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Miller, M. F., & Duley, F. L.
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Les courbes de Gauss dissymétriques et leur application à l'étude des phénomènes météorologiques. Paris. 1924. 17 p. illus. 31 cm. (Mem. Off. nat. mét. de France. No. 9.)

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Die Verteilung der Jahreszeiten im tropischen nordäquatorialen Afrika. [3 p.] chart. 33 cm. (Auszug Inaug.-Dissert. Giessen. 1920.)

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RECENT PAPERS BEARING ON METEOROLOGY

The following titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

American meterological society. Worcester, Mass. v. 6. 1925.
Kincer, J. B. Protecting orchards from frost. p. 118–122. (Aug.–Sept.)
Nunn, Roscoe. World weather maps. p. 113–117. (Aug.–Sept.)
Van Cleef, Eugene. Do weather conditions influence radio? p. 137–138. (Aug.–Sept.)
Drought and heat in the southeast. p. 151–155. (Oct.)
Fergusson, S. P. Meteorology of the total solar eclipse of 1925. p. 141–150. (Oct.)
Nunn, Roscoe. Does it ever get too dry to rain? p. 155–166. (Oct.)
Nunn, Roscoe. Summer showers that perplex meteorologists. p. 156–159. (Oct.)

Archives des sciences physiques et naturelles. Genève, v. 7. Septembre-octobre 1925.
Klingelfuss, Fr. Sur la question de la rigidité diélectrique de l'air. p. 337–340. [Abstract.]
Stäger, A. Sur l'électricité des poussières. p. 335–337. [Abstract.]

Arkiv för matematik, astronomi och fysik. Stockholm. Band 19. Häfte 2. 1925.
Bäcklin, Erik. Bestimmung von Pyrheliometerkonstanten am Physikalischen Institute der Universität Uppsala. no. 10. 14 p.
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Koschmieder, Harald. Theorie der horizontalen Sichtweite. p. 33–55. (H. 1.); p. 171–181. (H. 3.)
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California citrograph. Los Angeles. v. 11. December, 1925.
Rainfall for 1925–26 season predicted by McEwen. p. 42.

Deutsche Seewarte. Aus dem Archiv. Hamburg. 42. Jahr gang, nr. 2. 1923.
Seilkopf, Heinrich, & Stüve, Georg. Ergebnisse von Höhenwindmessungen auf dem Nordatlantischen Ozean und im Golf von Mexico, Februar bis Mai 1923.

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Dedebant. Sur l'isolement des tendances dynamiques dans les régions à forte variation diurne de la pression. p. 225–226. (3 août.)
Lejay, P. Les perturbations orageuses du champ électrique et leur propagation à grande distance. p. 678–679. (9 novembre.)

Franklin institute. Journal. Philadelphia. v. 200. November, 1925.
Seemann, Herman E. Solar radiation during the total eclipse of January 24, 1925. p. 629–633.

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Fansler, P. E. The iso-degree-day chart. p. 73. (Sept.)
How and how not to use the iso-degree-day chart. p. 49–51. (Nov.)

Hemel en dampkring. Den Haag. 23 jaargang. 1925.
Everdingen, E. van. Dr. Ch. M. A. Hartman. p. 273–276. (November.) [Obituary.]
Visser, S. W. De theorie van de zijdelingsche bogen aan den grooten kring volgens Bravais. p. 288–293. (November.)
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Akiyama, Minesaburô. On the origin of the penetrating radiation.
Fujiwhara, Sakuhei. Bead and rocket lightnings? [Abstract.]
Hirata, Tokutarô. Preliminary observations on the evaporation of water from soil surface. p. (7)–(8). [Abstract.]
Kobayasi, Seigo. Coloured snow observed at Tôkamati, Niigata Prefecture. p. (6). [Abstract.]
Misawa, Katue. Second report on the glaze storm in Nagano Prefecture. p. (5)–(6). [Abstract.]
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Terada, Torahiko, Ômae, Kenzaburô, & Mituhasi, Yôzirô. Effect of topography on gustiness of winds. p. 39–44.

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Dwight, C. H. A search for possible effects of atmospheric electric discharge upon the potential gradient. p. 101–110.

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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING NOVEMBER, 1925

By HERBERT H. KIMBALL, 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 and January, 1925, **53**: 29.

From Table 1 it is seen that solar radiation intensities averaged above the normal for November at Washington, D. C., and slightly below at Madison, Wis., and Lincoln, Nebr.

Table 2 shows that the solar and sky radiation received on a horizontal surface averaged slightly below the normal for November at Washington and above normal at Madison and Lincoln.

At Washington skylight polarization measurements made on four days give a mean of 63 per cent, with a maximum of 66 per cent on the 9th. At Madison, measurements made on five days give a mean of 61 per cent with a maximum of 66 per cent on the 20th. The values for Washington are close to the November averages, while those for Madison are somewhat below.

TABLE 1.—*Solar radiation intensities during November, 1925*

Washington, D. C.

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

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] 1.0	2.0	3.0	4.0	5.0	e.
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
Nov. 9	3.30		0.81	1.02	1.26	1.49	1.18	1.05	0.92	0.80	2.36
10	3.30	0.71	0.84	1.00	1.13	1.41	1.21				3.15
11	4.75	0.55	0.73	0.91	1.14		1.11	0.94	0.83	0.76	4.57
13	7.29	0.71			1.18						6.50
14	4.75	0.92	1.06	1.19	1.40	1.56	1.37	1.18	1.06	0.97	3.63
18	3.30	1.01	1.08	1.19	1.33						3.63
21	4.37	0.63	0.76	0.93	1.16	1.43	1.18	1.02	0.86	0.77	4.57
23	2.36				1.30						1.96
24	1.68		0.81	0.96	1.21		1.21				2.16
Means		0.76	0.87	1.03	1.23	1.47	1.21	1.05	0.92	0.82	
Departures		+0.01	+0.02	+0.04	+0.05		+0.04	+0.07	+0.10	+0.09	

TABLE 1.—*Solar radiation intensities during November, 1925*—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] 1.0	2.0	3.0	4.0	5.0	e.
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
Nov. 5	4.17							1.22			4.72
6	3.45			0.82	1.31						4.37
11	4.75							0.95			6.50
13	6.02				1.22			1.08			6.76
17	2.62			1.09	1.24						3.81
20	3.63	0.87	1.00	1.08	1.28			1.21	0.96		5.16
21	4.37	0.85	0.97	1.11	1.28	1.47					4.57
23	1.88		0.91	1.16							2.16
25	3.63	0.83									3.63
28	1.19	1.09	1.19	1.31							1.19
Means		0.91	1.02	1.10	1.27	)		1.12	(0.96)		
Departures		+0.03	+0.01	−0.05	−0.03			−0.04	−0.10		

Lincoln, Nebr.

Nov. 2	3.99		0.99	1.12	1.32		1.20				4.57
5	3.81		0.87	1.21			1.31	1.13			4.57
8	1.88		1.02	1.17	1.34	1.52	1.31	1.17	1.02	0.91	2.87
9	3.30	0.74	0.87	1.15	1.37						5.36
10	3.30	0.79	0.83	0.98	1.13		1.28	1.05	0.92	0.80	7.04
11	4.75	0.92	1.03	1.14	1.27						6.76
12	4.75						1.26	1.15			7.04
16	2.74						1.23	1.19	1.05	0.98	3.99
18	4.17				1.35	1.56	1.41	1.26	1.10		4.75
19	3.45	0.94	1.09	1.18	1.41	1.60	1.40	1.27	1.13	1.02	4.95
20	3.30	0.90	0.96	1.22	1.41	1.63		1.26	1.13	1.02	5.36
21	3.45		0.76	1.26							4.17
30	3.99			1.26	1.40						4.17
Means		0.86	0.94	1.17	1.33	1.58	1.30	1.18	1.06	0.95	
Departures		−0.07	−0.09	−0.02	−0.02		−0.06	−0.02	+0.01	+0.01	

[1] Extrapolated.

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	Washington	Madison	Lincoln
1925	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
Oct. 29	208	212	261	161	152	−37	+25	+13
Nov. 5	206	183	251	151	134	−17	+14	+19
12	188	129	226	87	140	−11	−19	+11
19	229	152	228	147	114	+53	+18	+26
26	145	117	180	75	98	−13	−8	−8
Excess or deficiency since first of year on Dec. 2						−987	+21	−2,072