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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING AUGUST, 1926

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, January, 1925, **53** : 29, and July, 1925, **53** : 318.

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

Table 2 shows a pronounced deficiency in the amount of radiation received on a horizontal surface from the sun and sky at Washington and Madison and a slight excess at Lincoln.

Skylight-polarization measurements made on four days at Washington give a mean of 54 per cent, with a maximum of 58 per cent on the 26th. Measurements made on six days at Madison give a mean of 55 per cent, with a maximum of 64 per cent on the 14th. These are below the corresponding average values for August at both stations.

TABLE 1.—*Solar radiation intensities during August, 1926*

[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. 3	20.57	0.53	0.65	0.76	0.95	1.19					18.59
9	11.38				1.03	1.21					12.68
26	12.68					1.41	1.06	0.74	0.61		9.47
27	13.61				0.76						15.11
28	14.60				0.88	1.23	0.98				10.21
30	15.11						0.98				10.21
31	10.97		0.69	0.86	1.02	1.28					9.47
Means		(0.53)	(0.67)	(0.81)	0.93	1.26	1.01	(0.74)	(0.61)		
Departures		−0.13	−0.01	+0.04	±0.00	+0.04	±0.00	−0.13	−0.12		

*Extrapolated.

TABLE 1.—*Solar radiation intensities during August, 1926*—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. 6	14.60					1.11					10.59
14	12.24					1.20					13.13
21	12.24			0.94	1.05	1.37					13.13
24	10.97			0.82							11.38
25	10.59			1.00							10.97
27	13.61			0.79	1.00						13.61
28	14.10			0.88	1.05						15.11
30	8.48			0.96	1.13						8.48
31	9.47				0.96						9.47
Means				0.90	1.04	1.23					
Departures				−0.04	−0.06	−0.08					

LINCOLN, NEBR.

Aug. 2	12.68						0.89	0.76	0.65		13.13
7	10.59		0.48	0.66	0.90						9.14
9	15.11					1.25	1.01	0.74	0.58	0.49	15.11
17	15.11					1.27	0.96	0.72			15.65
20	13.61	0.76	0.79	0.97	1.16	1.33	1.16	0.99	0.90	0.76	14.10
23	14.60						1.18	0.97	0.87	0.71	12.24
24	10.97		0.79	0.90	1.13	1.39	1.09	0.87	0.65	0.63	8.48
25	10.21		0.86	1.01	1.19	1.39					11.38
26	12.24					1.30	1.05	0.87	0.72	0.59	8.18
27	11.38		0.95	1.07	1.21	1.41	1.17	0.97	0.84	0.72	9.47
28	15.11		0.89	0.99	1.08	1.30					12.68
Means		(0.76)	0.79	0.93	1.11	1.33	1.06	0.86	0.74	0.65	
Departures		+0.11	+0.02	+0.03	+0.03	+0.04	−0.01	−0.03	−0.01	−0.04	

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
1926	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
July 30	391	300	565	242	313	−68	−170	+31
Aug. 6	446	365	500	323	340	−4	−90	−16
13	228	459	490	298	241	−207	+18	−4
20	195	418	554	329	191	−224	−7	+72
27	491	437	416	311	344	+86	+34	−46
Excess or deficiency since first of year on Sept. 2						−2,072	+1,883	+637