The National Cooperative **Observer**

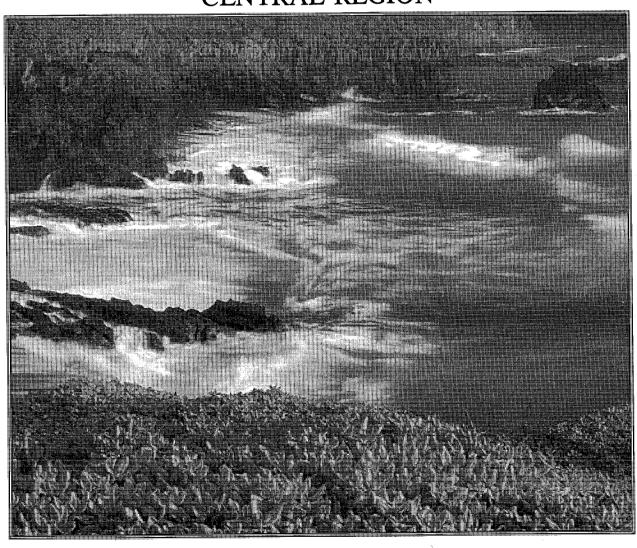


Received 7/6/95

EASTERN REGION

SOUTHERN REGION

CENTRAL REGION



WESTERN REGION

ASKA REGION

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE

National Climatic Data Center Publication Staff: Sara C. Lackey, Cynthia B.Karl, and Grant W. Goodge Alexander Radichevich, NWS Coordinator

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 office of the National Oceanic and Atmospheric Administration, an agency within the Department of Commerce. One of the responsibilities of the National Weather Service is to take meteorological observations which are used to record the climate conditions of the United States. The National Weather Service relies heavily on a vast network of cooperative weather observer volunteers to achieve this objective.

The National Weather Service determines where observations are needed and furnishes standard meteorological instruments to individuals who volunteer their time to take and record daily observations of the weather. Currently, there are about 8000 published volunteer observing stations located in the United States and its territories. In addition to the thousands of cooperative observations 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 weather observations. These contributions to the climate record of the United States are invaluable.

The publication 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:

Cynthia B. Karl or Grant W. Goodge National Climatic Data Center 37 Battery Park Avenue Asheville, NC 28801-2733

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.

NOTE: No submissions were received from the Eastern Region for this issue.

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Cover: Haleakala National Park Hawaii. The astounding beauty of Haleakala National Park conceals the wonders of a tropical rain forest, found on the island of Maui in the Kipahulu Valley. The valley receives up to 250 inches of rain a year, creating a sanctuary for many endangered plants and animals. (Photo courtesy: National Parks and Conservation Association - Calendar 1994, Photograph copyrighted Larry Ulrich)

PACIFIC REGION



MESSRS. JUANITO GARCES, FRANCISCO PAGAY, AND ROGER CORRELES (left to right), were presented a 25-YEAR LENGTH-OF-SERVICE AWARD by CPM Ray Terada for station WAIMANALO EXPERIMENTAL FARM.



FLO AND BEN MAYES, station WAIANAE, were presented a 20-YEAR LENGTH-OF-SERVICE AWARD by Ray Terada.



KEITH WOOLIAMS, WAIMEA ARBORETUM, holds the 10-YEAR LENGTH-OF-SERVICE CERTIFICATE awarded him by Ray Terada.



A 75-YEAR INSTITUTIONAL AWARD was presented to the PIONEER MILL CO., LTD., for continuous rainfall observations taken at KAHOMA INTAKE station. Accepting the award in behalf of the company were: Todd Steele (left), statistics clerk, and Domingo Alboro, Sr. (right), Control Crew Chief (who has 42 years of service with the company).

PACIFIC REGION



A 25-YEAR INSTITUTIONAL AWARD was presented to the WAILUKU AGRIBUSINESS CO., INC., for continuous rainfall observations taken at WAILUKU station. Accepting the award in behalf of the company is Patrick Sugai, cultivation superintendent.

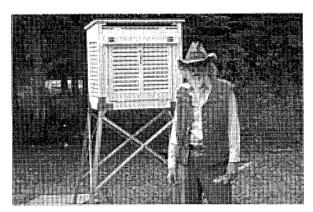


Weather station KII-KAHUKU is located on the north section of the island of OAHU BESIDE THE KAHUKU GOLF COURSE AND THE BEAUTIFUL BLUE PACIFIC OCEAN. This "AB" station is MANNED BY EMPLOYEES OF THE GOLF COURSE.

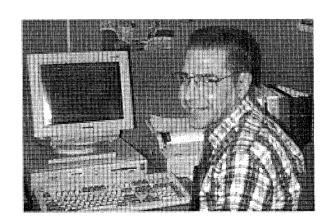
ALASKA REGION



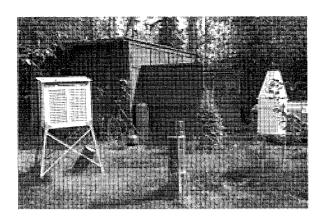
Coop station at SOURDOUGH 1 N. CECILIA CHMIELOWSKI has been the OBSERVER SINCE SEPTEMBER 1971.



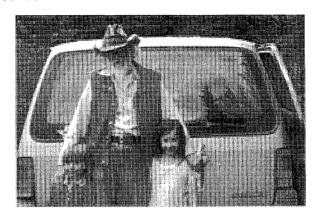
BOB HARPER, new OBSERVER AT DELTA 5 NE. Bob is also the RIVER OBSERVER for the TANANA RIVER AT BIG DELTA.



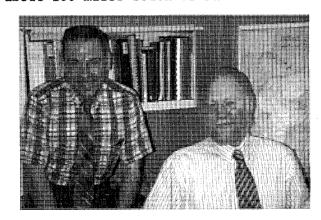
GEORGE CEBULA, RCPM RETIRED on October 3, 1994, with MORE THAN 32 YEARS OF FEDERAL SERVICE. George has worked in Alaskasince August 1965.



Sourdough 1 N is located at mile 150.6 Richardson Highway, about 30 miles north of Glennallen.



Bob Harper pictured with two of his grandchildren. Delta 5 NE is about 5 miles northeast of Delta Junction and about 100 miles south of Fairbanks.



George Cebula, RCPM, and Jim Hunter, his replacement. George will continue to live in Alaska and will be the backup aviation observer at McCarthy 3 SW.

* * 100th ANNIVERSARY * *



EVELYN RICHTER, COLORADO CITY, AZ, received a 25-YEAR LENGTH-OF-SERVICE AWARD. Mrs. Richter makes her monthly observation records available to many interested persons in her town. Colorado City is near the Arizona-Utah border.



EMMA PEREIRA, GREENVIEW, CA, was presented a 40-YEAR LENGTH-OF-SERVICE AWARD. Mrs. Pereira and her husband take daily rainfall readings. The couple, lifelong residents of Siskiyou County in northern California, have a small ranch where they raise sheep, geese, chickens, and rabbits.



EDRA L. MOORE (left), KNEELAND 10 SSE, CA, was presented a 30-YEAR LENGTH-OF-SERVICE AWARD by Sheryl Towle (right), hydrometeorologist, WSO Eureka. Visible through the window is Teal Moore, Mrs. Moore's winsome granddaughter.



The CITY OF SANTA BARBARA, CA, received a CENTENNIAL AWARD. The City has a 127-YEAR WEATHER RECORD. For the past 30 years the El Estero Wastewater Treatment Plant has been the official weather observer. Pictured left to right: Hal Conklin, Mayor of Santa Barbara; Diana Van Cor, Service Hydrologist, WSFO Oxnard; and Victor Acosta, Supt., El Estero Wastewater Treatment Plant. Also at the event were Gene Van Cor, CPM, WSFO Oxnard; and Gary Ryan, WSO Santa Maria.



The PACIFIC GAS AND ELECTRIC COMPANY'S VOLTA POWER HOUSE, CA, received a 75-YEAR INSTITUTIONAL AWARD. Gary Saastad (left), principal observer, accepted the award presented by Norm Hoffmann (right), NWS area manager for N. California.



The PACIFIC GAS AND ELECTRIC COMPANY'S PIT RIVER POWER HOUSE 5, CA, received a 50-YEAR INSTITUTIONAL AWARD. Shown (left to right) are Doss McKinney, relief operator; Bob Jones, asst. hydrological supt.; Chris Fontana, NWS MIC, WSO Redding, CA; and receiving the award, George Ondricek, foreman.



The CALIFORNIA DIVISION OF FORESTRY received a 25-YEAR INSTITUTIONAL AWARD for observations taken at BIEBER. Captain Joe Waterman accepted the award.

ERLING DOHLEN (no picture), OPHEIM 12 SSE, MT, received a 35-YEAR LENGTH-OF-SERVICE AWARD. He maintained a record of the daily high and low temperatures and precipitation at his Valley County farm since 1958. Mr. Dohlen previously received the John Campanius Holm Award.

ANNA GAIL SABADOS (no picture), BLACKLEAF, MT, received a 20-YEAR LENGTH-OF-SERVICE AWARD. She also takes part in the severe weather spotter program by reporting threatening weather conditions or rising creek levels to the Weather Service forecasters. These reports are valuable in tracking dangerous storms and preparing advance warnings for the public.

The NEVADA DEPARTMENT OF HIGHWAYS (no picture) received a 50-YEAR INSTITUTIONAL AWARD for their station at SEARCHLIGHT, NV. The ARIZONA HIGHWAY DEPARTMENT (no picture) received a 25-YEAR INSTITUTIONAL AWARD for their station at GANADO, AZ. Both awards were presented by Irv Haynes, Data Acquisition Program Manager, WSFO Phoenix.



BILL ETTER (center) OBSERVER, PILOT ROCK 1 SE, OR, received a 40-YEAR LENGTH-OF-SERVICE AWARD presented by George Miller (left), NWS Area manager for Oregon and Dan Keeton, Pendleton MIC (right).



ROBERTA KEEGAN, ASHWOOD 2 NE, OR, received a 30-YEAR LENGTH-OF-SERVICE AWARD. Mrs. Keegan operates a "b" network station in central Oregon.



ROBERT CUNNINGHAM (left), MOLALLA 2 ESE, OR, received a 25-YEAR LENGTH-OF-SERVICE AWARD presented by Steve Todd (right), NWS/DMIC, WSFO Portland, OR.



MARTIN RENHARD, COLTON, OR, was presented a 25-YEAR LENGTH-OF-SERVICE AWARD.



The NATIONAL PARK SERVICE, CRATER LAKE, OR, received a SPECIAL SERVICE AWARD to acknowledge their cooperation in taking weather observations for the PAST 75 YEARS. The weather station is at the 6,100 ft. elevation at park headquarters. Shown are: (left to right) Kent Taylor, chief interpreter; Mark Buktenica, resource management biologist; and Steve Todd.



The CITY OF FLORENCE, OR, received a 25-YEAR INSTITUTIONAL AWARD. The award was accepted by Don Fleming (left) and Jim Scott, sewage plant operators, on behalf of Rick Mumpower, plant supervisor, and the City of Florence, OR.



The U.S. ARMY CORPS OF ENGINEERS received a SPECIAL SERVICE AWARD FOR THEIR 25 YEARS OF SERVICE at FOSTER DAM, OR. James Ronyak (left), shift operator, accepted the award for the Corps. At right is Clint Jenson, CPM, who made the presentation.

OTHER AWARDS WESTERN REGION

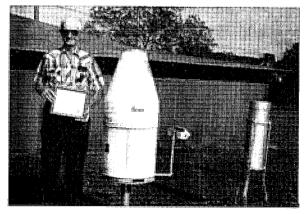
| CALIFORNIA | | YEARS |
|---|---|----------------------------------|
| David T. Lassila Joanne Hage Douglas B. Simmons Richard and Patricia Sprague | Colfax Covelo Eel Rvr RS Redwood CK O'Kane Chester | 15 10 10 10 |
| MONTANA | | <u>YEARS</u> |
| Wallace K. Broderson Richard Anderson Ronald Belcher Edward Harvey Ed Hill Larry and Carole Peterson Carol Sluggett | Ryegate 2 E Millegan Lavina Divide 2 NW Roberts 1 N Mosby 2 ENE Valentine | 15 10 10 10 10 10 |
| <u>UTAH</u> | | YEARS |
| Muriel S. Church Lyle Reynolds Bud Bauer Clarence Johnson | LaVerkin Tremonton Cedar City 5 E Bluff | 15 15 10 10 |
| <u> WASHINGTON</u> | | YEARS |
| Marylyn S. Denton Rocky Kolberg | Doty 3 E Toledo | 15 10 |



MRS. H. M. HUDSON, OBSERVER, WINONA 5 E, MS, received a 30-YEAR LENGTH-OF-SERVICE AWARD. The award was presented by Larry Arnold, CPM/JAN.



CHARLES COOK, OBSERVER, HERNANDO, MS, received a 15-YEAR LENGTH-OF-SERVICE AWARD. Mr. Cook, a Ham radio operator, helps the Memphis spotter network. Larry Arnold presented the award.



A 15-YEAR LENGTH-OF-SERVICE AWARD was presented to MORRIS HOLLAND, OBSERVER, HICKORY FLAT, MS. Larry Arnold presented the award.



HILLARD DEPRIEST, OBSERVER, ABBEVILLE, MS, received a 10-YEAR LENGTH-OF-SERVICE AWARD. Mr. DePriest is retired but keeps very active on his farm. Larry Arnold presented the award.



A 25-YEAR LENGTH-OF-SERVICE AWARD was presented to FERN WHITE, OBSERVER, SAN JON, NM. Mrs. White is the Mayor of San Jon. The presentation was made by Christine Lopez, HMT/AMA.



LUCY SIMS, OBSERVER FOR 45 YEARS, HANNA, OK, received the John Campanius Holm Award for "excellence in observing". Mrs. Sims was also presented with a SPECIAL SERVICE AWARD by Don Devore, MIC/Tulsa. State Senator Frank Shurden gave her a CERTIFICATE OF APPRECIATION FROM THE STATE LEGISLATURE AND SHE ALSO RECEIVED ONE FROM EUFAULA MAYOR JOE JOHNSON. Pictured (left to right) Mike Teague (DAPM/TSA), Mrs. Sims, and Don Devore (MIC/TSA).



A 30-YEAR LENGTH-OF-SERVICE AWARD was presented to VELDA MCEACHERN, OBSERVER, OKEENE 9 E, OK. Al Abernathy, HMT/OUN, made the presentation.



A 10-YEAR LENGTH-OF-SERVICE AWARD was presented to JIM BRADSHAW, OBSERVER, SHAWNEE, OK. The award was presented by Beverly Reese, DAPM/OUN.



INA B. TEEMAN, OBSERVER, LOOKEBA 2 ENE, OK, received a 10-YEAR LENGTH-OF-SERVICE AWARD. Mr. Teeman (deceased) was the observer from 1963 to 1984, with assistance from his wife. In 1984 Mrs. Teeman continued with the observations. At the age of 90, she is possibly the oldest observer in Oklahoma and looks forward to receiving a 20-year award at the age of 100. Presentation was made by Carl Wilkins, HMT/OUN.



Arkansas Governor, Jim Guy Tucker, presented ELIZABETH W. FRIDAY, OBSERVER, HORATIO, AR, the THOMAS JEFFERSON AWARD at a ceremony in DEQUEEN, AR. MRS. FRIDAY WAS ALSO PRESENTED A STATE PROCLAMATION AS PART OF THE CELEBRATION. Representing the NWS were (left to right) Ernest S. Ethridge (OIC, Shreveport, LA); Woody Currence (retired CPM from Little Rock, AR); and Harry S. Hassel, Director, Southern Region.



ETTA C. BURKS, OBSERVER, BENTON, AR, received the EDWARD H. STOLL AWARD for 50 YEARS SERVICE. In 1982 she received the John Campanius Holm award. Pictured with Ms. Burks is Benny Terry, DAPM/LZK.



A 40-YEAR LENGTH-OF-SERVICE AWARD was presented to WILLIAM E. BLACK, OBSERVER, MOUNT IDA, AR. Presentation was made by Jimmy Russell, HMT/LZK, and John Lambert, CPM/OKC; pictured with Mr. Black.



A 30-YEAR LENGTH-OF-SERVICE AWARD was presented to KERMIT CHANCE, OBSERVER, MILLEN 4 N, GA. The award was presented by Robert Drummond, CPM/ATL.



DALE VAN CANTFORT, OBSERVER, MILLEDGEVILLE, GA, received a 10-YEAR LENGTH-OF-SERVICE AWARD from Melvin D. Murrell, HMT/ATL.



ROBERT E. SOSBY, CARNESVILLE 4 N, GA, received a 10-YEAR LENGTH-OF-SERVICE AWARD from Melvin D. Murrell.



JOHNNY SZANYI, OBSERVER, LIVINGSTON, LA, received a 15-YEAR LENGTH-OF-SERVICE AWARD from Gil Barton (left), DAPM/NEW.



EDWARD L. STARLINGS, OBSERVER, THE ROCK, GA, received a 10-YEAR LENGTH-OF-SERVICE AWARD from Melvin D. Murrell.



LOUIS L. DUNLAP, OBSERVER, LEVELLAND, TX, received a 30-YEAR LENGTH-OF-SERVICE AWARD. Chuck Megee, CPM/LBB, and Johnny Wallace, HMT/LBB, made the presentation.



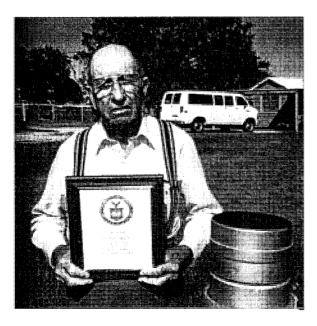
The CORPS OF ENGINEERS, BAYOU BOEUF LOCK, MORGAN CITY, LA received a 25-YEAR INSTITUTIONAL AWARD from Mike Reid, HMT/LCH. Pictured (left to right) Ernest Breaux, Corps of Engineers; Wallace Lee, Lockmaster; and Mike Reid.



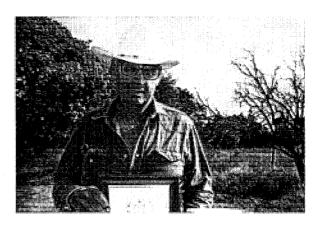
DARRAL G. WATSON, OBSERVER, WAYSIDE, TX, received a 30-YEAR LENGTH-OF-SERVICE AWARD. Darral enjoys keeping the rainfall records and does an excellent job of sending the tape in on time. Presentation was made by Chuck Megee.



A 30-YEAR LENGTH-OF-SERVICE AWARD was presented to JOHNNY WILSON, OBSERVER, CROSBYTON, TX. Johnny is an excellent observer, makes daily calls to the weather office and always has his monthly report in on time. Last year he and the city were presented a 100-year plaque during the Centennial Awards. Presentation of the award was made by Chuck Megee and Larry Toombs, DAPM/LBB.



CALVIN BUSH, OBSERVER, RICHLAND SPRINGS, TX, received a 25-YEAR LENGTH-OF-SERVICE AWARD. Alan Starnes, CPM/ACT, made the presentation.



E. W. HENNIG, OBSERVER, GLEN COVE 2 WNW, TX, received a 25-YEAR LENGTH-OF-SERVICE AWARD from Alan Starnes.



A 25-YEAR LENGTH-OF-SERVICE AWARD was presented to ONETA J. SOWERS, RED BLUFF CROSSING, TX, by Alan Starnes.



A 25-YEAR INSTITUTIONAL AWARD was presented to the SABINE RIVER AUTHORITY OF TEXAS. Sam Collins (right), Director, Toledo Bend Dam Facility, accepted the award. The award was presented by David McIntosh (left), MIC/LCH.



BONNIE L. RAHE, OBSERVER, HARPER, TX, received a 20-YEAR LENGTH-OF-SERVICE AWARD from Alan Starnes.



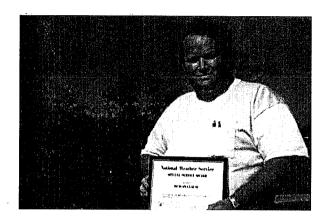
MRS. L.E. HIBBARD, OBSERVER, BURKBURNETT, TX, received a 15-YEAR LENGTH-OF-SERVICE AWARD from Carl Wilkins, HMT/OUN.



SAM HAYNES, MCLEAN, TX, was presented a 15-YEAR LENGTH-OF-SERVICE AWARD by Bill Beams, DAPM/AMA.



PEARSON COOPER, OBSERVER, MONAHANS, TX, received a 10-YEAR LENGTH-OF-SERVICE AWARD from Chuck Megee (right), and Keith Hicks, HMT, Lubbock. Mr. Cooper is editor of the Monahans News and is very interested in the weather trends. He does a very good job of keeping the records and is always on time with his reports.



REAGAN CLAUSE of the MACOMB WATER PLANT, MACOMB, IL, was presented a 5-YEAR LENGTH-OF-SERVICE AWARD by Bill Nelson, CPM/LOT.



LORES STEURY, OBSERVER, GOSHEN COLLEGE, GOSHEN, IN, was presented a 15-YEAR LENGTH-OF-SERVICE AWARD by Roger Kenyon (right), CPM/IN. Lores has maintained weather records dating back to 1914.



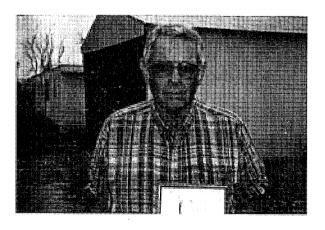
A 10-YEAR LENGTH-OF-SERVICE AWARD was presented to BOB CHATTIN (CENTER), JASONVILLE, IN, by Albert Shipe (left) SH/IN; and Roger Kenyon.



A 10-YEAR LENGTH-OF-SERVICE AWARD was presented to STEVE COTNER (CENTER), WINAMAC 2 SE, IN, by Roger Kenyon (right) and Bill Nelson.



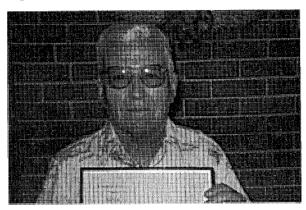
A 10-YEAR LENGTH-OF-SERVICE AWARD was presented to SHELLEY EDWARDS (LEFT), SPENCER, IN, by Albert Shipe (center) and Roger Kenyon.



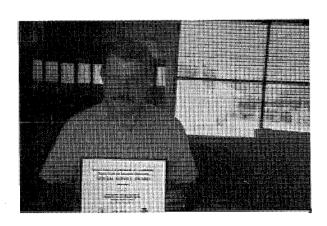
LEE ARNOLD'S SON JOHN accepted a 15-YEAR LENGTH-OF-SERVICE AWARD AT NORCATUR 3 WSW, KS, from Mike Elias, CPM/GLD.



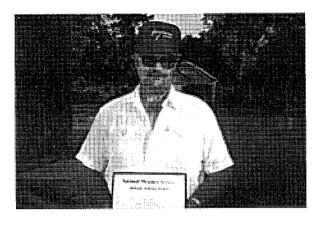
FORREST BAKER, GARNETT 1 E, KS, received a 15-YEAR LENGTH-OF-SERVICE AWARD from Greg Painter, CPM/TOP.



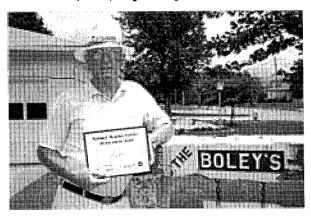
HARVEY DEAN, SR., MOUNT HOPE, KS, was presented a 15-YEAR LENGTH-OF-SERVICE AWARD by Greg Painter.



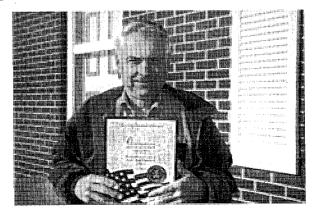
GARY LAWSON, AUGUSTA, KS, was presented a 15-YEAR LENGTH-OF-SERVICE AWARD by Greg Painter.



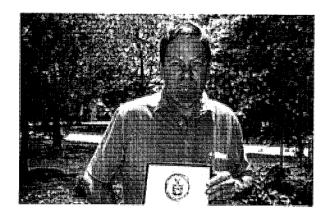
A 15-YEAR LENGTH-OF-SERVICE AWARD was presented to ROBERT ZIEGENHIRT, OBSERVER, ALTA VISTA, KS, by Greg Painter.



LOUIE AND NITA BOLEY HAVE JUST RETIRED, AFTER 10 YEARS OF VOLUNTEER-OBSERVING DUTY IN ESKRIDGE, KS, Greg Painter presented a SPECIAL SERVICE AWARD.



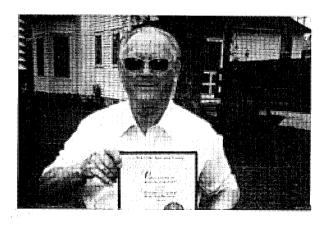
FERDINAND H. BURMEISTER, GALATIA 1 NW, KS, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Greg Painter.



A 10-YEAR LENGTH-OF-SERVICE AWARD was received by DAVID CROY, COTTONWOOD FALLS, KS, from Greg Painter.



RONNIE W. ELLIS, LE ROY, KS, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Greg Painter.



LOUIS HAYWARD, EUREKA, KS, received a 10-YEAR LENGTH-OF-SERVICE AWARD from Greg Painter.

STEPHEN POPE (no picture), WALNUT 3 S, KS, was given a 10-YEAR LENGTH-OF-SERVICE AWARD by Greg Painter.



BEN PRITCHARD, PRATT 4 W, KS, received a 10-YEAR LENGTH-OF-SERVICE AWARD from Greg Painter.



ALICE SAMSON, ATWOOD 10 SSE, KS, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Mike Elias.

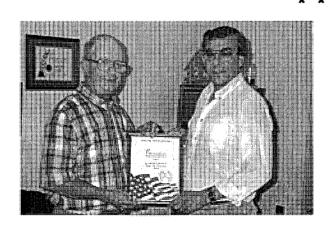
* * 100th ANNIVERSARY * *



NATIONAL CENTENNIAL The AWARD presented to the BIG RAPIDS WATERWORKS TO CELEBRATE 100 YEARS OF WEATHER OBSERVATIONS TAKEN BY DEDICATED VOLUNTEERS IN THE CITY OF BIG RAPIDS, MI. Accepting the award for the city were: Tim Vogel (left) Dir. Dept. of Public Works and Carman Johnson (right) present observer, Supt. of the waterworks. The award was presented by Stephen J. Hicks, CPM/DTX, during the Big Rapids City Council Meeting.



NATIONAL CENTENNIAL AWARD The presented to the CITY OF CHEBOYGAN, MI, TO CELEBRATE 100 YEARS OF WEATHER BY OBSERVATIONS TAKEN DEDICATED VOLUNTEERS IN CHEBOYGAN, MI. Accepting the award were: Scott McNeil (left), City Manager and Steve Gall (right), present observer, Supt. of the Wastewater Treatment Plant. Award was presented by Stephen Hicks.



J.W. CHANDLER, CLINTON, KY, received a 10-YEAR LENGTH-OF-SERVICE AWARD AND SERVICE PIN, from Peter Tellez, CPM/KY.



RICHARD SCOTT, ABERDEEN, KY, received a 10-YEAR LENGTH-OF-SERVICE AWARD AND SERVICE PIN from Peter Tellez.

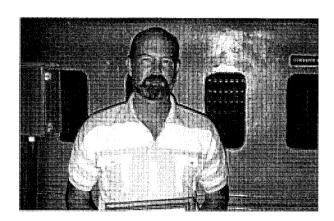
* * 100th ANNIVERSARY * *



The NATIONAL CENTENNIAL AWARD was presented to the CITY OF HART, MI, TO CELEBRATE 100 YEARS OF WEATHER OBSERVATIONS TAKEN BY DEDICATED VOLUNTEERS IN HART, MI. Accepting the award were: Lt. Thomas Altland (left), present observer, Michigan State Police; and Kalvin Klotz (right), mayor. Award was presented by Stephen Hicks.



The NATIONAL CENTENNIAL AWARD was presented to the UNIVERSITY OF MICHIGAN, ANN ARBOR, MI, TO CELEBRATE 100-YEARS OF WEATHER OBSERVATIONS TAKEN BY DEDICATED VOLUNTEERS AT THE UNIVERSITY. Accepting the award was Dennis Kahlbaum, the present observer. The award was presented by Stephen J. Hicks.



A 75-YEAR INSTITUTIONAL AWARD was presented to CONSUMERS POWER COMPANY MIO HYDRO DAM, MIO, MI. Accepting the award was Louis Nelson, plant operator. Award was presented by Stephen J. Hicks.



A 50-YEAR INSTITUTIONAL AWARD was presented to the UPPER PENINSULA POWER COMPANY DAM AT BERGLAND, MI by Stephen J. Hicks. Also KEVIN POISSANT, OBSERVER, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD. With Kevin is his daughter Abbey and his son Adam.



A 40-YEAR LENGTH-OF-SERVICE AWARD was presented to MAX E. KRAFT, MARLETTE, MI, by Stephen J. Hicks.



A 25-YEAR INSTITUTIONAL AWARD was presented to LARRY CHRISTENSEN AT THE MONTCALM COUNTY ROAD COMMISSION GARAGE, STANTON, MI, by Stephen J. Hicks.



A 30-YEAR LENGTH-OF-SERVICE AWARD was presented to MERLIN KRAFT, SPARTA, MI, by Stephen J. Hicks.



A 25-YEAR LENGTH-OF-SERVICE AWARD was presented to JAMES EIMER, GRAND LEDGE, MI, by Stephen J. Hicks.



A 25-YEAR LENGTH-OF-SERVICE AWARD was presented to HERBERT F. TEICHMAN, EAU CLAIRE 4 NE, MI, by Stephen J. Hicks.



A 25-YEAR INSTITUTIONAL AWARD was presented to EASTERN MICHIGAN UNIVERSITY, YPSILANTI, MI, by Stephen J. Hicks. The award was accepted by Professor Carl Ojala, observer.



A 25-YEAR INSTITUTIONAL AWARD was presented to the DETROIT CITY AIRPORT, DETROIT, MI. Accepting the award was Eugene Stefani, observer. Award was presented by Stephen J. Hicks.



Ron Racine, Park Ranger, accepted a 25-YEAR INSTITUTIONAL AWARD presented to MCLAIN STATE PARK, HANCOCK, MI, by Stephen J. Hicks.



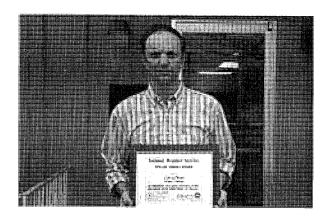
A 25-YEAR INSTITUTIONAL AWARD was presented to SHERIFF VIRG STRICKLER OF THE SANILAC COUNTY SHERIFFS DEPARTMENT, SANDUSKY, MI, by Stephen J. Hicks.



A 25-YEAR INSTITUTIONAL AWARD was presented to CHUCK WIERINGA, TAHQUAMENON FALLS STATE PARK, MI, by Stephen J. Hicks.



SAM CRESWELL, WASTEWATER TREATMENT PLANT, CHARLEVOIX, MI, was presented a 20-YEAR LENGTH-OF-SERVICE AWARD.



A 15-YEAR LENGTH-OF-SERVICE AWARD was presented to LARRY BROWN, ALLEGAN, MI, by Stephen J. Hicks.



A 15-YEAR LENGTH-OF-SERVICE AWARD was presented to WAYNE BURNS, MILLINGTON, MI, by Stephen J. Hicks.



A 15-YEAR LENGTH-OF-SERVICE AWARD was presented to JEAN POSTMA, RUDYARD, MI, by Stephen J. Hicks.



A 10-YEAR LENGTH-OF-SERVICE AWARD was presented to FRANKLIN HOFMEISTER, SEBEWAING, MI, by Stephen J. Hicks.



LONNIE H. SPAETH, OBSERVER, NEW ULM, MN, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD.



A 5-YEAR LENGTH-OF-SERVICE AWARD was presented to BILL WESTERMAN, FLINT, MI, by Stephen J. Hicks.



GUS FUHRMAN, OBSERVER, FESSENDEN, ND, was presented a 10-YEAR LENGTH-OF-SERVICE AWARD by Vern Roller, CPM, WSFO Bismarck, ND.



TIMOTHY J. MATTEISEN was presented a 10-YEAR LENGTH-OF-SERVICE AWARD to recognize his service as an OBSERVER AT BENSON, MN.



Pictured is DAVID SIEGFRIED, OBSERVER, AND DAM TENDER AT HEART BUTTE DAM/LAKE TSCHIDA, ND, with his 10-YEAR LENGTH-OF-SERVICE AWARD. Dave started taking the weather observations in August 1984. Picture and presentation by Vern Roller.

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No. 1

DUTIES AND EXPERIENCES OF A COOPERATIVE OBSERVER1

By Mrs. Ross Woods, Cooperative Observer, Palmetto, Tenn.

For years it has been my desire to have a convention of the weather observers of our state, that I might meet my fellow cooperatives and exchange experiences with them, but such a convention up to this time has not seemed feasible.

But now two mighty luminaries in the scientific world are in conjunction and with their combined attractive force, are drawing all the earth, great and small, toward them. The American Meteorological Society, for the first time in its history, and the American Association for the Advancement of Science, for the second time in its history, have met in our capital city. Truly opportunity is at the high tide of the spring tide and my erstwhile dream for years of too little importance to warrant fulfillment, is now a reality.

And now that I have the opportunity to speak, my heart fills so with emotion the words are choked back and with Tennyson I cry, "And I would that I could utter the thoughts that arise in me." That little latticed shed, or instrument shelter, in the yard back home does not seem to me to house mere instruments of wood and metal. Those instruments are a part of my family and as dear to me as some cherished heirloom to another. And why shouldn't I love them when I recall the days that used to be?

My father, R. S. Montgomery, known to his peers as Col. Bob, and to his inferiors

as Marse Bob, was one of the earliest observers in the state. In his early twenties he began keeping a diary, a habit he continued the remaining fifty years of his life. Of course the weather furnished as ready a topic for written as for spoken thought and from weather notes in his diary, it was just a step to the daily record of a cooperative observer, which he first undertook to make for the Weather Bureau in 1883, 13 years after the organization of the Weather Bureau as a division of the Signal Service in the regular army and 8 years before it was the Department transferred to Agriculture.

Our home was in the little village of Palmetto on the extreme western boundary of Bedford County - 12 1/2 miles from the county seat. Just across the road from "our house" was "our store" U.S. Post Office in the rear. This was common ordinary store, but institution of higher learning. father as truly dispensed knowledge from the front porch of that old store as did the Stoic philosophers from their porch in the market place at Athens. Along about four o'clock of the afternoon, the front porch meeting adjourned to the middle of the pike and there with a pair of opera glasses, swapped from hand to hand and eye to eye, the crowd watched for the coming of the hack which brought the daily mail. And then my father opened up the newspaper and read aloud the news of the outside world. His own weather records compared earlier in the day with his neighbors' observations and

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with the memory of the oldest inhabitants now met comparison with the outside world.

One glance at the little latticed shed has the power to recall all these scenes of the past--the long ago past, for in 1902 the rural Free Delivery came up our pike and since every man then could have a newspaper delivered to his own front porch, the mail back was discontinued, the Post Office was abolished, the Store Porch Forum of the People lost its prestige, the dear old philosopher of the store porch closed his earthly records in 1905 and opened the book of life above. Last of all the store burned, but the weather records and the instruments remained and being intrusted to me were moved into the yard of my new home a few steps farther down the road.

father, later for their own sake or shall I say because through association with my own babies they became almost like one of the children. For more than twenty-two years they have stood in my yard with the pride of their thirty-eight years of unbroken record which "Through days of sorrow and of mirth Through days of death and days of birth Through every swift vicissitude Of changeful time" unbroken had stood until last summer I was absent for ten days and not even the most insistent S.O.S. could secure a substitute. Full explanations and sincere apologies were sent to

headquarters which were kindly accepted.

At first I loved them because of my

Even the fondest mother, however, at times becomes irritated with her children, so I must confess there have been times when I wished I had never seen that shed with its instruments or at least I had never consented to be a cooperative observer. Doubtless this was when I had to arise early, cook the breakfast, get some of the children off to school, see after the ones who were too small to go, look after coops and brooders full of hungry chicks crying for their feed and perform the hundred other odd tasks that confront the farm-wife each morning, while out of the corner of my eye I saw the clock hands moving forward and realized it was almost time for the mail and the monthly record must

be made out and sent in today; then it seemed as if even a camel's back couldn't stand that last straw. The sea was too far away for me to wish the shed and its contents sunk in its depths--but winds blow over land as well as sea and we have had some worthy of the name of "cyclone"--possibly I should say "hurricane" or "tornado" to be strict in the choice of names. Once the wind tipped over the shed, but it must have realized it housed government property for it left it lying on the ground.

This matter of recording the direction of the wind caused me to be subpoenaed as a witness in a lawsuit, which grew out of damage claimed for a barn supposed to have burned from sparks of a railroad engine. I was to bring my records and testify as to the direction of the wind on "said day of said burning." But the parties to the suit compromised and I did not have to appear in court. However, this little incident shows the necessity for care and accuracy in recording observations. If one could so far forget his honor as to enter any kind of record in lieu of the proper observation with the excuse, "It doesn't matter anyway," such a record might be the very one requiring accuracy. Twice my records have enabled my neighbors to collect insurance, since they proved that an electrical storm occurred on the days that it was alleged a horse and a barn were struck by lightning.

The cooperative observer of the U.S. Weather Bureau certainly has an opportunity to prove that the initials U.S. stand for Universal Service. Once the County Fair Association received the loan of the rain gauge as they had protected their profits with the rain insurance I would not undertake to say how many times on a winter night I have been summoned to the telephone to answer the questions, "Is it cold enough to drain the car?", "Should I put more cover over the potatoes?", etc. Or perhaps in the dry weather after a welcome shower; some one calls to ask whether the gauge shows rain enough to do the crops any good. Or, maybe, a heavy rain causes a call to settle an argument as to whether more rain fell in the high water of December 1926, or the high water of April 1902. Anyone who has tried to operate the question box for an entire neighborhood knows these are only a few

of the questions a cooperative observer is called upon to answer.

How very, very often, I have the pleasure of showing a visitor or new-comer the maximum and the minimum thermometers, how they keep their register till I set them, explain the way to measure the rain, of keeping a daily record and noting the direction of the wind and character of the day, all of which must be made out once a month and sent to the Weather Bureau at Nashville. Usually this words information calls forth of appreciation and commendation, but there are some who are wont to ask, "Why do you do all this for nothing?" The easiest reply is: the compensation Government could allow for this work would be small yet there are many incompetent and irresponsible persons, who would take it for the price, small though it be. But the truest and best reason in deep within my heart and could not be understood by a disinterested listener.

In fancy I stand before the instrument, not at the time I set the thermometer and make my daily record, but this is the hour before bedtime and this is my observation; above me is the sky "that beautiful parchment on which the sun and moon keep their diary." I see it "sometimes gentle, sometimes capricious, sometimes awful, never the same for two moments together, almost human in its passions, almost spiritual in its tenderness, almost divine in its infinity," and I am glad I am numbered even though in a humble way among those who scan the sky.

What an innumerable company they are, extending back to the very edge of time, including astrologers, soothsayers, diviners and what not, who interpreted the will of their gods by the skies.

It would be interesting to follow the development of the science of meteorology down to the present time, but it is enough to say that today we read the open book of the sky, not to determine how we may propitiate angry gods, but how we may propitiate angry gods, but how we may serve our fellowmen. Through the agency of the Weather Bureau, millions of dollars' worth of crops are annually saved, ships at sea are warned, railroads

regulate their shipments and other peacetime activities are aided. During the war, accuracy of firing was aided and propitious times for gas attacks were selected.

Just as truly as we cooperatives have helped to make the U.S. in U.S. Weather Bureau, stand for universal service so surely let us make it stand for united service. Our part may be small, but if we unite in faithfully, conscientiously doing it, we will make a firm foundation for a grander structure.

I am recalled to the present by the question, "Why do all this for nothing", and this time I answer, "Is it nothing to have served my country, my fellowmen and the future?"

TENNESSEE WEATHER SERVICE SESSION

With a room full of people, President C.F. Marvin opened the Tennessee Weather Service Session of the American Meteorological Society, December 30, promptly at 11 a.m. His brief address of welcome was a warm-hearted expression of gratitude felt by meteorologists and climatologists for the invaluable services rendered by the cooperative observers throughout the country.

"I cannot express sufficiently our appreciation for their services rendered day after day, year after year," Professor Marvin said. "Without their observations we should know little about the details of climate. The Weather Bureau is very glad to furnish instruments and forms, but the great work is the making of the observations."

Mr. Roscoe Nunn was then called on the biographies of Tennessee meteorologists, and he recounted in interesting terms the chief points in the scientific careers of Maury, Ferrel, Clayton, Fergusson and Cline.

TENNESSEE METEOROLOGISTS

by Roscoe Nunn

Tennessee (to be more exact, Middle Tennessee) has given some worthy names to the roll of American meteorologists.

.... Matthew Fontaine Maury

One of the very first men to do anything about establishing a weather service was Lieut. Matthew Fontaine Maury. Virginia was Maury's native state, he having been born near Fredericksburg on January 24, 1806; but when he was in his fifth year the family emigrated to Tennessee, bringing their worldly goods in wagons, and settling near Franklin. Maury called Tennessee his adopted state. He lived near Franklin for about 15 years, or until 1825, when the Hon. Sam Houston, member of Congress, obtained his appointment as midshipman in the Navy. His life work then began. His first great work was the charting of the winds and currents of the oceans. He has been called the founder of the science of hydrography. His famous book, "The Physical Geography of the Sea," had much to do with some of the principles of meteorology. o vina okazi orin vinaka ori senteeri seleksin aili.

After the great success of his researches on the seas, his charts and sailing directions; after he had accomplished so much of navigation and ocean commerce, and had been recognized and honored as one of the greatest benefactors of his time, Maury conceived the idea that what had been done in the way of collecting information about ocean currents and winds, and formulating practical rules for the use of such information, to the

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great economic advantage of the world, might be done somewhat similarly on the land, for the benefit of agriculture, commerce and industries of many kinds. So we find that as early as 1853 Maury, upon his own initiative and exertions, brought about a convention of scientists of the world at Brussels to consider a uniform system of meteorological observations. From then on he kept hammering at the subjects of "meteorology for the farmer," and "weather and crop reports." The civil war came on, Maury joined the Confederacy and his dreams and plans were, of course, sadly interrupted.

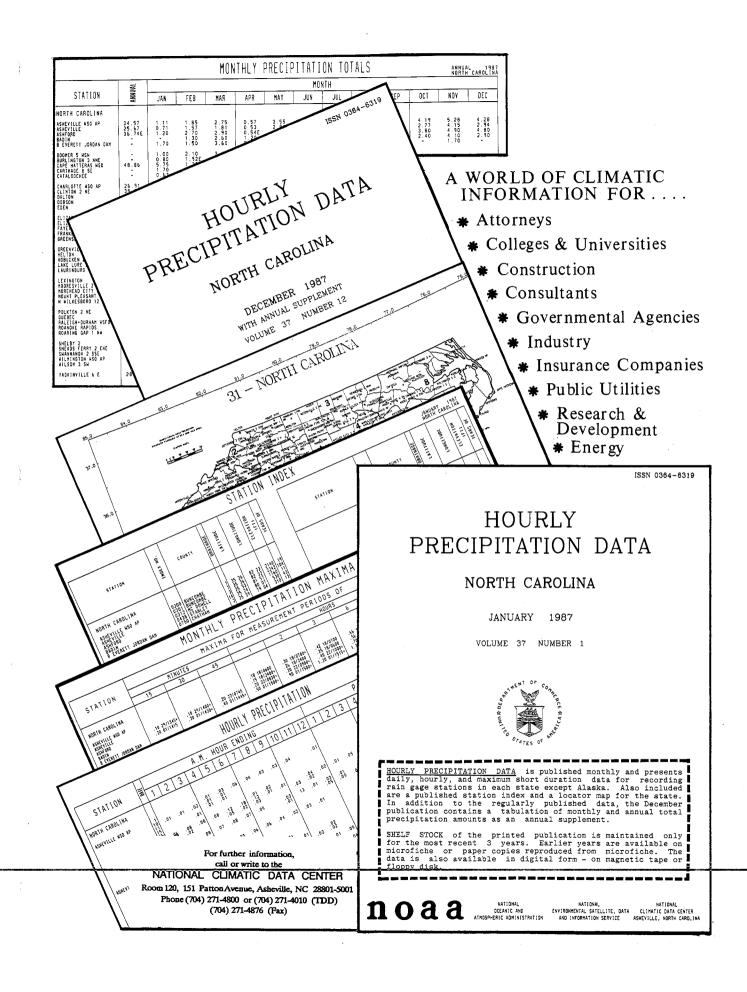
In his last years Maury devoted himself to advocating the establishing of "agricultural meteorology," a government service which he thought would be of tremendous benefit to the farmers, and one of the last speeches he made on the subject was delivered at Nashville in 1871. His idea lived. For some years the Weather Bureau has had in its organization a division of "agricultural meteorology," which is doing a valuable work.

It was through reading the works of Maury that an almost unknown school teacher in Nashville was inspired to take up the subject of meteorology, and this resulted in those remarkable papers published in the "Nashville Journal of Medicine and Surgery," in 1856, by William Ferrel.

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1. Read by the author at the Tennessee Weather Service Session of the American Meteorological Society Meeting at Nashville, Tennessee, December 30, 1927.





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