LOCATION OF OFFICE DECEMBER 31, 1898.

Street East Main

Number, 823

CORRECTION FOR INSTRUMENTAL ERROR OF BAROMETER USED.

From 8 Am Jan 1 to8 pm Dec 3/inc., -004in.

From m. to m. inc., in.

From m. to m. inc., in.

REMARKS.

U. S. DEPARTMENT OF AGRICULTURE,

WEATHER BUREAU.

1898.

STATION:

RICHMOND, VIRGINIA.

INSTRUCTIONS.

1. Seventy-fifth meridian time must be used throughout this report. Be careful to use the 1898 edition.
2. If the elevation of the barometer, thermometer, or rain gauge has been changed, that on December 31 must be given. The dates and changes in elevation must be carefully recorded on the

and changes in elevation must be carefully recorded on the margin.

3. Het during the year, the actual barometer readings for the months preceding the vent that actual barometer readings for the months preceding the change the remove the property of the

seed.

5. When one or more observations are taken late, state the fact on the margin of page 2 in this way: One (or more) 8 a. m. (or 8 p. m.) observations taken late. Connect the note to the name of the month by a reference mark. When one or more observations are missed connect all data for less than a full month with a footnote, stating the length of time of the record.

6. The monthly mean pressure, dew-point, relative humidity, absolute range of pressure, and all other data, except as hereinafter provided for, will be taken from the summary of Form 1001—Met 1. The last decimal in the case of the four elements above named with the summary of pressure and temperature for the year enter the month and day thereof, as "July 6." The mean daily range and mean daily change of temperature will be taken from the columns similarly headed on page 6, Form 1001.

8. The data to be entered in the columns headed "Total" and "Possible" will be taken from the sum of the columns similarly headed on Form 1070. The "Percentage" will be taken from the

percentage of "Total." Stations not supplied with a sunshine recorder will leave these columns blank.

 The prevailing wind direction for the year (at foot of column headed "Prevailing Direction") will be determined from the sums of "Number of times observed blowing from the N., NE., etc.," except at stations preparing page 5. Form 1001, for the whole year.
In the latter case it will be determined from the sums of the time

10. The mean hourly pressure (recorded to thousandths), temperature, and wind velocity will be taken from the mean values at the foot of Forms 1028 and 1022, respectively, and the data for entry in columns headed. "For the month," from the average hourly pressure, temperature, and wind velocity, respectively. The base number will be entered once only, in the space provided for it on pages. The data for entry on pages will be taken from for it on pages. The data for entry on page swill be taken from each gapes. The data for entry on page swill be taken from each gape. The data for entry on page swill be taken from each further than the space provided that the space provided in the space of the year will be obtained by dividing the sum (multiplied by 100) of the miles and hours from each direction by the total number of miles and hours for the year, respectively. Stations not preparing page 5. Form 100, will leave the columns on this page blank. Data for less than one-half of a month will not be recorded, and in case the data for one or more of the page of the possible, and each mean will be recorded to the same number of decimal places as the data from which it is obtained are recorded, except the average sunshine, which will be recorded to whole

11. A copy of this form will be forwarded to the office of the Chief of Bureau not later than the 15th day of January succeeding the year for which it is the record, in an envelope marked "Records."

WILLIS L. MOORE, Chief of Bureau, che de ore this for 1899 accused.

ANNUAL METEOROLOGICAL SUMMARY FOR 1898,—STATION Pickmond, Virgnia Latitude N. 37°32', Longitude W. 77°26', Local time o h. 10 min. (1) Slower than 75th meridian time.

TEMPERATURE. (Corrected for temperature and instrumental error only.) ELEVATION OF BAROMETER CISTERN ABOVE MEAN SEA-LEVEL, ON DEC. 31, 1444. FEET, (All barometer readings have been reduced to above elevation.) ELEVATION OF DRY THERMOMETER BULB ABOVE GROUND ON DEC. 31, 98 FEET. FROM SELF-REGISTERING INSTRUMENTS. MONTHS MEAN. MEAN. Absolute Max. Max. Min. observed. MEAN RANGE. Mean Date. daily 320, 900, 320 (8.) Month-Abso- Mean Max. Min. In. In. In. 29.94 496 332 414 70 12 53 1645 9 29.40 Tan_ 0.89 306 30.01 11 29 58 479 29038471 12 11 189 30,46 29.72 0.74463 608 433 520 82 19 28 54 30.09 Mar ... 30:15 0.83 489 34 443 538 86 18 29.86 29:32 15 Apr 2982 300922 2929 0.80 766 577 67292 20 40 May __ 30 08 16 2966 19 850 645 748 97 26 56 22 41 205 lune ... 29.90 042 709 3016 14 July_ 2992 29.62 0.54 755 704 789 99 2 58 11 29.91 031 Aug ... 2976 25 750 701 788 95 25 65 22 30 175 2997 302021 2969 23 0.51 Sept __ 828 634 731 9418 50 12 44 194 Oct 2999 2936 22 689 524 606 84 3 34 28 50 3002 095 412 Nov .. 26 27 45 29 99 3050 to3 35.4 Dec. 49.8 31.3 40.6 69 30 16 15 359.42 Sum. Highest. 814959857066 Date. Lowest. Max. Date. Min. Data 381 2/6 4 29.95 Mean . 30,50

MONTHS.					RATUI				DEW-POINT. RELAT HUMID (Percent					TY.	VAPOI	R PRES	SURE.	PRECIPITATION. (Amount in inches and hundredths.) ELEVATION OF TOP OF GAUGE ABOVE GROUND DEC. 31, 89 FEET.									SNOWFALL (total depth)
				No. 01	DAYS				(Fercenta				Percentage.)			GREATEST AMOUNT			Excessive.						otal d		
				Mi	AN.					MEAN.			MEAN.			TOTAL	IN A 24 Conse Hou	NY CUTIVE	2.50 inches in 24 hours.			I inch per hour.			LL (to		
	Below- Above-							8 a. m.	8 p, m.	Month-	8 a, m.	8 p. m.	Month-	8 a. m.	8 p. m.	Month-	AMOU'T.	1100	MO,		(g.)			(g _*)		WFA	
	14°.	325.	41°.	500.	590.	68°.	770. 900.	(e.)	(e.)	(e.)	(e.)	(e.)	(e.)	(x.)	(x)	(x.)		Am't.	Date.	Am't.	Dur't'n	Date.	Am't.	Dur't'n. (h.& m.)	Date.	SNO	
									0		0	0%	%	%	In.	In.	In.	In.	In.		In.			In.			In.
Jan	0	3	15	3	0	0	0	0	31			80			.179			1.05	0.34	25	0	0	0	0	0	0	3,0
Feb	0	4	11	2	0	0	0	0	25			78			.142			1.05	052	18-19	6	0	0	0	0	0	T
Mar	0	0	27	16	8	1	0	0	41			83			. 276			3.78	1.12	29-30	6	6	0	6	O	0	T
Apr	0	0	27	19	9	3	0	0	42			78			.280			4.83	1.17	4-5	0	0	0	0	0	0	2,0
May	0	0	31	29	27	12	3	0	56			79			.439			528	158	5-6	6	0	0	0	0	0	0
June	0	0	30	30	30	24	12	0	62	1,		74			,560			298	1.00	12	0	0	0	0	0	0	0
July	0	0	31	31	31	29	22	0	69			80			.714			4.15	190	17-18	0	0	0	1.18	0 39	17	0
Aug	0	0	31	3/	31	31	22	0	70			84			:733			6.31	2.95	10-11	293	57 4	51011	1.18	100		0
Sept	0	0	30	30	30	20	9	0	61			79			,534			233	1.88	22-2	0	0	0	1.16	0.55	23	0
Oct	0	0	31	26	15	7	2	0	53			88			441			4.59	1.04	26	0	0	0	0	0	0	0
Nov	0	1	24	9	2	0	0	0	37			84	1		.230			222	0.65	30	6	0	0	0	0	0	.8
Dec		4	15	4	0	0	0	0	29		200	76	2		169			3.08	0.85	19-20	0	0	0	0	0	0	7
Sum	0	11	303	230	183	127	70	0	576			960			4.737			41.65	a.	a.	a.	a.	a.	a.	a. 2	a,	5.
Mean .	a.	a.	u.	a	u.	<i>u</i> ,	a.	a.	48			80			.395	+		a.	a.	".	a.	a.	a.	a.	a.	a.	a.

check on this for 1899

	CI	MEA OUDI (0 to	NESS.	H	OURS OUNSHIN	F E.		ELEVA	TION O	ANEM	IOMETE:	R CUPS	WIN	D. E Gro	UND I)EC. 31	, /	05	FEE	т.					NUI	MBER	OF DA	AYS.			
MONTHS.						-				DIRECTION.										4				PRECIP	ITATIO	7					
		(d.)		I.	Possible.	PERCENTAGE.	TOTAL MOVE- MENT IN MILES.	PRE- VAILING DIREC- TION.	Hour	MAXIMUM JRLY VELOCITY JRING MONTH.		No. 01 DAYS WITH GALES	TH NUMBER OF TIMES OBSERVED					RVED	BLowi	ING	OF CALMS.	R.	PARTLY CLOUDY.	DY.	.01 inch and over.	.04 inch and over.	۷.			DERSTORMS	RAS.
			Monthly.	TOTAL.	Possi	PERC			Miles.	From	Date.	(h.)	N.	NE.	E.	SE.	S.	sw.	w.	NW.	No. 0	CLEAR.	PAR	CLOUDY	10.	40. vo	Snow.	Hail.	Fog.	THUNDE	AURO
Jan .	6,6	-57	6,6				4144	SW	30	SW	23	1	*6	2	×2	×3	×3	×6	*8	*1	0	8	7	16	11	5	1	0	3	0	0
Feb .	47	3,2	4.1		,		3697	N	3/	W	15	2	7	×/	×	×6	× 2	×4	×4	·3	1	15	7	6	6	4	0	0	2	0	0
Mar_	6.6	= 6:	6.6				5595	N	25	S	13"	1	26	15	1	10	5	0	2	3	0	-8	9	14	15	12	0	0	2	. 0	0
Apr.	53	-4.9	5.3				5869	W	35	N	27	40	13	5	3	3	7	10	10	9	0	11	9	10	12	10	1	0	0	1	0
May.	56	6.0	5,6				5047	N	26	N	8"	0	13	7	2	12	8	5	5	10	0	10	11	10	20	14	0	0	0	8	0
June	50	4.5	5.0				4364	N	28	W	26	•	13	6	3	11	7	12	3	5	0	9	14	7	12	9	0	0	0	5	0
July_	56	6.2	5,6				4426	N	25	SE	17	0	16	6	5	13	12	4	3	3	0	6	17	8	17	13	0	0	0	7	0
Aug.	5.8	5.0	5.8				4405	- 5	34	SW	4	-	8	7	4	9	22	9	2	1	0	4	21	6	12	9	6	0	0	5	0
Sept.	46	3.6	4.6				4116	N	24	W	5	0	16	11	3	6	7	12	3	1	1	14	9	7	6	4	0	0	0	3	0
Oct _	50	4.7	5.0				4719	SF	28	SE	18	0	13	9	6	12	2	6	7	7	0	12	7	12	15	12	0	0	2	0	0
Nov.	5.7	= 4,2	5.2				4186	SE	26	S	10	0	9	2	0	13	10	6	13	6	1	10	10	10	13	12	1	0	3	0	0
Dec .							4487		36	Svv	4"	10 16	13	2	1	9	8	16	5	4	4	11	8	12	10	9	1	0	3	00	0
Sum.							55115	a.	a.	a.	a.	7	153	73	30	107	93	90	65	53	7	118	129	118	149	113	4	0	15	29	0
Mean	54	4.9	54				a.	N	a.	a,	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.	a.

h .- Days with 40 miles per bour and over