BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

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:

Brückner, Eduard.
Klimaschwankungen 1813 bis 1912 in Vorderindien. Stuttgart. 1918. p. 212–256. (Sonderdruck. Bibliothek geographischer Handbücher. Festband Albrecht Penck.)

Eckersley, T. L.
Observations of solar radiation. Cairo. [1914] p. 114–126. 27½ cm. (Survey dept., Egypt. Helwan observ. Bull. no. 14.)

Gorczyński, Władysław.
Niektóre wiadomości o pradach atmosferycznych oraz o ich zwiazku z klimatami na kuli ziemskiej. (Wedug W. Köppena, A. Hettnera, R. Süringa, H. Hildebranssona, i Teisserenc de Borta.) Warsaw. 1919. 46 p. 25 cm.

Nowe izotermy Polski, Europy, i kuli ziemskiej, z dodatkiem o charakterze klimatycznym Polski. (Nouvelles isothermes de la Pologne, de l'Europe et du globe terrestre.) Warsaw. 1918. 286 p. 37 figs. 48 charts. 30 cm. [Text in Polish; résumé in French.] [Abstract in this REVIEW, p. 411.]

O Ciśnieniu Powietrza w Polsce i w Europie. (Pression Atmosphérique en Pologne et en Europe.) Warsaw, 1917. 265 p. 14 figs. 54 charts. 30 cm. [Text in Polish; résumé in French.] [Abstract in this REVIEW, p. 412.]

O wyznaczaniu stopnia kontynentalizmu wedug amplitud temperatury. (Méthode de calculer le degré du continentalisme en fonction de la température.) Warsaw. 1918. p. 500–547. 25 cm. (Extrait des Comptes rendus de la Société des sciences de Varsovie. 1918. XI Année. Fasc. 4.) [Text in Polish; résumé in French.]

O zmianach okresowych w ciągu doby i o obserwacyach dugoletnicc ciśnienia powietrza w Polsce. (Variation diurne de la pression atmosphérique et quelques longues séries d'observations barométriques en Pologne.) Warsaw. 1916. p. 365–403. 25 cm. (Comptes rendus de la Société des sciences de Varsovie. 1916. IX Année. Fasc. 4.) [Text in Polish; résumé in French.]

Knoche, Walter.
"Valor de desecación" como factor climatológico. Santiago de Chile. 1919. 91 p. 26½ cm. (Trabajo publicado en los nos. 34 y 35 de la Revista Chilena de historia y geografia.)

Lloyd, Francis E.
Environmental changes and their effect upon boll-shedding in cotton. New York. 1920. 131 p. 25 cm. (Annals of the New York academy of sciences, vol. 29.)

Moreux, Abbé Th.
Comment prévoir le temps. Paris. 1919. 269 p. 21½ cm.

Pogorzelski, Witold.
O teoryi pradow prostoliniowych w atmosferze. (Théorie des courants rectilignes dans atmosphère.) Warsaw. 1917. p. 282–322. 25 cm. (Extrait des Comptes rendus de la Société des sciences de Varsovie. 1917. X Année. Fasc. 3.) [Text in Polish; résumé in French.]

Rondeleux, M.
Cyclones. Théorie succincte, prévision et manoeuvre préventive d'après les trauvaux météorologiques récents. Manuel à l'usage des navigateurs. Paris. 1916. 80 p. 25 cm. (Extrait des *Annales hydrographiques, 1916.*)

Shaw, H. Knox.
Solar radiation during 1914. Cairo. 1915. p. 149–167. 27½ cm. (Ministry of public works, Egypt. Physical service. Helwan observatory. Bull. no. 17.)

Somigliana, C., & Vercelli, F.
Previsione matematica della temperatura nei grandi trafori alpini. Torino. 1912. p. 327–377. 33 cm. (Estr. dalle Memorie della R. Accademia delle scienze di Torino, serie 2, tom. 63.)

U. S. Air service.
Meteorology and aeronautics. Washington. 1920. 8 p. 28 cm. (Air service information circular, v. 1, no. 77.) [Abstract in later REVIEW.]

Zi-ka-wei observatory.
Atlas of the tracks of 620 typhoons 1893–1918, by Louis Froc, S. J., Director, Zi-ka-wei observatory. Zi-ka-wei (Chang-hai). 1920. 4 p. 23 charts. 31 cm.

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. F. TALMAN, Professor in Charge of Library.

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 on the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Great Britain. Meteorological office. Monthly meteorological charts of the North Atlantic ocean. London. August, 1920.
Durst, C. S. The upper air and its relation to wind at the surface of the globe.

Meteorological magazine. London. v. 55. July, 1920.
Dines, W[illiam] H[enry]. The tilting rain gauge: a new autographic instrument. p. 112–113.
Locke, A. S. Temperature and "scent" [in hunting]. p. 117. [Dogs can follow a scent easily when the ground is warmer than the air, but only with difficulty when the ground is colder.]

Nature. London. v. 105. July 22, 1920.
Van Everdingen, E. Aerial navigation and meteorology. p. 637–638. [Criticizes Annexe G. of the Convention for the regulation of aerial navigation.]
Hobbs, Wm. H. The mechanics of the glacial anticyclone illustrated by experiment. p. 644–645. [A cooled dome in streakily colored water, or under a small source of smoke in air.]

Royal astronomical society. Monthly notices. London. v. 79. April, 1919.
Turner, H. H. On the fifteen-month periodicity in earthquake phenomena. p. 461–466.

Royal meteorological society. Quarterly journal. v. 46. July, 1920.
Douglas, C. K. M. Clouds as seen from an aeroplane. p. 233–242. [Abstract in later REVIEW.]
Description of the night sky recorder, recently brought into use at the Royal observatory, Greenwich. p. 243–244.
Silvester, N. L. Local weather conditions at Mullion, Cornwall. p. 245–270.
Clark, J. Edmund. The Surrey hailstorm of July 16, 1918. p. 271–288.
Brooks, C. E. P. Distribution of relative humidity over Nigeria. p. 289–292. [Abstract in later REVIEW.]
Richardson, L. F. Sun-flash balloons for continuous signalling. p. 293–294.
Rambaut, A. A. Meteorological work at the Radcliffe observatory, Oxford, 1919. p. 311–312.
Mr. T. W. Backhouse, F. R. A. S. p. 312–313. [Obituary.]
Ward, Robert De C[ourcy]. Mr. Maxwell Hall, M. A., F. R. A. S. [Obituary.] p. 313–314.

Scientific American. New York. v. 123. Aug. 21, 1920.
Whiting, Wendell M. Record weather. Excessive precipitation, temperature extremes, high winds, blizzards, hurricanes, and tornadoes. p. 190–191.

Archives des sciences physiques et naturelles. Genève. 123 année. Mai juin, 1920.
Gruner, P[aul]. La formation de rayons dans la lumière pourprée. p. 247–248.
Borel, Ch[arles], & Jaquerod, A. Sur un constituant inconnu de l'air atmosphérique. p. 265. [Laboratory experiments to determine whether an unknown light gas exists in the atmosphere. Results negative.]

France. Académie des sciences. Comptes rendus. Paris. Tome 171. 12 juillet 1920.
Żeil, G. Sur la constante proportionnelle reliant la fréquence sismique à la fréquence des chutes pluviales. p. 117–119. [Abstract in June REVIEW, p. 356.]

Nature. Paris. 48 année. 17 juillet 1920.

Weiss, E. L'utilisation du vent comme force motrice. p. 39–43.

Meteorologische Zeitschrift. Braunschweig. Band 37. 1920.

Schmidt, Wilhelm. Über den täglichen Temperaturgang in den unteren Luftschichten. p. 49–59. (März/April.)

Pinkhof, M. Gockel, A.: Beiträge zur Halotheorie. p. 60–67. (März/April).

Nowotny, Friedrich. Meteorologische Betrachtungen anlässlich der Explosionskatastrophe in Kiew am 6. Juni 1918. (März/April.) Abstract in later REVIEW.

Schreiber, Paul. Zur polytropen Atmosphäre. p. 73–77. (März/April.)

Emden, R[obert]. Bemerkungen zu den Aufsatze von Fr. Linke über: Die Grundgleichungen der polytropen Atmosphären. (März/April.)

Dorno, C. Über den optischen Reinheitsgrad der Erdatmosphäre im Jahre 1919 und im Januar/Februar 1920. p. 79–82. (März/-April.)

Hann, J[ulius] v. W. v. Kesslitz, Die Meteorologie von Pola. p. 85–87. (März/April.)

Maurer, J[ulius]. Einige Resultate des Sonnenschein-Chronographen, verglichen mit dem Glaskugel-Heliographen. p. 88–89. (März/April.)

Sassenfeld, Max. Aus 25 jährigen Aufzeichnungen der Sonnenscheindauer in Hohenheim und Stuttgart. p. 89–91. (März/-April.)

Galbas, P. A. Vorläufige Mitteilung über Sichtbeobachtungen am Taunus-Observatorium. p. 91–92. (März/April.)

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Rosenthal, Elmar. Bemerkungen zu den Szintillationsbeobachtungen auf dem Sonnwendstein. p. 92–94. (März/April.)

Hann, J[ulius] v. Die aufsteigenden Bergwinde. p. 96–97. (März/April.)

Köppen, W[ladimir]. Die natürlichen Steinringe und Steinnetze der kalten Zone. p. 98–100. (März/April.)

Schmidt, Wilhelm. Über Ableitungen der ablenkenden Kraft der Erddrehung. p. 100–101. (März/April.)

Köppen, W[ladimir]. L. Satke, über den Zusammenhang der Temperatur aufeinander folgender Monate und Jahreszeiten. p. 102. (März/April.)

Range, Paul. Die tägliche Wärmeschwankung an der Oberfläche des Bodens im heissen ariden Klima. p. 102–104. (März/April.)

Exner, Felix M. Über die Polarisation des Lichtes in der Landschaft. p. 113–116. (Mai.)

Gockel, A. Über den Unterschied der Polarisation des Himmelslichtes in der Ebene und im Gebirge. p. 116–119. (Mai.)

Schreiber, Paul. Zur Wärmeleitung in der Atmosphäre. p. 119–126. (Mai.)

Dietzius, Robert. Die Beziehung zwischen dem Winde in der Höhe und dem bevorstehenden Niederschlage. p. 126–130. (Mai.) [Abstract in later REVIEW.]

Peppler, W[ilhelm]. Die Windverhältnisse der freien Atmosphäre. p. 135. (Mai.)

Schneider, Karl. Die Inversion an der Basis von Stratus mammatus. p. 137–139.