster. The store was established in 1913.



A little celebration with cake and ice cream was in order when **Mr. Ronald Belcher**, retiring observer, Lavina, MT was presented his **15 Year Length of Service Award**. Pictured from the left is Danny Graves, Data Acquisition Program Manager and Bob Diaz, Meteorologist in Charge of the National Weather Forecast Office in Billings, Mr. Belcher, John Pulasky, Weather Caster for the Northern Ag Network, and Steve Habener, new observer at Lavina. *Photo by Bob Johnson CPM.*

10 Year Length of Service Awards



Mrs. Jacquelyn Hudecek, Cooperative Observer at Springdale, MT was presented her **10 Year Length of Service Award**. *Picture and presentation by Bob Johnson, CPM Billings, Montana.*

These and other publications are available from the National Climatic Data Center

Hourly Precipitation Data

This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundredths at local standard time. **HPD** includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

Climatological Data

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July through June.

The Annual issue contains monthly and annual averages of temperature, precipitation, temperature extremes, freeze data, soil temperatures, evaporation, and a recap of monthly cooling degree days.

Storm Data

Monthly issues contain a chronological listing, by states, of occurrences of storms and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage. An "Outstanding storms of the month" section highlights severe weather events with photographs, illustrations, and narratives. The December issue includes annual tornado, lightning, flash flood, and tropical cyclone summaries.

Monthly Climatic Data for the World

This publication contains monthly means for temperature, pressure, precipitation, vapor pressure, and sunshine for approximately 2,000 surface data collection stations worldwide and monthly mean upper air temperatures, dew point depressions, and wind velocities for approximately 500 observing sites.

Local Climatological Data

LCD publications summarize temperature, relative humidity, precipitation, cloudiness, wind speed and direction observations for several hundred cities in the U.S. and its territories. Each monthly publication also contains the 3 hourly weather observations for that month and an hourly summary of precipitation. Annual **LCD** publications contain a summary of the past calendar year as well as historical averages and extremes.

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