

GLACIER RESEARCH COMMITTEE. The Glacier Physics Sub-Committee which has been under consideration for some time is now in process of being formed. Dr. M. F. Perutz of the Cavendish Laboratory, Cambridge, is the Honorary Secretary. The names of its members will be announced shortly. Its function will be to carry on the researches into the physics of glacier ice started by the Jungfrauoch Research Party in 1938. It is hoped to train one or two young physicists for this work.

Contributions for the next issue of the *Journal of Glaciology* should be sent to the Assistant Secretary, British Glaciological Society, c/o Royal Geographical Society, Kensington Gore, London, S.W.7.

## GLACIOLOGICAL LITERATURE

IT has been found impossible at this stage to compile a complete bibliography for the period immediately preceding the war to date, and additions to the following list will be made in due course. It contains for the most part reference to non-polar works. Attention is drawn to the bibliographies in the *Polar Record* which deal mainly with polar literature. Readers will greatly assist the Editors by notifying them of their own, or any other, publication of glaciological interest.

Copies of papers marked \* are available for distribution. There are also a few copies of each of about a dozen of the papers written by the late R. M. Deeley between the years 1888 and 1918, dealing mainly with Glacier Flow and the Viscosity of Glacier Ice. These have considerable historic interest.

All the above will be sent free to members on application to the Secretary.

- AHLMANN, H. W. SON, Researches on Snow and Ice, 1918-40. *Geog. Journ.*, Vol. 108, Nos. 1, 2, 1946, pp. 11-28. [A more comprehensive account will appear in the new "Geographical Research Series" of the Royal Geographical Society.]
- ARENBERG, D. L. Microscopic Study of Rime. *Bull. Am. Met. Soc.*, Vol. 23, 1942, pp. 276-80.
- BAGNOLD, R. A. *The Physics of Blown Sand and Desert Dunes*. London: Methuen, 1941, pp. xiii + 265. [A full exposition of the mechanics of drifting sand with many references to drifting snow.]
- BENFIELD, A. E. Terrestrial Heat Flow in Great Britain. *Proc. Roy. Soc.*, Vol. 173, No. 955, Ser. A, 1939, pp. 428-50. [Refers briefly to the effect of past glaciation on rock temperatures.]
- \*BONACINA, L. C. W. Drift Problems suggested by severe Snowstorms in the British Isles with special reference to the permanent Scottish Snowbeds. Trans. Int. Com. Snow and Glaciers, Edinburgh, Sept. 1936. *Bull. Int. Ass. Hyd.* 23, Riga 1938, pp. 91-110.
- BROOKS, C. E. P. Climatic Changes. *Met. Mag.*, Vol. 74, No. 879, 1939, pp. 65-71.
- BROOKS, C. F. Example of Arctic control of our seasonal weather and uses of the metric system in meteorology. *Blue Hill Notes*, No. 2, 1939.
- BUSH, RAYMOND. *Frost and the Fruitgrower*. London: Cassell and Co. Ltd., 1945, pp. vii + 119, 10s. 6d. [Although primarily written for fruitgrowers, this book contains much of general interest in connection with the practical problems of frost control.]
- COOLING, L. F. and WARD, W. H. *Damage to Cold Stores by Frost-Heaving*. [A paper published in pamphlet form by the Institute of Refrigeration and read before the Institution of Mechanical Engineers, London, 1944.]
- \*DEBENHAM, F. Friction on Sledge Runners, *Polar Record*, Vol. 4, No. 25, 1943, pp. 7-11.
- DEMENTIEV, A. I. and TUMEL, V. F. Civil Engineering in Frozen Soil, U.S.S.R. *Canadian Geographical Journal*, Vol. 32, No. 1, 1946, pp. 32-33. [Notes on the work of the Obruchev Institute for the Study of Permanently Frozen Soil.]
- DEMAREST, M. Glacier Flow. *Journ. Geol.*, Vol. 156, 1938, pp. 700-25.
- DEMAREST, M. Ice Sheets. *Bull. Geol. Soc. Am.*, Vol. 54, 1943, pp. 363-400.
- DEVIK, OLAF. Ice formation on lakes and rivers. *Geog. Journ.*, Vol. 103, 1944, pp. 193-202.

- DEVIK, OLAF. Supercooling and ice formation in open waters (Ice Studies. I.), *Geophysiske Publikasjoner*, Vol. 13, No. 8, 1942, pp. 1-10. [Measurements in still and running water. with description of instruments used.]
- DOBSON, G. M. B. Bakerian Lecture, Meteorology of the Lower Stratosphere. *Proc. Roy. Soc.*, Vol. 185, No. 1001, 1946, pp. 144-75. [Instruments devised and methods used for determining the amounts of water vapour, ozone and carbon-dioxide in the upper atmosphere. Vitreous ice was found at very low temperatures.]
- DRYGALSKI, E. von. Eisbildungen und Eisklima. *Geol. Jahresberichte* (Munich), Vol. I, 1938, pp. 268-282.
- DRYGALSKI, E. von. Die Bewegung von Gletschern und Inlandeis. *Mitteilungen der Geographischen Gesellschaft* (Vienna), Vol. 81, 1938, pp. 273-283.
- DRYGALSKI, E. von and MACHATSCHKEK, F. *Gletscherkunde. (Enzyklopädie der Erdkunde)*. Vienna: Deuticke, 1942, 250 pp. [A good summary of recent work on glaciers with an extensive bibliography. Reviewed by M. F. Perutz in *Nature*, Vol. 158, No. 4007, 1946, pp. 218-19.]
- EVE, A. S. and CREASEY, C. H. *Life and Work of John Tyndall*. London: Macmillan, 1945. [Includes a summary of Tyndall's work on glaciers.]
- FIRSOFF, V. A. *Ski Track on the Battlefield*. New York: A. S. Barnes & Co., 1943, 153 pp. \$2.00. London: Lindsay Drummond Ltd. n.d. 1944, pp. x+156. 12s. 6d. [History of military skiing and winter warfare, with chapters on winter equipment, organization and training.]
- FLINT, RICHARD FOSTER and DORSEY, HERBERT G. (Jr.). Glaciation of Siberia. *Bull. Geol. Soc. Am.*, Vol. 56, 1945, pp. 89-106. [Summary of knowledge of Pleistocene ice sheets in northern Asia.]
- GOULD, L. Glacial Geology of the Pacific Antarctic. *Proc. Sixth Pacific Science Congress*, 1939, Berkeley and Los Angeles, Vol. 2, 1940, pp. 723-40.
- HAEFELI, R. Beobachtungen im Firngebiet des Grossen Aletsch Gletschers. *Schw. Naturf. Ges.* 1944, pp. 99-101. [Glacier movement less in summer than in winter.]
- HOLL, A. Polare Eiswärmewirtschaft. *Les Alpes*, Vol. 15, 1939, pp. 15-26.
- HOLMES, A. *Principles of Physical Geology*. London: Nelson, 1944. [Contains a good summary of glaciers and glaciation.]
- \*HUGHES, T. P. and SELIGMAN, G. The temperature, melt water movement and density increase in the névé of an Alpine Glacier. *Mon. Not. Roy. Astr. Soc. Geophys. Suppl.*, Vol. 4, No. 8. 1939, pp. 616-47. [Publication No. 2 of the Jungfrauoch Research Party, 1938.]
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- LOEWE, F. The amount of rime and snowdrift as factors in the mass balance of glaciers. *Bull. Int. Ass. Hydr.*, Vol. 23, Riga 1938, pp. 415-20.
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