

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

- HANSEN, J. E., and CHEYNEY, H. Near infrared reflectivity of Venus and ice clouds. *Journal of the Atmospheric Sciences*, Vol. 25, No. 4, 1968, p. 629-33. [Observations compatible with optically thin clouds of ice particles while not conclusively proving this.]
- WRIGHT, H. E., jr., and OSBURN, W. H., ed. *Arctic and alpine environments*. Washington, D.C., [U.S.] National Academy of Sciences and National Research Council, 1968. 308 p. [Includes the following papers: L. A. Viereck, "Botanical dating of recent glacial activity in western North America", p. 189-204; P. Clement and J. Vaudour, "Observations on the pH of melting snow in the southern French Alps", p. 205-13; J. M. Soons, "Erosion by needle ice in the Southern Alps, New Zealand", p. 217-27; E. Schenk "Fundamental processes of freezing and thawing in relation to the development of permafrost", p. 229-36; E. M. Katasonov, "Features of deposits formed under permafrost conditions", p. 237-40; D. L. Linton, "Divide elimination by glacial erosion", p. 241-48; T. Pippan, "Tectonic and lithologic control on trough and cirque features in Caledonian, Hercynian, and Alpine mountains of Europe", p. 249-54; F. Taillefer, "Extent of Pleistocene glaciation in the Pyrenees", p. 255-66; I. P. Gerasimov and R. P. Zimina, "Recent natural landscapes and ancient glaciation of the Pamir", p. 267-69; D. S. Simonett and S. A. Morain, "Remote sensing from spacecraft as a tool for investigating Arctic environments", p. 295-306.]

GLACIOLOGICAL INSTRUMENTS AND METHODS

- PAL'GOV, N. N. K voprosu o metode balansov po opredeleniyu moshchnosti gornyykh lednikov [Use of the balances method for determining the thickness of mountain glaciers]. *Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva*, Tom 99, Vyp. 2, 1967, p. 142-44. [Further explanation of author's method, which uses geometrical means to produce approximate values.]
- UEDA, H. T., and HANSEN, B. L. Installation of deep-core drilling equipment at Byrd station (1966-1967). *Antarctic Journal of the United States*, Vol. 2, No. 4, 1967, p. 120-21. [Details of equipment which bored 227 m into the ice.]

PHYSICS OF ICE

- ANDERSON, D. M. Undercooling, the freezing point depression, and ice nucleation of soil water. *Israel Journal of Chemistry*, Vol. 6, No. 3, 1968, p. 349-55. [Experimental results and discussion of nature of heterogeneous nucleation of ice near silicate surfaces in light of knowledge of water-like surface layer.]
- BARNAAL, D. E., and LOWE, I. J. Proton spin-lattice relaxation in hexagonal ice. *Journal of Chemical Physics*, Vol. 48, No. 10, 1968, p. 4614-18. [Measurement of relaxation time and its activation energy (59.0 ± 0.4 kJ/mole) which does not agree with that for dielectric relaxation.]
- BERG, T. G. O., and others. Conversion of water vapor to ice by silver iodide, by T. G. O. Berg, J. E. Clutter, T. A. Gaukler, R. L. McDonald. *Journal of the Atmospheric Sciences*, Vol. 25, No. 3, 1968, p. 464-69. [Experiments showing that water vapour first condenses and then freezes.]
- BEUKEL, A. VAN DEN. Specific heat of ice near the "ferroelectric" transition temperature. *Physica Status Solidi*, Vol. 28, No. 2, 1968, p. 565-68. [Two peaks observed in specific heat of HF-doped ice at 104°K and 132°K.]
- BURGMAN, J. O., and others. Proton dynamics in water and ice studied by inelastic scattering of slow neutrons. [by] J. O. Burgman and J. Sciesinski and K. Sköld. *Physical Review*, Second Ser., Vol. 170, No. 3, 1968, p. 808-17. [Spectra of water and ice are significantly different.]
- DANTL, G., and GREGORA, I. Dichte in hexagonalem Eis. *Naturwissenschaften*, Bd. 55, Ht. 4, 1968, p. 176. [Measurements to 5-figure accuracy. Newly frozen ice is denser than aged ice.]
- DERYAGIN, B. V. Effect of lyophile surfaces on the properties of boundary liquid films. *Discussions of the Faraday Society*, No. 42, 1966 [c1967], p. 109-19, 134-42. [Study of properties of water in boundary layers on quartz and glass show anomalies which are interpreted as showing that the usual state of water is metastable and that the stable state is denser. It does not freeze to ordinary ice. Discussion, p. 134-42.]
- GILRA, N. K., and DASS, N. Precrystallization theory applied to surface free energy of the water-ice interface. *Journal of the Physical Society of Japan*, Vol. 24, No. 4, 1968, p. 910-12. [To obtain agreement with data on refractive index, density and viscosity of supercooled water a new set of data for surface free energy of the solid-liquid interface is needed.]
- GROMOVA, T. N., and others. Vliyaniye primesey poverkhnostno-aktivnykh veshchestv na l'doobtazuyushchuyu effektivnost' rastvorov floriglyutsina, iodistogo serebra i iodistogo svintsa [Effect of adding surface-active substances to phloroglucinol, AgI and PbI₂ solutions on their ice-forming ability]. [By] T. N. Gromova, N. V. Gliki and P. N. Krasikov. *Trudy Glavnoy Geofizicheskoy Observatorii im. A. I. Voyeykova* (Leningrad), Vyp. 186, 1966, p. 18-25. [Adding these substances lowers freezing temperature by several degrees.]

- HARDY, S. C., and CORIELL, S. R. Morphological stability of a growing cylindrical crystal of ice. *Journal of Applied Physics*, Vol. 39, No. 7, 1968, p. 3505-07. [Experimental study of growth of ice cylinder with axis parallel to *c*-axis at low supercooling, and of radius at which cylindrical shape is unstable.]
- HOLZAPFEL, W., and DRICKAMER, H. G. Effect of pressure on the volume of the high-pressure (VII) phase of H₂O and D₂O. *Journal of Chemical Physics*, Vol. 48, No. 10, 1968, p. 4798-800. [Measurement of X-ray lattice parameters up to 50 kbar.]
- ITAGAKI, K. Electric field effect on creeping ice single crystals. *Bulletin of the American Physical Society*, Ser. 2, Vol. 13, No. 3, 1968, p. 367. [Abstract only. Bending creep of pure and HF-doped ice single crystals increased by about 10 to 20% when electric field of 600 V/cm r.m.s. at 60 Hz is applied.]
- JINDAL, B. K., and TILLER, W. A. On electrostatic potentials at the ice/water interface. *Surface Science*, Vol. 9, No. 2, 1968, p. 137-44. [Theory of formation of surface potential difference and comparison with experiment.]
- KACHURIN, L. G., and GASHIN, L. I. O plotnosti i struktura l'da, rastushchego v potoke pereokhlazhdenogo aerozolya [On the density and structure of ice developing in a stream of supercooled aerosol]. *Izvestiya Akademii Nauk SSSR. Fizika Atmosfery i Okeana*, Tom 4, No. 1, 1968, p. 93-96. [Theory of formation of layered structure in hail. English translation in *Izvestiya. Academy of Sciences, U.S.S.R. Atmospheric and Oceanic Physics*, Vol. 4, No. 1, 1968, p. 49-51.]
- KACHURIN, L. G., and others. Eksperimental'noye issledovaniye elektrokineticheskogo yavleniya, voznikayushchego pri kristallizatsii slabykh vodnykh rastvorov [Experimental study of electrokinetic phenomena appearing during the crystallization of aqueous solutions]. [By] L. G. Kachurin, V. I. Bekryayev [and] V. F. Psalomshchikov. *Doklady Akademii Nauk SSSR*, Tom 174, No. 5, 1967, p. 1122-25. [Study of potential difference between ice and water and dependence on freezing velocity and pH.]
- KAMB, W. B. Ice polymorphism and the structure of water. (In Rich, A., and Davidson, N., ed. *Structural chemistry and molecular biology*. San Francisco and London, W. H. Freeman and Co., [1968], p. 507-42.) [Discussion of structure of water in the light of our knowledge of ice polymorphs.]
- KELL, G. S., and WHALLEY, E. Equilibrium line between ice I and III. *Journal of Chemical Physics*, Vol. 48, No. 5, 1968, p. 2359-61. [New studies show boundary to be nearly straight, thus removing evidence for an order-disorder transition.]
- KHODZHAYEV, O. F., and others. Opticheskoye pogloshcheniye neytral'nogo kristallicheskogo l'da, γ -obluchennogo pri -196° [Absorption spectrum of neutral crystalline ice gamma irradiated at -196°]. [By] O. F. Khodzhayev, B. G. Yershov [and] A. K. Pikayev. *Izvestiya Akademii Nauk SSSR. Seriya Khimiya*, 1968, No. 2, p. 246-49.
- MAE, S. Void formation during non-basal glide in ice single crystals under tension. *Philosophical Magazine*, Eighth Ser., Vol. 18, No. 151, 1968, p. 101-14. [Observation of void formation on crystals pulled perpendicular to *c*-axis. Explanation in terms of dislocation climb.]
- MERLIVAT, L., and NIEF, G. Fractionnement isotopique lors des changements d'état solide-vapeur et liquide-vapeur de l'eau à des températures inférieures à 0°C. *Tellus*, Vol. 19, No. 1, 1967, p. 122-27. [Measurement of fractionation of HDO relative to H₂O when ice or supercooled water evaporates. English and Russian summaries.]
- MORGAN, G. M., jr., and ALLEE, P. A. The production of potential ice nuclei by gasoline engines. *Journal of Applied Meteorology*, Vol. 7, No. 2, 1968, p. 241-46. [Study of ice nuclei production when iodine is added to exhaust fumes from leaded automobile fuel.]
- NOZIK, A. J., and KAPLAN, M. Kinetics of the cubic-to-hexagonal phase transformation in ice doped with Mössbauer ions. *Chemical Physics Letters*, Vol. 1, No. 9, 1967, p. 391-95. [Study of mechanism of transformation and activation energy. Dissolved ions decrease rate of transformation.]
- ODENCRANTZ, F. K., and others. Mechanism for multiplication of atmospheric ice crystals: apparent charge distribution on laboratory crystals, by F. K. Odencrantz, W. S. McEwan, P. St. Amand, W. G. Finnegan. *Science*, Vol. 160, No. 3834, 1968, p. 1345-46. [Replicas of ice crystals give evidence for existence of very fine whiskers and clustering caused by charge separation.]
- PRASK, H., and others. Frequency spectrum of hydrogenous molecular solids by inelastic neutron scattering: hexagonal H₂O ice, [by] H. Prask and H. Boutin and S. Yip. *Journal of Chemical Physics*, Vol. 48, No. 8, 1968, p. 3367-76. [Measurements reported and used to deduce frequency distribution of thermal vibrations in ice.]
- RADD, F. J., and OERTLE, D. H. Melting point behaviour of glacier ice. *Nature*, Vol. 218, No. 5148, 1968, p. 1242. [Letter. Discusses melting point of ice when melt water is unconfined. Observations of movement of clay particles through ice.]
- SALOMON, G. The friction and adhesion of ice. *Wear*, Vol. 11, No. 1, 1968, p. 1-2. [Editorial article commenting on importance of results reported by H. H. Schulz and A. Knappworst, *ibid.*, p. 3-20, and discussing physical implications.]
- SCHAEFER, V. J. The generation of large numbers of ice crystals in an electric field. *Journal of Applied Meteorology*, Vol. 7, No. 3, 1968, p. 452-55. [Observation of streamers of tiny ice crystals formed near wire with high d.c. charge.]
- SCHULZ, H. H., and KNAPPWORST, A. Die Festkörperreibung des Eises als Relaxationseffekt. *Wear* Vol. 11, No. 1, 1968, p. 3-20. [Friction of ice on stainless steel studied from -170°C to 0°C . Results show variations of coefficient of friction that are anomalous. Discussion of this in terms of mechanical relaxation of ice. English summary.]
- SHILOH, K., and SIDEMAN, S. Direct contact heat transfer with change of phase: evaporation rates in vacuum freezers. *Canadian Journal of Chemical Engineering*, Vol. 45, No. 5, 1967, p. 300-05. [Factors affecting rate of evaporation from salt-water-ice slurries.]
- STEVENSON, D. P. Molecular species in liquid water. (In Rich, A., and Davidson, N., ed. *Structural chemistry and molecular biology*. San Francisco and London, W. H. Freeman and Co., [1968], p. 490-506.) [Discussion of molecular processes involved in melting of ice.]

- VAN HOOK, W. A. Vapor pressures of the isotopic waters and ices. *Journal of Physical Chemistry*, Vol. 72, No. 4, 1968, p. 1234-44. [Theory of isotope effect on vapour pressure.]
- WHALLEY, E., and others. Ice IX: an anti-ferroelectric phase related to ice III, by E. Whalley, J. B. R. Heath and D. W. Davidson. *Journal of Chemical Physics*, Vol. 48, No. 5, 1968, p. 2362-70. [Dielectric measurements show decrease in permittivity attributable to ordering of hydrogen atoms.]
- YEN, Y.-C. Onset of convection in a layer of water formed by melting ice from below. *Physics of Fluids*, Vol. 11, No. 6, 1968, p. 1263-70. [Experimental study to determine conditions for onset of convection.]
- YOUNG, I. G., and SALOMON, R. E. Dielectric behavior of ice with HCl impurity. *Journal of Chemical Physics*, Vol. 48, No. 4, 1968, p. 1635-44. [Results of measuring frequency and temperature dependence of conductivity, permittivity and relaxation time show that HCl dissolves substitutionally in ice at low concentrations.]
- ZIMBRICK, J., and KEVAN, L. Paramagnetic relaxation of trapped hydrogen atoms in irradiated frozen aqueous solutions. *Journal of Chemical Physics*, Vol. 47, No. 12, 1967, p. 5000-08. [Study of relaxation time, line width and line shape and interpretation in terms of trapping of hydrogen atoms at defect sites.]

LAND ICE. GLACIERS. ICE SHELVES

- BARKOV, N. I. Stroyeniye snezhno-firnovoy tolshchi v rayone stantsii Lazarev [Structure of the snow and firn cover in the neighbourhood of "Lazarev" station]. *Trudy Sovetskoy Antarkticheskoy Ekspeditsii*, Tom 48, 1967, p. 145-51. [Pit studies down to 35 m.]
- BARNETT, D. M. Development, landforms and chronology of Generator Lake, Baffin Island, N.W.T. *Geographical Bulletin* (Ottawa), Vol. 9, No. 3, 1967, p. 169-88. [Study of past developments of this ice-dammed lake.]
- BAUER, A. Le glacier de l'Eqe (Egip Sermia). Mouvement et variations du front (1959). *Meddelelser om Grønland*, Bd. 174, Nr. 2, 1968, 21 p. [Accurate measurements of the glacier front and deduction of advance and retreat since 1912. English abstract.]
- BAUER, A., and others. Missions aériennes de reconnaissance au Groenland 1957-1958. Observations aériennes et terrestres, exploitation des photographies aériennes, détermination des vitesses des glaciers vélant dans Disko Bugt et Umanak Fjord par A. Bauer avec la collaboration de M. Baussart, M. Carboneil, P. Kasser, P. Perroud et A. Renaud. *Meddelelser om Grønland*, Bd. 173, Nr. 3, 1968, 116 p., 20 plates, 8 maps. [Detailed account of work done by aerial reconnaissance to prepare for main expedition. Includes velocity measurements on 20 glaciers. English summary.]
- BAUER, A., and others. Mouvement et variation d'altitude de la zone d'ablation ouest (latitude moyenne 69° 40' N) de l'indlandsis du Groenland entre 1948 et 1959, par A. Bauer avec la collaboration de W. Ambach et O. Schimpp. *Meddelelser om Grønland*, Bd. 174, Nr. 1, 1968, 79 p. [Account of work in ablation zone of Greenland ice sheet. Details of methods used to determine movements and altitudes. English summary.]
- BEHRENDT, J. C. Gravity increase at the South Pole. *Science*, Vol. 155, No. 3765, 1967, p. 1015-17. [Time variation of gravity and possible glaciological interpretation.]
- BOKANENKO, L. I., and AVSYUK, YU. N. Rezul'taty seismogravimetricheskikh issledovaniy na zemle Korolevy Mod [Results of seismic-gravity investigations in Dronning Maud Land]. *Trudy Sovetskoy Antarkticheskoy Ekspeditsii*, Tom 48, 1967, p. 105-27. [Study of internal structure of ice as determined seismically.]
- BORTENSCHLAGER, S. Pollenanalytische Ergebnisse einer firnprofiluntersuchung am Kesselwandferner (3240 m, Ötztal, Tirol). *Grana Palynologica*, Vol. 7, No. 1, 1967, p. 259-74. [Pollen analysis used to identify ablation surfaces. Appendix by W. Ambach and H. Eisner on glaciological interpretation.]
- BURROWS, C. J., and LUCAS, J. Variations in two New Zealand glaciers during the past 800 years. *Nature*, Vol. 216, No. 5114, 1967, p. 467-68. [Lichenometric measurements.]
- CARBONNELL, M., and BAUER, A. Exploitation des couvertures photographiques aériennes répétées du front des glaciers vélant dans Disko Bugt et Umanak Fjord, juin-juillet 1964. I. Nouvelles mesures photogrammétriques de la vitesse superficielle des glaciers du Groenland par M. Carboneil. II. Accélération de l'écoulement des glaciers groenlandais vers leur front et détermination de leur débit solide par A. Bauer. *Meddelelser om Grønland*, Bd. 173, Nr. 5, 1968, 78 p. [Repeated aerial photographs of calving glaciers used to deduce ice velocities and discharge. English summary.]
- CHIZHOV, O. P. Byudzhet massy lednikov na ostrovakh severo-vostochnoy Atlantiki po issledovaniyam v period MGG [Mass budget of glaciers on the north-eastern Atlantic islands according to the I.G.Y. studies]. *Geofizicheskii Byulleten'*, No. 19, 1968, p. 24-33. [Analysis of long-term records of snow accumulation with mass budget data in Svalbard, Zemlya Frantsa-Iosifa, Novaya Zemlya and Severnaya Zemlya.]
- CHIZHOV, O. P., and others. Oledneniye Novoy Zemli [Glaciation of Novaya Zemlya]. [By] O. P. Chizhov, V. S. Koryakin, I. V. Davidovich, Z. M. Kanevskiy, Ye. M. Zinger, V. Ya. Bazheva, A. B. Bazhev, I. F. Khmelevskoy. *Rezul'taty Issledovaniy po Programme Mezhunarodnogo Geofizicheskogo Goda. IX Razdel Programmy MGG*, No. 18, 1968, 339 p. [Description of glaciers of Novaya Zemlya as studied by the 1957-59 I.G.Y. expedition. Includes climate, heat budget, accumulation and ablation, ice movement, mass budget and geological history of glaciation. Comparison with neighbouring glacierized regions. English summary.]
- DEWART, G. Anvers Island gravity survey, 1967. *Antarctic Journal of the United States*, Vol. 2, No. 4, 1967, p. 118. [Preliminary data indicate ice thickness > 500 m.]
- DOROFYEV, I. G. O graficheskoy opredelenii moshchnosti dolinnykh lednikov i o vgryzanii nizhney chasti etikh lednikov v svoje lozhe [On the graphical determination of the thickness of the ice of valley glaciers and on deepening by erosion of the bed]. *Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva*, Tom 99, Vyp. 2, 1967, p. 144-46. [Determination of ice thickness by extrapolation of the valley profile below the glacier; comparison with seismic depths, and discussion of errors caused by erosion.]
- GALL, H. Gletschermarken in Lasistan. *Die Alpen*, 44. Jahrg., 2. Quartal, 1968, p. 94-97. [Brief description with photographs of glaciers in this region of Turkey where marks for measurement of glacier variations were set up.]

- [GLACIERS: CANADA.] Hydrology of the Lewis Glacier, north-central Baffin Island, N.W.T., and a discussion of reliability of the measurements. *Geographical Bulletin* (Ottawa), Vol. 9, No. 3, 1967, p. 232-61. [Mass balance and water balance of this distributary glacier of Barnes Ice Cap.]
- GOVORUKHA, L. S. Voprosy glyatsiologicheskoy izuchennosti sovetskoy Arktiki i osnovnyye osobennosti rezhima yeye oledneniya [Questions of the glaciological study of the Soviet Arctic and the main characteristics of the regime of its glacierization]. *Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva*, Tom 100, Vyp. 1, 1968, p. 27-37.
- GOW, A. J. Electrolytic conductivity of snow and glacier ice from Antarctica and Greenland. *Journal of Geophysical Research*, Vol. 73, No. 12, 1968, p. 3643-49. [Measurements of conductivity of melt water of samples from pits and bore holes.]
- HAASE, E. Gedanken zu Schneegrenzbestimmungsmethoden aufgrund neuer Schneegrenzbestimmungen im Südschwarzwald. *Berichte der Naturforschenden Gesellschaft zu Freiburg im Breisgau*, Bd. 56, Ht. 1, 1966, p. 17-22. [Attempt to define a small-regional snow line for the entire glacier system of the Haslach valley.]
- HAEFELI, R., and BRANDENBERGER, F. Rheologisch-glaziologische Untersuchungen im Firngebiet des grönländischen Inlandeises. *Meddelelser om Grønland*, Bd. 177, Nr. 1, 1968, 340 p. [Results of deformation measurements on ice from Greenland ice sheet and of measurements on the flow of the ice sheet itself. One section (on strain quadrilaterals) by P. Gfeller. English summary.]
- HAMILTON, W. L. A change in the size-distribution of dust falling in the Polar regions over the past fourteen centuries. *Polarforschung*, Bd. 6, Jahrg. 36, Ht. 1-2, 1966 [pub. 1968], p. 107-12. [Analysis of samples from Greenland and Antarctic ice and snow. Discussion of possible explanations of variations.]
- HAMILTON, W. L., and LANGWAY, C. C., jr. A correlation of microparticle concentrations with oxygen isotope ration in 700-year old Greenland ice. *Earth and Planetary Science Letters*, Vol. 3, No. 4, 1968, p. 363-66. [Comparison of two measurements on 1.29 m of core from 300 m. depth gives accumulation rate of 36 cm ice year⁻¹.]
- HENOCH, W. E., and STANLEY, A., comp. *Glacier map of northern British Columbia and southeastern Alaska*. Ottawa, Glaciology Section, Inland Waters Branch, Department of Energy, Mines and Resources, 1967. [Map to scale of 1 : 1 000 000 showing distribution of glaciers and location of meteorological and hydrological stations. Copies obtainable from Map Distribution Office, Department of Energy, Mines and Resources, Ottawa, Ontario, Canada.]
- HENOCH, W. E., and STANLEY, A., comp. *Glacier map of Yukon Territory and District of Mackenzie*. Ottawa, Glaciology Section, Inland Waters Branch, Department of Energy, Mines and Resources, 1967. [Map to scale 1 : 1 000 000 showing distribution of glaciers and location of meteorological and hydrological stations. Copies obtainable from Map Distribution Office, Department of Energy, Mines and Resources, Ottawa, Ontario, Canada.]
- HOINKES, H. C., and WENDLER, G. Der Anteil der Strahlung an der Ablation von Hintereis- und Kesselwandferner (Ötztaler Alpen, Tirol) im Sommer 1958. *Archiv für Meteorologie, Geophysik und Bioklimatologie*, Ser. B, Bd. 16, Ht. 2-3, 1968, p. 195-236. [Calculation of contribution of net radiation to ablation on these two Austrian glaciers confirms that this is most important source of energy as deduced previously for single points. English summary.]
- KAPITSA, A. P. *Podlednyy rel'yef Antarktidi* [Sub-glacial relief of Antarctica]. Moscow, Izdatel'stvo "Nauka", 1968. 100 p. (Rezultaty Issledovaniy po Mezhdunarodnym Geofizicheskim Proyektam.) [Analysis of all available data to produce map of sub-glacial relief. Discussion of ice flow, tectonic structure, evidence of uplift and of process of deglaciation. English abstract.]
- KOERNER, R. M., and KANE, H. S. Glaciological studies at Plateau station. *Antarctic Journal of the United States*, Vol. 2, No. 4, 1967, p. 122-23. [Pit stratigraphy giving mean annual accumulation.]
- KONOVALOV, V. G. Izucheniye ablyatsii lednikov Sredney Azii [Study of the ablation of glaciers in Central Asia]. *Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva*, Tom 100, Vyp. 4, 1968, p. 308-20. [Survey of work on ablation and its causes.]
- KOTLYAKOV, V. M. Osobennosti akkumulyatsii na lednikakh v anomal'no snezhnyye zimy po issledovaniyam na El'bruse [Characteristics of the accumulation on glaciers during abnormally snowy winters based on investigations in the El'brus]. *Trudy Zakavkazskogo Nauchno-Issledovatel'skogo Gidrometeorologicheskogo Instituta* (Tiflis), Vyp. 20, 1966, p. 57-64. [Study of snow accumulation in exceptionally snowy conditions when settling has to be allowed for throughout the entire snow depth.]
- KRUCHININ, YU. A., and SIMONOV, I. M. Izucheniye lednikovoy tektoniki i morfologii lednikov v rayone stantsii Novolazarevskoy (Antarktida) [Study of glacier tectonics and glacial morphology in the "Novolazarevskaya" region (Antarctica)]. *Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva*, Tom 100, Vyp. 3, 1968, p. 212-22. [Study of glacier surface features and their origin in this area.]
- LAMBERT, G., and others. Datation d'une carotte de névé de la bordure de l'Antarctique par la mesure de la radioactivité naturelle et artificielle, [par] G. Lambert, C. Lorius et B. Ardouin. *Earth and Planetary Science Letters*, Vol. 3, No. 5, 1968, p. 429-33. [Use of radioactive fallout layer to identify 1955 horizon and determine accumulation since. English summary.]
- LORIUS, C., and others. Densité de la glace et étude des gaz en profondeur dans un glacier antarctique, [par] C. Lorius, D. Raynaud et L. Dolle. *Tellus*, Vol. 20, No. 3, 1968, p. 449-60. [Studies of density, air content, air pressure and constitution in 100 cm core from Terre Adélie.]
- LORIUS, C., and others. Teneurs en deutérium le long d'un profil de 106 m dans le névé antarctique. Application à l'étude des variations climatiques, [par] C. Lorius et R. Hagemann, G. Nief et E. Roth. *Earth and Planetary Science Letters*, Vol. 4, No. 3, 1968, p. 237-44. [Deuterium content of cores used to infer recent temperature fluctuations and origin of ice. English summary.]
- MAKSIMOV, YE. V. O sushchestvovanii svyazi mezhdru stadiyami oledneniya i proyavleniyami seismichnosti [On the relation between stages of glaciation and earthquakes]. *Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva*,

- Tom 100, Vyp. 1, 1968, p. 15-26. [Correction in recent centuries between periods of seismic activity and glacier activity.]
- ØSTREM, G., and PYTTE, R. Glasiologiske undersøkelser i Norge 1967. *Rapport fra Hydrologisk Avdeling*, 1968, Nr. 4, 131 p., maps. [Report on year's work on mass balance, sediment transport, glacier mapping, surveying and movement studies, and discharge prediction from glacier streams. English summary, p. 117-28.]
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