

RARE BOOK  
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1920-1924

WEATHER BUREAU TOPICS (AND PERSONNEL)

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# WEATHER BUREAU TOPICS AND PERSONNEL

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JANUARY, 1923.

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## ATMOSPHERIC DUST MEASUREMENTS.

In connection with the solar radiation work of the Central Office, a daily count is now being made of the number of dust particles in the atmosphere at Washington. To make the count, the air pressure within the dust counter is suddenly decreased, causing a line of dust to be precipitated on glass, where the particles are counted with a microscope having a magnification of 1,000 diameters. On quiet mornings, as many as 3,000 dust particles per cubic centimeter have been counted; but on clear mornings following precipitation, the number drops to 150. Most of the particles appear to be extremely fine minerals or organic matter from the earth's surface, although some unconsumed carbon from smoke, gypsum and calcite from building operations, and diatomaceous material have been observed. Undoubtedly there are many particles which, while large enough to act as nuclei for condensation, are too small to be seen through a microscope with a magnifying power of 1,000 diameters.

## AMERICAN-SCANDINAVIAN FELLOWSHIPS.

Among the twenty fellowships which the American-Scandinavian Foundation will award in April to selected students born in the United States or its possessions, for study in Scandinavian countries during the academic year 1923-24, is one in which students of meteorology will be particularly interested. This is the fellowship for the study of weather forecasting at Bergen Geo-Physical Institute, Bergen, Norway. The period of study is one academic year, and the stipend is \$1,000. Candidates must be capable of original research and independent study, and a definite plan of study must be submitted by each. It is desirable that they be college graduates and familiar with at least one language in addition to English, preferably Norwegian, Swedish, or Danish.

Fellowships in the agricultural sciences, physics, and other lines will be awarded under similar conditions for study in Denmark and Sweden, as well as Norway.

As application should be made through this office before March 1, those desiring further information should communicate immediately with the American-Scandinavian Foundation, 25 West Forty-fifth Street, New York City.

# National Oceanic and Atmospheric Administration Weather Bureau Topics and Personnel

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## RETREATING MAXIMUM THERMOMETERS.

The making of the constriction in a maximum thermometer is an extremely difficult mechanical operation. Several weeks ago, during the course of a lecture upon the making of thermometers by the consulting physicist of one of the leading American factories, the statement was made that out of the one thousand employees of the concern only two can make these constrictions, and of the product turned out by these two only two thermometers out of three are successfully constricted. The above statement refers to clinical thermometers, in which only a small amount of mercury is to be supported by the constriction. It will be apparent upon reflection that a thermometer of the Weather Bureau type, with its long column of mercury, is even more difficult of constriction. In fact, careful inquiry from all available sources of information through a number of years leads to the conclusion that the making of the constriction in Weather Bureau maximum thermometers is just barely within the limits of possible execution. Hence, owing to the extremely narrow margin, it is impossible to have all thermometers equal as regards the ease with which the mercury will pass through the constriction. These thermometers are made by hand to-day, substantially as they have been made by hand for many years, and the final result depends largely upon the individual skill of the glass-blower. It follows that exacting requirements as to performance can be obtained only by heavy rejections by the manufacturer, which in turn means a corresponding increase in cost.

It is believed that it will be helpful to station officials to learn something of the difficulties associated with procuring these thermometers, and it is desired to quote from Weather Bureau thermometer specifications the following paragraph:

In order to provide for the self-registration of the maximum temperature, a constriction must be made in the bore of the tube at a point about one-half of an inch or less from the bulb. The constriction must be so made as to separate the column of mercury when the temperature begins to fall; and, without being too fine, must be of such a size as to cause the separation of the column when temperature is falling, *and when the thermometer is inclined at an angle of 20° from the horizontal, the temperature being 90°.*

This test for retreat is exactly the test that is given in the Instrument Division. It is simple to make, and it is to be expected that thermometers that do not retreat under this test can be used in the work of the sections with care in distribution. In fact, thermometers that set easily are preferred by many observers, and are perfectly safe if the readings are made with the instrument in an inclined position. The proper use of near-retreaters will of course require some selection and care as to distribution on the part of the section directors, and at times supplementary instruction, particularly since the actual facts as regards such thermometers have not been made entirely clear in Circulars B and C.

At the same time, unmistakable evidence exists that a maximum thermometer that successfully passes the required test for retreating may in time become a retreator. Opinions differ as to the cause, one suggestion being that "the mercury wears the hole out," while a more logical explanation is that when the constriction is first made, the glass cools in a way to leave residual stresses, and that these stresses may in time cause sufficient deformation to bring about the retreating qualities. This view is supported by occasional discovery of actual fractures in the constrictions. However, the fact that the change may take place is established beyond doubt, and the occurrence is not confined to thermometers of any particular make. Inquiries of visiting officials, from meteorological services in other parts of the world, show that they have the same experience with maximum thermometers manufactured in Europe.

There is no intention to request or to recommend the use of real retreators, but many thermometers that readily pass the prescribed test referred to above have been returned by section directors, and the Instrument Division is then placed under the necessity of either reissuing a thermometer of this kind to another station, or replacing it at the high prices now prevailing out of funds that are much needed for other purposes.

This explanation is made in the belief that the best possible understanding of the situation will bring about the fullest cooperation between Section Directors and the Instrument Division.

#### WEST INDIES AND CARIBBEAN SERVICE.

The following has been extracted from a recent report of the official in charge of the West Indies and Caribbean Service:

*Forecast Service.*—In 1919 that part of the West Indian hurricane area that lies east of Haiti and Santo Domingo was detached from the Washington district and designated a separate forecast district, with San Juan, P. R., as district center. At present cable reports from about 80 stations having barometers in this area and radio reports from an increasing number of vessels are received at San Juan. A brief message from Washington indicates the pressure distribution over the eastern United States and the North Atlantic. From data thus furnished, a. m. and p. m. maps are made. At 10 p. m. the Navy Radio station at San Juan broadcasts the weather conditions, expressed in numbers, at all regularly reporting stations in the San Juan district; and warnings, expressed in words, giving the position, probable direction, and intensity of any disturbance that may be present. During the progress of a storm, warnings are issued morning, noon, and evening, the noon warnings being based on special observations. Local distribution over Porto Rico is made by telegraph to about 65 police districts and 12 storm warning display stations along the coasts.

*Climatological Service.*—A climatological service, similar to those of the States, was inaugurated in Porto Rico, with headquarters at San Juan, when the island became a possession of the United States. In 1917 the Danish islands of St. Thomas, St. Croix, and St. John were purchased by the United States, and control of Haiti and Santo Domingo was assumed at about the same time. Practically all of the countries and island colonies bordering on the Caribbean Sea have

for many years maintained local rainfall and temperature organizations, but the records, with few exceptions, are too fragmentary for practical use. In 1919 the Weather Bureau's proposal to cooperate in collecting and publishing climatological data was cheerfully taken up by local government officials, and at present daily rainfall records from nearly 500 stations are collected at the end of each month at the local central stations, and then forwarded to San Juan for tabulation and publication. These reports, known as "Climatological Data, West Indies and Caribbean Service", have been published regularly from month to month, beginning with January, 1921. During 1921 only rainfall reports were published, but in 1922 temperature data from about 40 selected stations were added. For the first time it has become possible to survey from month to month the rainfall distribution over this vast subtropical area, extending from Barbados, on the east, to Panama and Yucatan, on the west, and from the Bahamas, on the north, to and including British Guiana, Venezuela, and Colombia, on the south.

Of the 500 rainfall stations, 80 per cent are equipped and maintained at the expense of the 25 cooperating local government organizations, and 20 per cent at the expense of the United States Weather Bureau and the Panama Canal Zone Government. Every country and every island has its own separate organization. The present distribution of stations is as follows: British colonies (15 islands or groups), 185 stations; United States Weather Bureau, 65; Canal Zone and Panama, 85; Cuba, 40; Haiti, 85; Santo Domingo, 55; French colonies (Guadeloupe and Martinique), 85; Venezuela, 22; Dutch West Indies (6 islands), 18; Yucatan (Mexico), 8; and Columbia, 2.

The importance of an intimate study of the climatology and meteorology of this great area, in extent about equal to the United States east of the Rocky Mountains, is becoming more apparent, not only on account of our rapidly increasing financial interest in its agricultural development, but because each year we depend on it more and more for such food supplies as can be produced with profit only within the tropics. This is well illustrated by our investment of more than a billion dollars in the sugar industry of Cuba alone, and our dependence on that island for half of our sugar requirements. Next in importance in the West Indies are coffee, tobacco, cotton, citrus fruit, pineapples, bananas, and other tropical fruits. All of these crops depend vitally on the amount and distribution of rainfall, and the best available information is increasingly important for their successful culture.

*Aerological Research.*—From July 26, 1920, to November 30, 1921, pilot balloons were released daily at San Juan at 8 a. m. In a later series, September 30 to November 2, 1922, the average daily altitude attained by 6-inch balloons was about 30,000 feet, the extreme limits being 6,000 and 50,000. On several occasions balloons from San Juan have exceeded 60,000 feet. These observations form a valuable record of wind direction and velocity within a typical area of the north-east trade belt, and should be useful in investigating the movements of tropical storms.

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#### FIFTY YEARS OF SERVICE.

Mr. David Fisher, now stationed at Tampa, Fla., recently received from the Secretary of Agriculture a letter congratulating him on having completed on December 17, 1922, a half century in the service of the Government.

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#### DEATH.

Mr. William Keough, for many years a lithographer at the Central Office, died January 25, 1923, at his residence in this city.

Mr. Keough was born at Washington, D. C., on May 1, 1849; entered the Signal Corps February 1, 1873, and served continuously until furloughed on account of ill health a few months before his resignation on June 15, 1918.

CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of January, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Alligood, Milton B.*....	Raleigh, N. C.....	Messenger boy at \$480, resigned; record, good.
Archambeau, Lawrence H.	Detroit, Mich.....	Messenger boy at \$480, resigned; record, good.
Bolton, Robert M.....	Washington, D. C.....	Messenger boy at \$600, resigned; record, excellent.
Brady, Eugene E., sr....	New Orleans, La.....	Promoted to printer at \$1,350 from \$1,800.
Brauninger, Edward A.*	Washington, D. C.....	Lithographer at \$1,400, resigned; record, good.
Brotzman, Lloyd E.....	Pittsburgh, Pa.....	Appointed printer at \$1,800; temporary appointment terminated.
Cassidy, James J.*.....	Albany, N. Y.....	Appointed printer at \$1,800, temporarily, pending certification of eligibles; appointment as observer at \$1,260 terminated.
Coover, John Webbert*	Washington, D. C.....	Appointed press feeder at \$840, temporarily.
Day, Elden W.....	Chicago, Ill.....	Promoted to observer at \$1,260 from assistant observer at \$1,080.
Dirkse, John G.....	Chicago, Ill.....	Promoted to observer at \$1,260 from clerk at \$1,200.
Dwight, Leo.....	Santa Fe, N. Mex.....	Appointed assistant observer at \$1,080, by reinstatement.
Fernandez, Manuel R..	San Francisco, Calif...	Messenger boy at \$480, resigned; record, fair.
Haidle, Arthur J.....	Chicago, Ill.....	Observer at \$1,260, resigned; record, excellent.
Hunter, Calvin R.....	Toledo, Ohio.....	Messenger boy at \$480, resigned; record, fair.
Johnson, Guy L.....	Springfield, Ill.....	Assistant observer at \$1,080, resigned; record, excellent.
Joyce, Joseph A.....	Scranton, Pa.....	Messenger boy at \$480, resigned; record, excellent.
Milatz, John F.....	Washington, D. C.....	Appointed clerk at \$1,200, by reinstatement.
Mountcastle, Burton L.	Richmond, Va.....	Assistant observer at \$1,080; resigned; record, fair.
Neshanian, Chester A...	Washington, D. C.....	Messenger boy at \$480, resigned; record, good.
O'Neal, William T.*....	Washington, D. C.....	Appointed clerk (telegraph operator) at \$1,200, temporarily, pending certification of eligibles.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
O'Toole, Morgan. ....	Washington, D. C. ....	Promoted to messenger boy at \$600 from \$480.
Parry, Benjamin. ....	New York, N. Y. ....	Promoted to observer at \$1,440 from printer at \$1,350.
Prendergast, Philip J. ...	Washington, D. C. ....	Clerk at \$1,200, resigned; record, good.
Sackett, Ivan L.*. ....	Springfield, Ill. ....	Appointed printer at \$1,800, temporarily, pending certification of eligibles.
Staderman, William G. .	Washington, D. C. ....	Appointed lithographer at \$1,400.
Tufte, Erick. ....	Moorhead, Minn. ....	Assistant observer, granted leave without pay from January 11 to April 10, 1923, on account of ill health.
Voorhees, John F. ....	Tampa, Fla. ....	Appointed observer at \$1,440, by reinstatement.
Voshel, Nelson. ....	Grand Haven, Mich. ...	Messenger at \$480, resigned; record, excellent.
Week, Fred H. ....	Springfield, Ill. ....	Promoted to observer at \$1,440 from printer at \$1,300.
Baldwin, Marvin A. ....	Richmond, Va. ....	} Appointed assistant observer at \$1,080.
Bryant, Winston A. ....	Davenport, Iowa. ....	
Tufte, Erick. ....	Moorhead, Minn. ....	
Hester, Lewis A., jr. ....	Washington, D. C. ....	} Appointed messenger boy at \$480.
Hair, Erwin P. ....	Washington, D. C. ....	
Roberts, Arthur F. ....	Detroit, Mich. ....	
Silverman, Laurence. ....	Toledo, Ohio. ....	
Davis, Hubert A.*. ....	Raleigh, N. C. ....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Marks, Russell L.*. ....	Grand Haven, Mich. ...	
York, Darwin S.*. ....	Scranton, Pa. ....	

\* Indicates temporary appointment.

*Change in assignment.*

Name.	Relieved from—	Assigned to—
Dirkse, John G. ....	Washington, D. C. ....	Chicago, Ill., assistant.



Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

FEBRUARY, 1923.

## APPROPRIATION BILL.

The agricultural appropriation bill for the year ending June 30, 1924, was signed by the President on February 26.

The following summary shows the appropriation for the fiscal year 1923; and, in comparison therewith, the estimates submitted by the Secretary of Agriculture for the fiscal year 1924, the changes made by the Bureau of the Budget in such estimates, and the final appropriation by Congress:

Subappropriations.	Appropriated for fiscal year 1923.	Increase or decrease as compared with 1923 appropriation.		
		Estimated by department, 1924.	Approved, Budget Bureau, 1924.	Appropriated by Congress, 1924.
Statutory salaries .....	\$351,400			
General expenses:				
In Washington .....	115,575	+ \$17,000	+ \$3,000	+ \$3,000
Printing office .....	12,000			
Out of Washington .....	1,327,240	+ 81,000	+ 5,000	+ 5,000
Travelling expenses .....	28,000			
Fruit-frost investigations .....	12,000		- 12,000	
Aerological investigations .....	79,020	+ 100,000	+ 25,000	+ 6,020
Total .....	1,925,235	+ 148,000	+ 21,000	+ 14,020

The increase of \$14,020 allowed by Congress is to provide for instrumental equipment, increases in salaries, and extension of aerological work.

## RECLASSIFICATION OF SALARIES.

The Classification Act of 1923 was passed by Congress at midnight of March 3, 1923, and was signed by the President on the following day.

The new salary rates will not become effective before July 1, 1924, as the bill provides—

That the estimates of the expenditures and appropriations set forth in the budget to be transmitted by the President to Congress on the first day of the next ensuing regular session shall conform to the classification herein provided, and that the rates of salary in the compensation schedules shall not become effective until the first day of the fiscal year estimated for in the budget.

It is believed that the scientific and technical employees in the field force of this bureau will be allocated to grades under the professional and scientific service and the subprofessional service. The grades and salary rates for these services are as follows:

*Professional and Scientific Service.*

Grade number.	Grade title.	Salary rates.						
1	Junior professional.....	\$1,860	\$1,920	\$2,000	\$2,100	\$2,200	\$2,800	\$2,400
2	Assistant professional.....	2,400	2,500	2,600	2,700	2,800	2,900	3,000
3	Associate professional.....	3,000	3,100	3,200	3,300	3,400	3,500	3,600
4	Full professional.....	3,800	4,000	4,200	4,400	4,600	4,800	5,000*
5	Senior professional.....	5,200	5,400	5,600	5,800	6,000*		
6	Chief professional.....	6,000	6,500	7,000	7,500*			
7	Special professional.....	7,500*						

\* Unless a higher rate is specifically authorized by law.

*Subprofessional Service.*

Grade number.	Grade title.	Salary rates.						
1	Minor subprofessional.....	\$900	\$960	\$1,020	\$1,080	\$1,140	\$1,200	\$1,260
2	Under subprofessional.....	1,140	1,200	1,260	1,320	1,380	1,440	1,500
3	Junior subprofessional.....	1,320	1,380	1,440	1,500	1,560	1,620	1,680
4	Assistant subprofessional.....	1,500	1,560	1,620	1,680	1,740	1,800	1,860
5	Main subprofessional.....	1,680	1,740	1,800	1,860	1,920	1,980	2,040
6	Senior subprofessional.....	1,860	1,920	2,000	2,100	2,200	2,300	2,400
7	Principal subprofessional.....	2,100	2,200	2,300	2,400	2,500	2,600	2,700
8	Chief subprofessional.....	2,400	2,500	2,600	2,700	2,800	2,900	3,000

The act establishes an ex-officio board, to be known as the Personnel Classification Board, to consist of the Director of the Bureau of the Budget or an alternate designated by him, a member of the Civil Service Commission or an alternate designated by that Commission, and the Chief of the United States Bureau of Efficiency or an alternate designated by him. This board has already entered upon its duties and is now engaged upon the preparation of suitable blanks for collecting job descriptions on which to allocate and classify positions throughout the entire Government service.

As soon as definite instructions are promulgated by the Personnel Classification Board, further details on this subject will be furnished for information and guidance.

**EMPLOYEES' ARTICLES IN NONDEPARTMENT PUBLICATIONS.**

A circular dated September 30, 1922, with necessary forms, was sent to all stations last fall, requesting employees to report articles of permanent value, written by them on meteorological and related subjects, and published in other than department publications in the preceding six months.

In compliance with the directions of the Assistant Secretary of Agriculture similar reports are required every six months. It was stated in the circular that blank forms would be furnished periodically to stations for such reports. However, as reports for the

period preceding October 1, 1922, showed that few articles of the specified kind are being published, it seems unnecessary to furnish forms. Therefore, officials in charge of stations are requested to report to the Central Office by letter on April 1, 1923, all such articles published in the preceding six months by any of the station force, giving (1) name of writer, (2) title of article, (3) nature of article, (4) name of publication and page number, and (5) place and date of publication.

Articles relating exclusively to local or current weather conditions or pertaining to the routine work of the bureau should not be reported.

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#### MIDMONTHLY SUMMARY OF WEATHER CONDITIONS.

A number of railroads and other corporations having branch offices in Topeka require a summary of Topeka weather conditions every two weeks for file at headquarters. It has been found advisable, when the station records to the 15th of the month have been worked up, to give to the newspapers a brief summary of the weather for the preceding two weeks, thereby avoiding numerous calls by telephone and letter for this information. Similar information is afforded by Form No. 1030 at the end of the month. In this way time is saved, and the information, in a more satisfactory form, reaches not only the companies but the general public.

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#### CIRCUIT REPORT CORRECTIONS.

Unnecessary words in corrections sent over the telegraphic circuits are a source of considerable needless expense, particularly when passing over several circuits. Station officials are requested to see that telegraphic corrections conform to paragraphs 131 and 132 of the Weather Code, and that they contain no more words than are necessary to make them understood.

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#### CODE FOR VESSEL WEATHER OBSERVERS.

The Central Office supply of code books for vessel weather observers is nearly exhausted, and it is not practicable at present to print another edition. Stations having copies that can be spared are requested to send them to the Central Office in a package marked "Printing Division".

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#### OFFICIAL HOSPITALS AND PHYSICIANS.

On February 17 the United States Employees' Compensation Commission mailed to all Weather Bureau stations lists of additions and corrections to February 1, 1923, for its booklet (C. A. 76, 1922) containing the names of hospitals and physicians available for the treatment of Government employees injured in line of duty.

## MEMORANDUMS TO CENTRAL OFFICE.

There is a growing tendency among station officials to write memorandums to the Central Office on matters sufficiently important to require a letter. Memorandums should be used only for brief routine matter of transient value.

## RETIREMENT.

Mr. Joseph C. Piercy, in charge at Tonopah from 1906 to 1915 and since 1919, was retired February 28, 1923, on account of total disability. Mr. Piercy was born September 15, 1860, at Nancy, France. He entered the Signal Corps October 14, 1880, and was stationed for the greater part of the time thereafter at Sandusky, North Platte, Santa Fe, and Tonopah.

## DEATHS.

Mr. Henry F. Alciatore, who was retired from the Weather Bureau on February 10, 1922, on account of total disability, died at the home of his sister in New Orleans on February 2, 1923. A brief outline of his service in the Signal Corps and Weather Bureau may be found in TOPICS AND PERSONNEL for July, 1922.

Mr. John Sullivan, a veteran of the Civil War, who was retired August 20, 1920, after long service in the Signal Corps and Weather Bureau, died at the Soldier's Home in this city on February 14, 1923. The July, 1920, number contains a reference to his service.

The death of Capt. O. A. Nesmith, United States Army, retired, was recently reported in local newspapers. Captain Nesmith was a civilian official in the Signal Corps under General Greely.

## CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of February, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Alter, J. Cecil . . . . .	Salt Lake City, Utah . . .	Promoted to meteorologist at \$2,280 from \$2,160.
Ashley, Theodore L. . . . .	Saginaw, Mich. . . . .	Messenger boy at \$480, resigned; record, excellent.
Baker, Willard R.* . . . .	Amarillo, Tex. . . . .	Appointed apprentice at \$800, temporarily, pending certification of eligibles.
Bregman, David . . . . .	Washington, D. C. . . . .	Appointed messenger boy at \$480.
Daingerfield, Lawrence H. . . . .	Houston, Tex. . . . .	Promoted to meteorologist at \$2,500 from \$2,280.
Denson, Lee A. . . . .	Raleigh, N. C. . . . .	Promoted to meteorologist at \$2,500 from \$2,280.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Flynn, Francis L.* .....	Erie, Pa.....	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Halverson, Robert A. ...	Walla Walla, Wash....	Promoted to apprentice at \$600 from \$480.
Hamrick, Andrew M. ...	Davenport, Iowa.....	Promoted to meteorologist at \$2,040 from \$1,800.
Hayes, Montrose W ....	St. Louis, Mo.....	Promoted to meteorologist at \$3,240 from \$3,000.
Henderson, Henry W ..	Cleveland, Ohio.....	Appointed messenger boy at \$480.
Jones, Clarence O .....	Erie, Pa.....	Messenger boy at \$480, resigned; record, excellent.
Kiernan, Miss Isabel C..	Washington, D. C.....	Promoted to clerk at \$1,200 from \$1,000.
Krauland, Joseph F ....	Kansas City, Mo.....	Messenger boy at \$480, resigned; record, good.
McDonald, Willard F....	New Orleans, La.....	Promoted to meteorologist at \$1,800 from \$1,620; and name changed on the rolls from Willard McDonald.
Manheim, Edward S.* ..	Cleveland, Ohio.....	Messenger boy at \$480, appointment terminated; record, fair.
Marks, Paul B.....	Washington, D. C.....	Promoted to clerk at \$1,200 from assistant observer at \$1,080.
Metcalf, Harry C.....	Knoxville, Tenn.....	Meteorologist, granted leave without pay from February 8 to May 2, 1923, on account of ill health.
Milatzo, John F .....	Washington, D. C.....	Clerk at \$1,200, resigned; record excellent.
Piercy, Joseph C .....	Tonopah, Nev.....	Observer at \$1,260, retired on account of total disability.
Powell, Karl* .....	Amarillo, Tex.....	Apprentice at \$600, resigned; record, good.
Preston, Joseph E.....	Terre Haute, Ind.....	Messenger at \$600, resigned; record, good.
Reed, Thomas R. ....	San Francisco, Calif ...	Promoted to meteorologist at \$2,040 from \$1,800.
Ridgeway, Harry H ....	Washington, D. C.....	Skilled mechanic, granted leave without pay from February 27 to May 26, 1923, on account of ill health.
Sherier, Julius M.....	Denver, Colo.....	Promoted to meteorologist at \$3,600 from \$3,000.
Stewart, William P. ....	Milwaukee, Wis .....	Promoted to meteorologist at \$2,280 from \$2,160.
Tambling, Corydon L.*.	Saginaw, Mich.....	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Till, William D.....	Columbia, S. C.....	Promoted to messenger at \$600 from messenger boy at \$480.
Title, Charles E .....	Denver, Colo .....	Observer at \$1,260, resigned; record, excellent.
Underwood, John B....	Miami, Fla.....	Assistant observer, leave without pay extended to May 18, 1923, on account of continued ill health.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Gross, Henry C.....	St. Louis, Mo.....	} Promoted to meteorologist at \$1,800 from \$1,620.
Lay, Owen T. ....	Chicago, Ill.....	
Ling, Charles S.....	Ellendale, N. Dak.....	
Richardson, Charles H. ....	Norfolk, Va.....	
Schlomer, William B. ....	Cincinnati, Ohio.....	
Felton, Ernest L. ....	Grand Junction, Colo..	} Promoted to meteorologist at \$1,620 from observer at \$1,440.
Johnson, Harley N. ....	Rapid City, S. Dak....	
Stubbs, Martin B.....	Omaha, Nebr.....	
Taylor, Thomas R. ....	Asheville, N. C.....	
Ackelow, Fred H.....	Indianapolis, Ind.....	} Promoted to observer at \$1,440 from \$1,260.
Cole, Herbert E.....	New York, N. Y.....	
Loveridge, Elmer F....	Cheyenne, Wyo.....	
Piippo, Arthur F.....	Madison, Wis.....	
Sampson, Harold M....	Philadelphia, Pa.....	
Schick, Charles O.....	Fort Wayne, Ind.....	
Allen, Charles C.....	Fort Worth, Tex.....	} Promoted to observer at \$1,260 from assistant observer at \$1,080.
Farrell, Edward A., jr..	Houston, Tex.....	
Goldsmith, Samuel M..	Key West, Fla.....	
Long, Arthur R.....	Broken Arrow, Okla...	
Owen, Elbert A.....	Key West, Fla.....	
Title, Charles E.....	Denver, Colo.....	
Williford, Charles C....	Chattanooga, Tenn....	
Gregory, John W.....	Amarillo, Tex.....	} Appointed messenger boy at \$480; temporary appointment terminated.
Marks, Russell L.....	Grand Haven, Mich....	
Rossney, Robert B. ....	Rochester, N. Y.....	

\* Indicates temporary appointment.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Marks, Paul B. ....	Cleveland, Ohio.....	Washington, D. C., clerk.
Voorhees, John F. ....	Tampa, Fla.....	Tonopah, Nev., in charge.



Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

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MARCH, 1923.

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## RAIN INSURANCE.

The question of rain insurance is becoming more and more important. So far it has been impracticable for the Central Office to make regulations for the guidance of employees in this matter, but the general policy of the bureau has been to aid insurance companies and others concerned as far as the limited personnel, equipment, and funds of the bureau permit. Thus, observations have been taken to determine rainfall during specified periods at points where Weather Bureau stations or substations, either paid or cooperative, are located; but it has not been practicable to lend rain gages or permit them to be moved from regular locations, nor to detail regular observers to points beyond the vicinity of their stations.

When cooperative or other substation observers make special measurements of precipitation, or furnish special records during specified periods, for insurance companies or others, there is no objection to their receiving a reasonable compensation from such interests for such special service, provided a record of the observations is made for the district or section center.

## SUBSTATION RECORDS IN COURT.

Formal instructions as to the use of substation records in court proceedings have not been issued, as it has seemed best not to attempt to make rules to cover the varying demands and methods of the courts of each State. Usually the substation observer is able to handle the situation, with such cooperation from the district or section center as may be needed.

Recently, however, several questions as to the use of substation records in court proceedings were submitted to the Central Office by one of the section directors. As the reply of the Central Office indicates the policy of the bureau, the following abstract will be of interest to field officials:

The bureau desires to accommodate parties litigant in every way possible in presenting Weather Bureau records in court proceedings. Above all, it wishes to cooperate with the courts and nothing should be interposed to in any way antagonize the court and its officers.

The Weather Bureau has no authority to direct a cooperative observer to present or not to present his records in court. And the official in charge of a district or section center should not attempt to

interfere with court or other officials in obtaining such records as they desire, either by subpoena on the substation observer or otherwise. However, if opportunity arises, it is proper for the Weather Bureau official to suggest that the data may be better understood if interpreted by the official in charge of the district or section, and that copies of the records after they have been examined for possible error and corrected may be obtained from the center or the Central Office. Also, there is no objection to Weather Bureau officials conferring with members of the bar in order that attorneys may be informed as to best methods of obtaining certified copies of records or testimony regarding weather data.

Substation records in court have only the value that their own weight and the status of the substation observer gives them. Therefore, checking at district or section centers, while preferable, is not absolutely necessary to establish their standing. The original records represent certain facts to which the substation observer may testify. If further explanations are desired by the courts or the attorneys, questions can readily be referred to the center. If the attention of the official in charge of the district or section be called to the matter, he can also state that exact copies of the records may be obtained, without cost if within reasonable bounds, from the center or from the Central Office.

The substation observer may accept usual or customary fees for his services.

#### REPORT ON EMPLOYEES LEAVING THE SERVICE.

Notwithstanding the article entitled "Report on employees leaving the service" in TOPICS AND PERSONNEL for March, 1922, station officials frequently fail to furnish the information desired. Without such a report from station, it is sometimes difficult for the Central Office to give a just rating to the employee that is leaving the service. Officials in charge of stations are requested to furnish in every case the information indicated in the article referred to above.

#### PERSONAL STATEMENT SHEETS.

A personal statement sheet and other papers to be filled out are sent with every formal appointment to the station at which the appointee is to report for duty. Such papers frequently are returned to the Central Office with spaces incorrectly filled or not filled at all, and this is particularly true of the personal statement sheet. Officials in charge of stations are requested to see that every space has been correctly filled by the appointee before such sheets are returned to the Central Office.

#### VETERAN PREFERENCE UNDER CIVIL SERVICE.

On March 3, 1923, the President issued an executive order, effective March 16, amending the Civil Service rules giving preference to vet-

erans in appointment to Government positions. The following are among the points covered:

Honorably discharged veterans who earn a rating of 65, and disabled veterans who earn a rating of 60, in examinations, will be eligible for appointment. The passing mark for nonveterans is 70.

Veterans are released from all age limits and from many physical requirements.

An appointing officer who passes over the name of a veteran and selects a nonveteran with the same or a lower rating from a certificate of eligibles must place his reasons for so doing in the department's records.

#### SHIPPING PRINTED DATA BY EXPRESS.

When shipping climatological or other printed data by express, the shipment should be made as "printed forms", and it should be so stated on the bill of lading, in order that a proper express rate may be obtained.

#### MAILING LETTERS WITH OTHER MATTER.

Instructions received recently from the department require that the words "Letter mail" be written or stamped conspicuously on envelopes or packages containing any report, pamphlet, or similar matter with which it is necessary to inclose an explanatory letter.

#### INDEX FOR TOPICS AND PERSONNEL.

As indicated in TOPICS AND PERSONNEL for October, 1922, an index of that publication for 1920-1922 has been prepared and is being mailed to stations.

Stations that do not receive the index, or have not received any number of TOPICS AND PERSONNEL covered therein, are requested to inform this office.

#### HOTEL RATES FOR GOVERNMENT EMPLOYEES.

In its circular of March 12, 1923, the Bureau of the Budget gives a list, corrected to date, of hotels that will grant reduced rates to employees traveling at Government expense. This list shows that hotels, as follows, have withdrawn the reduced rates and should be eliminated from the lists published in TOPICS AND PERSONNEL for October and December, 1922: Ottaray, Greenville; Seminole, Jacksonville; Monteleone, New Orleans; Claridge and Woodstock, New York; Lorraine and Continental, Philadelphia; and Claridge and Planters, St. Louis. Hotel Adams, at Phoenix, has substituted for a 10 per cent discount the reductions indicated in the list below.

The Bureau of the Budget suggests that misunderstandings may be avoided if the traveler will ascertain the regular rates when applying for accommodations at hotels, show his travel authorization or other official instructions, and ask for the reduction *before registering*.

In addition to the lists published, corrected as above, the hotels

named below have agreed to give reduced rates to employees traveling at Government expense, as follows:

City.	Hotel and discount or reduced rate.
El Paso.....	Knox, rate of \$1.50 without, \$2 with bath.
Fort Worth.....	Texas, rate of \$2 with bath.
Galveston.....	Galvez, \$2.50 rooms without bath for \$2; \$3.50 and \$4 rooms with bath for \$3.
Houston.....	Cotton, 25 per cent discount on \$2.50 rooms; Rice, 10 per cent discount.
Minneapolis....	Dyckman, 50 cents reduction on \$2, \$2.50, and \$3 rooms.
Phoenix.....	Adams, 50 cents reduction on \$2.50 and \$3.50 rooms; 25 per cent discount on all others.
Port Arthur....	Central, 50 cents reduction on \$2, 25 cents on \$1.50 rooms.
St. Joseph.....	Robidoux, 50 cents reduction on \$2, \$2.50 and \$3 rooms.
San Francisco...	Turpin, 25 per cent discount.
Tampa.....	Albertus, 25 per cent discount.
Terre Haute....	Great Northern, St. Nicholas, and Terre Haute House, 25 per cent discount.

On behalf of the Bureau of the Budget, it is requested that this office be notified promptly if any hotel now listed declines to grant the reductions indicated, provided the traveler has furnished proper identification and claimed the reduction at the time of registering. Also, travelers are requested to report the names of any other hotels in good standing, coming to their attention, that may be willing to allow reduced rates.

#### DEATHS.

Mr. Paul F. Maxwell, of the Wagon Wheel Gap station, was killed by a snowslide on March 5, 1923, while making a tour of duty through the snow-fields. Mr. Maxwell was born June 21, 1892, at Salt Lake City, Utah. He entered the service May 16, 1914, and was stationed successively at Yellowstone Park, North Head, New Haven, and Wagon Wheel Gap, having been at the last-named place since October, 1921. This deplorable accident takes from the bureau a capable and promising young man who was engaged in important scientific work.

Mr. Millard F. Burrows died in this city on March 11, 1923. Mr. Burrows served in the Signal Corps from 1878 to 1882.

Mr. William N. Parker, of the Supplies Division, Central Office, died March 16, 1923. Mr. Parker was born at Zanesville, Ohio, on November 7, 1846. After serving two years in the Army during the Civil War and several years in other departments, he entered the Weather Bureau July 17, 1897, and served continuously at the Central Office until his recent illness.

Mr. Herbert Tullson, who was retired on August 31, 1922, on account of total disability, died of pneumonia at Grand Haven, Mich., on March 26, 1923. A brief outline of Mr. Tullson's service in the Weather Bureau may be found in TOPICS AND PERSONNEL for November, 1922.

## CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of March, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Adamson, William C.*	New Orleans, La. ....	Assistant observer at \$900, resigned; record, excellent.
Beesley, George .....	Sekiou, Wash .....	Repairman, furloughed without pay from April 1 to October 31, 1923, on account of the temporary closing of the station.
Bryant, Winston A. ....	Detroit, Mich. ....	Assistant observer at \$1,080, resigned; record, good.
Choun, Harry F. ....	St. Joseph, Mo .....	Appointed assistant observer at \$1,080; appointment as messenger boy at \$480 terminated.
Cline, George W. ....	Washington, D. C. ....	Observer at \$1,260, resigned; record, excellent.
Difly Hugh A.* .....	Montgomery, Ala. ....	Assistant observer at \$900, appointment terminated; record, excellent.
Gunter, John L. * .....	Kansas City, Mo. ....	Messenger boy at \$480, resigned; record, good.
Hennig, Reinholdt F. ...	Omaha, Nebr. ....	Assistant observer at \$1,080, resigned; record, excellent.
Hoerner, Miss Helen G.	Washington, D. C. ....	Promoted to clerk at \$1,200 from \$1,000.
Leshan, Joseph .....	New York, N. Y. ....	Observer, leave without pay extended to June 21, 1923, on account of continued ill health.
Linn, Joseph G .....	Chicago, Ill .....	Apprentice at \$600, resigned; record, good.
Maxwell, Paul F. ....	Wagon Wheel Gap, Colo	Observer at \$1,440, died March 5, 1923.
Miller, Miss Irene B. ...	Washington, D. C. ....	Designation changed to clerk at \$1,000 from addressograph operator at the same salary.
Neider, Rubey. ....	Chicago, Ill. ....	Appointed messenger boy at \$480.
Parker, William N. ....	Washington, D. C. ....	Clerk at \$1,200, died March 16, 1923.
Rathbone, Harold A. ...	Ithaca, N. Y. ....	Assistant observer, granted leave without pay from April 1 to June 30, 1923.
Reid, Clyde F. ....	San Francisco, Calif. ...	Assistant observer at \$1,080, resigned; record, good.
Ridgeway, Harry H. ....	Washington, D. C. ....	Skilled mechanic, on leave without pay on account of illness, restored to duty on March 16, 1923.
Ryan, Paul E .....	Indianapolis, Ind. ....	Messenger boy at \$480, resigned; record, excellent.
Samuels, Leroy T. ....	Washington, D. C. ....	Promoted to meteorologist at \$1,800 from \$1,620.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Shapiro, Mortimer A . . .	Chicago, Ill. . . . .	Promoted to apprentice at \$600 from messenger boy at \$480.
Small, Mrs. Annie E . . .	Washington, D. C. . . .	Promoted to minor clerk at \$1,000 from press feeder at \$840.
Swift, William J.* . . . .	Broken Arrow, Okla. . . .	Assistant observer at \$900, resigned; record good.
Underwood, John B . . . .	Miami, Fla . . . . .	Assistant observer at \$1,080, on leave without pay, resigned; record, fair.
Wakelee, David . . . . .	Pensacola, Fla. . . . .	Assistant observer at \$1,080, resigned; record, good.
Williams, Prentice* . . . .	Terre Haute, Ind. . . . .	Messenger boy at \$480, resigned; served but a few days.
Anderson, Reuben M. . . .	Duluth, Minn . . . . .	} Appointed assistant observer at \$1,080; temporary appointment at \$900 terminated.
Kee, Elmer M . . . . .	Jacksonville, Fla . . . .	
Lawler, Thomas A . . . .	Ellendale, N. Dak. . . . .	
Martin, James M. . . . .	Des Moines, Iowa. . . . .	
Marx, Edward H . . . . .	San Antonio, Tex . . . .	
Crosby, Carl R. . . . .	New Orleans, La . . . . .	} Appointed assistant observer at \$1,080.
Loucks, Kenneth W. . . . .	Jacksonville, Fla . . . .	
Reed, Guy L . . . . .	Richmond, Va . . . . .	
Sedlak, Oliver A . . . . .	Davenport, Iowa . . . . .	
Hitzelberger, Robert E.*	St. Joseph, Mo . . . . .	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Mindrup, John W.* . . . .	Terre Haute, Ind. . . . .	
Nicolai, Andrew M.* . . . .	Kansas City, Mo. . . . .	
Ramsey, Rayment R.* . . .	Indianapolis, Ind. . . . .	
Williams, Prentice* . . . .	Terre Haute, Ind. . . . .	

\* Indicates temporary appointment.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Baldwin, Marvin A. . . . .	Richmond, Va . . . . .	Drexel, Nebr., assistant.
Choun, Harry F. . . . .	St. Joseph, Mo. . . . .	Wagon Wheel Gap, Colo., assistant, pending further orders.
Dwight, Leo . . . . .	Santa Fe, N. Mex. . . . .	Denver, Colo., assistant.
Jefferson, Glenn . . . . .	Drexel, Nebr . . . . .	Omaha, Nebr., assistant.
Kee, Elmer M. . . . .	Jacksonville, Fla. . . . .	Key West, Fla., assistant.
Miller, Ross O. . . . .	Detroit, Mich . . . . .	Santa Fe, N. Mex., assistant.
Sanders, John E. . . . .	Wichita, Kans. . . . .	Apalachicola, Fla., in charge.
Trotter, Samuel B . . . .	Key West, Fla . . . . .	Knoxville, Tenn., in charge, pending further orders.

*Ch. H. Marvin.*

Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

APRIL, 1923.

## STOPPING PAYMENT ON GOVERNMENT CHECKS.

In a recent letter to the department, the Treasurer of the United States indicated the method to be followed in stopping payment on lost checks. Among the points covered are several of interest to station officials, as follows:

When a check has failed to reach a station to which it was mailed, or has been lost after reaching the station, a brief statement of the matter should be sent immediately to the Central Office. If the check has been received by the payee and subsequently lost, the statement should show whether or not the payee had indorsed it, and in what form. Any correspondence in the matter not available at the Central Office should be forwarded with the notice of non-receipt or loss. If there is no such correspondence, or if it does not bear the payee's signature, he should furnish a short statement of the facts over his signature, in order that his signature may be compared with the signature on the check, to determine possible forgery, if the check should be presented for payment.

If the check on which payment has been stopped should be recovered, the Central Office should be notified immediately, as the check will not be paid until the stoppage is formally withdrawn.

## A NOVEL USE OF FORECASTS.

When flour mills become infested with the Mediterranean moth, the larvæ of which gets into flour, the usual procedure is to close the mill tightly and "gas" the insects for several days. A mill at Williston, N. Dak., however, preferred to freeze the moth. The local Weather Bureau office was requested to notify the milling company whenever a temperature of  $-20^{\circ}$  or lower for at least several hours could be expected. On being informed that a sufficiently cold period was forecast, the company drew all fires and opened doors and windows. That night the temperature reached  $-30^{\circ}$  and did not go above  $-17^{\circ}$  the next day. According to the company, all moths and most of the eggs were frozen, and the process will not have to be repeated for two years. An additional advantage was the saving of many dollars worth of chemical insecticides.

**LISTS TO ACCOMPANY QUESTIONNAIRE**

A list of employees for whom field position questionnaires were submitted should accompany the questionnaire sheets. Instructions for forwarding this list will be found on page 3 of Personnel Classification Board Form No. 2 and are referred to in the third from the last paragraph of the circular letter of April 28, 1923. If such lists were not submitted at the time of rendering the questionnaire, prompt action should be taken to prepare and forward them to the Central Office.

**PREPARING FORM 3057.**

Numerous instances are noted each month of messages of one class being entered under the heading of another class on Form 3057. Messages should be grouped under the headings Forecast, River and Rainfall, Agricultural Meteorological, and Miscellaneous, as instructed on back of form, and should be entered accordingly. Failure to comply with these instructions is likely to result in improper billing and settlement.

Instructions on Form 3057 were revised, as indicated in TOPICS AND PERSONNEL for February, 1921, and the form was reprinted. Stations not using the revised form should call for a supply, and all old forms should be destroyed.

**PREPARING MATTER FOR MAILING TO TELEGRAPH DIVISION.**

The Central Office frequently receives by mail from stations telegrams and circuit reports not properly segregated or properly marked, in packages so loosely wrapped and tied that the most careful handling is necessary. Strict compliance with paragraphs 671, 672, and 673, Station Regulations, will prevent waste of time and labor at the Central Office in arranging, marking, and tying the contents of such packages.

As the law requires that telegrams be held three years, and as filing space at the Central Office is limited, it is necessary that packages of telegrams and reports be reduced to the smallest size possible and securely tied.

**CERTIFICATES ON REFUND APPLICATIONS.**

Occasionally an Application for Refund of retirement deductions (Form 3-R-6, Bureau of Pensions), after being executed by the applicant on page 1, is received at the Central Office with the certificate of administrative officer, required on pages 2, 4, and 6, filled in by the official in charge of the station where the applicant served. As the form must be filled in by the administrative officer of the department, it is necessary to return it to the applicant with the request that a new form be executed, thereby entailing additional expense for a second notary fee.

The applicant should fill in page 1 only, as required by instructions on the form, and return it to this office. The official in charge of a station should not fill in any of the data required in the certificate of the administrative officer on the remaining pages of the form.

#### REMINDERS.

*Preference cards.*—Preference cards (Form 4047-Mis.) should be rendered in duplicate on June 1 by all regular or permanent employees, except messengers, messenger boys, and laborers. Cards are desired also from assistant observers, printers, etc., who have been given temporary appointment pending the certification of eligibles. While it is not necessary for messengers, messenger boys, and laborers to submit cards, there is no objection to their doing so if they desire a change of station.

Comments under "Remarks and Special Requests", particularly when indicating the class of station desired or why the employee does not wish to be transferred, are helpful in filling vacancies or effecting transfers.

Station officials are reminded that the new efficiency forms should be rendered promptly on May 15.

#### CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of April, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

#### *Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Armstrong, Davisson...	Pittsburgh, Pa. ....	Appointed printer at \$1,300.
Baker, Willard R.* .....	Amarillo, Tex. ....	Apprentice at \$600, resigned; record, good.
Brotzman, Lloyd E. ....	Pittsburgh, Pa. ....	Printer at \$1,300, resigned; record, excellent.
Cassidy, James J. ....	Albany, N. Y. ....	Appointed printer at \$1,300; temporary appointment terminated.
Cole, Herbert E. ....	New York, N. Y. ....	Observer at \$1,440, resigned; record, excellent.
Cunningham, Leo I. ....	Philadelphia, Pa. ....	Promoted to messenger at \$600 from messenger boy at \$480.
Dailey, Fabius H. ....	Cape Henry, Va. ....	Promoted to vessel reporter at \$840 from laborer (telegraph lineman) at \$720.
Doermann, Bernard A. .	Dayton, Ohio. ....	Messenger boy at \$480, resigned; record, good.
Fennell, George H. ....	Albany, N. Y. ....	Messenger boy at \$480, resigned; record, excellent.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Ferguson, James H. ....	Groesbeck, Tex. ....	Appointed assistant observer at \$1,080; appointment as laborer (unskilled) at \$720 terminated.
Flemming, James C. ....	Reading, Pa. ....	Messenger boy at \$480, resigned; record, excellent.
Ganter, Charles B. ....	Galveston, Tex. ....	Messenger boy at \$480, resigned; record, excellent.
Gaskins, Willie H. jr.,*	Cape Henry, Va. ....	Appointed laborer (telegraph lineman) at \$720, temporarily, pending certification of eligibles.
Heine, Richard. ....	Phoenix, Ariz. ....	Assistant observer, granted leave without pay from April 8 to July 2, 1928, on account of ill health.
Holland, Miss Ada M. ...	Washington, D. C. ....	Promoted to messenger (telephone operator) at \$660 from \$600.
Johnson, Richard M. ....	Washington, D. C. ....	Promoted to messenger at \$600 from messenger boy at \$480.
Joyner, Nedd H. ....	Fresno, Calif. ....	Messenger boy at \$480, resigned; record, good.
Justmann, Elmer F. ....	Milwaukee, Wis. ....	Messenger at \$600, resigned; record, excellent.
McCarthy, John C. ....	St. Louis, Mo. ....	Assistant observer at \$1,080, resigned; record, good.
Madigan, Bernard M. ....	Sault Ste. Marie, Mich.	Appointed apprentice at \$480; temporary appointment terminated.
Merrill, Willard B.*. ....	Huron, S. Dak. ....	Assistant observer at \$900, resigned; record, good.
Moody, Elmer E. ....	Broken Arrow, Okla. ...	Laborer (unskilled) at \$720, resigned; record, fair.
Peck, Cecil R. ....	Ithaca, N. Y. ....	Promoted to observer at \$1,440 from \$1,260.
Smith, William L.*. ....	Washington, D. C. ....	Appointed press feeder at \$840, temporarily; appointment as messenger at \$660 terminated.
Sullivan, Samuel E. ....	Broken Arrow, Okla. ...	Appointed laborer (unskilled) at \$720.
Terry, Thomas Lee*....	Amarillo, Tex. ....	Appointed apprentice at \$600, temporarily, pending certification of eligibles.
Tufte, Erick. ....	Moorhead, Minn. ....	Assistant observer at \$1,080, on leave without pay, resigned; served but a few days.
DeLano, Harry M. ....	Royal Center, Ind. ....	} Appointed assistant observer at \$1,080.
Newman, Andrew B. ....	Detroit, Mich. ....	
Wiggin, Bernard L. ....	Cleveland, Ohio. ....	
Anderson, John M. ....	Sandy Hook, N. J. ....	} Appointed messenger boy at \$480; temporary appointment terminated.
Davis, Hubert A. ....	Raleigh, N. C. ....	
Tambling, Corydon L. ...	Saginaw, Mich. ....	
Cummins, Marion F. ....	Kansas City, Mo. ....	} Appointed messenger boy at \$480.
Hendley, Paul B. ....	Washington, D. C. ....	
Sansone, Nicholas W. ...	Albany, N. Y. ....	

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Armstrong, Lloyd T.*...	Galveston, Tex.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Ewell, Robert W.*.....	Dayton, Ohio.....	
Farrell, Boyd F.*.....	Fresno, Calif.....	
McClane, Oby B.*.....	Milwaukee, Wis.....	

\* Indicates temporary appointment.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Cummings, John A.....	Macon, Ga.....	St. Louis, Mo., assistant.
Moses, Fred I.....	Royal Center, Ind.....	Ithaca, N. Y., assistant.
Peck, Cecil R.....	Ithaca, N. Y.....	Drexel, Nebr., assistant.
Ramsay, Walter G.....	Helena, Mont.....	Pensacola, Fla., assistant.
Stoesen, Andrew R. W..	Apalachicola, Fla.....	Montgomery, Ala., assistant.
Swartz, John R.....	Cape Henry, Va.....	Chicago, Ill., assistant, pending further orders.

*C. H. Marvin.*

Chief of Bureau.



# WEATHER BUREAU TOPICS AND PERSONNEL

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MAY, 1923.

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## NEWSPAPER INTERVIEWS REGARDING HURRICANES.

The hurricane season of 1923 begins on June 1, and all stations on the south Atlantic and Gulf coasts have been asked to be on the alert in order that the best possible service may be rendered.

In past seasons, when the presence of a hurricane in the Caribbean Sea or Gulf of Mexico has been announced, confusion and uneasiness sometimes was created in coast cities, especially along the west Gulf coast, by newspaper items purporting to be statements by Weather Bureau officials at interior stations, which were alarming and at variance with the official bulletins and advices concerning the storm.

It is realized that newspapers desire news concerning hurricanes and that they naturally seek Weather Bureau officials for interviews and information. The forecaster at the Central Office issues advices at frequent intervals indicating the location, intensity, and direction of movement of a hurricane. These bulletins are as definite and complete as the information at hand warrants. The purpose of this note is to suggest to Weather Bureau officials, especially at interior stations, that they exercise caution in giving out information and interviews which may be alarming or may be so interpreted. It is believed that the best plan is to give out information which conforms to that sent out from Washington, and, as far as practicable, in the exact language of the official advices.

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## SUPERVISING FORECASTER.

In the August, 1920, number of TOPICS AND PERSONNEL, it was announced that Mr. E. H. Bowie had been designated Supervising Forecaster, under the provisions of paragraph 385, Station Regulations, and that until further orders he would prepare and issue weekly forecasts and hurricane warnings.

Mr. Bowie's designation as Supervising Forecaster will continue in effect, but the preparing of weekly forecasts and hurricane warnings hereafter will devolve on Mr. Bowie and Mr. Mitchell during their respective months of forecast assignment for the Washington district. During temporary assignment of other forecasters to forecast duty in Washington, the weekly forecasts and hurricane warnings will be issued by Mr. Bowie or Mr. Mitchell, as designated by the Supervising Forecaster.

TRAVEL FUNDS.

As the travel fund of the bureau is almost exhausted, it is desired that whenever possible officials in charge of stations postpone substations inspections and other travel until after July 1. During the remainder of this fiscal year, it will be possible to authorize travel only in the most urgent cases.

SUBSTATION TELEGRAPH OR TELEPHONE CONNECTIONS.

In reporting the opening of substations, station officials often fail to give information necessary to the Telegraph Division in auditing accounts. Whenever a substation is established, that division should be informed as follows:

Will "other line" tolls be chargeable? If so, name both the main company (Western Union, Postal, etc.) and the connecting line, whether the latter be telegraph or telephone. If telegraph, give also the toll rate and the office hours in standard time in local use. If telephone, state also name of company and whether free telephone service can be obtained; if not, state toll rates and whether the observer is a telephone subscriber.

In all cases where service is by telephone, the station to station rate should be arranged for if practicable. When service between a Weather Bureau station and a substation is by direct telephone, give name of company and toll rate.

In some instances where the telegraph or telephone connections have not been reported to the Central Office, either by letter or on Form 3057, tolls have accumulated for several years. To prevent such conditions, the Telegraph Division desires to make a complete record of "other line" connections at substations. Therefore, officials in charge are requested to report to that division before July 1, 1923, the names of all substations carrying "other line" tolls, giving the rate in each case. Any subsequent changes in the rate should be promptly reported.

RUNAWAY KITES.

Letters received recently from a timber cruising party near Gemmel, in northern Minnesota, tell of finding two Weather Bureau kites in the woods of that vicinity. Records of the bureau show that these are two of the several kites that broke away from the aerological station at Ellendale, N. Dak., on March 28. It is thought that the head kite, bearing the self-recording instrument and its record of pressure, temperature, humidity, and wind velocity, must be in the same vicinity, but efforts to find it have been unsuccessful so far. Gemmel is about 260 miles in an air-line northeast of Ellendale. It is unusual for kites to travel so great a distance.

When one kite breaks away, there is nothing to hold its surfaces

at the proper angle to the wind, and it comes tumbling and sliding to the ground within a few miles. But when a "string" of kites breaks away, the length of steel wire that usually goes with them is almost sufficient to stabilize the kites, particularly when the curled and tangled end catches in trees or fences as it drags along. When so caught, the kites rise until pulled loose by the stronger winds above, then they proceed at diminishing altitudes until the wire catches again. This probably is repeated many times in long journeys such as that referred to above.

#### EMPLOYEES TAKING ADVANCED TRAINING.

The department has called for a complete list of all members of the scientific staff of the Weather Bureau who are taking advanced training in any line. In order that this information may be furnished, officials in charge of stations are requested to report promptly by letter (1) the name of any employee, including himself when appropriate, who is taking advanced training in any line; (2) a brief description of the employee's official duties; (3) the name of the institution or organization furnishing such training; and (4) the name of the course or line of work, with a brief description of the advanced training or work being taken.

This inquiry should not be construed as in any way indicating that the department does not approve the taking of advanced work when conditions permit.

#### BREAKING MAXIMUM THERMOMETERS.

Cooperative observers occasionally break maximum thermometers in trying to set them before they become adjusted to the colder air outside after removal from a warm room. Under similar circumstances, thermometers have been reported as being hard to set, when the fact is that it is impossible to set a thermometer under such conditions.

Reports of such occurrences recently received at the Central Office indicate that possibly a word of warning from section directors to cooperative observers, at a convenient opportunity, would prevent breakage of thermometers.

#### COVERS FOR TOPICS AND PERSONNEL.

Since issuing the 1920-1922 index for TOPICS AND PERSONNEL, several requests have been received for printed covers, apparently under the impression that the 1920-1922 numbers will constitute a volume. As indicated in the number for October, 1922, the Central Office intends to group the publication in volumes of about 500 pages. Therefore it is not likely that the volume beginning with 1920 will be com-

pleted before the end of 1924. Though indexes will be issued annually, printed covers will not be available until the volume is completed.

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**RETIREMENT.**

Mr. James H. Melton, of the Central Office, was retired on May 18, 1923, at his own request, under the provisions of the act of May 22, 1920. Mr. Melton was born May 19, 1853, near Chaptico, Md. He entered the Signal Corps February 1, 1878, and served at a number of stations in Florida and New England, including one winter at the mountain station on Mount Washington. In 1893 he was transferred to the Central Office, with which he has been connected for almost thirty years.

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**DEATH.**

Mr. Edward W. McGann, retired, died at Norfolk, Va., on May 16, 1923. Mr. McGann was one of the veterans of the service, having entered the Signal Corps February 29, 1872, and been in charge at Norfolk, Baltimore, Atlantic City, Rochester, New Brunswick, and Charles City between 1873 and 1913. Reference to Mr. McGann in connection with his retirement may be found in TOPICS AND PERSONNEL for July, 1920.

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**CHANGES IN PERSONNEL.**

The following, relative to changes in the personnel of the Weather Bureau during the month of May, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Barrett, Claud C.....	San Francisco, Calif. ....	Appointed messenger boy at \$480.
Centen, Winford J.....	Green Bay, Wis.....	Appointed assistant observer at \$1,080; appointment as messenger boy at \$480 terminated.
Charless, William A....	Amarillo, Tex.....	Appointed apprentice at \$300.
Collins, Elmer.....	Washington, D. C.....	Appointed engineer at \$1,800, by transfer from the office of Superintendent, State, War and Navy buildings.
Cummins, Marion F....	Kansas City, Mo.....	Messenger boy at \$480, appointment terminated; record, fair.
Currey, Bonnie A.*....	Groesbeck, Tex.....	Assistant observer at \$900, appointment terminated; record, excellent.
Dague, Charles I.....	Honolulu, Hawaii.....	Promoted to meteorologist at \$1,620 from observer at \$1,440.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Gregory, John W.....	Amarillo, Tex.....	Messenger boy at \$480, resigned; record, excellent.
Guthrie, Leon J.....	Atlanta, Ga.....	Meteorologist at \$1,800, resigned; record, good.
Harris, Robert.....	Washington, D. C.....	Laborer (unskilled), granted leave without pay from April 20 to August 19, 1928, on account of ill health.
Jermin, Thomas Edward	Washington, D. C.....	Appointed clerk at \$1,000; appointment as temporary assistant observer at \$900 terminated.
Kertson, Ross J.....	Tatoosh Island, Wash..	Repairman at \$1,000, resigned; record, poor.
Lewis, Everett*.....	Ellendale, N. Dak.....	Assistant observer at \$900, appointment terminated; record, excellent.
Long, Walter P.....	Washington, D. C.....	Appointed clerk at \$1,200, by reinstatement in the department.
Magrum, Albert F.....	Washington, D. C.....	Promoted to clerk at \$1,400 from \$1,200.
Maldonado, Americo*..	San Juan, P. R.....	Appointed apprentice at \$600, temporarily, pending certification of eligibles.
Manning, Charles J., jr.*	Harrisburg, Pa.....	Messenger boy at \$480, resigned; record, good.
Masters, Robert M.....	Miami, Fla.....	Appointed assistant observer at \$1,080; temporary appointment at \$900 terminated.
Melton, James H.....	Washington, D. C.....	Clerk at \$1,400, retired.
Mewshaw, John F.....	Washington, D. C.....	Instrument maker at \$1,800, transferred to the Naval Observatory.
Mitchell, William A....	Savannah, Ga.....	Reduced to meteorologist at \$1,020 from \$1,800, without prejudice, because of preferred assignment.
O'Hara, Joseph W.....	Syracuse, N. Y.....	Apprentice at \$480, resigned; record, excellent.
Peltier, Ralph C.....	Lansing, Mich.....	Messenger boy at \$480, resigned; record, good.
Phillips, Victor V.....	Groesbeck, Tex.....	Appointed laborer (unskilled) at \$720.
Ramos, Antonio M.*....	San Juan, P. R.....	Assistant observer at \$1,080, resigned; record, fair.
Ramsey, Rayment R.*..	Indianapolis, Ind.....	Messenger boy at \$480, resigned; record, good.
Schiffman, William G.*.	San Francisco, Calif...	Messenger boy at \$480, appointment terminated; record, good.
Sherwood, Howard E....	Saginaw, Mich.....	Assistant observer at \$1,080, resigned; record, fair.
Stutts, Miss Viola.....	Birmingham, Ala.....	Messenger, name changed on the rolls from Mrs. Viola S. Lauderdale.
Terry, Thomas Lee*....	Amarillo, Tex.....	Apprentice at \$600, appointment terminated; record, fair.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Williams, James Thaxter	Helena, Mont.....	Appointed assistant observer at \$1,080; appointment as messenger boy at \$480 terminated.
Wurtz, George B.....	Lexington, Ky.....	Promoted to meteorologist at \$1,800 from \$1,620.
Wyman, Kenneth N.* ..	Syracuse, N. Y. ....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Holmes, Raiford L. ....	Macon, Ga.....	} Appointed assistant observer at \$1,080.
Kohl, William E. ....	Huron, S. Dak.....	
McClurg, Roy J.....	Saginaw, Mich.....	
Ewell, Robert W. ....	Dayton, Ohio.....	} Appointed messenger boy at \$480; temporary appointment terminated.
Hitzelberger, Robert E..	St. Joseph, Mo.....	
Mindrup, John W. ....	Terre Haute, Ind.....	
Nicolai, Andrew M. ....	Kansas City, Mo.....	
Angle, Robert S.*.....	Lansing, Mich.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Axtell, Robert*.....	Amarillo, Tex.....	
Moore, George R.*.....	Harrisburg, Pa.....	
Morris, Harold R.*.....	Reading, Pa.....	
Sauber, Abraham D.*...	Green Bay, Wis.....	
Wamsley, J. Gordon.*..	Kansas City, Mo.....	

\* Indicates temporary appointment.

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Brooks, Arthur W.....	Groesbeck, Tex.....	Broken Arrow, Okla., assistant.
Centen, Winford J.....	Green Bay, Wis.....	New York, N. Y., assistant.
Choate, Herbert L.....	Drexel, Nebr.....	Washington, D. C., observer.
Dague, Charles I.....	† Washington, D. C.....	Honolulu, Hawaii, assistant.
Desmond, Ralph H.....	Dallas, Tex.....	Groesbeck, Tex., assistant.
Jermin, Thomas E.....	Madison, Wis.....	Washington, D. C., clerk.
Mitchell, William A....	Lexington, Ky.....	Savannah, Ga., assistant.
Owen, Elbert A.....	Key West, Fla.....	Dallas, Tex., assistant.
Trotter, Samuel B.....	Knoxville, Tenn.....	Key West, Fla., assistant.
Wurtz, George B.....	Savannah, Ga.....	Lexington, Ky., in charge.

† Temporarily on fruit-frost duty in California.



Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

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JUNE, 1923.

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## BUDGET SAVINGS.

The policy of the Government in conducting its business is portrayed in an article in the Official Record of June 27 entitled "President Commends Year's Achievements". While it would be superfluous to attempt to indicate such policy more clearly, it will not be amiss to emphasize the necessity for conducting activities during the current fiscal year with the minimum expense consistent with efficient administration. Some savings can be effected by reducing as much as possible the employment of emergency assistance in connection with temporary details away from station and during intervals between resignations and arrival of new employee, etc. There is opportunity to economize in using coal and stationery, and in the items authorized as "Miscellaneous services and supplies" in paragraph 1 of Circular 1.

The economies of the past year have aided materially in carrying out the policy of the President and the Director of the Budget by making it possible to close the year with a reserve and balance that compare favorably with those of other Government organizations when the maintenance of the enormous daily observational and forecast service is considered.

## PREPARING FORM 1069-MET'L.

Instructions No. 7, amending paragraph 473-R, Station Regulations, were mailed to all stations on June 26. This amendment, which will be referred to hereinafter as paragraph 473-2R, makes it incumbent upon station officials who have authority to issue local forecasts and those engaged in practise forecast work to exercise care in preparing Form 1069-Met'l. The symbol "R" should be used for all precipitation forecasts, including thunder-storms and thunder-showers, that do not come within the provisions of paragraph 473-2R. The thunder-storm symbol (T) should be used only for forecasts to which paragraph 473-2R applies.

Instructions in conformity with the foregoing will be printed on the back of the next issue of Form 1069-Met'l. Those now at stations will be used until the supply is exhausted.

COAL.

The Federal Purchasing Board has suggested that wherever storage facilities are available, it will be advisable to lay in coal during the summer months for next winter's requirements. Not only can lower prices be secured in the dull season, but early action will, to some extent, relieve traffic congestion later.

Officials in charge of stations at which coal is ordinarily purchased are advised to take action soon after July 1 to lay in as much of the winter's requirements as storage facilities will permit.

TRANSPORTATION REQUESTS FOR EMERGENCY USE.

As customary, a supply of transportation requests for use in emergencies during the year ending June 30, 1924, has been mailed to Chicago, Denver, Los Angeles, New Orleans, Portland, Oreg., and San Francisco. Such requests will be available for emergency use as outlined in the October, 1918, number of this publication.

RETIREMENT.

Mr. Bernard T. McCartney, of the Central Office, was retired June 27, 1923, at his own request. Mr. McCartney was born in Baltimore County, Md., on June 27, 1858. After serving three years in the Navy and twenty-seven at the State, War, and Navy Building, he came to the Weather Bureau as engineer on September 4, 1909, and served continuously in that capacity until his retirement.

DEATHS.

Mr. Robert Harris died on June 13, 1923, his forty-first birthday. He was born at Winchester, Va. His service, as laborer at the Central Office, extended from May 1, 1908, until he was incapacitated by illness several months before his death.

Mr. John M. Haynes, retired, died June 21, 1923, at Lake Worth, Fla. Reference to Mr. Haynes, in connection with his retirement, may be found in *TOPICS AND PERSONNEL* for April, 1921.

CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of June, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Bottiger, Walter M.*...	Baltimore, Md.....	Assistant observer at \$660, appointment terminated; record, excellent.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Bower, Charles J . . . . .	Memphis, Tenn . . . . .	Assistant observer at \$1,080, resigned; record, excellent.
Brotzman, Lloyd E . . . . .	Pittsburgh, Pa . . . . .	Appointed observer at \$1,260.
Cooper, William E . . . . .	Knoxville, Tenn . . . . .	Messenger boy at \$600, resigned; record, excellent.
Davis, Milton W . . . . .	Chicago, Ill . . . . .	Promoted to observer at \$1,440 from \$1,260.
Guthrie, Leon J . . . . .	Atlanta, Ga . . . . .	Appointed meteorologist at \$1,800, by reinstatement.
Haas, Nelson W . . . . .	Washington, D. C . . . . .	Reduced to clerk at \$1,200 from observer at \$1,260, without prejudice, because of preferred assignment.
Hamm, John R . . . . .	Drexel, Nebr . . . . .	Appointed laborer (unskilled) at \$600.
Harris, Robert . . . . .	Washington, D. C . . . . .	Laborer (unskilled) at \$660, on leave without pay on account of illness, died June 18, 1928.
Hillis, William L . . . . .	Terre Haute, Ind . . . . .	Appointed assistant observer at \$1,080; appointment as messenger boy at \$480 terminated.
Johnson, Leland H . . . . .	Rapid City, S. Dak . . . . .	Promoted to messenger at \$600 from messenger boy at \$480.
Keiter, I. Martin* . . . . .	Washington, D. C . . . . .	Appointed assistant observer at \$1,080, temporarily.
Kennedy, Gerald S . . . . .	Grand Haven, Mich . . . . .	Observer at \$1,440, resigned; record, excellent.
Kuechler, John Harry . . . . .	Columbus, Ohio . . . . .	Messenger boy at \$480, resigned; record, excellent.
Lawrence, Robert V . . . . .	Royal Center, Ind . . . . .	Promoted to observer at \$1,260 from assistant observer at \$1,080.
Lemon, Claude W . . . . .	Drexel, Nebr . . . . .	Laborer (unskilled) at \$600, resigned; record, excellent.
Leshan, Joseph . . . . .	New York, N. Y . . . . .	Observer at \$1,260, on leave without pay on account of illness, resigned; record, good.
Lillie, Don M . . . . .	Honolulu, Hawaii . . . . .	Meteorologist at \$1,620, resigned; record, excellent.
Long, Samuel C . . . . .	Washington, D. C . . . . .	Lithographer, granted leave without pay from June 21 to September 20, 1928, on account of ill health.
Long, Walter P . . . . .	Washington, D. C . . . . .	Promoted to observer at \$1,260 from clerk at \$1,200.
McCartney, Bernard T . . . . .	Washington, D. C . . . . .	Engineer at \$1,300, retired.
McClane, Oby B.* . . . . .	Milwaukee, Wis . . . . .	Messenger boy at \$480, resigned; record, good.
Malone, John W.* . . . . .	Washington, D. C . . . . .	Appointed lithographer at \$1,400, temporarily, pending certification of eligibles.
Maynard, Glendon D . . . . .	Indianapolis, Ind . . . . .	Appointed messenger boy at \$480.
Mitchell, Charles L . . . . .	Washington, D. C . . . . .	Promoted to meteorologist at \$8,600 from \$8,240.
Morris, Harold R.* . . . . .	Reading, Pa . . . . .	Messenger boy at \$480, resigned; served but a few days.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Pfeifer, William E. ....	Washington, D. C. ....	Appointed instrument maker at \$1,800.
Rose, William C. ....	Oklahoma City, Okla. .	Printer at \$1,800, resigned; record, good.
Russell, Sidney B. ....	Chicago, Ill. ....	Assistant observer at \$1,080, resigned; record, good.
Simes, Edward F. ....	Columbus, Ohio. ....	Restored to full-time duty as observer at \$1,260 from half-time duty.
Smith, J. Warren. ....	Washington, D. C. ....	Meteorologist, granted leave without pay from June 7 to October 6, 1928, on account of ill health.
Thornton, Walter S. ....	Washington, D. C. ....	Promoted to lithographer at \$1,500 from \$1,400.
Viens, Bernard G. ....	Washington, D. C. ....	Assistant observer at \$1,080, resigned; record, good.
Willett, Hurd C. ....	Baltimore, Md. ....	Appointed assistant observer at \$660, a like amount being paid by the Maryland State Weather Service.
Woolard, Edgar W. ....	Washington, D. C. ....	Promoted to observer at \$1,620 from \$1,440.
Yoder, Lee O. ....	Chicago, Ill. ....	Promoted to observer at \$1,440 from \$1,260.
Dickstein, Irving. ....	New Orleans, La. ....	} Appointed assistant observer at \$1,080.
Eshom, Mason G. ....	Oklahoma City, Okla. .	
Maher, Raymond E. ....	Royal Center, Ind. ....	
Mehringer, Walter R. ...	Madison, Wis. ....	
Van Tullenhar, Clayton F.	Broken Arrow, Okla. .	
Wilcox, George E. ....	Memphis, Tenn. ....	
Flynn, Francis L. ....	Erie, Pa. ....	} Appointed messenger boy at \$480; temporary appointment terminated.
Moore, George R. ....	Harrisburg, Pa. ....	
York, Darwin S. ....	Seranton, Pa. ....	
Barth, Clarence H.* ....	Columbus, Ohio. ....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Bingham, Frank C.* ....	Helena, Mont. ....	
Hertwig, Otto S.* ....	Reading, Pa. ....	
Lewis, Sherwood L.* ....	Knoxville, Tenn. ....	
Maltry, Jacob P.* ....	Milwaukee, Wis. ....	

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Christensen, Arthur H. .	Oklahoma City, Okla. .	Des Moines, Iowa, assistant.
Davis, Milton W. ....	Des Moines, Iowa. ....	Chicago, Ill., assistant.
Lawrence, Robert V. ...	Royal Center, Ind. ....	Washington, D. C., observer.
Long, Arthur R. ....	Broken Arrow, Okla. .	Memphis, Tenn., assistant.
Sands, George O. ....	Twin, Wash. ....	Port Angeles, Wash., repairman.

\* Indicates temporary appointment.



Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

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JULY, 1923.

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## REDUCED RATE ROUND-TRIP TICKETS.

The Traffic Manager of the Department of Agriculture has invited attention to the reduced rate round-trip tickets that may be obtained in summer. With a view to the greatest possible economy, it is necessary to take advantage of such rates whenever practicable. Summer tourist tickets are now on sale to many points in the United States and may be used when the traveler desires to go to or through such points and return. Other reduced rate tickets which are now obtainable do not require validation and, when a saving is possible thereby, may be used to points short of the destination of the ticket and return. Every effort should be made to secure the most economical transportation.

## REQUESTS FOR EXHIBITS.

Paragraph 226 of Administrative Regulations recently has been amended to provide that all requests for exhibits or for participation in expositions, fairs, etc., and all correspondence relating thereto received by any of the bureaus or offices of the department, shall be referred to the Director of Extension Work, who will determine the action to be taken.

It is desired that station officials send to the Central Office all correspondence or related papers when forwarding requests for exhibits, etc., or making such recommendations, in order that the case may be placed promptly and completely before the Director of Extension Work.

## PRACTISE FORECASTS DURING 1924.

The grouping of States for practise forecasts for the calendar year 1924 will be as follows:

- Group 1. Ohio and western New York.
- Group 2. North Carolina and South Carolina.
- Group 3. Iowa and Minnesota.
- Group 4. Indiana and Lower Michigan.
- Group 5. Louisiana and Arkansas.
- Group 6. Colorado and New Mexico.
- Group 7. Washington and Oregon.
- Group 8. Northern California and southern California.

Applications for authority to engage in practise forecast work dur-

ing 1924. will be considered under the same conditions as set forth in TOPICS AND PERSONNEL for September, 1922.

Applications should be made prior to December 15, 1923.

**NEW FORM OF FORECAST CHART (CA).**

Glass weather maps at a considerable number of commercial exchanges are prepared by employees of these organizations and not by employees of the Weather Bureau. As a rule the data and isobars are furnished by the Weather Bureau on charts prepared with pencil, which are posted on or near the glass maps for reference in the event of questions arising as to the accuracy of entries on the latter. In a few instances these charts have met all the needs of the exchanges, and have supplanted the glass maps. Their preparation involves considerable extra work, as at a majority of stations they are made independently of the station chart A. Therefore, in order to curtail the work involved and at the same time provide a better chart for the exchanges, a special form has been prepared for use at stations where applicable. This chart, designated CA, is printed on thin paper. The base is the same as that used for the daily maps (Form C) issued at the Central Office, the stations being indicated by names and circles. It is intended that stations which prepare pencil copies for exchanges or other interests shall use Map Form CA in lieu of Map Form A. They are bound in books containing 65 copies each and are carefully registered so that as many duplicates as may be required can be obtained by means of carbon paper. The duplicates should be torn or cut out carefully and the original retained for station use.

Forms CA and carbon paper of suitable size are now available and may be secured on requisition. Care is urged in protecting the carbon paper against damage so that each sheet, in the interest of economy, may be used to the limit of its duplicating capacity.

**NEW FORM 1038-METL.**

Form 1038-Metl. has been modified to make it adaptable to all stations where this type of bulletin is issued. A proof of the new form was submitted to stations concerned for comments and suggestions. It met with general approval, with the exception of a few suggestions for space allowances, most of which were adopted. Three station officials expressed a desire for the retention of the 24-hour temperature change column. These data, although of some value, require time in preparation and there is limited demand therefor. Recipients of the bulletin desiring this information can easily secure it by reference to the previous issue. Therefore, the temperature change column is omitted. The new forms provide for tabular data in close conformity with the data tables in station weather maps.

The new form will not be used until the present supply of the old forms at stations and in stock has been exhausted.

#### EARLY STORM WARNINGS ON LAKE MICHIGAN.

By the recent closing of the Weather Bureau's storm warning display station at Glen Haven, Mich., the bureau loses official connection with the dean of storm warning displaymen on the Great Lakes, Mr. David H. Day.

Storm warning displays were begun at Glen Haven about 1880, when Mr. Day built a telegraph line to that place for a large transportation company whose boats stopped there for fuel in operating between Chicago and Ogdensburg. Those were days of small craft and practically all traffic passed through the Glen Haven channel. Mr. Day has seen from Glen Haven as many as 150 vessels at one time, and it was not uncommon for 40 or 50 to take shelter at once in the near-by South Manitou harbor. Wrecks in that locality were numerous. The station was closed because under present day conditions the Glen Haven channel is little used and other display stations provide all necessary service.

#### EXTENSION OF AEROLOGICAL SERVICE.

A small increase in the appropriation for Aerological Investigations, noted in TOPICS AND PERSONNEL for February, 1923, has made possible the inauguration of pilot balloon observations at one additional station, Memphis, Tenn. These observations were begun on July 1, 1923, and are telegraphed to Chicago and Washington. Later the original records of the observations are mailed to the Central Office for reduction and study.

With the addition of this station, and with those operated by the Army and Navy, the eastern half of the country is fairly well covered. West of the Great Plains, however, there is an extensive area almost entirely without free air data, the only exceptions being pilot balloon observations at Denver and at four stations along the Pacific coast.

Through cooperation with authorities of the Dutch West Indies, pilot balloon observations are being made at Curacao during the hurricane season. Possibly arrangements can be made later to have them taken throughout the year. Much of the instrumental equipment has been furnished by the Weather Bureau, in return for which the data are furnished to the bureau by radio or cable. These observations, with those at San Juan and Key West, furnish information of value in connection with the formation and movement of hurricanes.

Another example of mutually helpful cooperation in pilot balloon work is the furnishing of equipment, through the Department of Terrestrial Magnetism of the Carnegie Institution, to the Apia Ob-

servatory, Samoan Islands. In this case also, copies of the observations are to be forwarded to the Weather Bureau for study.

#### NATIONAL ELIMINATION BALLOON RACE.

The annual National Elimination Balloon Race began at Indianapolis, Ind., when 14 entrants, 7 representing the Army or Navy and 7 being civilians, left the ground successively about 4 p. m. of July 4, 1923. Owing to numerous thunder-storms, which forced the majority of the balloons to an early landing, the distances covered in this race were disappointing, and the race was marred by the drowning of Lieutenants Roth and Hull in Lake Erie. The winner, Lieut. R. S. Olmstead, U. S. A., landed at Marilla, N. Y., 450 miles from Indianapolis. Lieut. J. B. Lawrence, U. S. N., was second, having traveled 398 miles to Glen Campbell, Pa. All balloons moved in directions between north-northeast and east-northeast.

One of the civilian entrants, Mr. Ralph Upson, of Detroit, was accompanied by Mr. C. G. Andrus, of the Due West aerological station, as aid and meteorological observer. Their balloon was new, of the largest size permissible under the rules of the race, and was equipped to use to advantage the most up-to-date methods of ballooning, including the reception of meteorological reports and other information by radio. They left Indianapolis at 4:29 p. m. and traveled northeast. At 1:59 a. m. of July 5, when at an elevation of 5,800 feet, the balloon suddenly burst and started rapidly downward. The appendix bridle was hastily cut, permitting the balloon to form a parachute; and all ballast, including 52 30-pound sand-bags and an oxygen tank weighing 86 pounds, was hurriedly thrown out. The descent was rapid at first, then slower, owing to the efficiency of the parachute, and in 6 minutes the basket gently landed within a few feet of a farmhouse and tree, over which the balloon gracefully draped itself. Awakened by the bombardment of sand bags, the occupants of the house had fled, scantily clad, into a neighboring wheat-field. It was more than half an hour before they could be reassured sufficiently to return to the house. The landing point was found to be near Wapakoneta, Ohio, about 125 miles northeast of Indianapolis.

Radio broadcasts of the forecasts and synopses of weather conditions were received perfectly from the WGY station at Schenectady and were of material assistance in directing the flight.

#### REPORT ON EMPLOYEES LEAVING THE SERVICE.

Notwithstanding requests, in TOPICS AND PERSONNEL for March of 1922 and March of 1923, that officials in charge report character of services of an employee when forwarding his resignation or acknowledging notice of termination of his services, many resignations and acknowledgements are received at this office without the necessary reports.

Frequently it is necessary to call for the report by letter and occasionally by telegram. As it is sometimes not possible to rate properly the services of an employee without the desired report and accompanying data, it is requested that officials in charge give the matter particular attention.

#### BONUS AND PROJECT DATA ON PAY-ROLLS.

The bonus should not be entered for new employees, regardless of their length of service, until such employee has received official notice that it has been granted. The first payment of the bonus will be vouchered by the Central Office, and will be computed from the date on which the bonus allowance became effective.

As each pay-roll must show the allocations to projects, it is essential that the pay-rolls be correct and that the data for each employee named thereon be complete when it is forwarded to the Central Office. When there is doubt as to an employee's pay status, his account should be rendered on Form 3 to avoid possible changes in the station pay-roll, as such changes would delay payment to every one on that roll.

As the project data requirement has greatly increased the work at the Central Office in connection with pay-rolls, it will not be possible to correct pay-rolls there, and practically all incorrect rolls will have to be returned to station for correction.

#### RETIREMENT.

Mr. George Beesley, repairman, was retired July 5, 1923, at his own request. Mr. Beesley was born on the Atlantic Ocean, July 6, 1856. He entered the Weather Bureau at Neah Bay, Wash., on September 20, 1902, but was out of the service from April of 1903 to October of 1906. Since the latter date he has been stationed at Sekiou, Wash., from November to March of each season, charged with maintaining a section of the Port Angeles-Tatoosh Island telegraph line.

#### DEATHS.

Mr. Harry C. Metcalf died July 1, 1923, at Knoxville, Tenn., after an illness brought on by an attack of influenza last winter. Mr. Metcalf was born August 10, 1889, at Knoxville, where he entered the Weather Bureau April 1, 1907, and served until 1909; from 1912 to 1917; and since September of 1920, being in charge during the last-named period. Mr. Metcalf served also at Augusta, Philadelphia, Fort Smith, and Richmond.

Mr. Delos T. Maring, of the Central Office, died July 18, 1923. Though ill for a year or more, and failing in recent months, he remained on duty until a day or two before he died. Mr. Maring was born at Mendon, Mich., on February 13, 1859. He enlisted in the Signal Corps on January 16, 1884, and, excepting the usual training

period at Fort Myer and a short assignment in New York City, served only at the Central Office. For many years he was principal assistant to Professor Marvin in the Instrument Division, and having a natural mechanical aptitude, contributed important suggestions and ideas for an improved instrumental equipment of the service. By his industry and conscientious application to duty he aided greatly in maintaining the work of that division at a high state of efficiency. He succeeded Professor Marvin as chief of the Instrument Division on October 1, 1913. On March 24, 1914, he was transferred to the Division of Stations and Accounts and was in charge thereof until his death.

CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of July, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Angle, Robert S. ....	Lansing, Mich. ....	Appointed messenger boy at \$480; temporary appointment terminated.
Ashton, John C. ....	Washington, D. C. ....	Promoted to chief auditor at \$2,160 from clerk at \$1,800.
Axtell, Robert* ....	Amarillo, Tex. ....	Promoted to apprentice at \$600 from messenger boy at \$480.
Barth, Clarence H.* ....	Columbus, Ohio. ....	Messenger boy at \$480, resigned; record, good.
Beesley, George. ....	Sekiou, Wash. ....	Repairman at \$900, on furlough without pay, retired.
Bingham, Frank C.* ....	Helena, Mont. ....	Messenger boy at \$480, resigned; record, fair.
Canaday, George L. ....	Charleston, S. C. ....	Appointed assistant observer at \$1,080; appointment as messenger boy at \$480 terminated.
Charless, William A. ....	Amarillo, Tex. ....	Apprentice at \$600, resigned; record, good.
Clarke, Joseph. ....	Washington, D. C. ....	Promoted to messenger at \$660 from messenger boy at \$600.
Coates, Joseph, jr., ....	Charleston, S. C. ....	Appointed messenger boy at \$480.
Edge, Raymond K. ....	Savannah, Ga. ....	Messenger boy at \$480, resigned; record, excellent.
Evans, Joseph W. ....	Augusta, Ga. ....	Promoted to messenger at \$600 from messenger boy at \$480.
Farrell, Boyd F. ....	Fresno, Calif. ....	Appointed messenger boy at \$480; temporary appointment terminated.
Gaskins, Willie H., jr. ...	Cape Henry, Va. ....	Appointed laborer (telegraph lineman) at \$720; temporary appointment terminated.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Graf, Fred M.....	Washington, D. C.....	Promoted to clerk at \$1,800 from \$1,600.
Hare, Walter B.....	Houston, Tex.....	Meteorologist, granted leave without pay from July 16 to September 4, 1923.
Heyer, Hobert E.....	Grand Haven, Mich ...	Promoted to meteorologist at \$1,620 from observer at \$1,440.
Hope, James J.....	Washington, D. C.....	Promoted to clerk at \$1,600 from clerk (telegraph operator) at \$1,400.
Knight, Norman L.....	Washington, D. C.....	Promoted to clerk at \$1,400 from \$1,200.
Lee, William D.....	Washington, D. C.....	Promoted to clerk at \$1,400 from \$1,200.
Little, George W.....	Ithaca, N. Y .....	Messenger at \$600, resigned; record, excellent.
Maring, Delos T.....	Washington, D. C.....	Chief of Division of Stations and Accounts at \$2,750, died July 18, 1923.
Metcalf, Harry C.....	Knoxville, Tenn.....	Meteorologist at \$1,620, on leave without pay from May 23, 1923, on account of illness; died July 1, 1923.
Mindrup, John W.....	Terre Haute, Ind.....	Promoted to apprentice at \$600 from messenger boy at \$480.
Myers, Fred.....	Tatoosh Island, Wash..	Promoted to observer at \$1,260 from assistant observer at \$1,080.
Parker, Perry *.....	Tatoosh Island, Wash..	Assistant observer at \$1,080, resigned; record, excellent.
Pittman, J. Melson*....	Oklahoma City, Okla..	Appointed printer at \$1,300, temporarily, pending certification of eligibles; temporary appointment as assistant observer at \$900 terminated.
Reed, Wilson, jr., .....	Norfolk, Va .....	Appointed assistant observer at \$1,080; appointment as apprentice at \$600 terminated.
Rhodes, Miss Callie E...	Washington, D. C.....	Promoted to clerk at \$1,200 from \$1,000.
Richards, George M....	Washington, D. C.....	Promoted to clerk at \$1,800 from \$1,600.
Rohrer, Charles W.....	Washington, D. C.....	Promoted to personnel clerk at \$2,160 from clerk at \$1,800.
Schinnerer, William S..	Washington, D. C.....	Compositor at \$1,440, resigned; record, excellent.
Shaffer, Charles T.....	Washington, D. C.....	Designation changed to skilled mechanic (carpenter) at \$1,200 from carpenter at the same salary.
Sullivan, Miss Rosemary.	Washington, D. C.....	Promoted to clerk at \$1,200 from \$1,000.
Tambling, Corydon L...	Saginaw, Mich.....	Messenger boy at \$480, resigned; record, good.
Thickstun, William R..	Washington, D. C.....	Promoted to clerk (draftsman) at \$1,600 from \$1,400.
Wadley, Miss Anna.....	Washington, D. C.....	Clerk granted leave without pay from July 25 to October 24, 1923, on account of ill health.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Weber, William .....	Washington, D. C. ....	Promoted to chief clerk at \$2,500 from personnel clerk at \$2,040.
Weightman, R. Hanson.	Washington, D. C. ....	Promoted to Chief of Division of Stations and Accounts at \$2,750 from chief clerk at \$2,500.
Martin, Robert J. ....	Houston, Tex. ....	} Appointed assistant observer at \$1,080.
Smith, George H. ....	Providence, R. I. ....	
Smith, James R. ....	Santa Fe, N. Mex. ....	
Dunn, Horace P.* .....	Terre Haute, Ind. ....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Estrich, Robert M.* .....	Columbus, Ohio .....	
Pitton, William A.* .....	Norfolk, Va. ....	
Lysaught, Orville D.* .....	Savannah, Ga. ....	
Terwilliger, Earl G.* .....	Ithaca, N. Y. ....	

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Brotzman, Lloyd E. ....	Pittsburgh, Pa. ....	New York, N. Y., assistant.
Canaday, George L. ....	Charleston, S. C. ....	Miami, Fla., assistant.
Choun, Harry F. ....	Wagon Wheel Gap, Colo.	Houston, Tex., assistant.
Hardy, Erle L. ....	Santa Fe, N. Mex. ....	Wagon Wheel Gap, Colo., assistant.
Heyer, Hobert E. ....	Providence, R. I. ....	Grand Haven, Mich., in charge.
Hillis, William L. ....	Terre Haute, Ind. ....	Jellendale, N. Dak., assistant.
Hunter, Paul K. ....	Honolulu, Hawaii. ....	Los Angeles, Calif., assistant.
Masters, Robert M. ....	Miami, Fla. ....	Pensacola, Fla., assistant.
Myers, Fred. ....	Houston, Tex. ....	Tatoosh Island, Wash., in charge.
Pittman, J. Melson. ....	Raleigh, N. C. ....	Oklahoma City, Okla., assistant.
Pugh, Arthur W. ....	Los Angeles, Calif. ....	Knoxville, Tenn., in charge.
Ramsay, Walter G. ....	Pensacola, Fla. ....	Honolulu, Hawaii, assistant.
Rathbone, Harold A. ....	*Boston, Mass. ....	Syracuse, N. Y., assistant, pending further order.
Reed, Wilson, jr. ....	Norfolk, Va. ....	Raleigh, N. C., assistant.

\*Detailed to Ithaca for special duty.

\* Indicates temporary appointment.



Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

AUGUST, 1923.

## DISTRIBUTION OF WEATHER FORECASTS BY RADIOPHONE.

The broadcasting of weather forecasts, warnings, and information by radiophone has been in effect since January, 1921. The early history of the service, together with opening dates, is completely covered in the article by E. B. Calvert, entitled "History of Radio in Relation to the Work of the Weather Bureau", published in the Monthly Weather Review for January, 1923.

In the early part of the year 1922, January to March, inclusive, only 9 stations were included in the Weather Bureau system, but 39 stations were admitted during the two months of April and May. A total of 119 radiophone broadcasting stations were brought into the system during 1922. The special licenses which are necessary were granted by the Bureau of Navigation, Department of Commerce, upon recommendation of the Chief of the Weather Bureau.

From January 1, 1921, to September 1, 1923, there have been 276 radiophone stations investigated as to their adaptability for broadcasting weather information. The number of stations which were determined as suitable for this purpose were 190, and they were licensed accordingly. However, during this period a total of 78 stations have discontinued broadcasting and at the present time, September 1, 1923, there are 112 stations operating in the Weather Bureau system.

Practically all of the stations which have been investigated have offered their services to the Weather Bureau as a result of strong popular demand for this character of service. The 86 stations which have been rejected failed to comply with Weather Bureau regulations and specifications because of unsatisfactory location, low power, doubtful service, lack of a licensed operator, or suitable schedules could not be arranged.

The best radiophone broadcasting stations in the country are now incorporated in the Weather Bureau system and the services being rendered are excellent. In all cases the services are highly cooperative and appreciated throughout the country. The gradual discontinuance of the smaller and less popular stations has left the bureau with a powerful chain of tested and reliable stations in its system.

The locations of these stations are such that nearly all portions of the United States are assured of regular and satisfactory broadcasts

of weather forecasts, information, and warnings. The selection of powerful stations at forecast centers provides a means of disseminating forecasts for all States in the several districts, immediately after their issuance. At Washington, Chicago, Denver, and San Francisco the forecasts for the States in the districts are broadcast. At the present time New Orleans is the only district forecast center from which there is no radiophone broadcast distribution. However, as the development in the west Gulf section has been quite rapid, it is hoped that improvement will be noted along the northern and eastern Gulf coasts.

The majority of listeners who operate radio receiving sets use them during the evenings when practically all broadcasting stations transmit their programs. It is at this time when the weather forecasts and other information may be best placed before the public. This is the most practicable time to reach the farmer who usually has not the leisure to receive the forecasts during the day. It is desirable to arrange evening broadcasts whenever possible. The night distribution is being increased rapidly and a large number of the Weather Bureau system stations now carry night forecasts in their programs.

Radiophone installations have made their appearance in the Gulf of Mexico region. For some time there has been a powerful broadcasting station (PWX) at Havana, Cuba, which is controlled by the Cuban Government. It is understood that the Cuban Meteorological Service is disseminating information. Recently the Radio Corporation of Porto Rico placed a station (WKAQ) in operation at San Juan. A broadcasting service of weather bulletins and hurricane warnings was inaugurated July 1, 1923, in addition to the daily radio telegraphic broadcasts by the Naval radio station at San Juan. The broadcasts by radiophone from San Juan are largely for the benefit of the people on the numerous islands of the West Indies, where it is reported that a considerable number of radiophone receiving sets have been installed. Broadcasts from the station are made both in English and Spanish and are received quite regularly as far distant as Curaçao, Port of Spain, Kingston, and Cuba. The bulletins consist of daily current p. m. reports from 10 West Indian stations and a synopsis of prevailing weather conditions. Advices and warnings of storms and hurricanes are broadcast whenever issued.

A station at Honolulu, T. H., belonging to the Honolulu Star-Bulletin, broadcasts forecasts for islands, local weather information, and weather-crop summaries. Reports indicate that 6,000 listeners on the islands receive these broadcasts.

Smaller stations of low power are distributed as evenly as it is possible for the Weather Bureau to so arrange. In most cases they fill in the gaps between the larger plants and only broadcast the local and State forecasts for the territory within their range. However,

there are a few instances where powerful stations are located some distance from forecast centers and in order to take advantage of their power and wide ranges, the bureau makes forecasts for other states available to them. For instance, forecasts for Tennessee, Kentucky, Arkansas, Kansas, Nebraska, and Indiana are telegraphed to St. Louis for broadcasting by the St. Louis Post-Dispatch station. Forecasts for western Pennsylvania, West Virginia, and Ohio are sent to Pittsburgh in the p. m. for broadcasting by the Westinghouse Electric station. Forecasts are telephoned from Albany, N. Y., to Schenectady, N. Y., for broadcasting by the General Electric Company station. This form of service will be expanded to include similar broadcasts whenever the conditions may warrant.

Of the 112 radiophone broadcasting stations now in the Weather Bureau system, there are 32 in class A; 34 in class B; and 46 in class C. These three classes of stations are rated as follows:

*Class A.*—Operating wave-lengths, 1,350 to 1,050 kilocycles (222 to 286 meters); power input of 500 watts or less.

*Class B.*—Operating wave-lengths, 1,040 to 870 and 800 to 550 kilocycles (288 to 345 and 375 to 546 meters); power input of 500 to 1,000 watts.

*Class C.*—Operating wave-length, 833 kilocycles (360 meters); no rating in watts. This class will be given class A or B ratings whenever their wave-lengths are changed from 833 kilocycles (360 meters).

In accordance with the recommendations of the Second National Radio Conference, all Government departments will hereafter follow the practise of expressing wave-frequency in even values of kilocycles rather than wave-length in meters.

Previous to May 15, 1923, all weather information and market reports were broadcast on a wave-length of 485 meters. This made necessary the readjustment of the apparatus at the transmitting stations for the sole purpose of making such broadcasts. Many of the stations objected to this, but others still continued to do so because they felt that the need for the service justified the additional work. However, the persons receiving the messages also had to readjust their sets and often the reports were "lost". Because of the opposition to this regulation, the Department of Commerce rescinded the order and gave permission to all stations to begin broadcasting of Department of Agriculture information on the wave-length assigned for all regular broadcasting, effective with May 15, 1923. This scheme has greatly improved the situation and a greater number of people are now receiving the forecasts.

The systematic broadcasting of weather and crop summaries was inaugurated March 15, 1923. A tabulation of this service shows that 30 separate State summaries are broadcast from 63 radiophone stations on Wednesdays of each week after 10:00 a. m.

The broadcasting service from station (NAA), of the United States Navy at Arlington, Va., is covered in the Monthly Weather Review article referred to in the first paragraph. The broadcasting from this station was formerly done on a wave-length of 710 meters, but was changed to 689 kilocycles (435 meters) on May 15, 1923. On Wednesday evenings, 7:45 to 8:00 p. m., there is broadcast a special weather and crop summary which is prepared by the Division of Agricultural Meteorology of the Central Office.

Recently the Weather Bureau called on its cooperative radiophone broadcasting stations, through Weather Bureau section centers, for reports as to the estimated number of people who receive the broadcasts from their respective stations. These reports have been tabulated with care so as to prevent duplication where two or more stations are broadcasting the same forecasts within the same State. The estimated number of direct recipients is 265,000 in the United States, but it is known that many operators of receiving sets repeat the forecasts to their neighbors and in some instances by regular card distribution. Therefore, it is impossible even approximately to determine the numerical scope of weather forecast and warning distribution by radiophone.

The list of radiophone stations broadcasting weather information, forecasts, warnings, etc., of date September 1, 1923, is as follows:

*List of radiophone broadcasting stations.*

Ames, Iowa	Iowa State College	WOI
Atlanta, Ga.	The Atlanta Constitution	WGM
	The Atlanta Journal	WSB
Auburn, Ala.	Alabama Polytechnic Institute	WMAV
Austin, Tex.	University of Texas	WCM
Baltimore, Md.	The Baltimore American	WEAR
Birmingham, Ala.	Alabama Power Co.	WSY
Boise, Idaho.	Boise High School	KFAU
Boston, Mass.	The Shepard Stores Co., Inc.	WNAC
Buffalo, N. Y.	Federal Tel. and Tel. Co.	WGR
Canton, N. Y.	St. Lawrence University	WCAD
Casper, Wyo.	Wyoming Radio Corp.	KFDF
Charleston, S. C.	U. S. Engineers	NAO
Charlotte, N. C.	Southern Radio Corp.	WBT
Chicago, Ill.	Chicago Board of Trade	WDAP
	Chicago Daily Drovers Journal	WAAF
	Westinghouse Electric Co.	KYW
Cincinnati, Ohio	The Crosley Co.	WLW
Cleveland, Ohio.	The Union Trust Co.	WJAX
Colorado Springs, Colo.	Marksheffel Motor Co.	KFFQ
Columbia, Mo.	University of Missouri	WAAN
Columbus, Ohio	Erner & Hopkins Co.	WBAV
	Ohio State University	WEAO
Dallas, Tex.	City of Dallas	WRR
	Dallas Morning News	WFAA
Davenport, Iowa	Palmer School of Chiropractic	WOC
Denver, Colo.	Reynolds Radio Co.	KLZ
Detroit, Mich.	Detroit Evening News	WWJ
	Detroit Free Press	WCX
Douglas, Wyo.	Felix Thompson	KFEV
Fargo, N. Dak.	The Fargo Radio Service Co.	WDAY
	North Dakota Agricultural College	WPAK

Fort Dodge, Iowa	Standard Radio Equipment Co	WEAB
Fort Sill, Okla	U. S. Army	DM6
Fort Worth, Tex	Star-Telegram Co	WBAP
Fresno, Calif	San Joaquin Light and Power Co	KMJ
Galveston, Tex	Clark W. Thompson Co	WHAB
	The Galveston Tribune	WIAC
Greenville, S. C.	Huntington & Guerry Co	WQAV
Havre, Mont	F. A. Buttrey Co	KFBB
Honolulu, T. H.	Honolulu Star-Bulletin	KDYX
Houston, Tex	Hurlburt-Still Electric Co	WEV
	The Iris Theater	WEAY
Huntington, Ind	Huntington Publishing Co	WHAY
Hutchinson, Kans	Hutchinson Grain Corp	WLAS
Hutchinson, Minn	Hutchinson Electric Service Co	WFAN
Jacksonville, Fla	The Florida Times-Union Co	WDAL
Jefferson City, Mo	State Market Bureau	WOS
Kansas City, Mo	Drovers Publishing Co	WMAJ
	Kansas City Star	WDAF
	Sweeny School	WHB
	Western Radio Co	WOQ
Lancaster, Pa	Kirk Johnson & Co	WDBC
Lansing, Mich	Michigan Agricultural College	WKAR
Lincoln, Nebr	University of Nebraska	WEAV
	Wesleyan University	WCAJ
Lindsborg, Kans	Central Kansas Radio Co	WDAD
Lockport, N. Y.	Norton Laboratories	WMAK
Los Angeles, Calif	Los Angeles Examiner	KWH
	Los Angeles Times	KHJ
Louisville, Ky	The Courier-Journal	WHAS
Madison, Wis	University of Wisconsin	WHA
	Wisconsin State Journal	WGAY
Medford Hillside, Mass	American Radio and Research Corp	WGI
Memphis, Tenn	The Memphis Commercial Appeal	WMC
Milwaukee, Wis	Gimbel Bros	WAAK
	Kesselman-O'Driscoll Co	WCAY
Minneapolis, Minn	Cutting & Washington Electric Co	WLAG
Mobile, Ala	Mobile Radio Co	WEAP
Moorhead, Minn	Concordia College	WPAU
New York, N. Y.	Radio Corporation of America	WJZ
Norfolk, Nebr	Huse Publishing Co	WJAG
Oklahoma City, Okla	Oklahoma Radio Shop	WKY
Omaha, Nebr	Drovers Journal and Stockman	WIAK
	Woodmen of the World	WOAK
Orange, Tex	White Hardware Co	KFGX
Peoria, Ill	Peoria Evening Star	WJAN
Philadelphia, Pa	Gimbel Bros	WIP
	John Wanamaker Co	WOO
Phoenix, Ariz	McArthur Bros	KFAD
Pittsburgh, Pa	Westinghouse Electric Co	KDKA
Portland, Oreg	Meier & Frank Co	KFEC
	Oregonian Publishing Co	KGW
Providence, R. I.	The Outlet Co	WJAR
	The Shepard Co	WEAN
Rapid City, S. Dak	State School of Mines	WCAT
Ridgewood, N. Y.	The Ridgewood Times	WHN
Rochester, N. Y.	Democrat and Chronical-Times	WHAM
Roswell, N. Mex	Roswell Public Service Co	KNJ
Sacramento, Calif	Kimball-Upson Co	KFBK
St. Louis, Mo	St. Louis Post-Dispatch	KSD
	St. Louis University	WEW
Salt Lake City, Utah	The Deseret News	KZN
San Antonio, Tex	Southern Equipment Co	WOAI
	Texas Radio Syndicate	WJAE
San Francisco, Calif	Examiner Publishing Co	KUO
San Jose, Calif	Herrold Laboratories	KQW
San Juan, P. R.	Porto Rico Radio Corp	WKAQ
Schenectady, N. Y.	General Electric Co	WGY

Scranton, Pa.....	E. W. Lynett.....	WQAN
	J. Harvard Jones .....	WRAY
Seattle, Wash.....	Northwest Radio-Service Co.....	KJR
Sioux City, Iowa.....	Davidson Bros. Co .....	WEAU
Sioux Falls, S. Dak.....	The Argus-Leader .....	WFAT
Springfield, Mo.....	The Heers Stores Co .....	WIAI
State College, N. Mex.....	College of Agriculture.....	KOB
Stockdale, Ohio.....	White Radio Laboratory .....	WJAK
Washington, D. C.....	U. S. Navy, Arlington, Va.....	NAA
Waupaca, Wis.....	Wisconsin Department of Markets .....	WPAH
Wenatchee, Wash.....	Wenatchee Battery and Motor Co .....	KZV
Wichita, Kans.....	Wichita Board of Trade .....	WEAH
Yankton, S. Dak.....	Dakota Radio Appliance Co .....	WNAX

The purpose of the foregoing statements is to keep Weather Bureau officials and employees advised as to the development and status of its radiophone distribution work, but there is no objection to the facts contained herein being given to newspapers or persons interested.

The next desirable step is the organization of a systematic plan for utilizing radiophone transmission in the distribution of forecasts and warnings by mail, telephone, etc., in a manner similar to the system now in effect through the medium of distributors to whom forecast messages are sent daily by telegraph. It is believed that the time has arrived or is nearly at hand whereby radiophone reception at designated centers by selected distributors can replace a larger number of telegraphed messages, and that not only a material saving in expense can be effected, but a more effective range of distribution can be secured thereby. Officials in charge of the forecast distribution in the various States are requested to give this phase of the matter their careful consideration and to advise the Central Office of their views and conclusions.

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#### CENTRAL OFFICE CHANGES.

Mr. R. H. Weightman was assigned in charge of the Division of Stations and Accounts on August 14, 1923. Mr. William Weber succeeded Mr. Weightman as Chief Clerk of the bureau.

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#### BUSINESS MEN INVITED TO USE THE WEATHER BUREAU.

The official in charge of the Weather Bureau office at Portland, Oreg., recently sent out a letter to his fellow members in the Portland Chamber of Commerce, calling their attention to the various kinds of information given out by the Weather Bureau and the methods of disseminating it. He also invited them to make the fullest possible use of the facilities of the Weather Bureau, calling in person or by telephone, and to offer suggestions as to how his office might be of greater help to them. Some very appreciative letters have been received in response.

His action in this matter is highly commendable and worthy of emulation at other stations. At the same time the Central Office recognizes the fact that many stations are now working to the full

capacity of their personnel, and in such cases it is hardly to be expected that they should take steps which would stimulate an increased demand upon their time and facilities.

#### COMPILING DATA IN RESPONSE TO SPECIAL REQUESTS.

Officials in charge of stations sometimes receive requests for the compilation of data to be used in connection with weather insurance and otherwise, the applicant offering to pay for the time required in its preparation. The following extract from a letter addressed by the Chief of Bureau to one of the officials in question indicates the present policy of the bureau in cases of this kind:

It is believed that it is proper to have this work done outside of office hours by members of the office force rather than some outside person, and for such employees to receive compensation therefor. This is in accordance with a recent revision of Administrative Regulations relating to outside work which has been promulgated by the Secretary.

It is realized that as the public demand for minute and detailed weather statistics increases, the Weather Bureau can not, as a rule, undertake to supply, free of charge, considerable amounts of special kinds of data not required or prepared in printed form for distribution, but needed by some particular individual or organization. Furthermore, the work can undoubtedly in most cases be best done by employees of the Weather Bureau familiar with the subject matter.

Therefore, it seems advisable that the bureau's policy should be enlarged so as to permit station employees to compile data at the cost of the applicant, provided that the work is done outside of office hours and provided the individual station employees qualified to do the work with accuracy and expedition are permitted to share in the work and compensation. We feel that the officials in charge of stations will in general handle these matters on a fair, impartial basis, and it is under these general conditions that we are authorizing you to have the data above referred to compiled in accordance with this plan, if employees of your station desire to undertake the work. Otherwise it will be practicable for you to have the copying done by some authorized representative of the insurance company.

#### FUTURE OCCUPATION AND COMPENSATION OF EMPLOYEES RESIGNING.

Information as to the future occupation of resigning employees and the compensation that they are to receive, as required in paragraph 113a-2R of Station Regulations, is very important, especially in view of the present status of salary classification. The Secretary recently has indicated his desire that the practise of reporting such information be continued. In some cases, the employee may not care to furnish this information; and in other cases, he may not be at liberty, for business reasons, to tell what he is going to do or what salary he is to receive. But if it is explained to him that such information has a possible important bearing on the future salary situation in the Government service and therefore definitely affects the welfare of Government employees, he generally is willing to give the information, except where some special circumstance makes it inadvisable to do so.

The information should be included in recommendations for accept-

ance of resignations. If the employee declines to furnish the desired information, the official in charge should so state and give the reasons, in order that the Central Office may know that the matter has not merely been overlooked.

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**EMPLOYEES' ARTICLES IN NONDEPARTMENT PUBLICATIONS.**

In accordance with the desire of the Assistant Secretary of Agriculture for semiannual reports of all articles of permanent value written by employees on meteorological and related subjects and published in other than department publications in the preceding six months, officials in charge of stations are requested to report to the Central Office by letter on October 1, 1923, all such articles published in the preceding six months by any of the station force, giving (1) name of writer, (2) title of article, (3) nature of article, (4) name of publication and page number, and (5) place and date of publication.

Articles relating exclusively to local or current weather conditions or pertaining to the routine work of the bureau should not be reported.

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**PROBATIONAL APPOINTMENT OF MESSENGER BOYS.**

Frequently, after securing specific authority from the Central Office for filling a vacancy in the position of messenger boy, messenger, or apprentice, station officials merely make recommendation on Form 4075-Mis., through the district secretary in accordance with Station Regulations, for the *probational* appointment of a new boy.

In the absence of any other information from the station official, it sometimes is difficult for the Central Office to determine the date on which the new employee's appointment is desired to be made effective. It is, therefore, suggested that, in addition to the usual recommendation on Form 4075-Mis., which is sent through the district secretary, officials in charge advise the Central Office direct by letter of the forwarding of such recommendation and the date on which the boy will begin work.

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**NUMBER OF BIDS INVITED TO BE NOTED ON PURCHASE REQUISITIONS.**

As required in paragraph 688, Station Regulations, three or more bids should be obtained whenever the cost of services or supplies may exceed \$10. If not practicable to get the required number of bids, the reason therefor should be stated. But in every case, the number of bids *invited* must be shown on the face of the purchase requisition. This information is now necessary in submitting proposals to the Director of Purchases and Sales of the Department for acceptance, and is always necessary in auditing accounts.

In this connection, station officials are reminded that the Director of Purchases and Sales requires that bidders on repair work state

what brands of materials they propose to use, and that all bidders indicate the discount, if any, that will be allowed for payment within a given number of days after receipt of goods or services.

#### TRANSPORTATION REQUESTS FOR PULLMAN ACCOMMODATIONS.

Paragraph 43 of Fiscal Regulations of 1923 requires that the transportation request for Pullman accommodations be issued through to destination of railroad ticket or to the point to which such accommodations will be required. When necessary to change Pullman cars en route, a transfer check should be obtained from the Pullman conductor for exchange at the Pullman ticket office for accommodations beyond the point where the change is made. Where stop-overs are permitted by the railroad ticket, stop-over checks may be obtained from the Pullman conductor.

Though the foregoing indicates what has been the practise for several years, employees sometimes use a transportation request instead of a transfer check when necessary to change Pullman cars en route. It is desired that transfer checks be used whenever possible, as the shorter rates frequently amount to more than the through rate.

#### TRANS-PACIFIC BAGGAGE.

Railroads will now check as baggage personal effects weighing not to exceed 350 pounds for travelers officially ordered to trans-Pacific destinations at Government expense. This method of taking along a few books or more clothing, etc., than is permissible under the rules for ordinary baggage will be more convenient for the traveler who has no heavy household goods and will cost less than shipping under a Government bill of lading. To obtain the privilege, the traveler should present to the ticket agent, with the transportation request, evidence that he has been ordered to a trans-Pacific destination and will sail from a given port on a given date. Usually the certificate of the official in charge is sufficient for this purpose. The ticket agent will stamp "Trans-Pacific" across the face of the railroad ticket as authority for the baggage man to check the unusual amount. Hawaii is considered trans-Pacific.

#### CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of August, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Angle, Robert S.....	Lansing, Mich.....	Messenger boy at \$480, resigned; record, good.
Blomstrand, Paul A....	Duluth, Minn.....	Promoted to messenger at \$600 from messenger boy at \$480.
Charless, William A....	Amarillo, Tex.....	Appointed messenger boy at \$480, by reinstatement.
Coller, Mrs. Elizabeth F.	Washington, D. C.....	Clerk at \$1,200, resigned; record excellent.
Cox, William C.....	Washington, D. C.....	Appointed clerk at \$1,000, by transfer from the Treasury Department.
Cunningham, Leo I....	Philadelphia, Pa.....	Messenger at \$600, resigned; record, excellent.
Donnel, Charles A.....	Chicago, Ill.....	Promoted to meteorologist at \$2,500 from \$2,040.
Drake, Wesley D.....	Des Moines, Iowa.....	Apprentice at \$480, resigned; record, excellent.
Dunn, Horace P.*.....	Terre Haute, Ind.....	Messenger boy at \$480, resigned; record, good.
Ewell, Robert W.....	Dayton, Ohio.....	Messenger boy at \$480, resigned; record, good.
Finch, John L.....	Vicksburg, Miss.....	Messenger boy at \$480, resigned; record, good.
Guthrie, Leon J., jr....	Little Rock, Ark.....	Observer at \$1,260, resigned; record, excellent.
Hertwig, Otto S.*.....	Reading, Pa.....	Messenger boy at \$480, appointment terminated; record, good.
House, James L.....	Vicksburg, Miss.....	Assistant observer at \$1,080, resigned; record, fair.
Kohl, William E.....	Huron, S. Dak.....	Assistant observer at \$1,080, resigned; record, good.
Madigan, Bernard M....	Sault Ste. Marie, Mich.	Apprentice at \$480, resigned; record, good.
Manuel, Miss Clara M...	Washington, D. C.....	Promoted to clerk at \$1,200 from \$1,000.
Mehringer, Walter R....	Madison, Wis.....	Assistant observer at \$1,080, resigned; record, good.
Mize, Ralph C.....	Juneau, Alaska.....	Promoted to meteorologist at \$1,800 from \$1,620.
Piippo, Ansty E.*.....	Madison, Wis.....	Assistant observer at \$900, resigned; record, good.
Putnam, Thomas A.....	Due West, S. C.....	Laborer (unskilled) at \$720, resigned; record, excellent.
Salisbury, George N....	Seattle, Wash.....	Reduced to meteorologist at \$1,800 from \$2,280, without prejudice, because of preferred assignment.
Summers, Melvin B....	Seattle, Wash.....	Promoted to meteorologist at \$2,500 from \$2,160.
Thomas, Frederick J ...	Chicago, Ill.....	Appointed assistant observer at \$1,080, by reinstatement.
Warren, Leslie A.....	Ellendale, N. Dak.....	Promoted to meteorologist at \$1,620 from observer at \$1,440.
Warrensford, Edward R.	Portland, Oreg.....	Messenger boy at \$480, resigned; record, good.
Watt, Wilton A.....	Due West, S. C.....	Appointed laborer (unskilled) at \$720.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Wright, Julian C.* .....	Washington, D. C.....	Appointed compositor at \$1,440, temporarily, pending certification of eligibles.
Wyman, Kenneth N....	Syracuse, N. Y.....	Appointed apprentice at \$480; temporary appointment terminated.
Youngs, Malcolm D....	Houghton, Mich.....	Appointed assistant observer at \$1,080; appointment as messenger boy at \$480 terminated.
Bone, Terrence V.....	Little Rock, Ark.....	} Appointed assistant observer at \$1,080.
Fisher, Elmer.....	Portland, Ore.....	
Stevens, Welby R.....	Montgomery, Ala.....	
Armstrong, Lloyd T....	Galveston, Tex.....	} Appointed messenger boy at \$480; temporary appointment terminated.
Estrich, Robert M.....	Columbus, Ohio.....	
Fitton, William A.....	Norfolk, Va.....	
Clay, Charles J.....	Reading, Pa.....	} Appointed messenger boy at \$480.
Franz, John F.....	Dayton, Ohio.....	
Maguire, Francis A.....	Philadelphia, Pa.....	
Friel, Arnold J.*.....	Helena, Mont.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Miller, Alden E.*.....	Portland, Ore.....	
Slater, William E.*.....	Vicksburg, Miss.....	
Van Patten, J. Harvey*..	Houghton, Mich.....	
Vertnick, Rudolph C.*..	Saginaw, Mich.....	

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Hartman, Paul V.....	Washington, D. C.....	Ellendale, N. Dak., assistant.
Jakl, Vincent E.....	Drexel, Nebr.....	Washington, D. C., meteorologist.
Ling, Charles S.....	Ellendale, N. Dak.....	Drexel, Nebr., in charge.
Mize, Ralph C.....	Portland, Ore.....	Juneau, Alaska, in charge.
Norman, Clarence W...	Spokane, Wash.....	Huron, S. Dak., assistant.
Stoesen, Andrew R. W.	Montgomery, Ala.....	San Juan, P. R., assistant.
Summers, Melvin B....	Juneau, Alaska.....	Seattle, Wash., in charge.
Tucker, Chester O.....	San Juan, P. R.....	Madison, Wis., assistant.

\* Indicates temporary appointment.



Chief of Bureau.



# WEATHER BUREAU TOPICS AND PERSONNEL

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SEPTEMBER, 1923.

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## CHIEF OF BUREAU'S VISIT TO ST. LOUIS.

The Chief of Bureau recently visited the station at St. Louis, Mo., in connection with the first annual convention of the National Aeronautic Association of America. The purpose of the convention was to hold the annual election of officers and at the same time to participate in the Pulitzer races which, owing to some unfavorable weather conditions during the preceding week, were postponed until October 4, 5, and 6.

In connection with Weather Bureau matters, he was interested in observing the radiophone broadcasting of weather reports, which was inaugurated nearly two years ago at the St. Louis Observatory and a little later from the broadcasting station of the St. Louis Post-Dispatch. Owing to the central location of St. Louis, such reports get a very wide distribution, and many letters are received indicating the practical and utilitarian value of the radio method of making weather information available to communities that would not otherwise promptly receive such reports.

Some important questions of old meteorological records at St. Louis and the accuracy of measurements of precipitation during the past eighty years were discussed with the official in charge of the station, as were also problems of flood forecasting and the regimen of rivers.

## INFORMING THE PUBLIC OF WEATHER BUREAU ACTIVITIES.

The official in charge of the Weather Bureau station at Rapid City, S. Dak., was invited to address the local Rotary Club. At the regular meeting a week previous, it occurred to him that he could better acquaint this club of business men with the bureau's facilities and information that could be used in their business by inviting them to the office and speaking to them where examples could be exhibited. His invitation was accepted, and on the appointed day, just after luncheon, the club members gathered in the Weather Bureau office. For an hour the official talked to them informally about the activities of the local office and of the service in general, the ways in which the forecasts and collected data could be used in business, and the benefits that might be derived from such use.

Occurrences such as here described tend to increase the local usefulness of the Weather Bureau and the public's knowledge of the bureau's problems and methods.

#### THE HAWAIIAN VOLCANO OBSERVATORY.

A field of activity of the Weather Bureau that is but little known to its employees is the volcano investigations conducted on the island of Hawaii under Dr. T. A. Jaggar, jr. The permanent scientific staff consists of a volcanologist, a seismologist, and a chemist. Occasionally chemists, geologists, seismologists, and physicists, both from the United States and from foreign countries, spend from a few weeks to several months at the Volcano Observatory.

The observatory is situated about 4,000 feet above sea level on the brink of Kilauea Volcano which is continuously active, with a lake of molten lava. Studies are made not only of that volcano but also of Mauna Loa, nearly 10,000 feet higher, which erupts every five or six years. The eruptions of the two volcanoes are not explosive but take the form of a rather quiet extrusion of molten lava.

The routine of the station consists in daily observation and photography of the fire pit, frequent surveys to determine the height of the lava, care of several seismographs and interpretation of seismograms. The seismograms give the distance and direction of earthquakes—five or six occur each week—and indicate the amount of tumescence or subsidence of the entire mountain top. From these seismographic data forecasts of volcanic activity from two or three hours to several days in advance are often made.

#### AUTOMOBILE STORAGE AND TOWAGE.

Authority for allowing mileage in lieu of the actual expense of operating a motor vehicle is included in the Act of May 11, 1922. The Comptroller General has decided (A. D. 7706) that all charges for storage or towing are necessarily part of the expense of operating the vehicle, and therefore are covered in the mileage allowance. Consequently, such charges, which previously to this decision were allowed under paragraph 32 (*k*) of Fiscal Regulations, also charges for road, bridge, and ferry tolls, if incurred after July 15, 1923, can not be reimbursed when mileage is authorized.

#### CIRCUIT REPORTS.

As a rule, the telegraph company delivers circuit reports to Weather Bureau stations immediately and directly from the circuit wire. To a number of stations, however, where the reports are not needed immediately, the company has been permitted to furnish them over local wires in message form.

Officials in charge of circuit stations that do not receive circuit

reports immediately and directly from the circuit wire are requested so to inform the Telegraph Division, giving necessary details and referring to the authority, if any, under which the delay in receiving the reports is permitted. This information is desired in order that the Telegraph Division may have a complete record of the methods of receiving circuit reports at stations.

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**ASSISTANT FORECASTER AT CHICAGO.**

The assignment of Mr. Charles A. Donnell as assistant forecaster of the Chicago district has been changed from temporary to permanent.

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**TELEPHONE TOLL MESSAGES TO BE ENTERED ON FORM 3057.**

All telephone toll messages should be entered on Form 3057 as directed in that form and in **TOPICS AND PERSONNEL** for November, 1916. This requirement is being frequently overlooked.

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**TELEGRAMS.**

Weather Bureau employees having occasion while traveling to use Western Union or Postal telegraph service on official business should have their messages checked "Paid wea." or "Collect wea." in accordance with paragraphs 666-2R and 667 of Station Regulations, instead of letting them be sent at commercial rates, which are often several times as high as the special rates allowed the Weather Bureau. Cash payment should not be made, but the company should be requested to have the charge billed to the Weather Bureau by the Washington office of the telegraph company. Letters or other means of identification should be used if necessary to show that the sender is connected with that bureau. A copy of the message will be retained and entry thereof invariably will be made on Form 3057 upon return to station.

If the operator or receiving office refuses to accept a message, except at commercial rate and for cash payment, a receipted copy of the message should be requested (in addition to the copy made for retention). The receipted copy may be forwarded later to the local district manager of the company with request that the money paid be refunded and the message be included in the company's regular monthly bill against the bureau.

Instructions for checking and counting Weather Bureau telegrams may be found also in **TOPICS AND PERSONNEL** for October and November, 1921.

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**FORM 4027 A DISCONTINUED.**

First-class mail is now handled by the Post Office with so small a percentage of delay or loss that the Central Office has decided to discontinue immediately the use of Form 4027 A. This form is a post-

card, devised years ago for use of station officials in acknowledging receipt of advance letters from the Central Office.

#### PAY-ROLLS.

Station officials are reminded that station pay-rolls (Form 2) should be mailed in time to reach the Central Office between the 15th and 20th of each month. Pay-rolls received at the Central Office after the 20th sometimes can not be handled in time for payment to reach stations at the accustomed time.

#### RETIREMENT.

Mr. Samuel C. Long recently was retired on account of total disability, his retirement being made effective on June 20, 1923. Mr. Long was born December 18, 1860, at Philadelphia, Pa. He entered the Weather Bureau on December 10, 1900, and, with the exception of a long absence in 1915, due to illness, served continuously as lithographer at the Central Office.

#### CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of September, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

#### *Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Aldrich, Ralph M.*.....	Des Moines, Iowa.....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Babcock, Ralph C.....	Washington, D. C.....	Messenger boy at \$600, resigned; record, good.
Bangs, Clarence R.....	Davenport, Iowa.....	Appointed assistant observer at \$1,080.
Bonnett, Wayne W.....	Fresno, Calif.....	Apprentice at \$600, resigned; record, excellent.
Bower, Charles J.....	Ellendale, N. Dak.....	Appointed assistant observer at \$1,080, by reinstatement.
Congo, John S.....	Port Huron, Mich.....	Messenger boy at \$480, resigned; record, excellent.
Coover, John Webbert..	Washington, D. C.....	Appointed press feeder at \$840; temporary appointment terminated.
Davis, Mrs. Katharine..	Washington, D. C.....	Clerk at \$1,200, resigned; record, excellent.
Dirkse, John G.....	Chicago, Ill.....	Observer at \$1,260, resigned; record, fair.
Dwight, Peter M.*.....	Columbia, S. C.....	Assistant observer at \$900, resigned; record, good.
Elliby, William.....	Washington, D. C.....	Appointed laborer (unskilled) at \$600.
Estrich, Robert M.....	Columbus, Ohio.....	Messenger boy at \$480, resigned; record, good.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Farrell, Boyd F. ....	Fresno, Calif. ....	Designation changed to apprentice at \$480 from messenger boy at the same salary.
Foster, Charles L. ....	Harrisburg, Pa. ....	Appointed messenger boy at \$480.
Graeff, Karl W. ....	Washington, D. C. ....	Clerk at \$1,400, resigned; record, excellent.
Hardy, Erle L. ....	Wagon Wheel Gap, Colo.	Promoted to meteorologist at \$1,620 from observer at \$1,440.
Hester, Lewis A., jr. ...	Washington, D. C. ....	Messenger boy at \$480, resigned; record, good.
Hillis, William L. ....	Ellendale, N. Dak. ....	Assistant observer at \$1,080, resigned; record, excellent.
Hutchinson, Miss Thelma R.*	Burlington, Vt. ....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Hyde, Jay J. ....	Phoenix, Ariz. ....	Assistant observer at \$1,080, resigned; record, excellent.
Isham, Kenneth H.* ...	Burlington, Vt. ....	Apprentice at \$480, resigned; record, excellent.
Johnson, Karl E. ....	Sault Ste. Marie, Mich.	Appointed apprentice at \$480.
Kuechler, J. Harry ....	Columbus, Ohio ....	Appointed messenger boy at \$480, by reinstatement.
Lang, Richard J. ....	Washington, D. C. ....	Appointed clerk at \$1,000, by reinstatement in the department.
Lean, Ralph R. ....	Milwaukee, Wis. ....	Assistant observer at \$1,080, resigned; record, excellent.
Long, Samuel C. ....	Washington, D. C. ....	Lithographer at \$1,500, leave without pay revoked, and retired June 20, 1923, on account of total disability.
McIntosh, William K. ...	Portland, Oreg. ....	Assistant observer at \$1,080, resigned; record, good.
Maltry Jacob P. ....	Milwaukee, Wis. ....	Appointed messenger boy at \$480; temporary appointment terminated.
Moore, George R. ....	Harrisburg, Pa. ....	Messenger boy at \$480, resigned; record, good.
Neider, Rubey. ....	Chicago, Ill. ....	Promoted to apprentice at \$600 from messenger boy at \$480.
O'Neal, William T. ....	Washington, D. C. ....	Appointed clerk (telegraph operator) at \$1,200; temporary appointment terminated.
Plummer, Ira C. ....	Chicago, Ill. ....	Observer at \$1,260, resigned; record, good.
Preston, Edwin P. ....	New Orleans, La. ....	Assistant observer at \$1,080, resigned; record, excellent.
Pruit, Harold E. ....	Due West, S. C. ....	Appointed laborer (unskilled) at \$720.
Rasmussen, Wiggo ....	Tatoosh Island, Wash..	Appointed repairman at \$1,000 by reinstatement.
Sauber, Abraham D. ....	Green Bay, Wis. ....	Appointed messenger boy at \$480; temporary appointment terminated.
Schachtli, Frank. ....	Sacramento, Calif. ....	Messenger boy at \$480, resigned; record, excellent.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Shapiro, Mortimer A....	Chicago, Ill. ....	Apprentice at \$600, resigned; record, excellent.
Simes, Edward F. ....	Columbus, Ohio ....	Observer, reduced at his request to half time at \$720 from full time at \$1,260.
Torrence, Everett W....	Wagon Wheel Gap, Colo	Promoted to observer at \$1,440 from \$1,260.
Tuck, Richard W., jr...	New Orleans, La ....	Observer at \$1,260, resigned; record, excellent.
Wadley, Miss Anna ....	Washington, D. C. ....	Clerk, restored to duty on September 24, 1928, from leave without pay on account of ill health.
Watt, Wilton A. ....	Due West, S. C. ....	Laborer (unskilled) at \$720, resigned; record, good.
Willett, Hurd C. ....	Baltimore, Md. ....	Assistant observer at \$660, resigned; record, good.
Yoder, Lee O. ....	Chicago, Ill. ....	Observer at \$1,440, resigned; record, excellent.
Youngs, Malcolm D....	Washington, D. C. ....	Reduced without prejudice to clerk at \$1,000 from assistant observer at \$1,080.
Bonnett, Ralph A.*....	Fresno, Calif. ....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Canfield, Harry E.*....	Lansing, Mich. ....	
Oeding, Victor Clem....	Terre Haute, Ind. ....	

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Canaday, George L. ....	Miami, Fla. ....	New Orleans, La., assistant.
Choun, Harry F. ....	Houston, Tex. ....	Madison, Wis., assistant.
Kelliher, John J. ....	Port Angeles, Wash...	Portland, Oreg., assistant.
Masters, Robert M. ....	Pensacola, Fla. ....	Miami, Fla., assistant.
Salisbury, Burton ....	San Diego, Calif. ....	New Orleans, La., assistant.
Sedlak, Oliver A. ....	Davenport, Iowa. ....	Milwaukee, Wis., assistant.
Torrence, Everett W....	Denver, Colo. ....	Wagon Wheel Gap, Colo., assistant.
Weld, Walter M. ....	Wagon Wheel Gap, Colo	Denver, Colo., assistant.
Youngs, Malcolm D. ....	*Houghton, Mich. ....	Washington, D. C., clerk.

\* Indicates temporary appointment.

\* Recently on detail to Dodge City and Elkins.



Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

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OCTOBER, 1923.

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## RESUMPTION OF REGULAR STAFF MEETINGS AT THE CENTRAL OFFICE.

During the last 15 or 20 years it has been customary, from time to time, to hold regular weekly or monthly meetings of the chiefs of division and other leaders of the bureau in the technical and administrative work, for the general discussion of various problems current at the time. Experience has repeatedly shown that such meetings have been very profitable for a time, but for one reason or another they have been suspended.

The resumption of staff meetings on a fortnightly basis has now been decided upon, after very careful thought, with the idea of securing as much permanence of, and profit from, such meetings as practicable. It is hoped to secure these results by providing a special program for each meeting in which some important scientific question or problem in meteorology or closely related science will be thoroughly analyzed and discussed. However, it is not intended to exclude administrative questions or matters of important policy upon which it may be desired to secure the opinion of the technical staff of the bureau.

Those who participate in these meetings will include, as a rule, the administrative officers, the chiefs of division engaged in more or less technical and scientific work, and other leaders and associates in these fields; also, from time to time, others of the office force whose work may be related to the subject of a particular meeting. It is agreed, also, that meetings should be short and snappy, and that they should be adjourned after an interval of one hour. Meetings will be held fortnightly, on the first and third Wednesdays of each month during the period from October to May, inclusive.

The Chief of Bureau, or some one designated by him, will preside at the meetings, and Dr. Meisinger has been designated as secretary. To be assured of a proper program for each meeting, the regular Committee on Scientific Papers will act as the Program Committee. Dr. Humphreys will act as chairman. The first meeting will be held on the first Wednesday in November.

The Central Office would be glad to make the staff meetings of value to the field officials, by the consideration and discussion of one

or more important problems that field officers may wish to have considered by the Central Office group. The whole objective is to utilize such meetings for the furtherance of authoritative opinions on current topics and problems of a technical character in the field of meteorology and closely allied sciences, although it is not to be inferred that the findings of this group are necessarily final and conclusive.

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#### TRAVEL FUNDS.

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Owing to the very heavy demands on the travel fund, strict economy in expenditure for travel will be necessary during the remainder of the fiscal year. Officials in charge of stations should request authorization to inspect substations only when such inspection is urgently needed. As the allotment for the present quarter is already seriously depleted, officials are requested to defer until after January 1 all inspections that can be so delayed without detriment to the service.

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#### TRANSPORTATION OF AUTOMOBILES.

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A recent decision by the Comptroller General indicates that only such automobiles or motorcycles as are used in official work may be shipped at Government expense when the employee to whom the vehicle belongs is transferred from one permanent official station to another.

Employees who use their own automobiles in official business should specify in detail such use when requesting authorization to ship or drive the automobile in transferring permanently to another station. This information should be accompanied by that required in paragraph 723a. of Station Regulations, if the automobile is to be driven.

In view of the foregoing, employees who drive their own automobiles in transferring from one permanent station to another, if such automobiles are not used in official business, can be allowed nothing more than a per diem for such time as a similar journey by train would require. Leave must be taken for time in excess of what would be required by train.

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#### ASSISTANT OBSERVER EXAMINATION.

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The Civil Service Commission has amended their announcement of the examination to be held December 5, 1923, for Assistant Observer in Meteorology, by adding the following:

Ratings required. Competitors must attain an earned rating of at least 60 per cent in the first subject, meteorology and physics; otherwise the remaining subjects of their examination will not be rated. They will also be required to attain an eligible average in the whole examination.

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**RETIREMENT.**

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In principle, the Retirement Act aims at maintaining the highest vigor and efficiency in the personnel of the Government service, and contemplates retiring employees automatically at the designated retirement age. However, to retain experienced men until younger men were trained to carry on the work, and to avoid hardship to faithful employees, particularly during the first few years under the retirement law, provision was made for extending the service of employees in vigorous health for successive two-year periods after they reach the retirement age.

It is, of course, the desire to maintain the highest efficiency in the personnel of the bureau, and conditions at the present time are becoming more favorable for the filling of vacancies from retirements and other causes, and in principle the automatic operation of the Retirement Law will receive first consideration. However, in special cases and where it is clearly in the best interests of the personnel and service to do so, continuance in active service will be granted.

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**BIDS.**

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It is noted that in some instances stations are not complying with instructions in Circular of August 27, 1923, and TOPICS AND PERSONNEL for the same month, relative to bids. As therein stated it is *necessary* in every case that (1) the purchase requisition show the number of bids invited; that (2) bidders on repair and other work indicate the brands of materials that they propose to use; and that (3) all bidders state what discount they will allow for payment within a given number of days after receipt of supplies or services. Further instructions received from the Director of Purchases and Sales, of the department, require also that (4) bids definitely state the point and terms of delivery. Station officials are requested to see that all points indicated above are strictly complied with in every case.

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**RUSTED RAIN GAGES.**

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The official in charge of the Pennsylvania section finds, when inspecting substations, that some of the rain gages are considerably rusted. He has been successful in improving the appearance and prolonging the life of such gages by rubbing them with sandpaper and giving them a coat of aluminum enamel. A 2-ounce can, which costs little and is easily obtainable locally, is sufficient for an 8-inch gage. Officials who desire to try the plan probably will find it more convenient to make local purchases as needed.

Galvanized iron should not, as a rule, be painted unless rusting has begun. However, the Central Office does not object when the painting is required for the sake of appearance.

SURPLUS SET OF SIGNAL SERVICE REPORTS.

The Central Office has one surplus set of the annual reports of the Signal Service, 1873 to 1891, inclusive. This set contains only the administrative and statistical volumes. It is preferred to issue the set as a whole to any station that can make good use of it and is not already supplied with such volumes. Applications should be addressed to the Chief of Bureau in an envelope marked for the Editor.

REPLACING HALYARD IN FLAGSTAFF.

The simple device described below was used by the official in charge of the station at Charles City to replace the halyard in a flagstaff too weak to be safely climbed.

A fish-hook was wired to the end of a bamboo fish-pole. The halyard was tied with a slip-knot just below the fish-hook, with the end projecting so it could be pushed through the pulley block on the flagstaff. When the end was pushed through the block, the fish-hook was hooked into it, the slip-knot loosened by a jerk on the halyard, and the end pulled down with the fish-hook.

DEATHS.

Mr. Simon S. Bassler, retired, died in this city on October 9, 1923, at the age of 85. Mr. Bassler was one of the veterans of the service, having enlisted in the Signal Corps in 1872. For many years he was in charge at Cincinnati and was known throughout the Ohio Valley for his extensive knowledge of the Ohio River. Further details will be found in the notice of his retirement in the July, 1920, number of this publication.

Mr. James H. Scott, in charge of the Memphis station, died suddenly on October 25, 1923, from heart trouble caused by an attack of influenza some time ago. Mr. Scott was born at Yorkville, Tenn., on September 15, 1878. He entered the Weather Bureau July 21, 1902, and was assistant successively at Galveston, Montgomery, Memphis, and Vicksburg. From 1909 to 1911, he was in charge at Vicksburg, until 1920 at Charleston, and thereafter at Memphis.

Mr. Daniel P. McCallum, who was connected with the Signal Corps and Weather Bureau from 1886 until 1913, when he resigned, died in this city on October 28, 1923. Mr. McCallum was born in England in 1870. His connection with the Signal Corps began with four years at the Central Office. Thereafter he served at southern and western stations, including Idaho Falls, Shreveport, Yankton, Des Moines, and Honolulu.

## CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of October, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Anderson, Austin M. . . . .	Providence, R. I. . . . .	Messenger boy at \$480, resigned; record, excellent.
Barrett, Claud C. . . . .	San Francisco, Calif. . . . .	Messenger boy at \$480, resigned; record, good.
Campfield, Louis M. . . . .	Savannah, Ga. . . . .	Observer, granted leave without pay from October 28, 1923, to January 27, 1924, on account of ill health.
Chambers, Marshall J. . . . .	Santa Fe, N. Mex. . . . .	Promoted to observer at \$1,260 from assistant observer at \$1,080.
Cole, Herbert E. . . . .	New York, N. Y. . . . .	Appointed observer at \$1,440, by reinstatement.
Dannheiser, Charles L. . . . .	Evansville, Ind. . . . .	Promoted to messenger boy at \$600 from \$480.
Dorr, Ralph S. . . . .	North Head, Wash. . . . .	Repairman at \$1,000, resigned; record, good.
Duflocq, Harold D.* . . . .	New York, N. Y. . . . .	Assistant observer at \$900, resigned; record, good.
Esmay, Samuel T.* . . . .	Washington, D. C. . . . .	Appointed compositor at \$1,440, temporarily, pending certification of eligibles.
Friel, Arnold J. . . . .	Helena, Mont. . . . .	Appointed messenger boy at \$480; temporary appointment terminated.
Keiter, I. Martin* . . . . .	Washington, D. C. . . . .	Assistant observer at \$1,080, resigned; record, excellent.
Kennedy, Gerald S. . . . .	Pensacola, Fla. . . . .	Appointed observer at \$1,440, by reinstatement.
Landis, John D.* . . . .	Fort Worth, Tex. . . . .	Appointed assistant observer at \$900, temporarily, pending certification of eligibles; appointment as messenger boy at \$480 terminated.
Levering, Griffith G. . . . .	Chicago, Ill. . . . .	Assistant observer, granted leave without pay from October 10, 1923, to January 9, 1924.
McLeod, Arthur J. . . . .	Portland, Me. . . . .	Messenger boy at \$600, resigned; record, excellent.
Malone, John W. . . . .	Washington, D. C. . . . .	Appointed lithographer at \$1,400; temporary appointment terminated.
Mattice, William A. . . . .	Ithaca, N. Y. . . . .	Promoted to clerk at \$1,200 from assistant observer at \$1,080.
Miller, Ross O. . . . .	Santa Fe, N. Mex. . . . .	Observer at \$1,440, resigned; record, excellent.
Mullen, John P., jr. . . . .	Galveston, Tex. . . . .	Apprentice at \$900, resigned; record, excellent.
Reddington, John A. . . . .	Washington, D. C. . . . .	Appointed messenger boy at \$480.
Scott, James H. . . . .	Memphis, Tenn. . . . .	Meteorologist at \$2,160, died October 25, 1923.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Seff, Raymond .....	Chicago, Ill. ....	Appointed messenger boy at \$480.
Smith, J. Warren .....	Washington, D. C. ....	Meteorologist, leave without pay extended to January 6, 1924, on account of continued ill health.
Spencer, Robin E .....	Moorhead, Minn .....	Promoted to clerk at \$1,400 from observer at \$1,260.
Stringfellow, Walter* ..	Boise, Idaho .....	Appointed apprentice at \$480, temporarily, pending certification of eligibles.
Warnock, William L.* ..	Providence, R. I. ....	Messenger boy at \$480, resigned; served but a short time.
Weston, LaVerne .....	Boise, Idaho .....	Apprentice at \$600, resigned; record, excellent.
Wright, Julian C.* .....	Washington, D. C. ....	Compositor at \$1,440, resigned; record, good.
Cooper, William E.* ..	Knoxville, Tenn. ....	} Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Counts, Rufus C., jr.* ..	Columbia, S. C. ....	
Fancher, Gerald B.* ..	Phoenix, Ariz. ....	
Jones, Wesley Wade* ..	Macon, Ga. ....	
Lamb, Floyd J.* .....	Reno, Nev. ....	
Lamoureux, Clarence E.*	Ithaca, N. Y. ....	
McDavitt, Laurence C.*	Chicago, Ill. ....	
Ring, Laurence E.* .....	Huron, S. Dak. ....	
Sanders, David K.* .....	Grand Junction, Colo..	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Adams, Oscar D.* .....	Port Huron, Mich. ....	
Burns, Elroy M.* .....	San Francisco, Calif. ...	
Conway, John H.* .....	Portland, Me. ....	
Dobbins, Don Richard* ..	Fort Worth, Tex. ....	
Stanich, Vincent F.* ..	Sacramento, Calif. ....	
Tyler, John E.* .....	Providence, R. I. ....	
Warnock, William L.* ..	Providence, R. I. ....	

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Allen, Charles C. ....	Fort Worth, Tex. ....	San Francisco, Calif., assistant.
Centen, Winford J. ....	New York, N. Y. ....	Moorhead, Minn., in charge.
Chambers, Marshall J. ..	Denver, Colo. ....	Santa Fe, N. Mex., assistant.
Holmes, Raiford L. ....	Macon, Ga. ....	Vicksburg, Miss., assistant.
Loveridge, Elmer F. ....	Cheyenne, Wyo. ....	Honolulu, Hawaii, assistant.
Mattice, William A. ....	Ithaca, N. Y. ....	Washington, D. C., clerk.
Murphy, George P. ....	Grand Junction, Colo..	Denver, Colo., assistant.
Spencer, Robin E. ....	Moorhead, Minn. ....	Washington, D. C., clerk.

\* Indicates temporary appointment.



Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

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NOVEMBER, 1923.

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## CLOUD OBSERVATIONS.

Observers are enjoined to use the greatest possible care in observing and telegraphing cloud directions and movement. It is apparent that some observers are not giving sufficient attention to distinguishing between slow and fast moving clouds, and to the proper coding of clouds in reports transmitted by telegraph. For instance, a station recently reported a surface wind of gale force, but the clouds were *not coded as moving rapidly*, although under the general conditions prevailing at that time it is more than probable that the cloud movement was very fast.

It is somewhat difficult to determine accurately the direction and rate of movement of clouds within the few minutes of time during which an observation must be taken and filed. Therefore, observers should give attention to the cloud conditions before the time at which the observation is started in order to be sure of having this part of the report as nearly correct as possible. During a considerable part of the year, there is no daylight at the regular observation hour; but if the movements of clouds, especially upper clouds, are noted before nightfall, such information will aid considerably in determining conditions at the 8 p. m. observation. Cloud conditions so observed should be used in the telegraph report when darkness prevents an accurate determination of kind and movement, and instructions for such procedure will be included in the new code book which will soon be issued. Only clouds actually observed at 8 p. m. will be recorded in Form 1001.

Considerable experience is required to make good cloud observations. For this reason station officials are urged to give special attention to this phase of the observation work and carefully to instruct assistants who may not be proficient therein. The great importance of accurate observations of clouds, especially upper clouds, in forecast work should be impressed upon them.

## MAINTAINING FRIENDLY RELATIONS WITH COOPERATIVE OBSERVERS.

The official in charge of the Illinois Climatological Section states that upon returning from inspection trips it is his practise to send a brief note to each of the cooperative observers visited, stating his pleasure in meeting the new observers and renewing the acquaintance

of those who have been visited before. Where the section director has been entertained, a statement is included showing his appreciation of the hospitality extended.

The personal friendship formed with the cooperative observers is an important asset in the successful handling of a climatological section, and it is believed that the section directors should give this matter their consideration.

#### UNNECESSARY WORDS IN TELEGRAMS.

Occasionally telegrams received from stations contain many more words than are necessary. Telegrams should be carefully edited, leaving out unnecessary words and nonessential matter or that which can be supplied later by letter, thereby effecting a material saving. The telegraph fund must be rigidly conserved to meet the needs of the bureau and in the interest of economy. It is necessary to reduce telegraphic expenses wherever possible without detriment to the service. This matter was treated in greater detail in TOPICS AND PERSONNEL for September of 1918.

The Secretary of Agriculture recently has issued instructions that all telegrams received shall be examined and a special report made to chiefs of bureaus of instances where careless construction or the use of unnecessary words has occasioned an additional charge against Government funds.

#### TRANSPORTATION OF AUTOMOBILES.

It is requested that the third paragraph of "Transportation of Automobiles", in October TOPICS AND PERSONNEL, be canceled in red ink. The following is substituted:

Employees specifically authorized to drive their own automobiles in transferring from one station to another, when such automobiles are not used for official purposes, may be reimbursed in an amount which, with salary while en route, will not exceed the cost of a railway journey over the shortest, usually traveled route, per diem and salary included. This differs from paragraph 722a of Station Regulations in that the cost of shipping the automobile by freight can not be included in computing the total cost of the journey by rail.

When the time required by automobile exceeds by an appreciable amount that required by train, it will be necessary to take annual leave for the excess time. This eliminates per diem for the period of leave taken, as per diem automatically ceases when leave begins, and obviates the necessity of considering salary in the comparison of cost by automobile and by train.

#### EXAMINATION OF FORMS 1006.

Officials engaged in this work sometimes change indistinct figures by writing the correct figures over them in red or black ink, with the

result that they become almost illegible. It is suggested that when corrections of this nature are necessary, they be made above the original readings if there is room. If there is not room, let the corrected figures be entered at the bottom of the form, or in the space for the beginning and ending of precipitation, always connecting the corrected readings with the proper dates by appropriate reference marks. If corrections are made on the right-hand margin of the form, they are likely to be hidden when the forms are bound.

A TIME-SAVING SUGGESTION.

An official of the Davenport station suggests to stations having an 8 by 12 job press that two pages, 1 and 4 or 3 and 2, of the little annual summary can easily be printed at one time by using a center "lockup" instead of one at the side of the chase. The center "lockup" has been used at Davenport since 1914, and has resulted in better printing, besides saving time and labor.

The accompanying drawing was furnished with the suggestion.

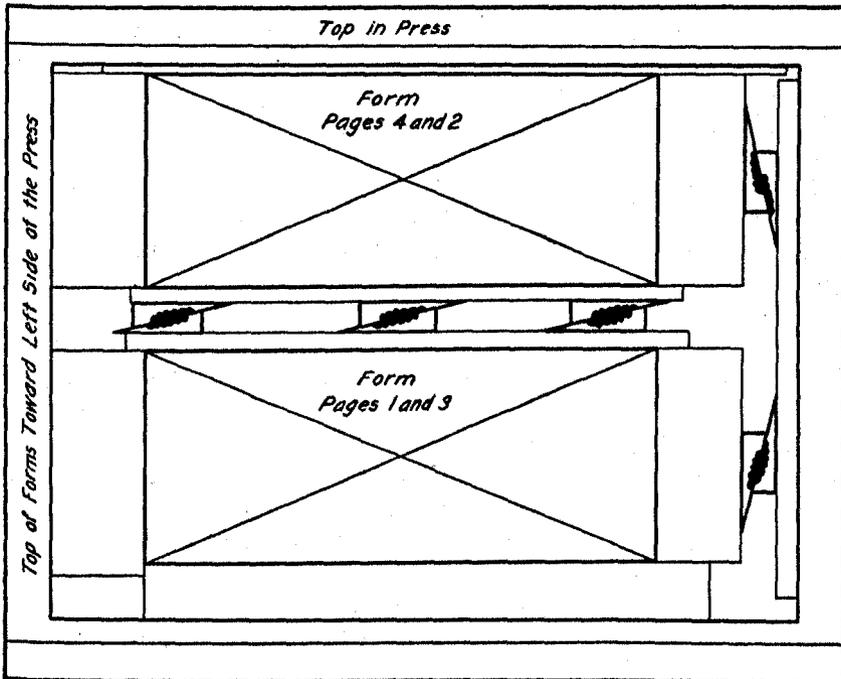


Diagram of annual summary "Lockup" used at Davenport.

PROTECTING WIND VANE MECHANISM FROM FROST.

The official in charge of the station at St. Joseph, Mo., writes as follows:

A standard 4-foot ball-bearing wind vane of the 1907 model has been in use at this station since 1910. It has given satisfactory results, except that, following

a sudden and somewhat decided drop in temperature in winter, frost sometimes formed in the contact box and on the contact springs, causing insulation, and thus interrupting the automatic record of wind direction.

About two years ago a piece of felt, approximately 6 by 18 inches in size, was placed in the lower portion of the contact box and in the pipe in the bottom of the box. We have found during the past two winters that the wool absorbed the moisture and prevented the formation of frost and the resultant loss of record. The felt is kept in the contact box only during the winter.

#### NEW EDITION OF WEATHER CODE.

The new edition of the weather code, which has been in course of preparation for some time, is now being printed. It is hoped that delivery will be made by the Government Printing Office in time to distribute it so that use may begin with January 1, 1924. It is desirable that use of the new code begin on the same date at all first order stations. If distribution to all stations of this class in the continental United States can not be accomplished before January 1, 1924, the code will become effective with January 15, 1924.

A number of changes have been made in the instructions and in the code words. Therefore, observers are enjoined to read carefully and familiarize themselves with the new code before it becomes effective.

#### TRANSPORTATION FROM HOTEL TO SUBSTATION.

A recent decision of the Comptroller General modifies under certain specified conditions the fiscal regulation that cost of conveyance between place of lodging or where meals are taken and place of duty is not reimbursable in addition to a per diem allowance. The decision is quoted in full in The Official Record of November 21 and should be carefully examined.

The more liberal position taken by the Comptroller General on this subject will be welcomed particularly by Weather Bureau officials required to inspect substations at considerable distances from hotel accommodations. It should be noted, however, that each case will be decided on its merits and that a full statement of necessity must be furnished by the traveler with his reimbursement account.

#### NOVEL USES OF WEATHER FORECASTS.

The following novel uses of local weather forecasts are reported by the official in charge of the Weather Bureau station at Davenport, Iowa:

1. The manager of a large macaroni and cracker factory at Davenport, Iowa, made arrangements with this office to secure the forecasts each morning and information regarding humidity conditions for the following day. The company plans its work 24 hours ahead, and if a dry day is expected arrangements are made to bake and pack ginger snaps, cookies, etc., on the following day.
2. The manager of the cafeteria in the basement of the Davenport High School telephones the Weather Bureau office every morning when threatening

weather prevails to learn whether it is likely to be raining at noon time. She provides food for the midday luncheon accordingly. On fair days many of the pupils go home for lunch, but on rainy days the number of customers is greatly increased, therefore a uniform quantity of food can not be prepared every day without loss on fair days or insufficient provision on rainy days. There are 1,216 pupils attending Davenport High School this year.

8. The hunting season for wild ducks opens on October 15 in this section of the country. Sportsmen have camps down the river and near the lakes in Iowa and Illinois where they go and camp for several days during the time that duck shooting is at its best. Shortly after the season opens this office is besieged with calls requesting information about the weather "up north" along the Canadian border. When a cold spell, with snow, appears over Manitoba and Minnesota it drives the wild ducks southward over Iowa and Illinois, and the enthusiastic hunters immediately leave for their respective camps. Unless cold weather appears along the border the hunters might be in their camps for weeks without getting a shot at wild game.

#### CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of November, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

#### *Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Anderson, John M. ....	Sandy Hook, N. J. ....	Messenger boy at \$480, resigned; record, fair.
Armstrong, Lloyd T. ....	Galveston, Tex. ....	Promoted to apprentice at \$600 from messenger boy at \$480.
Axtell, Robert. ....	Amarillo, Tex. ....	Appointed apprentice at \$600; temporary appointment terminated.
Belt, Charles A. ....	Pittsburgh, Pa. ....	Promoted to observer at \$1,620 from \$1,440.
Brotzman, William S. ...	Pittsburgh, Pa. ....	Promoted to meteorologist at \$2,280 from \$1,800.
Carpenter, Carl A. ....	Spokane, Wash. ....	Appointed assistant observer at \$1,080; appointment as messenger boy at \$480 terminated.
Chapin, William C. ....	Spokane, Wash. ....	Assistant observer at \$1,080, resigned; record, good.
Eshom, Mason G. ....	Oklahoma City, Okla. ..	Assistant observer at \$1,080, resigned; record, poor.
Fisher, Lawrence C. ....	Seattle, Wash. ....	Promoted to meteorologist at \$2,160 from \$1,800.
Higgs, Ralph L. ....	Key West, Fla. ....	Appointed assistant observer at \$1,080; temporary appointment at \$900 terminated.
Hill, Murray C. ....	Corpus Christi, Tex. ...	Messenger boy at \$480, resigned; record, excellent.
Levy, Henry. ....	Baltimore, Md. ....	Appointed assistant observer at \$660, a like amount being paid by the Maryland State Weather Service; appointment as messenger boy at \$480 terminated.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
McKenzie, Herbert W..	Seattle, Wash.....	Meteorologist at \$1,620, resigned; record, excellent.
Miller, Ross O.....	Seattle, Wash.....	Appointed observer at \$1,440, by reinstatement.
Molyneux, Harold L....	Del Rio, Tex.....	Appointed assistant observer at \$1,080; temporary appointment terminated.
Nicholson, David E....	Oklahoma City, Okla..	Appointed assistant observer at \$1,080.
Patterson, Mrs. Helen B.	Huron, S. Dak.....	Messenger, name changed on the rolls from Miss Helen F. Blume.
Pennywitt, Henry.....	Pittsburgh, Pa.....	Reduced to meteorologist at \$1,800 from \$2,500, without prejudice, because of preferred assignment.
Pugh, Arthur W.....	Knoxville, Tenn.....	Meteorologist at \$1,800, resigned; record, good.
Sankela, Henry G.....	Portland, Ore.....	Assistant observer at \$1,080, resigned; record, excellent.
Seidel, Henry J.....	Washington, D. C....	Promoted to messenger boy at \$600 from \$480.
Tracy, William H.....	Grand Rapids, Mich..	Promoted to meteorologist at \$1,620 from observer at \$1,440.
Voorhees, John F.....	Tonopah, Nev.....	Promoted to meteorologist at \$1,800 from observer at \$1,440.
Wadley, Miss Anna....	Washington, D. C....	Clerk at \$1,200, resigned; record, excellent.
Wiesner, Abe.....	Wichita, Kans.....	Appointed observer at \$1,440, by reinstatement.
Bonnett, Ralph A.....	Fresno, Calif.....	} Appointed messenger boy at \$480; temporary appointment terminated.
Stanich, Vincent F....	Sacramento, Calif.....	
Van Patten, J. Harvey.	Houghton, Mich.....	
Fitzsimmons, Thomas P.*	Galveston, Tex.....	} Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Hadley, Granville S.*..	Spokane, Wash.....	
James, Robert M.*.....	Baltimore, Md.....	
Schmedes, James*.....	Sandy Hook, N. J.....	

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Salisbury, Burton.....	New Orleans, La.....	Portland, Ore., assistant.
Tracy, William H.....	Boston, Mass.....	Grand Rapids, Mich., in charge.

\* Indicates temporary appointment.



Chief of Bureau.

# WEATHER BUREAU TOPICS AND PERSONNEL

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DECEMBER, 1923.

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## PILOT BALLOON OBSERVATIONS

The value of upper air observations is increasing as the relations between upper air and surface conditions become better known. Forecasters employ such data more and more in connection with their regular forecasting. Further use is made of these observations in preparing the monthly free-air summary. For the latter use, it is frequently desirable to study these observations in considerable detail as a means of explaining the causes of various observed phenomena. Lastly, these records will be found extremely useful and important in special investigations which may be made in the future. It may be stated, as a general rule, that the higher the observation extends the more valuable it is. This fact is of particular importance in connection with special investigations wherein these data are used.

In view of the foregoing, it seems desirable to bring to the attention of those engaged in this work the importance and necessity of obtaining as high observations as possible at *all* times. It appears that this important feature has been overlooked at some stations, as there is evidence of a laxity in this respect. In case a balloon is lost after, say 5 or 10 minutes, due to some obstruction, balloon bursting, high or rapidly changing angle, for example, another attempt should be made. If precipitation prevents an observation at the regular time, and conditions become favorable within an hour thereafter, it is extremely desirable to make the run *then*. Likewise, if it appears that precipitation would interfere with a run at the scheduled time and it has not begun to rain within an hour previous, it is preferable to begin the operation ahead of time. Strict simultaneity in free-air observations is not so important a factor as it is in surface observations. It should be remembered that observations extending to the level of the stratosphere and higher are especially desirable. It is hoped that an improvement in this respect wherever possible will be realized.

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## WHEN RECOMMENDING AN APPOINTMENT.

When recommending the appointment of a new employee, station officials should always give the date and place of his birth, his legal residence, the name of his employer and the capacity in which he was employed during the preceding year.

**CERTIFYING METEOROLOGICAL DATA.**

Insurance companies sometimes request station officials to certify before a notary to the correctness of data furnished. Several such requests have been referred to this office under the impression that certification by station officials would not be consistent with paragraph 237, Administrative Regulations (paragraph 599, Station Regulations). This regulation applies mainly to records used as evidence in court under conditions requiring authentication under the seal of the department, and does not prevent station officials from certifying to the correctness of rainfall and other data furnished for the information of the insurance companies or others.

**CORRECT DATE OF BIRTH ESSENTIAL.**

It is necessary, particularly since the passage of the Retirement Act, that the Central Office have the correct date of birth of every commissioned employee of the Weather Bureau. Therefore station officials are requested to see that every new station employee reports the date of his birth correctly on all forms. Care in this respect will obviate the later necessity of furnishing an affidavit to support a correction.

**WEATHER BUREAU ENVELOPES.**

To comply with Post Office regulations requiring that all envelopes bear a return address, the Weather Bureau has agreed to have "Washington, D. C." printed on all envelopes used in the bureau, regardless of whether they are to be used at the Central Office or at stations or substations. This decision was made in the interest of economy, as the cost of printing on envelopes the names of stations or substations, or supplying equipment for stamping them, would be prohibitive.

The Post Office Department understands that it is not practicable to have a return address on the cards and wrappers used in the Weather Bureau, and will not object to its omission from such matter.

**VOLUNTEERS FOR NORTH HEAD, WASH.**

Opportunity is hereby given to Assistant Observers and Observers, at \$1,080 and \$1,260 per annum, respectively, to volunteer for assignment to North Head, Wash., as official in charge, with promotion to \$1,260 and \$1,440, respectively, at the time of transfer. Volunteers should have not less than two years' service in the Weather Bureau. Some knowledge of telegraphy is required, and the candidate should be proficient in standard observational work.

The official in charge at North Head is furnished with quarters, fuel, and lights, and the Weather Bureau building has ample room for a married man with small family; in fact, single men are not

desired. Common and high schools are maintained at Ilwaco, Wash., about three miles from North Head.

The force at North Head consists of two men. A separate cottage is provided for the assistant. North Head is the northwest terminal point of a telegraph line connecting that station with Portland, Oreg., and its position renders it important for taking weather observations and reporting passing vessels.

The man selected for this assignment will be expected to remain at North Head for at least two or three years, although if his work is satisfactory and he so desires, he may be retained for a longer period.

Consideration will be given also to applications from employees now receiving \$1,440 per annum, but promotion now because of such assignment would be doubtful.

Persons desiring to volunteer should write to the Central Office at once, as selection will be made at an early date.

#### HOUSEHOLD GOODS.

To enable the Central Office to estimate more accurately the cost of shipping household goods, it is requested that every employee having household goods to be shipped indicate briefly to this office, as soon as informed of his prospective transfer, the approximate weight of such goods.

#### FORWARDING LETTERS TO THE CENTRAL OFFICE.

Station officials occasionally forward to the Central Office commendatory and other letters received by them, which they apparently have not acknowledged or answered. It is desirable such letters be acknowledged or answered before being forwarded, and that carbon copies of the answers be attached for the information of the Central Office.

#### RETURN BURLAP BAGS.

In compliance with existing instructions, all burlap bags at Weather Bureau stations should be returned by mail to the Central Office as soon as practicable in packages weighing not more than four pounds each, marked for the Supplies Division. Bags containing supplies should be emptied promptly and returned.

#### REPORTING EMERGENCY ASSISTANCE.

To remind station officials that such information is necessary and to provide a convenient means of reporting it, appropriate form-letter blanks are inclosed with practically every authorization for emergency assistance that is mailed from the Central Office, as indicated in TOPICS AND PERSONNEL for February, 1921. By this method, reports of emergency assistance have, as a rule, reached the Central Office promptly and have supplied the information necessary in

granting requests for leave, making appointments, temporary assignments, transfers, etc. Sometimes, however, the reports are not forwarded from station promptly, and occasionally not until called for. Station officials are requested to furnish such reports without delay in every case.

#### RETIREMENT.

Mr. Louis M. Campfield was retired October 27, 1923, on account of total disability. Mr. Campfield was born at Savannah, Ga., on September 4, 1875. He entered the Weather Bureau at that place on July 1, 1895, and, excepting three years at the Central Office, served continuously at Savannah.

Mr. Frederick W. Conrad retired December 31, 1923. He was born at Philadelphia, Pa., on January 28, 1852. Mr. Conrad enlisted in the Signal Corps on November 10, 1871, one year earlier than any man now serving in the Weather Bureau; but owing to two intervals between enlistments, he ranked fifth in length of service among the men connected with the bureau at the time of his retirement. Sergeant Conrad served with the Signal Corps section at the Centennial Exposition of 1876. In addition to a number of shorter assignments, he was in charge at Des Moines from 1881 to 1886, at Detroit from 1886 to 1888, and at Green Bay from 1891 to 1896 and from 1899 until his retirement.

#### DEATHS.

Mr. Leon J. Guthrie died in Atlanta on December 10, 1923. He was born September 11, 1876, at Potosi, Mo. On July 1, 1895, he entered the Bureau at St. Louis; was in charge at Willemstad, Curacao, from 1899 to 1901; assistant at Springfield, Ill., until 1907; in charge at Grand Junction until 1908, and at Fort Smith until June of 1922, when he transferred to Atlanta as first assistant.

Mr. George D. Boucher, a veteran of the civil war and the weather service, died December 16, 1923, at the Soldiers' Home in Sawtelle, Calif. Mr. Boucher served with the Fifteenth Pennsylvania Cavalry from 1862 to 1865, and with the Signal Corps and Weather Bureau from 1874 to 1882 and 1887 to 1899. He was in charge at Winne-mucca from 1890 to 1897.

Mr. Edward D. McKenna died recently at Richmond, Va., at the age of 82. Mr. McKenna was connected with the Signal Corps as printer and observer from 1872 to 1885. He also served as compositor at the Central Office in 1898 and 1899, and for a brief time in 1911.

#### CHANGES IN PERSONNEL.

The following, relative to changes in the personnel of the Weather Bureau during the month of December, 1923, is published for the *exclusive* information of employees of the Weather Bureau:

*Appointments, promotions, reductions, etc.*

Names.	Stations.	Remarks.
Aldrich, Ralph M . . . . .	Des Moines, Iowa . . . . .	Appointed apprentice at \$480; temporary appointment terminated.
Arnold, Harry A . . . . .	Drexel, Nebr . . . . .	Appointed laborer (unskilled) at \$600.
Ball, John P . . . . .	Grand Rapids, Mich . . . . .	Assistant observer at \$1,080, resigned; record, fair.
Brown, Edward A . . . . .	Grand Rapids, Mich . . . . .	Reduced to observer at \$1,440 from meteorologist at \$1,800, without prejudice, because of preferred assignment.
Campfield, Louis M . . . . .	Savannah, Ga . . . . .	Observer at \$1,440, leave without pay revoked, and retired October 27, 1928, on account of total disability.
Conrad, Frederick W . . . . .	Green Bay, Wis . . . . .	Meteorologist at \$1,620, retired.
Crosby, Carl R . . . . .	New Orleans, La . . . . .	Assistant observer at \$1,080, resigned; record, good.
Gewin, Charles W . . . . .	Montgomery, Ala . . . . .	Messenger boy at \$480, resigned; record, good.
Guthrie, Leon J . . . . .	Atlanta, Ga . . . . .	Meteorologist at \$1,800, died December 10, 1928.
Hobbs, Hermann E . . . . .	Washington, D. C . . . . .	Promoted to laboratory assistant at \$1,800 from meteorologist at \$1,620.
Hughes, Berne P . . . . .	Lansing, Mich . . . . .	Appointed assistant observer at \$1,080.
Jermin, Thomas Edward	Washington, D. C . . . . .	Promoted to clerk at \$1,200 from \$1,000.
Jones, Wesley W.* . . . .	Macon, Ga . . . . .	Assistant observer at \$900, resigned; record, fair.
Levering, Griffith G . . . . .	Chicago, Ill . . . . .	Assistant observer, restored to duty on December 1, 1928, from leave without pay.
Lowrey, John D . . . . .	Drexel, Nebr . . . . .	Laborer (unskilled) at \$600, appointment terminated; record, fair.
McGregor, William G.* . . . .	Corpus Christi, Tex . . . . .	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Mason, Thomas A . . . . .	Savannah, Ga . . . . .	Appointed assistant observer at \$1,080.
Moxom, Walter J . . . . .	Dayton, Ohio . . . . .	Meteorologist at \$1,800, resigned; record, excellent.
O'Grady, James V.* . . . .	Detroit, Mich . . . . .	Appointed messenger boy at \$480; temporarily, pending certification of eligibles.
Palmer, Andrew H . . . . .	San Francisco, Calif . . . . .	Meteorologist at \$1,800, resigned; record, good.
Pritchette, Walter H.* . . . .	Montgomery, Ala . . . . .	Appointed messenger boy at \$480, temporarily, pending certification of eligibles.
Reed, Guy L . . . . .	Richmond, Va . . . . .	Assistant observer at \$1,080, resigned; record, good.
Roberts, Arthur F . . . . .	Detroit, Mich . . . . .	Messenger boy at \$480, resigned; record, excellent.
Stopp, Miss Anna . . . . .	Washington, D. C . . . . .	Appointed clerk at \$1,000, by transfer from the Treasury Department.

*Appointments, promotions, reductions, etc.—Continued.*

Names.	Stations.	Remarks.
Walters, Leon K. W. . . . .	Detroit, Mich. . . . .	Promoted to observer at \$1,440 from \$1,260.
Whittier, Bernard B. . . . .	Green Bay, Wis. . . . .	Promoted to meteorologist at \$1,800 from \$1,620.
Curry, Jacob I.* . . . .	Groesbeck, Tex. . . . .	} Appointed assistant observer at \$900, temporarily, pending certification of eligibles.
Frigerio, J. James* . . . . .	New Orleans, La. . . . .	
Frise, Allen T.* . . . .	Richmond, Va. . . . .	
McCormick, Ernest F.* . . . .	Macon, Ga. . . . .	
Zoch, Richmond T.* . . . .	Madison, Wis. . . . .	
Lysaught, Orville D. . . . .	Savannah, Ga. . . . .	} Appointed messenger boy at \$480; temporary appointment terminated.
Miller, Alden E. . . . .	Portland, Oreg. . . . .	
Oeding, Victor C. . . . .	Terre Haute, Ind. . . . .	

*Changes in assignments.*

Names.	Relieved from—	Assigned to—
Adams, Harry E. . . . .	New Haven, Conn. . . . .	Hartford, Conn., in charge.
Brist, Frederick W. . . . .	Denver, Colo. . . . .	Memphis, Tenn., in charge.
Desmond, Ralph H. . . . .	Groesbeck, Tex. . . . .	Houston, Tex., assistant.
Fisher, Lawrence C. . . . .	Seattle, Wash. . . . .	Denver, Colo., assistant in forecasting.
Hare, Walter B. . . . .	Houston, Tex. . . . .	Phoenix, Ariz., assistant.
Neifert, William W. . . . .	Hartford, Conn. . . . .	Dayton, Ohio, in charge.
Rogers, Roy J. . . . .	Phoenix, Ariz. . . . .	San Francisco, Calif., assistant.
Schick, Charles O. . . . .	Fort Wayne, Ind. . . . .	Seattle, Wash., assistant.
Scott, Arthur H. . . . .	St. Louis, Mo. . . . .	Atlanta, Ga., assistant.
Swartz, John R. . . . .	Chicago, Ill. . . . .	Boston, Mass., assistant.
Van Thullenar, Clayton F. . . . .	Broken Arrow, Okla. . . . .	Washington, D. C., clerk.
Voorhees, John F. . . . .	Tonopah, Nev. . . . .	Knoxville, Tenn., in charge.
Walstrom, Arthur W. . . . .	Alpena, Mich. . . . .	Detroit, Mich., assistant.
Walters, Leon K. W. . . . .	Detroit, Mich. . . . .	Cheyenne, Wyo., assistant.
Whittier, Bernard B. . . . .	Lansing, Mich. . . . .	Green Bay, Wis., in charge.

\* Indicates temporary appointment.



Chief of Bureau.