GLACIOLOGICAL LITERATURE

This is a selected list of glaciological literature on the scientific study of snow and ice and of their effects on the earth; for the literature on polar expeditions, and also on the "applied" aspects of glaciology, such as snow ploughs, readers should consult the bibliographies in each issue of the Polar Record. For Russian material the system of transliteration used is that agreed by the U.S. Board on Geographic Names and the Permanent Committee on Geographical Names for British Official Use in 1947. Readers can greatly assist by sending reprints of their publications to the Society, or by informing Dr. J. W. Glen of publications of glaciological interest. It should be noted that the Society does not necessarily hold copies of the items in this list, and also that the Society does not possess facilities for microfilming or photocopying.

GENERAL GLACIOLOGY


DRALEKIN, A. G. Nekotoryye togi rabot sovetsovykh antarkticheskoy ekspeditsii [Some results of the work of the seventh Soviet Antarctic expedition]. Problemy Arkтики i Antarktiki [Problems of the Arctic and Antarctic], Vyp. 46, 1964, p. 35-40. [Summary of scientific results, 1961-63.]


SHIH YA-FENG. Wu nien lai te Chung-kuo ping-ch'uan-hsi, tung-t'u-hsihe yu kan-han ch'u-shui-wen yen-chiu [Chinese research on glaciology, permafrost and arid land hydrography during the past five years]. Kexue Tongbao (K'o-hsiieh T'ung-pao) [Science], 1964, No. 3, p. 218-25. [Summary of work done principally in relation to water resources. English translation: Dept. of Commerce, Office of Technical Services, Washington, D.C. [PR5:25846, 10 June 1964.]


GLACIOLOGICAL INSTRUMENTS AND METHODS

ANDERSEN, B. G. Deuterium variations related to snow pit stratigraphy in the Thiel Mountains, Antarctica. Polarforschung, Bd. 5, Jg. 33, H. 1-2, 1963 [pub. 1964], p. 200-01. [The summer snow has a considerably higher deuterium content than winter snow.]


CHAILLOU, A., and VALLON, M. Etude de la zone corticale des glaciers temperes par prospection electrique, avec un potentiometre d'impedance d'entree infinie. Annales de Géophysique, Tom. 20, No. 2, 1964, p. 201-05. [Electrical examination of the upper layers of a glacier is limited, but the method has considerable applications in spite of this.]


LORUS, C. L'interprétation des isotopes dans l'étude glaciologique des calottes polaires. TAAF (Terre des Terres Australes et Antarctiques Françaises), No. 25, 1963, p. 2-16. (Expèditions Polaires Françaises (Missions Paul-Émile Victor), Publication No. 253. [Age of some ice caps estimated by isotopes corresponds with age determined stratigraphically, but not in every case; further research is necessary.]

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OSTREM, G. A method of measuring water discharge in turbulent streams. Geographical Bulletin (Ottawa), No. 21, 1964, p. 21-43. [Injection of brine into the river and downstream measurements of changes of electrical conductivity as the salt wave passes; includes a list of the field equipment needed.]


PHYSICS OF ICE


HOBBs, P. V., and MASON, B. J. The sintering and adhesion of ice. Philosophical Magazine, Eighth Ser., Vol. 9, No. 98, 1964, p. 181-97. [Experiments on small ice spheres in contact and theoretical interpretation.]


LAND ICE. GLACIERS. ICE SHELVES

But, I. V. O sootvetstvii mezhdu obshchey tirkulyatsiye atmosferi i sovremenennym raspredeleniyem lednikov v severnom polusharii [The correlation between the general circulation of the atmosphere and the present distribution of glaciers in the Northern Hemisphere]. Informatsionnyy Sbornik po Mezhdunarodny Geofizicheskiy God [Collected Information on Work in the International Geophysical Year], No. 9, 1962, p. 10-39. [Suggests classification of glaciers based on atmospheric circulation.]


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GLACIAL GEOLOGY

BIRKELAND, P. W. Pleistocene glaciation of the northern Sierra Nevada, north of Lake Tahoe, California. *Journal of Geology*, Vol. 72, No. 6, 1964, p. 610-25. [Four major glaciations are recognized in this area, two of Wisconsin age and two of Wisconsin age.]


Jones, O. T. The glacial and post-glacial history of the lower Teifi valley. *Proceedings of the Geological Society of London*, No. 1617 (session 1963-64), 1964, p. 97-100. [Because the coastline of Cardigan Bay was under ice, an enormous volume of melt water from the ice surface made its way into the Teifi Valley and caused rapid erosion of the gorges there.]

Mayr, F. Untersuchungen über Umsatt und Folgen der Klima- und Gletscherschwankungen seit dem Beginn der postglazialen Wärmeezeit. *Zeitschrift für Geomorphologie, Neue Folge*, Bd. 8, Ht. 3, 1964, p. 257-85. [In the Stubai mountains stratigraphical evidence was found for the existence of 5 post-allotriothermal periods of glacier advance.]


PENNY, L. F. A review of the last glaciation in Great Britain. *Proceedings of the Yorkshire Geological Society*, Vol. 34, Pt. 4, No. 20, 1964, p. 387-411. [Comparison with Würm moraines on the Continent; the Highland readvance; the Perth–Aberdeen readvance and Scottish readvance; and the "newer drift maximum."]

PRICE, R. J. Land forms produced by the wastage of the Casement Glacier, southeast Alaska. *Institute of Polar Studies, Ohio State University. Report No. 9*, 1964, p. 24. [Description of processes producing melt-water channels and eskers.]


Suggate, R. P. New Zealand Quaternary chronology. *Revue de Géomorphologie Dynamique*, An. 146, Nos. 10-11-12, 1963, p. 153-59. [The Quaternary sequence conformably follows the Pliocene with Ross, Porika, Wainauanga, and Otira glaciations. The whole length of the Quaternary was probably as much as 5 million years.]

Undar, I. When were the heads of the Hardangfjord and the Sognfjord ice-free? *Norsk Geografisk Tidsskrift*, Bd. 19, Ht. 5-6, 1963-64, [pub.] 1964, p. 291-95. [The great terrace Moen at Ovre Årdal was deposited in the Boreal-Atlanticum transition and the first part of Atlanticum. Laerdal was ice-free before Ovre Årdal.]

Varjo, U. Über finnische Küsten und ihre Entstehung (unter besonderer Berücksichtigung der Bildungen ihrer trockenen Zone). *Fennia*, 91, No. 2; *Publicationes Instituti Geographici Universitatis Oulunensis*, No. 3, 1964, 104 p. [Includes section on the influence of ice, active and passive, on the development of the coast-line.]


Wright, H. E. The classification of the Wisconsin glacial stage. *Journal of Geology*, Vol. 72, No. 5, 1964, p. 628-37. [Proposal to consider the 9,000-year retreat of ice from its Wisconsin maximum under four glacial phases: Tazewell, Cary, Port Huron (Mankato) and Valders.]


**Frost action on rocks and soil. Frozen ground. Permafrost**


Cook, F. A. Periglacial research in Canada, 1954-1963; a selected bibliography. *Biuletyn Peryglacialny (Lódź)*, Nr. 14, 1964, p. 31-49. [122 works listed with brief comments.]


Dylik, J. Éléments essentiels de la notion de "pérglaciaire". Réponse à l'enquête. *Biuletyn Peryglacialny (Lódź)*, Nr. 14, 1964, p. 111-32. [Response to an enquiry on the use of the term "periglacial".]


Hamelin, L.-É. La famille du mot "pérglaciaire". *Biuletyn Peryglacialny (Lódź)*, Nr. 14, 1964, p. 133-52. [Account of what is meant by terms involving "periglacial".]

Hamelin, L.-É. Le pérglaciaire du massif Jueaneau en Alaska. *Biuletyn Peryglacialny (Lódź)*, Nr. 13, 1964, p. 5-14. [Description of the periglacial conditions of the mountains near Jueaneau and comparison with those further north.]


Mariné, G. Le pergéliaire des environs du Mans (Sarthe, France). *Biuletyn Peryglacialny (Lódź)*, Nr. 13, 1964, p. 53-98. [The district of Le Mans has evidence of periglacial phenomena of Quaternary age. Polish summary.]


PISAST, A. Vitesse des mouvements du sol au Chambeyron (Basses Alpes). *Biuletyn Peryglacjalny* (London), Nr. 14, 1964, p. 303-09. [The size of the pebbles and blocks and existence of patterned ground influence the speed of movement under periglacial conditions.]


SEKYRA, J. Cryo-geological phenomena in the north Pamir (central Trans-Alai). *Biuletyn Peryglacjalny* (London), Nr. 14, 1964, p. 511-19. [Results of the investigations carried out at the close of the summer season, 1961.]


WASHBURN, A. L., and WASYLIKOWA, K. Roslinnosc i klimat poznego glacjalu w srod kowi Polsce na podstawie bada !l w Witowi kolo. *Biuletyn Peryglacjalny* (London), Nr. 14, 1964, p. 337-49. [Fossil polygons and stripes notable for their large size and for the striking rendering by present vegetation. Origins are discussed. They cannot be matched with any present Arctic patterns.]


GLACIOLOGICAL LITERATURE

Snow


BRODER, H. CORNFORD, S. G. Fall speeds of precipitation elements. [sic]


Konček, M., and Briedon, V. Snéh a snéhová pokryvka na Slovensku [Snow and snow cover in Slovakia]. Vydavateľstvo Slovenskej Akadémie Vied (Bratislava), 1964, 71 p. [Summary of data for 1921-51. German and Russian summaries.]

Lacy, R. E. Some measurements of snow density. Weather, Vol. 19, No. 11, 1964, p. 353-56. [In southern England it appears that snow settles to the same density as in the Alps.]


ERRATA (Vol. 5, No. 39)

p. 308

In Table I, at point A1 the second value of \( b_2 \) in the \( e_{45} \) column should read

\[
b_2 = +0.353, \text{ not } +0.357.
\]

p. 309

In Table II the following corrections should be made in the values for the average strain-rates at the points A1 and A2:

\[
\begin{align*}
\varepsilon_{xy} &= +0.021, \text{ not } 0.041; \\
\varepsilon_1 &= -0.26, \text{ not } -0.22; \\
\varepsilon_3 &= -0.05, \text{ not } -0.09.
\end{align*}
\]