

BIBLIOGRAPHY

C. FITZHUGH TALMAN, in Charge of Library

RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

**Baldit, A.**  
Les routes aériennes de l'Atlantique; aperçu météorologique. Paris. 1928. xiv, 122 p. figs. plates (fold.). 25½ cm.

**Breton, H. Hugh.**  
Great blizzard of Christmas, 1927. Its causes and incidents. With maps. With a comparison to other great snowstorms in England between 1795 and 1927. Plymouth. 1928. 55 p. illus. 18½ cm.

**Duffield, Thomas J.**  
Weather and the common cold. New York. 1928. 16 p. plates. 29 cm. (N. Y. Comm. on vent. Report. comm. pub. health climatology. Vital stat. sec.)

**Easton, C.**  
Les hivers dans l'Europe occidentale. Étude statistique et historique sur leur température . . . Leyde. 1928. 210 p. front. 25 cm.

**Groissmayr, Fritz.**  
Die Nilflut und der Temperaturcharakter des Folgewinters in Leipzig. Leipzig. 1928. p. 326-333. figs. 22½ cm. (Abdr. Berichten math.-phys. Kl. der sächs. Akad. der Wissensch. zu Leipzig. Bd. 80. Sitzung vom 11. Juni 1928.)

**Kidson, E.**  
Climate of New Zealand. Wellington. 1928. 18 p. figs. 25 cm. (Extr.; New Zeal. off. year book. 1929.)

**Luckiesh, M.**  
General considerations and definitions of glare and visibility. p. 542-546. 23 cm. (Repr.; Trans. Illum. eng. soc., v. 22, no. 5, 1927.)

**Luckiesh, M., & Holladay, L. L.**  
Glare and visibility. A résumé of the results obtained in investigations of visual and lighting conditions involving these factors. 27 p. figs. 23 cm. [Paper read at annual convention of the Illum. engin. soc., N. Y., Oct. 27-30, 1924.]

**Matz, Philip B.**  
Effect of climate upon the treatment of pulmonary tuberculosis. p. 1150-1159. 23½ cm. (U. S. Vet. bur. med. bull. v. 3, no. 11, Nov., 1927.)

**Patton, P.**  
Relationship of weather to crops in the plains region of Montana. Bozeman. 1927. 66 p. figs. 22½ cm. (Univ. Montana, agr. exp. sta. Bull. no. 206. Aug., 1927.)

**Poisson, Charles.**  
Les cyclones de Madagascar. p. 5-22. chart. 23 cm. (Mat. pour l'étude des calamités. 5 année. 1928-1929. no. 17. Genève. 1928.)

**Robert, Maurice.**  
Le Katanga physique. Bruxelles. 1927. 282 p. illus. plates (fold.) 23 cm.

**Smith, L. A. Brooke.**  
Wireless and weather an aid to navigation. London. 1928. iv, 60, v-xvi p. figs. charts. 31½ cm. (From the Marine Observer.) (M. O. 297.)

SOLAR OBSERVATIONS

By HERBERT H. KIMBALL, Solar Radiation Investigations

SOLAR AND SKY RADIATION MEASUREMENTS DURING OCTOBER, 1928

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.

Table 1 shows that solar radiation was below its normal intensity for October at Washington, D. C., and Lincoln, Nebr., and above at Madison.

Table 2 shows an excess in the total radiation received on a horizontal surface at Washington, and a deficiency at Madison and Lincoln.

Measurements of the percentage of skylight polarization made on seven days at Washington give a mean of 50 per cent, with a maximum of 56 per cent on the 10th. These are below the corresponding averages for October at Washington. At Madison, measurements made on six days give a mean of 69 per cent, with a maximum of 77 per cent on the 5th. These are above the corresponding averages for October at Madison.

TABLE 1.—Solar radiation intensities during October, 1928  
[Gram-calories per minute per square centimeter of normal surface]  
Washington, D. C.

Date	Sun's zenith distance										Local mean solar time	
	8 a. m.	73.7°	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.					
	e.	5.0	4.0	3.0	2.0	1.0	2.0	3.0	4.0	5.0	e.	
Oct. 1	7.57			0.73							7.57	
Oct. 3	9.14				1.00	1.31					10.97	
Oct. 6	9.14		0.95	1.10	1.26	1.50	1.20	1.12	1.01	0.92	7.04	
Oct. 8	6.02			0.68	0.96	1.10	0.99	0.75	0.63	0.55	7.57	
Oct. 10	9.83	0.78		1.00	1.18	1.33	1.15	0.90	0.77		7.57	
Oct. 11	9.47	0.66	0.78	0.91	1.14		1.16	1.00	0.86	0.72	9.14	
Oct. 12	10.21	0.74	0.86	1.00	1.18	1.34	1.22	0.99			13.13	
Oct. 13	10.97				1.08						10.97	
Oct. 20	5.79	0.60	0.76	0.91	1.12						5.36	
Oct. 24	5.56	0.47	0.60	0.79	1.02						5.56	
Oct. 25	5.36	0.72	0.77	0.95	1.19						4.17	
Oct. 26	5.16	0.74	0.86	0.94	1.14						4.17	
Means		0.67	0.80	0.90	1.12	1.33	1.16	0.95	0.82	0.73		
Departures		-0.09	-0.04	-0.04	+0.01	-0.09	+0.05	+0.02	+0.02	+0.03		

<sup>1</sup> Extrapolated.