Pontificia accademia romana dei nuovi Lincei—Continued.
Negro, Carlo. A proposito di certe discussioni in elettricità atmosferica. p. 178–184.
Popular astronomy. Northfield, Minn. v. 33. April, 1925.
Bassett, Preston R. Shadow bands and searchlights. p. 232–236.
Watts, Harvey M. Shadow bands during the period of greatest obscuration—partial eclipse of the sun, Philadelphia, January 24, 1925. p. 236–240.
Popular weather quarterly. Tunbridge Wells. v. 3. April, 1925.
Allison, J. Reginald. Does wireless affect our weather? p. 15–17.
Science. New York. v. 61. April 3, 1925.
MacDougal, D. T. Tree trunks, growth and reversible variations in circumference. p. 370–372.
Scientific monthly. New York. v. 20. May, 1925.
Antevs, Ernst. Glacial climatic conditions. p. 464–465.
Coleman, A. P. The spacing of ice ages and early pre-Cambrian climates. p. 473–475.
Humphreys, W. J. Some factors of climatic control. p. 449–459.
Stanton, Timothy W. Evidence of invertebrates on the question of climatic zones during Mesozoic time. p. 459–463.
Visher, Stephen Sargent. The solar-cyclonic hypothesis and the glacial period. p. 475–478.
White, David. Upper Paleozoic climate as indicated by fossil plants. p. 465–473.
Tycos-Rochester. Rochester, N. Y. v. 15. April, 1925.
Daly, G. H. Forecasting weather by wireless. p. 64–65.
Flora, S. D. Weather forecasts for millions. p. 54–56.
Laskowski, B. R. Ball lightning. p. 66–67.
Laskowski, B. R. An unusual fog movement. p. 61.
Laskowski, B. R. Weather forcasts for marcel waves. p. 52.
Luckiesh, M. The mountains of fairyland. p. 45–47.
Many kinds of rainbow. p. 69.
Radio and the weather. p. 58–59; 62–63.
Wetter. Berlin. 41. Jahgang. November/Dezember 1924.
Arendt, Th. Ueber Windregistrierungen in Potsdam und Köthen. p. 179–184.
Malsch, W. Die Schneeverhältnisse in Baden. p. 185–187.
Peppler, W. Die Bedingungen grosser lufttrockenheit im Hochschwarzwald. p. 176–179.
Polis, P. Verteilung der Spät-und Frühfröste in der Rheinprovinz und in den angrenzenden Gebietsteilen von Hessen-Nassau und Westfalen. p. 161–167.
Prochnow, Oskar. Wetterwarnung oder Wetterbeobachtung durch Vögel? p. 187–188.
Stäger, U. Beiträge zur Theorie der Gewitterelektrizität. p. 167–170.
Topolansky, Moriz. Mittelwerte und Einzelwerte in der Klimatologie. p. 188–190.
Wussow, G. Die starken Augustregen 1924 in Norddeutschland. p. 170–173.

SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING MARCH, 1925

By HERBERT H. KIMBALL, In Charge, 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 somewhat above normal values for March at Washington and Lincoln, and somewhat below at Madison. A noon reading of 1.55 gram-calories per min. per cm² at Lincoln on the 14th almost equals the previous March maximum at that station of 1.56. A note on the original record reads "The high wind with snow yesterday [March 13] seems to have cleared the air to an exceptional degree."

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

At Washington skylight polarization measurements made on five days give a mean of 56 per cent, with a maximum of 65 per cent on the 19th. These are close to normal values for March at Washington. At Madison, measurements made on six days give a mean of 56 per cent with a maximum of 63 per cent on the 26th. These are slightly below normal values for March at Madison.

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

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

Washington, D. C.

Date	8 a.m.	Sun's zenith distance 78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	Noon
	75th mer. time	Air mass A. M.					P. M.				Local mean solar time
	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.*
Mar. 3	1.32		0.64	0.89	1.14	1.43					1.12
6	4.75			0.84	1.06		1.05	0.95	0.76	0.64	3.81
12	4.95	0.68	0.79	0.97	1.23	1.57	1.33	1.14	1.02		3.45
16	3.00		0.62	0.82	1.02						2.36
19	12.24						1.15	0.96			8.18
20	3.81		0.88	1.04	1.18						4.57
21	5.79	0.54	0.71	0.89	1.09						5.36
23	3.00	0.88	1.02	1.14	1.31	1.50	1.32	1.01	0.92	0.72	2.87
Means		0.70	0.77	0.94	1.15		1.21	1.02	0.90	(0.68)	
Departures		−0.01	−0.03	±0.00	±0.00		+0.09	+0.09	+0.10	±0.00	

TABLE 1.—*Solar radiation intensities during March, 1925*—Contd.

Madison, Wisconsin

Date	8 a.m.	Sun's zenith distance 78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	Noon
	75th mer. time	Air mass A. M.					P. M.				Local mean solar time
	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.*
Mar. 2	0.53					1.57	1.30				0.81
10	5.16				1.21						4.17
12	2.16		0.83	0.95	1.20	1.41	1.05				3.45
23	3.99						0.68				5.79
24	6.76						1.33	1.18			5.16
26	5.16			0.95	1.07						6.27
28	3.00		1.10	1.21	1.37	1.55					3.15
30	3.81						1.20				4.75
31	3.30			1.17	1.37		1.17				2.87
Means			(0.96)	1.07	1.24		1.12	(1.18)			
Departures			−0.07	−0.11	−0.08		−0.18	+0.01			

Lincoln, Nebraska

Mar. 2	1.12		1.14								1.37
5	4.75	0.70	0.80	0.99	1.17	1.42					6.27
14	1.32		1.04	1.19	1.42	1.70	1.37	1.00			1.60
18	3.30					1.52	1.25	1.07	0.83	0.76	3.81
19	3.99	0.94	1.06	1.20	1.40	1.64	1.39	1.19	1.04	0.92	2.49
21	3.00		1.04	1.17	1.33	1.50					3.00
24	5.16					1.46	1.25	1.06	0.90	0.76	5.36
25	4.57		1.01	1.12	1.28	1.48	1.28	1.10	0.95	0.82	4.37
26	3.30		0.79	0.99	1.25		1.13	0.95	0.80		2.87
27	2.62	1.01	1.12	1.24	1.41	1.56	1.34	1.14	1.02	0.90	1.96
30	3.00		1.07	1.17	1.36	1.57					2.49
Means		0.88	1.01	1.13	1.33		1.29	1.07	0.95	0.83	
Departures		±0.00	+0.07	+0.04	+0.04		+0.02	±0.00	±0.00	+0.04	

* 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: Washington	Madison	Lincoln	Chicago	New York	Average daily departure from normal: Washington	Madison	Lincoln
	cal.	*cal.*	*cal.*	*cal.*	*cal.*	*cal*	*cal.*	*cal.*
Feb. 26	361	293	310	208	252	+80	+11	−31
Mar. 5	304	229	325	148	242	−2	−77	−39
12	295	268	332	184	265	−42	−26	−60
19	459	355	457	255	366	+101	+13	+45
26	243	445	427	331	180	−132	+86	−1
Excess or deficiency since first of year on Apr. 1, 1925						−1,099	−1,785	−1,302