

GLACIOLOGICAL LITERATURE

THIS bi-annual list of glaciological literature aims to cover the *scientific* aspects of snow and ice in all parts of the world. Attention is drawn to the bibliographies in each number of the *Polar Record* (Cambridge), which aim to cover the significant work dealing with expeditions, research, equipment and conditions of living in the Polar regions. Both journals, however, deal with Polar literature having specific glaciological interest and with general matters of a practical nature such as snowcraft.

Readers will greatly assist the Editor by notifying him of their own, or any other, publication of glaciological interest.

- ADLAM, T. NAPIER. *Snow melting. Design, installation and control of systems for melting snow by hot water coils embedded beneath walks, roads, or other areas where snow is an obstruction or hazard.* New York, The Industrial Press, [c 1950]. viii, 224 p.
- AHLMANN, HANS WILSON, and others. Scientific investigations in the Kebnekajse Massif, Swedish Lapland. I-IV. *Geografiska Annaler*, Årg. 33, Ht. 1-2, 1951, p. 90-120; Ht. 3-4, 1951, p. 121-43. [General outline 1946-51; morphology and cartography by H. F. Johanson and E. Woxnerud respectively.]
- ALLISON, J., and others. Late-glacial deposits at Nazeing in the Lea valley, north London. [By] J. Allison, H. Godwin and S. H. Warren. *Philosophical Transactions of the Royal Society*, Series B, Vol. 236, No. 632, 1952, p. 169-240.
- ANGERVO, J. M. Snöundersökningar i Finland. *Teknisk Tidskrift*, Bd. 81, Ht. 34, 1951, p. 747-49. [Snow classification; properties of snow cover in Finland; instruments used.]
- ATWATER, MONTGOMERY M. Avalanche study in the U.S.A. *Appalachia*, Old Series, Vol. 28, No. 4, New Series, Vol. 17, No. 7, Magazine No. 112, 1951, p. 388-92, illus. [Field work of U.S. Forest Service observers.]
- BEHRMANN, WALTER. Die Umgebung Berlins nach morphologischen Formengruppen betrachtet. *Die Erde. Zeitschrift der Gesellschaft für Erdkunde zu Berlin*, 1949/50, Ht. 2, p. 93-122. [Pleistocene glaciation around Berlin.]
- BENNINGHOFF, W. S. Interaction of vegetation and soil frost phenomena. *Arctic*, Vol. 5, No. 1, 1952, p. 34-44. [Alaska.]
- BEST, A. C. Occurrence of high rates of ice accretion on aircraft. *G.B. Meteorological Office. Professional Notes*, Vol. 7, No. 106, 1952, 22 p. (M.O. 524 f.)
- BJERRUM, NIELS. *Structure and properties of ice.* Copenhagen, E. Munksgaard, 1951. 56 p.
- BLACK, R. F. Polygonal patterns and ground conditions from aerial photographs. *Photogrammetric Engineering*, Vol. 18, No. 1, 1952, p. 123-34. [Warns against overgeneralisation in interpreting polygons.]
- BOESCH, HANS. Roches moutonnées - Rundhöcker. *Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich*, Jahrg. 96, Ht. 1, 1951, p. 70-72.
- BROWN, DOUGLAS M. Glaciers advance! *Appalachia*, Old Series, Vol. 29, No. 1, New Series, Vol. 18, No. 7, Magazine No. 114, 1952, p. 41-44. [Alaskan glaciers.]
- BURKALOW, ANASTASIA VAN. Areal measurements in the Antarctic. *Geographical Review*, Vol. 42, No. 1, 1952, p. 146-48. [Estimates of areas in Antarctica.]
- CAILLEUX, ANDRÉ. Premiers enseignements glaciologiques des Expéditions Polaires Françaises, 1948-51. *Revue de Géomorphologie Dynamique*, 3^e An., No. 1, 1952, p. 1-19.
- CHURCH, J. E. Effects of mountains and forests on the conservation of snow. *Explorers Journal*, Vol. 29, No. 4, 1951, p. 32-33.
- COOPER, R. I. B. Variations in the length of the day. *Nature*, Vol. 167, No. 4243, 1951, p. 297-98. [Refers to seasonal variations of polar ice.]
- CORNELIUS, HANS PETER. Das Gletschereis als kristallinischer Schiefer. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 10-13. [Recrystallisation, etc.]
- CREGAR, MARY-REBECCA, and MELLONCAMP, WILDE R. The meteorology of avalanches. *Weatherwise* (Philadelphia), Vol. 3, No. 1, 1950, p. 3-6, 14; No. 2, 1950, p. 35-37, 46.
- DÉSORGES, R. Le déneigement des routes en montagne. *Revue de Géographie Alpine*, Tom. 40, Fasc. 2, 1952, p. 299-305. [Snow clearance.]
- DÜCKER, ALFRED. Ein Untersuchungsverfahren zur Bestimmung der Mächtigkeit des diluvialen Inlandeises. *Mitteilungen aus dem Geologischen Staatsinstitut in Hamburg*, Ht. 20, 1951, p. 3-14. [Method of calculating Pleistocene ice thickness.]
- EBERS, EDITH. Die Mindel-Riss-interglaziale Landoberfläche am Westrand des Salzachvorlandgletschers. *Eiszeitalter und Gegenwart*, Bd. 2, 1952, p. 93-96. [Inter-glacial land surface.]
- EUGSTER, H. P. Beitrag zu einer Gefügeanalyse des Schnees. *Beiträge zur Geologie der Schweiz. Geotechnische Serie. Hydrologie*, Lief. 5, 1952, 64 p. [Snow structure.]
- FIELD, WILLIAM O., jr., and HEUSSER, CALVIN J. Glaciers-historians of climate. *Geographical Review*, Vol. 42, No. 3, 1952, p. 337-45. [Juneau Ice Field Research Project; photographs, with brief running commentary.]
- FISHER, JOEL E. Dirt band project. *American Alpine Journal*, Vol. 8, No. 1, 1951, p. 118-23. [Report on glacier band investigations in the Alps.]
- FINSTERWALDER, R. Zur Geschichte der Gepatschferner-Vermessung. *Jahrbuch des Österreichischen Alpenvereins*. Bd. 76, 1951, p. 9-16. [History of the glacier measurements.]
- FINSTERWALDER, R. Zur Bestimmung der Schneegrenze und ihrer Hebung seit 1920. *Sitzungsberichte der Bayerischen Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Klasse*, No. 6, 1952, p. 51-54. [Raising of the snow line since 1920.]
- FLINT, R. F. Pleistocene stratigraphy of eastern South Dakota. *Bulletin of the Geological Society of America*, Vol. 61, 1950, p. 1460-61.
- FLINT, R. F. Climatic implications of glacier research. *Compendium of Meteorology*. Boston, Mass., American Meteorological Society, 1951, p. 1019-23.
- FRASER, J. KEITH. Canadian ice distribution survey. *Arctic Circular*, Vol. 5, No. 5, 1952, p. 56. [Sea ice.]
- FROMME, GEORG. Alte Gletscherstände und Schutthaldenbildung im Hochgebirge. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 113-17. [Glacial geomorphological investigations in Karwendel mountains.]
- FUCHS, V. E. Exploration in British Antarctica. *Geographical Journal*, Vol. 117, Pt. 4, 1951, p. 399-421. [Journeys in south Graham Land 1948-50.]
- GAMS, H. Variations des limites de la végétation alpine et variations des glaciers. *La Terre et la Vie*, An. 96, No. 5, 1949, p. 178-90, maps.
- GERRARD, J. A. F., and others. Measurement of the velocity distribution along a vertical line through a glacier. [By] J. A. F. Gerrard, M. F. Perutz, and A. Roch. *Proceedings of the Royal Society*, Series A, Vol. 213, 1952, p. 546-58. [Flow not Newtonian.]
- GOODEVE, SIR C. The ice ship fiasco. *Discovery*, Vol. 12, No. 7, 1951, p. 206-07. [Project "Habbakuk."]

- GROSS, HUGO. Die Radiokarbon-Methode, ihre Ergebnisse und Bedeutung für die spätquartäre Geologie, Paläontologie und Vorgeschichte. *Eiszeitalter und Gegenwart*, Bd. 2, 1952, p. 68-92. [C 14 investigation, results and significance.]
- GROVE, AT. R., and SPARKS, P. W. Le déplacement des galets par le vent sur la glace. *Revue de Géomorphologie Dynamique*, 3^e An., No. 1, 1952, p. 37-39. [Pebble movement on ice; wind tunnel observations.]
- HAMILTON, R. A. The British North Greenland Expedition, 1952-4. *Weather*, Vol. 7, No. 8, 1952, p. 250-51.
- HAMMEN, T. VAN DER. Dating and correlation of periglacial deposits in middle and western Europe. *Geologie en Mijnbouw*, N.S., 14c Jaarg., No. 9, 1952, p. 328-36.
- HARLAND, W. BRIAN. The Cambridge Spitsbergen expedition, 1949. *Geographical Journal*, Vol. 118, Part 3, 1952, p. 309-31. [Includes notes on soil polygons, glacier survey, and retreat of Nordenskiöldbreen.]
- HARRISON, A. E. Are our glaciers advancing? *Sierra Club Bulletin*, Vol. 36, No. 5, 1951, p. 78-81. [Glaciers of Sierra Nevada, U.S.A.]
- HEINSHEIMER, GEORG J. Die Eispenitentes des Glacier Derecho in der Cordillera von San Juan (Argentinien). *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 14-24. [Nieve penitente.]
- HIGASHI, AKIRA. Thermal conductivity of frozen soil. *Journal of the Faculty of Science, Hokkaidō University*, Series 2 (Physics), Vol. 4, No. 2, 1952, p. 95-106.
- HIGGINS, R. G. A radar survey of the ice barrier. *Journal of the Institute of Navigation*, Vol. 5, No. 2, 1952, p. 195-97, map. [Chart of seaward edge of pack ice off Dronning Maud Land, January 1952, based on two surveys made by *Norsel*.]
- HOFMANN, WALTHER. Gletscherrückgang und Alpinismus. *Mitteilungen des Deutschen Alpenvereins*, Jahrg. 3, Ht. 2, 1951, p. 19-25. [The effect of glacier retreat on climbing.]
- HOLDAR, CARL-GUSTAV. Flygfotografier som hjälpmedel vid glacial-geografiska undersökningar. *Globen* (Stockholm), Årg. 31, Ht. 2, 1952, p. 17-24. [Aerial photography as an aid for glaciological research.]
- HOLZER, H. Ein Beitrag zur Frage nach der Herkunft des Löss. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 80-90. [Origin of loess; examination of its grains.]
- HOPPE, GUNNAR. Några exempel på glacialfluvial dränering från det inre Norrbotten. *Geografiska Annaler*, Årg. 32, Ht. 1-2, 1950, p. 37-59. [Glaciofluvial drainage in interior of Norrbotten, north Sweden.]
- HOPPE, GUNNAR. Drumlins i nordöstra Norrbotten. *Geografiska Annaler*, Årg. 33, Ht. 3-4, 1951, p. 157-65.
- HORBERG, LELAND. Pleistocene drift sheets in the Lethbridge region, Alberta, Canada. *Journal of Geology*, Vol. 60, No. 4, 1952, p. 303-30. [Tentative correlation with Iowan and Tazewell or Cary substages of the Wisconsin glacial stage.]
- IVES, RONALD L. Modern glaciers of the Arapaho Massif. *Scientific Monthly*, Vol. 73, No. 1, 1951, p. 25-36.
- JAMES, A. V. G. Ice Ages in Australia. *Walkabout. Australian Geographical Magazine*, Vol. 18, No. 2, 1952, p. 10-15.
- JENNESS, JOHN L. Erosive forces in the physiography of western Arctic Canada. *Geographical Review*, Vol. 42, No. 2, 1952, p. 238-52. [Ice seems to play a relatively small part.]
- KELLER, GERHARD. Beitrag zur Frage Oser und Kames. *Eiszeitalter und Gegenwart*, Bd. 2, 1952, p. 127-32.
- KERÄNEN, J. On frost formation in soil. *Fennia*, 73, No. 1, 1951, 14 p.
- KIMPE, W. F. M. Kryoturbarie verschijnselen in het Mioceen bij Brunssum Zuid-Limburg. *Mededelingen van de Geologische Stichting. Nieuwe Serie*, No. 4, 1950, p. 5-10. [Periglacial soil formations of the Pleistocene near Limburg, Holland.]
- KINZL, HANS. Die Cordillera Blanca (Peru). *Jahrbuch des Österreichischen Alpenvereins*, Bd. 75, 1950, p. 37-48.
- KINZL, HANS. Gletscherschwankungen oder Entgletscherung? *Die Pyramide*, Jahrg. 1, Ht. 1, 1951, p. 8-15. [Fluctuation or deglaciation?]
- KLEBELSBERG, R. VON. Von den Gletschern auf Blatt Gurgl und den Gletschermessungen des Alpenvereins. *Jahrbuch des Österreichischen Alpenvereins*, Bd. 74, 1949, p. 30-36. [Glacier fluctuation.]
- KOENIG, L. S., and others. Arctic ice islands. [By] L. S. Koenig, K. R. Greenaway, Moira Dunbar and G. Hattersley-Smith. *Arctic*, Vol. 5, No. 2, 1952, p. 66-103. [Movement is about 1.2 miles a day; the direction is specified.]
- KRAMES, KARL. Die Korrelation zwischen Temperatur- und Niederschlagsanomalien im Winter der Nordhemisphäre. *Geografiska Annaler*, Årg. 33, Ht. 3-4, 1951, p. 210-29. [Includes section on theories of causes of Pleistocene glaciation.]
- KUMAI, MOTOI. Electron-microscope study of snow-crystal nuclei. *Journal of Meteorology*, Vol. 8, No. 3, 1951, p. 151-56.
- KUROIWA, DAISUKE. Electron-microscope study of fog nuclei. *Journal of Meteorology*, Vol. 8, No. 3, 1951, p. 157-60.
- LAMONT, A. H. Ice conditions over Hudson Bay and related weather phenomena. *Bulletin of the American Meteorological Society*, Vol. 30, No. 8, 1949, p. 288-89.
- LINTON, D. L. Some Scottish river-captures re-examined. ii. The diversion of the Tarf. *Scottish Geographical Magazine*, Vol. 67, No. 1, 1951, p. 31-44. [The Tarf water has been captured by the Tilt whose glen constitutes a true glacial trough.]
- LOUIS, H. Zur Theorie der Gletschererosion in Tälern. *Eiszeitalter und Gegenwart*, Bd. 2, 1952, p. 12-24. [Glacier erosion in valleys.]
- LUNDQVIST, G. En palsmyr sydost om Kebnekajse. *Geologiska Föreningens i Stockholm Förhandlingar*, Bd. 73, Ht. 2, No. 465, 1951, p. 209-25. [Palses (frozen peat hummocks with permanent ice stratification) in Kebnekajse area; includes pollen analysis.]
- LYSGAARD, LEO. Recent climatic fluctuations. *Folia Geographica Danica*, Tom. 5, 1949, [215] p., tables, diags. [Climatic change in the Arctic since 1920, its extent and causes.]
- MALAURIE, JEAN N. La baie de Disko, côte ouest du Groenland: notes de géographie physique et humaine. *Bulletin de l'Association de Géographes Français*, No. 206-07, 1950, p. 12-21. [Geomorphology of Disko Bugt, West Greenland.]
- MANLEY, GORDON. Variations in the mean temperature of Britain since glacial times. *Geologische Rundschau*, Bd. 40, Ht. 1, 1952, p. 125-27.
- MANLEY, GORDON. The weather and diseases: some 18th century contributions to observational meteorology. *Notes and Records. Royal Society of London*, Vol. 9, May 1952, p. 300-07. [Includes notes on frequency of snow in south-east England, 1728-65.]
- MATHEWS, W. H. Ice-dammed lavas from Clinker Mountain, southwestern British Columbia. *American Journal of Science*, Vol. 250, No. 8, 1952, p. 553-65.
- MERCANTON, P.-L., and RENAUD, ANDRÉ. Les variations des glaciers des Alpes suisses, 1951. *Die Alpen*, 28 Jahrg., No. 8, 1952, p. 215-20.
- MILLER, A. AUSTIN. Glacial sections in the Welsh borderland. *Geological Magazine*, Vol. 85, No. 6, 1948, p. 366-67.
- MILLER, M. M. Juneau Ice Field, Alaska, 1948-51. *American Alpine Journal*, Vol. 8, No. 1, 1951, p. 113-18.
- MILLER, M. M. Juneau Icefield Research Project, fifth season, May-September, 1951. *Appalachia*, Old Series, Vol. 29, No. 1, New Series, Vol. 18, No. 7, Magazine No. 114, 1952, p. 120-23.

- MILLER, M. M. Winter Taku. *Appalachia*, Old Series, Vol. 28, No. 4, New Series, Vol. 17, No. 7, Magazine No. 112, 1951, p. 433-37. [Juneau Ice Field Research Project; field work, January-February 1951.]
- MISTARDIS, GASP. Recherches glaciologiques dans les parties supérieures des Monts Oeta et Oxya (Grèce centrale). *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 72-79.
- MITCHELL, J. L. Arctic flights of the *Aries*, 1951. *Polar Record*, Vol. 6, No. 44, 1952, p. 474-83. [Much information on sea-ice observations.]
- MONTGOMERY, MARGARET R. Hudson Bay ice reconnaissance 1949-50. *Arctic Circular*, Vol. 3, No. 4, 1950, p. 40-46.
- MONTGOMERY, MARGARET R. Does the Bay freeze? *Beaver*, Outfit 282, June 1951, p. 12-15. [Annual freezing up, Hudson Bay.]
- MORAWETZ, SIEGHARD. Das Kommen und Gehen der eiszeitlichen Gletscher am Beispiel der Hohen und Niederen Tauern und der Gurktaler Alpen. *Petermanns Geographische Mitteilungen*, Jahrg. 96, 1 Quartalsheft, 1952, p. 21-29. [Advance and retreat of alpine glaciers in Quaternary Ice Age.]
- MORAWETZ, SIEGHARD. Die Vergletscherung der zentralen Ötztaler Alpen zwischen Similaun und Timmeljoch. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 105-11. [Details of glaciers in Ötztal including fluctuations.]
- MOSER, HANS. Die Eishöhle ob Meiringen. *Die Alpen*, 28 Jahrg., No. 4, 1952, p. 92-97. [Ice caves.]
- MUTSCHLECHNER, GEORG. Spuren des Inngletschers im Bereich des Karwendelgebirges. *Jahrbuch der Geologischen Bundesanstalt*, Bd. 93, Ht. 3-4, 1948, p. 155-206. [Traces of the Inn Glacier.]
- NAKAYA, U. The formation of ice crystals. *Compendium of Meteorology*. Boston, Mass., American Meteorological Society, 1951, p. 207-20.
- NUSSBAUM, F., and GYGAX, F. La glaciation quaternaire dans la Cordillère Cantabrique (Espagne du Nord). *Revue Géographique des Pyrénées et du Sud-Ouest*, Tom. 23, Fasc. 1, 1952, p. 36-48.
- NYE, J. F. A method of calculating the thicknesses of the ice-sheets. *Nature*, Vol. 169, No. 4300, 1952, p. 529-30.
- ÖPIK, E. J. Secular changes of stellar structure and the Ice Ages. *Monthly Notices of the Royal Astronomical Society*, Vol. 110, No. 1, 1950, p. 49-68.
- ÖPIK, E. J. The Ice Ages. *Irish Astronomical Journal*, Vol. 2, No. 3, 1952, p. 71-84. [Changes in solar radiation.]
- ORVIG, SVENN. The climate of the ablation period on the Barnes Ice-cap in 1950. *Geografiska Annaler*, Årg. 33, Ht. 3-4, 1951, p. 166-209. [Baffin Island.]
- OVEY, C. D. On the validity and use of planktonic foraminifera in the interpretation of past climatic changes from a study of deep-sea cores. *Geologische Rundschau*, Bd. 49, Ht. 1, 1952, p. 31-33.
- PASCHINGER, HERBERT. Die spätglazialen Gletscher des Gschnitztales. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 35-57.
- PASCHINGER, HERBERT. Nachmessungen am Pasterzenkees (Glocknergruppe) im Jahre 1950. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 139-45.
- PLÖCHINGER, B. Ein Beitrag zur Geologie des Salzkammergutes im Bereich von Strobl am Wolfgangsee bis zum Hang der Zwieselalm. *Jahrbuch der Geologischen Bundesanstalt*, Bd. 93, Ht. 1-2, 1948, p. 1-35. [Includes glacial geomorphology.]
- PRATJE, OTTO. Die Deutung der Steingründe in der Nordsee als Endmoränen. *Deutsche Hydrographische Zeitschrift*, Bd. 4, Ht. 3, 1951, p. 106-14. [Stone accumulations on North Sea bed attributed to terminal moraines of Quaternary glaciation.]
- RATHJENS, CARL. Über die Zweiteilung der Würmeiszeit im nördlichen Alpenvorlande. *Petermanns Geographische Mitteilungen*, Jahrg. 95, 2 Quartalsheft, 1951, p. 89-97. [Arguments in favour of distinguishing two separate stages in the Würm glacial period.]
- REISSINGER, ADOLF. Klimawechsel inmitten einer Glazialzeit. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 120-21. [Climatic change during an Ice Age.]
- RENAUD, ANDRÉ. *Schweizer Gletscher*. Bern, Paul Haupt, 1951. 48 p. (Schweizer Heimatbücher Nr. 30.)
- RICARDSON, W. E. Ablation of snow deposits at Alston, Cumberland. *Meteorological Magazine*, Vol. 81, No. 961, 1952, p. 217-18.
- ROBIN, G. DE Q. Queen Maud Land. The scientific results of the international expedition. *Geographical Magazine*, Vol. 25, No. 6, 1952, p. 283-93.
- ROCH, ANDRÉ. On the study of avalanches. *Sierra Club Bulletin*, Vol. 36, No. 5, 1951, p. 88-93.
- RÖTHLISBERGER, H. Quartärgeologische Beobachtungen am Eglinton Fiord, Baffin-Land, Kanada. *Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich*, Jahrg. 96, Ht. 4, 1951, p. 252-56. [When the inland ice of Baffin Island still flowed into the sea, the glaciation in the mountains was about the same as to-day.]
- ROHRBACH, FRITZ. Seltsame Eisbildungen auf der Lahn. *Natur und Volk*, Bd. 82, Ht. 2, 1952, p. 54-55. [Unusual ice formations.]
- [ROOTS, E. F.] The scientific work of the Norwegian-British-Swedish Expedition. *Geographical Journal*, Vol. 118, Part 2, 1952, p. 230-31. [Includes summary of glaciological work in Dronning Maud Land.]
- RUEGG, WERNER. The glaciation of the southern part of the Cordillera Blanca, Peru. *Geographical Review*, Vol. 40, No. 3, 1950, p. 472-73.
- RUHE, ROBERT V. Reclassification and correlation of the glacial drifts of northwestern Iowa and adjacent areas. *Bulletin of the Geological Society of America*, Vol. 61, 1950, p. 1500-01.
- RUHE, ROBERT V. Classification of the Wisconsin glacial stage. *Journal of Geology*, Vol. 60, No. 4, 1952, p. 398-401.
- RUTTEN, M. G. Polygon soils in Iceland. *Geologie en Mijnbouw*, N.S., 13e Jaarg., No. 5, 1951, p. 161-67.
- SCHATZ, HEINRICH. Nachmessungen im Gebiet des Hintereis- und Vernagtferners in den Jahren 1939 bis 1950. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 135-38.
- SPINK, P. C. Decay of the Kilimanjaro glaciers. *Weather*, Vol. 7, No. 9, 1952, p. 284-85.
- STERS, J. A. The coastline of Scotland. *Geographical Journal*, Vol. 118, Part 2, 1952, p. 180-90. [Geomorphology, including effects of glaciation.]
- STREIFF-BECKER, R. Probleme der Firnschichtung. *Zeitschrift für Gletscherkunde und Glazialgeologie*, Bd. 2, Ht. 1, 1952, p. 1-9. [Firn stratification.]
- SUTER, K. Schnee und Regen in der Algerischen Nordsahara. *Die Erde*, 1951-52, Ht. 1, p. 14-17. [Snow and rain in North Sahara.]
- TAILLEFER, F. Erosion glaciaire ou défonçage périglacière? *Revue Géographique des Pyrénées et du Sud-Ouest*, Tom. 23, Fasc. 1, 1952, p. 53-57.
- TERZAGHI, K. Permafrost. *Journal of the Boston Society of Civil Engineers*, Vol. 39, No. 1, 1952, p. 1-50.
- THOMSON, ANDREW, and BREMNER, P. C. Permafrost drilling and soil-temperature measurements at Resolute, Cornwallis Island, Canada. *Nature*. Vol. 170, No. 4330, 1952, p. 705-06.

- THOMSON, PAUL W. Klimaschwankungen im Tertiär und Quartär. *Eiszeitalter und Gegenwart*, Bd. 2, 1952, p. 105-08. [Climatic change.]
- THORARINSSON, SIGURDUR. Notes on patterned ground in Iceland, with particular reference to the Icelandic "flás". *Geografiska Annaler*, Årg. 33, Ht. 3-4, 1951, p. 144-56. [Polygon markings; "flás" (sub-arctic tundra) are at present rapidly diminishing.]
- TRIBUS, MYRON. Mount Washington and airplane icing research. *Mount Washington Observatory News Bulletin* (Gorham, N. H.), No. 20, 1952, p. 3-5.
- TRICART, J. Paléoclimats quaternaires et morphologie climatique dans le Midi méditerranéen. *Eiszeitalter und Gegenwart*, Bd. 2, 1952, p. 172-88.
- TROLL, CARL. Die Tagung der deutschen Quartärvereinigung in Mainz, September 1951. *Erdkunde*, Bd. 5, Ht. 4, 1951, p. 329-31. [Meeting of the Quartärvereinigung, 1951.]
- TWENHOFEL, WILLIAM S. Recent shore-line changes along the Pacific coast of Alaska. *American Journal of Science*, Vol. 250, No. 7, 1952, p. 523-48. [Uplift of land relative to sea since maximum glaciation.]
- UNDÄS, ISAK. Om morener, israndstadier, marine grenser og jordskorpas stigning ved den seinglasiale Oslofjord. *Universitetet i Bergen Årbok, Naturvitenskapelig Rekke*, 1950, Nr. 1 [pub. 1952], 72 p. [Late glacial marine limits in Oslo Fjord; English summary.]
- WHITE, GEORGE W. Illinoian and Wisconsin drift of the southern part of the Grand River Lobe in eastern Ohio. *Bulletin of the Geological Society of America*, Vol. 62, 1951, p. 967-78.
- WOLDSTEDT, PAUL. Die Entstehung der Seen in den ehemals vergletscherten Gebieten. *Eiszeitalter und Gegenwart*, Bd. 2, 1952, p. 146-53. [Formation of lakes in glaciated districts.]
- WOLDSTEDT, PAUL. Interglaziale Meereshochstände in Nordwest-Europa als Bezugsflächen für tektonische und isostatische Bewegungen. *Eiszeitalter und Gegenwart*, Bd. 2, 1952, p. 5-12. [Interglacial sea "Hochstand" levels as datum lines for tectonic and isostatic movements.]
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- WUNDT, W. Abtragung und Aufschüttung in den Alpen und dem Alpenvorland, während der Jetztzeit und der Eiszeit. *Erdkunde*, Bd. 6, Ht. 1, 1952, p. 40-44. [Erosion and deposition in the upper Danube basin now, and in the Pleistocene glaciation.]
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- Baird, Patrick D. Method of nourishment of an ice cap in Baffin Island, p. 194-202.—Bollo, Mariano Fernandez. Les glaciers quaternaires sur les massifs primitifs de la région galicienne-leonaise en Espagne, p. 347-55.—Clark, Jean M. The investigation of a possible method of cirque erosion, p. 215-21.—Dhir, R. D. The feasibility of snow survey in the Himalayas, p. 305-14.—Dobrowolski, Antoni Boleslaw. Commission, ou bien Association? "Des Neiges et des Glaces", "de Glaciologie," ou bien "de Cryologie"? p. 142-44.—Dobrowolski, Antoni Boleslaw. Sur un problème relatif à la pétrographie des glaciers: les portions des glaciers montrant un parallélisme des axes optiques des grains, sont-elles des monocristaux? p. 212-13.—Field, William O., jr., and Canada. Water Resources Division. Report on the northern American glaciers, p. 120-28.—Fristrup, Borge. Climate and glaciology of Peary Land, north Greenland, p. 185-93.—Haefeli, R., and Kasser, P. Geschwindigkeitsverhältnisse und Verformungen in einem Eisstollen des Zmuttgletschers, p. 222-36.—Hare, F. Kenneth. Recent investigations into the distribution of snow and ice in eastern Canada, p. 167-71.—Heinzeln, J. de. Le retrait des glaciers du flanc ouest du massif Stanley (Ruwendorzi), p. 203-05.—Jakhelln, Anton. Maps of snow accumulation—a meteorological aid to hydrology, p. 270-76.—Klæboe, H. Snow investigations in Norway, p. 315-18.—Lamb, H. H. Meteorological situations over the south polar regions and alimentation of the antarctic ice-cap, p. 172-84.—Lawrence, Donald B. Glacier fluctuation in northwestern North America within the past six centuries, p. 161-66.—Linsley, Ray K. The index concept in hydrology, p. 261-65.—[Mercanton, Paul-Louis.] Rapport sur les variations de longueur des glaciers européens de 1947 à 1950. Alpes françaises, suisses, italiennes, autrichiennes; Pyrénées, Apennins; Norvège, Suède et Islande, p. 107-19.—Pearce, D. C., and Gold, L. W. The Canadian snow survey, 1947-1950, p. 277-304.—Perutz, M. F., and Gerrard, J. A. F. Determination of the velocity distribution in a vertical profile through a glacier, p. 214.—Pramanik, S. K., and Rao, K. N. Contribution of snow to flood flow in Indian rivers, p. 319.—Pramanik, S. K., and Rao, K. N. Influence of snow accumulation in the Himalayas on the subsequent rainfall in India, p. 321.—Pramanik, S. K., and Rao, K. N. Relationship between snow accumulation and river discharges in India, p. 320.—Quervain, Marcel R. de, and others. Ueber die Lawinenkatastrophen in den Schweizeralpen, Januar und Februar 1951, von M. de Quervain, Th. Zingg, A. Roch und M. Schild, p. 332-46.—Quervain, Marcel R. de, and Zingg, Th. Ueber die Verdunstung der alpinen Schneedecke, p. 154-60.—Remenieras, M. G., and Terrier, M. M. La sonde électrothermique E.D.F. pour le forage des glaciers, p. 254-60.—Renaud, André. Nouvelle contribution à l'étude du grain de glacier, p. 206-11.—Schaefer, Vincent J., and others. Entwurf einer internationalen Schneeklassifikation ausgearbeitet durch das Komitee für Schneeklassifikation, von V. J. Schaefer, G. J. Klein [und] M. R. de Quervain, p. 129-41.—Sharp, Robert P. Meltwater behavior in firn on upper Seward Glacier, St. Elias mountains, Canada, p. 246-53.—Sulzée, C. Étude de la neige et des avalanches, p. 330-31.—Tonini, Dino. Sur les corrélations entre précipitations neigeuses et débits d'un cours d'eau typique, p. 322-29.—Wallén, Carl Christian. Influences affecting glacier extension in northern Sweden, p. 145-53.—Ward, William H. The physics of deglaciation in central Baffin Island, p. 237-45.—Wordie, James Mann. The Ross Barrier and the Shackleton Ice-Shelf, p. 102-06. [Discourse on shelf ice terminology.]—Zingg, Th. Beziehung zwischen Temperatur und Schmelzwasser und ihre Bedeutung für Niederschlags- und Abflussfragen, p. 266-69.