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WEATHER BUREAU  
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(Memo. Climatological Service Memorandum No. 33)

MEMORANDUM

TO: Section Centers, Hydroclimatic Inspectors, Field Aides, WRPCs, River District Offices, and Area Engineers. (With copies to Regional Offices for Information.)

FROM: Climatological Services Division

SUBJECT: Climatological Service Memorandum No. 33

INSTRUCTIONS

1. FURNISHING HOURLY PRECIPITATION DATA TO RECORDER OBSERVERS: (REFERENCE: CSM NO. 32, ITEM 2): As outlined in the referenced item we plan to list recorder observers to receive Hourly Precipitation Data only upon their request.

It has been suggested, however, that the annual issue, containing monthly totals, would be of the most interest to the observers, even though it will not carry their names. Any Section Director, therefore, who wishes to send a copy of the annual to each recorder observer should report now to the Central Office, the number of copies needed for this purpose. A mailing list for this distribution will not be set up at Asheville; instead, the supply will be sent to the Section Center for forwarding to the observers.

It has been further suggested that, in order to give recorder observers due credit, recorder stations and observers be listed in the Climatological Data Station Index, with an appropriate reference note. We approve of this suggestion and hereby ask the Weather Records Processing Centers to include recorder stations when the Index for the monthly and annual Climatological Data is next re-typed. Instead of a table number entered in the "Refer to Tables" column, the letter "C" should be entered, the explanation for which is "Data for recorder stations denoted by 'C' are processed for special purposes and published in 'Hourly Precipitation Data'."

2. INDEX OR DIARY OF UNUSUAL AND OUTSTANDING WEATHER EVENTS: Condensed reference material on unusual weather periods, great freezes, storms, etc. would be of great value to the Section Center and to us. It is likely that some Centers now keep such an account. To aid us in the possible planning of a standard form or system each Section Director is asked to advise us if such a reference is kept, and if so, the content and form in which kept.

Washington, D. C.  
1/29/53

3. SUBSTATION HISTORIES FOR BULLETIN W SUPPLEMENT (REFERENCE: Our Memorandum of November 28, 1952): Decision has been reached to omit in the proposed "Bulletin W-Supplement" the data from recording substations not entered on Forms 1006 or 1009. (Most of these stations have a relatively short period of record.)

Section Directors may therefore delay preparation of Form 530-1 for such recorder stations until the histories for the stations that are to be published are completed.

It is planned to include in the "Supplement" all 1006, 1009, and 1024 substations with five or more years of record between 1931 and 1952. Section Centers, and River District Offices responsible for preparing substation history forms (Multiple Address Letter of March 14, 1951), are asked to give high priority to preparation of these substation histories, along with those for the regular climatological stations.

4. INTERPOLATION OF MISSING PRECIPITATION TOTALS FOR PUBLICATION IN THE ANNUAL ISSUE OF "HOURLY PRECIPITATION DATA" (REFERENCE: Circular Letter No. 28-52 and CSM No. 32, Items 4, 5, and 10): These referenced instructions regarding publication of interpolated precipitation totals in Climatological Data annuals, apply also to publication of interpolated totals in the annual issue of "Hourly Precipitation Data".

The only difference is that interpolated amounts for the annual publication of data from "recorder" stations should be sent by Section Centers directly to the National Weather Records Center instead of to the Weather Records Processing Center.

We suggest that, for publication in "Hourly Precipitation Data", the interpolations begin with January 1952.

5. PREPARATION OF FORM 5004: In submitting Form 5004 with a request for the establishment or change in status of a paid substation, the latest edition of this form should be used. This is illustrated as Exhibit H-04-1 of the Weather Bureau Manual. The latest form can be identified otherwise by its inclusion of blanks for present costs as well as proposed estimates for payments to observers and communications. Forms not showing these items are obsolete and should be destroyed.
6. W.B. FORMS 1049, 1084, 1085, 612.13, and 612.13-2: The Hydrologic Services Division reminds the River District Offices of the statement in Item 8 of CSM No. 27 in regard to river and rainfall report card forms and advises that supplies of WB Forms 1049, 1084, and 1085 are now running low and no new printing of

these forms will be made. W. B. Form 1089 has been renumbered to 612.13-2 and revised to make it more adaptable for general use. It is therefore suggested that daily occasional river and rainfall reports previously submitted on Forms 1084 and 1085 be submitted on Form 612.13-2, and data previously submitted on Forms 1049 be submitted on monthly Forms 612.13 (formerly Forms 1006).

GENERAL

7. SUBSTATION NORMALS: For those Section Centers which have not been able to compute substation normals based on the 1921-1950 period, decision has been reached to use as normals the means for the 1931-1952 period. These means will be obtained at the National Weather Records Center, in connection with Bulletin W Supplement, and they will be published in the Supplement.

No action at Section Centers in connection with substation normals is necessary at this time. Section Centers may help to expedite the preparation of normals by going forward with the task of preparing Substation Histories for use in the Bulletin W Supplement. All histories for a section must be completed before the Supplement for that section can be processed for printing.

8. REPRINT OF ARTICLE ON INTERPOLATION FROM MONTHLY WEATHER REVIEW: A small supply of reprints of the article "Interpolation of Missing Precipitation Records" taken from the August 1952 issue of the MONTHLY WEATHER REVIEW has been sent to each Section Center. It is believed that these separates may be of value in explaining the recently adopted methods of interpolation.

A limited supply of these reprints is available at the Central Office.

TO WRPCS

9. AMENDMENTS TO INSTRUCTIONS: Paragraph 1009.638 - Change the first sentence to read "The Station Index is intended to present reference information concerning all stations published in 'Climatological Data' or 'Hourly Precipitation Data'."

Paragraph 1009.6381 - Add "Instead of a table number, recorder stations should be indicated in the column headed 'Refer to Tables' by the letter 'C', the explanation of which should be shown in notes as follows: 'Data for recorder stations, denoted by 'C', are processed for special purposes and published later in Hourly Precipitation Data.'"

Paragraph 1009.826 - Add: "Stations published in 'Climatological Data' or 'Hourly Precipitation Data' are to be included in the Index. Recorder stations should be indicated

in the column headed 'Refer to Tables' by the letter 'C', the explanation of which should be shown in notes as follows: 'Data for recorder stations, denoted by 'C', are processed for special purposes and published later in Hourly Precipitation Data.'

Paragraphs 1010.034 and 1010.035 - Change the phrase "STD. NOR." or "PROV. NOR." to "Normal".

Paragraph 1010.038- Substitute the following for the two items about "STD. NOR." and "PROV. NOR.":

"Normal: Beginning with this issue new normals are being used for first-order stations. These are generally based on the 30-year record 1921 through 1950. Where 30 years of record are not available, normals are based on records of from 10 to 30 years adjusted to the 30-year period ending with 1950."

Paragraph 1010.038 - Add:

$\leq$  Equal to, or less than.

$\geq$  Equal to, or greater than.

10. AMENDMENT TO "INSTRUCTIONS FOR MICROFILMING WEATHER BUREAU RECORDS", JANUARY 1, 1951: Paragraph 9900.0403 (B) is hereby deleted effective January 1, 1953. Records from SAWRS and A-type second-order stations are now routed from the checking stations direct to the NWRC and microfilming of the remaining S-type second-order station records is therefore impractical.
11. CHANGE OF NAME OF SECRETARY OF COMMERCE ON WEATHER BUREAU PUBLICATIONS: Publications sent to printing plants after January 19, 1953, which formerly carried the name of Charles Sawyer on the cover, will carry the name as Sinclair Weeks. A supply of strip-on heading material has been sent to each Weather Records Processing Center and to the National Weather Records Center for use in existing master covers for Local Climatological Data annuals and other publications. Master covers for Climatological Data will soon be reprinted and a supply sent to each WRPC.
12. SEMI-ANNUAL REQUISITION: WRPCs are reminded to forward to the Central Office their semi-annual requisitions for punch cards and tabulating paper.



W. F. McDonald,  
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Services Division

GUIDE TO CLIMATOLOGICAL SERVICE MEMORANDUM NO. 33

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