Scientific monthly. New York. v. 25. September, 1927.
Holmes, Bert E. Vocal thermometers. p. 261–264.

Scottish geographical magazine. Edinburgh. v. 43. July 15, 1927.
Stevens, A. The new outlook in meteorology and its geographical bearings. p. 218–236.

Sweden. Statens meteorologisk-hydrografiska anstalt. Meddelanden. Stockholm. Band 3. No. 12. 1927.
Ångström, Anders. Recording nocturnal radiation. 12 p.

Wetter. Berlin. 44. Jahrgang. 1927.
Galbas, P. A. Die Gesellschaft zur Förderung der Klimaforschung im Nordseegebiet. p. 19–21. (Jan.)
Groissmayr, Fritz. Nordhemisphärische Gebiete winterlicher Temperaturgegensätze. II. p. 21–24. (Jan.)
Moese, O., & Schinze, G. Die Schleifzone vom 15. und 16. Oktober 1926. p. 2–7. (Jan.)
Treibich, A. Welche Mittel sind geeignet, die Treffsicherheit der Wetterprognosen und die Wertschätzung des Wetterdienstes in der Öffentlichkeit zu heben. p. 17–19. (Jan.)

Wetter. Berlin. 44. Jahrgang. 1927—Continued.
Voigts, Heinrich. Meteorologie und Wetterkunde in den physikalischen Lehrbüchern für höhere Schulen. p. 7–14. (Jan.)
Federov, E. E. Das Klima als Wettergesamtheit. p. 145–157. (Juli.)
Fischer, Joh. Die Unwetterkatastrophe am 19. Juli in Pfohren. p. 163–165. (Juli.)
Peppler, W. Schichtung des Zirrusniveaus. p. 162–163. (Juli.)
Peppler, W. Das Verhalten der Rauchfahnen auf dem Bodensee. p. 161–162. (Juli.)
Die täglichen und jahreszeitlichen Veränderungen in der Gestalt und Struktur unserer Lufthülle. p. 165–167. (Juli.)
Wigand, A. Luftelektrisch-physiologische Reaktionen des Wettersinnes. p. 157–158. (Juli.)

Zeitschrift für Gletscherkunde. Leipzig. Band 14. H. 3. Juli 1927.
Gams, H. Die Ergebnisse der pollenanalytischen Forschung in Bezug auf die Geschichte der Vegetation und des Klimas von Europa. p. 161–190.

SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING AUGUST, 1927

By IRVING F. HAND, Solar Radiation Investigations

For a description of instruments and exposures and an account of the method of obtaining and reducing the measurements the reader is referred to the REVIEW for January, 1924, **52**:42, January, 1925, **53**:29, and July, 1925, **53**:318.

From Table 1 it is seen that solar radiation intensities averaged above normal at both Madison and Lincoln, but below normal at Washington.

Table 2 shows an excess in the total radiation received on a horizontal surface from the sun and sky at Madison and a decided deficiency at Washington and Lincoln. August weather at Washington was marked for its haziness in general.

Skylight polarization measurements made at Washington on three days give a mean of 44 per cent, with a maximum of 47 per cent on the 5th. At Madison measurements made on nine days give a mean of 64 per cent, with a maximum of 73 on the 9th. The Madison values are close to normal values, but the values for Washington are much below average August determinations.

TABLE 1.—*Solar radiation intensities during August, 1927*

[Gram-calories per minute per square centimeter of normal surface]

WASHINGTON, D. C.

Date	Sun's zenith distance										
	8 a. m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	Noon
	75th mer. time	Air mass									Local mean solar time
		A. M.					P. M.				
	e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
Aug. 5	13.61	0.30	0.39	0.52	0.74	1.05					13.61
10	8.81					1.39	1.10				9.41
15	14.60				0.73						13.13
16	10.21					1.41	1.14	0.91			7.87
29	12.24			0.78	0.91						12.68
30	12.68			0.44	0.70						12.24
Means		(0.30)	(0.39)	0.58	0.77	1.28	(1.12)	(0.91)			
Departures		−0.34	−0.28	−0.16	−0.15	+0.05	+0.10	+0.03			

* Extrapolated.

TABLE 1.—*Solar radiation intensities during August, 1927*—Con.

MADISON, WIS.

Date	Sun's zenith distance										
	8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	Noon
	75th mer. time	Air mass									Local mean solar time
		A. M.					P. M.				
	e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
Aug. 3	8.48				1.19						7.87
5	10.97				1.10						9.47
6	10.97				1.14						13.61
9	7.87				1.29	1.43					7.29
10	8.18				1.21						7.87
11	8.48				0.97						13.61
20	8.48				1.15						8.81
23	9.47					1.35					10.21
24	7.04			1.11	1.25	1.43	1.24				7.87
31	12.24					1.35	1.08				10.59
Means				(1.11)	1.16	1.39	(1.16)				
Departures				+0.07	+0.06	+0.08	+0.09				

LINCOLN, NEBR.

Aug. 5	15.11					1.26	1.02	0.83			15.65
6	15.11				1.13	1.32					18.59
12	13.61			0.99	1.28	1.32					15.11
17	10.59		0.73	0.88	1.13	1.39					12.24
19	16.33	0.73	0.84	1.04	1.28	1.45					7.87
20	8.48		0.77	0.91	1.18	1.47					8.81
23	9.47	0.79	0.89	1.02	1.20	1.46	1.12	0.95	0.81		7.87
25	10.59					1.32	1.05	0.87	0.69		10.59
Means		(0.76)	0.82	0.97	1.20	1.37	1.06	0.88	(0.75)		
Departures		+0.10	+0.05	+0.07	+0.12	+0.07	−0.01	−0.01	±0.00		

TABLE 2.—*Solar and sky radiation received on a horizontal surface*

[Gram-calories per square centimeter of horizontal surface]

Week beginning	Average daily radiation						Average daily departure from normal		
	Washington	Madison	Lincoln	Chicago	New York	Twin Falls	Washington	Madison	Lincoln
1927	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
July 30	340	525	475	443	326	729	−99	+59	−55
Aug. 6	442	500	455	383	376	588	−4	+50	−40
13	421	372	394	347	303	559	−4	−53	−91
20	395	525	458	393	251	606	−12	+89	−36
27	355	427	414	356	188	589	−61	+19	−42
Deficiency since first of year on Sept. 2							−8890	−3,346	−7,133