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.

CONFERENCES


GENERAL GLACIOLOGY

CHANG CHUNG-YING, Hua-hsing ti hsia ping-hai [A subtropical glacier on Mars]. K'o-hsien Ts'ung [Popular Science], 1963, No. 9, p. 29. [Suggests ice layer with maximum thickness 2 km. covering Mars.]


GRAVES, T. A., and others. Promerzanive zemnnoy poverkhnosti i oledenniy Khrebet Suntar-Khayata (vostochnaya Yakutiyia) [Freezing of the earth's surface and glaciation of Khrebet Suntar-Khayata (eastern Yakutiyia)]. [By 8 authors.] Rezultaty Issledovanii po Programme Mezhdunarodnogo Geofizicheskogo Coda. Glyatsiologiya. IX Razdel Programmy MGG [Results of Investigations in the Programme of the International Geophysical Year. Glaciology. IX Section of Programme for the I.G.Y.], No. 14, 1964, 143 p. [Permafrost and glaciological results of I.G.Y. expedition to this area.]


THEAKSTONE, W. H. Recent studies in the Svaltisen area. Norsk Geografisk Tidsskrift, Bd. 19, Ht. 7-8, 1963-64, [pub. 1965], p. 318-34. [Summary of geomorphological and glaciological researches in this area between 1956 and 1963.]

GLACIOLOGICAL INSTRUMENTS AND METHODS


WILLIAMS, G. P. Use of a thermopile to measure the supercooling of water. Canada. National Research Council. Division of Building Research. Building Research Note No. 49, 1965, 6 p. [The thermopile has one side coated with a non-ice-nucleating material, the other side is uncoated. In supercooled water ice will grow on the uncoated side only.]

PHYSICS OF ICE


BURLEY, G. Ice nucleation by photolyzed silver iodide. Philosophical Magazine, Eighth Ser., Vol. 10, No. 105, 1965, p. 527-34. [Change of shape of ice crystals with time for which silver iodide has been exposed to light.]


DE MIENCE, S. M., de, and IRIBARNE, J. V. La solubilité des electrolytes dans la glace. Journal de Chimie physique et de Physico-chimie biologique, Tom. 60, No. 6, 1963, p. 767-74. [Experimental study of extent to which various electrolytes freeze into ice.]


Hallett, J. Experimental studies of the crystallization of supercooled water. *Journal of the Atmospheric Sciences*, Vol. 21, No. 6, 1964, p. 671–82. [Detailed study of number and orientation of grains formed when supercooled water freezes under various conditions. Also includes measurement of growth rates.]


Kobayashi, T. The growth of ice crystals on cove dite and lead iodide surfaces. *Contributions from the Institute of Low Temperature Science (Sapporo)*, Ser. A, No. 20, 1963, p. 1–22. [Growth was studied photomicrographically under low supersaturations and at substrate temperatures to —42°C. Thermoelectric elements were successfully adapted for cooling the substrates.]


Magone, C., and Shiotzuki, Y. On the effect of air bubbles in ice on frictional charge separation. *Journal of the Atmospheric Sciences*, Vol. 21, No. 6, 1964, p. 666–70. [Rod of bubbly ice becomes negatively charged when rubbed on less bubbly rod.]


LAND ICE. GLACIERS. ICE SHELVES


BRYAN, R. Observations on snow accumulation patterns at Adelaide Island. *British Antarctic Survey Bulletin*, No. 6, 1965, p. 51-62. [An ice piedmont of about 1,400 km² on the west coast. Rime deposits play a large part in its regime which is now at last thought to be positive.]


MACKAY, J. R. Glacier flow and analogue simulation. *Geographical Bulletin* (Ottawa), Vol. 7, No. 1, 1965, p. 1-6. [Results obtained by the use of an analogue field plotter suggest that this economy of ice sheets.]

MILLER, M. M. Alaskan glacier variations and the implications of recent tectonic activity. *Science in Alaska*, 1964. *Proceedings, fiftteenth Alaska Science Conference, College, Alaska, Aug. 31-Sepl. 4, 1964*, 1965, p. 90. [61% of the major Alaskan glaciers are shrinking, 33% are in equilibrium, and 6% are advancing.]

PAC'EV, N. N. Bol'shealmatinskiye ledniki Khreibet Zailisiskiy Alatau za 37 let nabliudeniya [The Bol'shealmatinskiye glaciers of Khreibet Zailisiskiy Alatau over 37 years of observation]. *Gfyatsiologiya Shernikh* [Geographical Papers], 17, 1964, p. 94-101.


**ICEBERGS, SEA, RIVER AND LAKE ICE**


Entz, B. Tanumlyanok a Balaton Jegének megismeréséhez [Research studies on the ice of Lake Balaton]. Víziügy Közlönyek, No. 2, 1964, p. 269-83. [Results of 16 years of detailed study.]


Gudovich, Z. M. K. izucheniyu dreyly "ledyanogo ostrova" "T-3" v 1952-54 gg. [Study of the drift of "ice island" "T-3" in 1952-54.]

Problem Artiiki i Antarktiki [Problems of the Arctic and Antarctic], Vyp. 17, 1964, p. 30-35. [Analysis of course of drift.]


Kořtev, A. P. Al'bedo snezhno-ledyanogo pokrova morya [Albedo of the snow-ice cover of the sea.] Problem Artiiki i Antarktiki [Problems of the Arctic and Antarctic], Vyp. 15, 1964, p. 25-36. [Values obtained for different snow-ice mixtures at different latitudes.]


Pečchanskii, I. S. Ledovedieniya i ledatekhnikha [Ice science and ice technique]. Leningrad, Izdatel'stvo "Morskoy Transport" [Publishing House "Morskoy Transport"], 1963, 345 p. [Book on ice, its properties, uses of ice cover and methods of ice breaking and destruction.]

Frost action on rocks and soil. Frozen ground. Permafrost

Bardin, V. I. Nekotorye dannyye o kharaktere periglatsial'nykh yavlennykh na Zemle Koreley Mod (Vostochnaya Antarktida) [Some data on the character of periglacial phenomena in Dronning Maud Land (East Antarctica)]. (In A. I. Popov, ed. Problemy paleogeografii i morfogenезa v polarnykh stranakh i tsykozor'e [Problems of paleogeography and morphogenesis in polar regions and high mountains]. Moscow, Izdatel'stvo Moskovskogo Universiteta, Geograficheskii Fakultet [Publishing House of Moscow University, Geography Faculty], 1964, p. 175-81.) [Field study with geographical location.]

Chambers, M. J. G. Unusual patterned ground on Deception Island, South Shetland Islands. British Antarctic Survey Bulletin, No. 5, 1965, p. 15-19. [Description and tentative explanations. There is still uncertainty as to the mechanisms of the formation and preservation of patterned ground.]


Henke, J.-H. Uber eine interessante Froststruktur im episodisch-solifluidal bewegten Boden während der Würmeiszeit. Eisezitater und Gegenwart, Bd. 15, 1965, p. 221-23. [Frost-kettle in the eastern part of the town of Biefeld reaching about 3 m. into green and red marl, which had been moved during the Würm glaciation.]


Meteorological and climatological glaciology


Snow


Ishida, T. Acoustic properties of snow. Contributions from the Institute of Low Temperature Science (Sapporo), Ser. A, No. 20, 1965, p. 23-63. [The specific acoustic impedance of snow layers backed with rigid walls was measured by an acoustic tube method.]


DUPLICATE PAPERS

A list of duplicate papers in the Library of the Society, available for distribution to members, can be obtained from Dr. G. Seligman, Little Dane, Biddenden, Ashford, Kent, England.