

1975 Catalogue of
**SCIENTIFIC & TECHNICAL
JOURNALS FROM THE
U. S. S. R.**

on
EARTH SCIENCES
and related subjects
(in Russian but many with
summaries in English)
may be obtained from:



Denington Estate,
WELLINGBOROUGH, U.K.

E. K. Hull Micro-Slide Company

Microfossil slides supplied in black or white plastic – complete with photo-paper inserts, cover-slides and self-adhesive labels.

Faunal slides – with 24, 32 or 64 divisions and black or white backgrounds – single, double, three and four-celled slides available.

Price – 10 pence per slide with quantity discounts.

For further details write to:

E. K. Hull Micro-Slide Company
24 Lynmouth Gardens, Perivale
Middlesex UB6 7HR

Geological Magazine

with which is incorporated

The Geologist

founded in 1864 by the late DR HENRY WOODWARD, F.R.S.

Edited by S. R. NOCKOLDS, PH.D., F.R.S.

W. B. HARLAND, M.A.

and C. P. HUGHES, M.A.

assisted by MRS M. J. MASON

Associate editors

PROFESSOR O. M. B. BULMAN, SC.D., A.R.C.SC., F.R.S.

SIR KINGSLEY DUNHAM, D.SC., F.R.S.

MR. N. L. FALCON, M.A., F.R.S.

PROFESSOR LEONARD HAWKES, D.SC., F.R.S.

PROFESSOR SIR WILLIAM PUGH, O.B.E., D.SC., F.R.S.

PROFESSOR F. W. SHOTTON, M.B.E., M.A., SC.D., F.R.S.

SIR JAMES STUBBLEFIELD, D.SC., F.R.S.

Volume III of Whole Series

January–December 1974

Cambridge

at the University Press 1974

**PUBLISHED BY
THE SYNDICS OF THE CAMBRIDGE UNIVERSITY PRESS**
Bentley House, 200 Euston Road, London NW1 2DB
American Branch: 32 East 57th Street, New York, N.Y. 10022

© Cambridge University Press 1974

Pagination and dates of publication of issues in this volume

Number 1: pp. 1–96 January 1974
2: pp. 97–192 March 1974
3: pp. 193–272 May 1974
4: pp. 273–368 July 1974
5: pp. 369–480 September 1974
6: pp. 481–576 December 1974

Printed in Great Britain at the University Printing House, Cambridge

Contents

ARTICLES

(Figures in bold type denote number of issue)

BARR, M., & COWARD, M. P.

A method for the measurement of volume change, **4**, 293

BATES, D. E. B.

Probable orthocone skip and roll marks from the Aberystwyth Grits (Plates 1–3), **1**, 31

BOULTON, G. S., & RHODES, M.

Isostatic uplift and glacial history in northern Spitsbergen, **6**, 481

BROOKS, D. J.

A contribution to the geology of the western margin of the Afar Depression, Ethiopia (Plates 1–2), **5**, 435

CHINNER, G. A.

Dalradian margarite: a preliminary note (Plates 1–2), **1**, 75

CHINNER, G. A., & FOX, J. S.

The origin of cordierite-anthophyllite rocks in the Land's End aureole (Plate 1), **5**, 397

COLLERSON, K. D.

Descriptive microstructural terminology for high-grade metamorphic tectonites (Plates 1–3), **4**, 313

COLLEY, H.

An essexitic sill at Mbalevuto, Viti Levu, Fiji, **4**, 343

CRAWFORD, A. R.

The Indus Suture Line, the Himalaya, Tibet and Gondwanaland, **5**, 369

EVANS, P.

Late Pleistocene chronology and the glacial-interglacial cycle, **5**, 421

GARFUNKEL, Z., BARTOV, J., EYAL, Y., & STEINITZ, G.

Raham Conglomerate – new evidence for Neogene tectonism in the southern part of the Dead Sea Rift, **1**, 55

GREEN, C. P.

Pleistocene gravels of the River Axe in south-western England, and their bearing on the southern limit of glaciation in Britain, **3**, 213

HARRIS, N. B. W.

Some migmatite types and their origins, from the Barousse Massif, Central Pyrenees (Plate 1), **4**, 319

HEIMLICH, R. A., GALLAGHER, G. L., & SHOTWELL, L. B.

Quantitative petrography of mafic dikes from the central Bighorn Mountains, Wyoming (Plate 1), **2**, 97

- INESON, P. R., & MITCHELL, J. G.
K–Ar isotopic age determinations from some Lake District mineral localities, **6**, 521
- JONES, P. F., & STANLEY, M. F.
Ipswichian mammalian fauna from the Beeston Terrace at Boulton Moor, near Derby (Plate 1), **6**, 515
- KANARIS-SOTIRIOU, R.
Fine-scale layering in igneous intrusions: a possible mechanism for a non-depositional origin (Plate 1), **2**, 157
- KERR, P. F., GAVASCI, A. T., & BOWES, D. R.
Welded glass-breccias from Marysvale, Utah (Plates 1–2), **1**, 15
- KRISHNAMACHARLU, T.
Ignimbrite flows from Rajula, Saurashtra, India (Plate 1), **1**, 49
- LEE, C. A.
The geology of the Katete carbonatite, Rhodesia, **2**, 133
- LINDSTRÖM, M.
Steps facing against the slip direction: a model (Plate 1), **1**, 71
- MARTINI, E.
Calcareous nannoplankton and the age of the *Globigerina* silts of the western approaches of the English Channel, **4**, 303
- MCCANN, A. M., & KENNEDY, M. J.
A probable glacio-marine deposit of Late Ordovician–Early Silurian age from the north central Newfoundland Appalachian Belt (Plates 1–2), **6**, 549
- MITCHELL, W. I.
An outline of the stratigraphy and palaeontology of the Ordovician rocks of Central Portugal (Plate 1), **5**, 385
- MÖRNER, N.-A.
The Greenland O^{18} curve: Time scale and ice accumulation, **5**, 431
- NAQVI, S. M., RAO, V. D., SATYANARAYANA, K., & HUSSAIN, S. M.
Geochemistry of post-Dharwar basic dikes and the Precambrian crustal evolution of peninsular India, **3**, 229
- PARKASH, B., BAJPAI, I. P., & SAXENA, H. P.
Sedimentary structures and palaeocurrents of the Siwaliks exposed between the Yamuna and Gola Rivers, U. P. (India), **1**, 1
- PAUL, C. R. C.
Regulaecystis devonica, a new Devonian pleurocystitid cystoid from Devon (Plate 1), **4**, 349
- RAO, T. R.
A bedded deposit of anthophyllite schist in the Precambrian belt of Nellore, South India (Plate 1), **3**, 221
- READING, H. G.
What have we learned in sedimentology in the past seventy years? **5**, 455

RICKARDS, R. B., & KOREN', T. N.

Virgellar meshworks and sicular spinosity in Llandoverly graptoloids (Plates 1–2), 3, 193

RIDING, R.

Stromatoporoid diagenesis: outline of alteration effects (Plates 1–2), 2, 143

ROOBOL, M. J.

The geology of the Vesturhorn Intrusion, SE Iceland (Plate 1), 4, 273

ROSENBAUM, M. S.

Basaltic volcanism in south-east Terceira, Azores, 5, 409

ROZANOV, A. Yu.

Homological variability of archaeocyathans, 2, 107

SABINE, P. A.

How should rocks be named? 2, 165

SELF, S., SPARKS, R. S. J., BOOTH, B., & WALKER, G. P. L.

The 1973 Heimaey Strombolian Scoria deposit, Iceland, 6, 539

SHELLEY, D.

Mechanical production of metamorphic banding – a critical appraisal, 4, 287

SHOTTON, F. W.

Climatic fluctuations of the Ice Age, 5, 451

SILVA, K. K. M. W.

Tectonic control of graphite mineralization in Sri Lanka, 4, 307

STORETVEDT, K. M.

A possible large-scale sinistral displacement along the Great Glen Fault in Scotland, 1, 23

STRONG, D. F.

Plateau lavas and diabase dikes of northwestern Newfoundland (Plates 1–3), 6, 501

TALBOT, M. R.

Foraminiferid-encrusted ooids: evidence for ancient subtidal algal mats? (Plate 1), 4, 297

THOMAS, L. P., & GRAY, D. A.

Concealed Eocene outcrop beneath Shoreham Harbour, Sussex, 2, 125

UZUAKPUNWA, A. B.

The Abakaliki pyroclastics – Eastern Nigeria: new age and tectonic implications (Plates 1–3), 1, 65

VASS, D., BAGDASARJAN, G. P., & BAJANIK, S.

Contributions to the Neogene radiometric time-scale from northern Africa, 2, 149

VERNON, R. H.

Controls of mylonitic compositional layering during non-cataclastic ductile deformation, 2, 121

WEAVER, J. D.

Jointing along the Swansea Valley Disturbance between Clydach and Hay-on-Wye, South Wales, **4**, 329

WEBB, P. K.

Roof modification of a high level granite, Jos-Bukuru Younger Granite Ring Complex, Nigeria, **1**, 43

WILKINSON, J. M., & CANN, J. R.

Trace elements and tectonic relationships of basaltic rocks in the Ballantrae igneous complex, Ayrshire, **1**, 35

WINCHESTER, J. A.

The control of the whole-rock content of CaO and Al₂O₃ on the occurrence of the aluminium silicate polymorphs in amphibolite facies pelites, **3**, 205

WRIGHT, J. B.

Tuffsite with topaz from the Nigerian Younger Granite province – the Balfour Hill ‘sediments’ (Plate 1), **4**, 337

CORRESPONDENCE

BEYTH, M. Precambrian block-faulting, Ethiopia, **5**, 446

CLARKE, M. J. Certain misconceptions regarding late Palaeozoic rocks in Tasmania, **6**, 565

COLE, D. A recent example of spontaneous combustion of oil-shale, **4**, 355

COWIE, J. W., & ROZANOV, A. Yu. I.U.G.S. Precambrian/Cambrian Boundary Working Group in Siberia, 1973 (Plates 1–4), **3**, 237

DUNHAM, K. Drift thickness maps of Scotland, **1**, 79

EARP, J. R. Silurian, Devonian and Old Red Sandstone, **5**, 443

ELLIOTT, R. B. On ‘metabasite’, **1**, 83

GAISIE, J. S., & WINTER, J. Tillite in the Togo formation in Ghana, **3**, 253

GARLAND, C. R. Precambrian block-faulting, Ethiopia, **5**, 447

GREEN, J., & WRIGHT, J. B. Ardnamurchan, Centre 1 – new radiometric evidence, **2**, 163

HOLLAND, C. H. Silurian, Devonian and Old Red Sandstone, **5**, 442

KEMPE, D. R. C. The petrology of the Warsak alkaline granites, Pakistan, and their relationship to other alkaline rocks of the region: Corrigendum, **5**, 450, Tilloids from N.W. Pakistan, **6**, 568

LE BAS, M. J. Ardnamurchan, Centre 1, **5**, 449

MASON, R. The location of the Iapetus Suture in the Scandinavian Caledonides, **5**, 439

PRIDDLE, J. The function of conodonts, **3**, 255

SELLWOOD, B. W. Tertiary beach deposits east of Reading associated with the London Clay transgression, **1**, 80

- SONNENFELD, P. A Mediterranean catastrophe? 1, 79
- TANDON, S. K., THAKUR, V. C., & JAIN, A. K. Tilloids from N.W. Pakistan, 6, 568
- VISWANATHAN, S. Basaltic komatiite occurrences in the Kolar gold field of India? 4, 353
- WATERHOUSE, J. B. Certain misconceptions regarding Late Palaeozoic rocks in Tasmania, 6, 566
- WHALLEY, W. B. Observations on the Kaiserstuhl Loess (Plates 1–3), 1, 84
- WHITE, D. E. The boundary between the Wenlock and Ludlow Series, 5, 448
- WRIGHT, J. B. The Cwm Dilyn rhyolite, Snowdonia – an extrusive dome? (Plate 1), 5, 444

REVIEWS

- Acritarcha of the Hamilton Formation (Middle Devonian), Southwestern Ontario, Chitinozoa and, 3, 266
- Archaean Rocks held at Perth, Symposium on, 5, 465
- Argillaceous Sediments, Compaction of, 5, 474
- Arisaig Group (Silurian-Lower Devonian) of Nova Scotia, Brachiopods of the, 2, 187
- Brachiopods of the Arisaig Group (Silurian-Lower Devonian) of Nova Scotia, 2, 187
- Brecon Beacons National Park Scenery, 2, 190
- Bryozoa, Living and Fossil, 2, 184
- Carboniferous of the Slieve Beach Syncline and its setting in the Northwest Carboniferous Basin, Ireland, Upper Old Red Sandstone and Lower, 4, 362
- Chinle Formation and related Upper Triassic Strata in the Colorado Plateau region, Stratigraphy and origin of the, 4, 357
- Chitinozoa and Acritarcha of the Hamilton Formation (Middle Devonian), Southwestern Ontario, 3, 266
- Clay minerals, The Chemistry of, 2, 185
- Climatic Geomorphology, 6, 570
- Coastal Development, Geographical Variation in, 4, 357
- The Coastline of Scotland, 4, 364
- Colorado Plateau region, Stratigraphy and origin of the Chinle Formation and related Upper Triassic Strata in the, 4, 357
- Compaction and fluid migration in Cretaceous shales of western Canada, 4, 360
- Compaction of Argillaceous Sediments, 5, 474
- Complexiopollis* pollen lineage in Mississippi embayment rocks, 5, 466
- Contact Metamorphism, The Facies of, 3, 261
- Continental Drift: The Evolution of a concept, 2, 183
- Continents through Time, Organisms and, 1, 88
- Corals of the Klamath Mountains region, California, Silurian rugose, 2, 177
- Cretaceous shales of western Canada, Compaction and fluid migration in, 4, 360
- Crystals, 5, 463
- Deserts, Geomorphology in, 2, 186
- The Earth and Human Affairs, 3, 260

- Earth and Planetary Sciences, Annual Review of, 3, 260
 Earth Materials, Nature of, 5, 468
 Earth's Voyage through Time, 1, 92
 Ecosystems, Natural, 2, 185
 Environmental Geology, Focus on, 1, 91
 Eocene palynomorphs of the Mississippi embayment, Stratigraphic distribution of significant, 3, 263
 EpheMERAL Streams, Sedimentary Structures of, 6, 570
 Fluid migration in Cretaceous shales of western Canada, Compaction and, 4, 360
 Fossils, The Meaning of, 5, 471
 Geochronology, Radiometric Dating of Rocks and Minerals, 5, 471
 Geology, A New, 1, 90
 Geomorphology, Climatic, 6, 570
 Geomorphology in Deserts, 2, 186
 Geomorphology, Structural, 5, 466
 Geomorphology, The History of the Study of Landforms or the Development of, 5, 463
 Gesteinsbildenden Minerale, Optische Bestimmung der, 2, 177
 Granites and Their Enclaves, 5, 467
 Graptolite fauna of the Great Paxton Borehole, Huntingdonshire, 5, 475
 Graptolites of Bohemia, Lower Ordovician, 5, 472
 A Grenville front magnetic anomaly in the Megiscane Lake area, Quebec, 5, 474
 Hillslope Form and Process, 1, 87
 Historical Geology – Interpretations and Applications, 1, 92
 Holocene Carbonate Sedimentation and Diagenesis in a Shallow Epicontinental Sea, The Persian Gulf, 2, 181
 Hominoid Evolution, Calibration of, 3, 258
 Ice Age, Climatic Fluctuations of the, 5, 451
 Invertebrates, Paleobiology of the, 5, 473
 Jasperoid in the United States, 3, 265
 Landforms, The History of the Study of, 5, 463
 Libya, Symposium on the Geology of, 5, 463
 Mackenzie and Yukon Territory, Geology of Flat River, Glacier Lake, and Wrigley Lake map-areas, District of, 3, 262
 Malay Peninsula, Geology of the, 2, 183
 Manganese concretions in a British Columbia Fiord, Sedimentation and, 5, 467
 Marine Environments, Ecology and Palaeoecology of, 2, 178
 Metamorphism at Moderate Pressures, The Facies of Regional, 5, 465
 Metamorphism, The Facies of, 1, 91
 Metamorphism, The Facies of Contact, 3, 261
 Mineral and thermal waters of Canada, 4, 360
 Mineral resources, United States, 4, 363
 Minerals and Precious Stones, 5, 465
 Minerals, The Collector's Encyclopedia of Rocks and, 6, 571
 Mississippi embayment rocks, *Complexiopollis* pollen lineage in, 5, 466
 Mississippi embayment, Stratigraphic distribution of significant Eocene palynomorphs of the, 3, 263

- Montana, Structural geology of the Sun River Canyon and adjacent areas, north-western, 3, 262
- Morphological Analysis of Land Forms, 5, 469
- Nannofossil processing techniques, Palynology and, 4, 359
- Nevada, Paleontology and stratigraphy of the Rabbit Hill Limestone and Lone Mountain Dolomite of Central, 5, 476
- North Atlantic Ocean, Western, 2, 189
- Old Red Sandstone and Lower Carboniferous of the Slieve Beach Syncline and its setting in the Northwest Carboniferous Basin, Ireland, Upper, 4, 362
- Optische Bestimmung der gesteinsbildenden Minerale, 2, 177
- Ordovician Copenhagen Formation and its trilobites in Nevada, Distribution of the Middle, 2, 179
- Ordovician Graptolites of Bohemia, Lower, 5, 472
- Organisms and Continents through Time, 1, 88
- The Origins of Life: Molecules and Natural Selection, 3, 265
- Ostracoda from the Atlantic coastal region, Lower Cretaceous, Jurassic(?), and Triassic, 3, 263
- Palaeontology, Episodes in the History of, 5, 471
- Palaeozoic and Precambrian Rocks of Alaska and their Role in its Structural Evolution, 3, 261
- Paleobiology, Models in, 2, 180
- Paleobiology of the Invertebrates, 5, 473
- Palynology and Nannofossil processing techniques, 4, 359
- Pembrokeshire Coast Scenery, 2, 190
- Periglacial Processes and Environments, 4, 364
- The Persian Gulf, 2, 181
- Petroleum Geology, 5, 468
- Petrology, The Nomenclature of, 2, 165
- Physical Geology, 5, 476
- The Plutonic rocks of Vancouver Island, 4, 360
- Precambrian Rocks of Alaska and their Role in its Structural Evolution, Palaeozoic and, 3, 261
- Precious Stones, Minerals and, 5, 465
- Recent Earth History, 4, 361
- Rocks and Minerals, The Collector's Encyclopedia of, 6, 571
- Santa Rita Mountains, Southeast of Tucson, Arizona, Structural geology of the, 5, 465
- Scotland, The Coastline of, 4, 364
- The Sea Floor, Sonographs of, 3, 264
- Sedimentary Rocks, Origins of, 1, 87
- Sedimentary Structures of Ephemeral Streams, 6, 570
- Sedimentation and manganese concretions in a British Columbia Fiord, 5, 467
- Sedimentology, Evolving Concepts in, 5, 455
(Silurian-Lower Devonian) of Nova Scotia, Branchiopods of the Arisaig Group, 2, 187
- Silurian rugose corals of the Klamath Mountains region, California, 2, 177
- Slope Morphology, 6, 572

- Sun River Canyon and adjacent areas, northwestern Montana, Structural geology of the, 3, 262
- Thermal waters of Canada, Mineral and, 4, 360
- Tremadoc faunas from boreholes in Central England, 5, 475
- Triassic Strata in the Colorado Plateau region, Stratigraphy and origin of the Chinle Formation and related Upper, 4, 356
- Trilobites in Nevada, Distribution of the Middle Ordovician Copenhagen Formation and its, 2, 179
- United States mineral resources, 4, 363
- U.S. Geological Survey, Journal of Research of the, 2, 187
- U.S.S.R., Geology of the, 4, 358
- Vancouver Island, The Plutonic rocks of, 4, 360
- Waste management and Environmental Implications, Underground, 2, 188
- Wynneb Cymru Llawlyfr darluniadol, 2, 190
- Yukon Territory, Geology of Flat River, Glacier Lake, and Wrigley Lake map-areas, District of, 3, 262

Publications Received

Lists appear beginning pages 1, 93; 2, 191; 3, 267; 4, 367; 5, 477; 6, 574

Index

to Authors and key words in titles in Volume 111; (R) indicates Review

- The Abakaliki pyroclastics – Eastern Nigeria: new age and tectonic implications, Uzuakpunwa, A. B., 65
- Acritarcha of the Hamilton Formation (Middle Devonian), Southwestern Ontario, Chitinozoa and (R), 266
- Afar Depression, Ethiopia, A contribution to the geology of the western margin of the, Brooks, D. J., 435
- Alkaline granites, Pakistan, and their relationship to other alkaline rocks of the region, The petrology of the Warsak, Kempe, D.R.C., 450
- Alteration effects. Stromatoporoid diagenesis, Riding, R., 143
- Aluminium silicate polymorphs in amphibolite facies pelites, The control of the whole-rock content of CaO and Al₂O₃ on the occurrence of the, Winchester, J. A., 205
- Amphibolite facies pelites, The control of the whole-rock content of CaO and Al₂O₃ on the occurrence of the aluminium silicate polymorphs in, Winchester, J. A., 205
- Anthophyllite schist in the Precambrian belt of Nellore, South India, A bedded deposit of, Rao, T. R., 221
- Archaeon Rocks held at Perth, Symposium on (R), 465
- Archaeocyathans, Homological variability of, Rozanov, A. Y., 107
- Ardnamurchan, Centre 1, Le Bas, M. J., 449
- Ardnamurchan, Centre 1 – new radiometric evidence, Green, J., & Wright, J. B., 163
- Argillaceous Sediments, Compaction of (R), 474
- Arisaig Group (Silurian-Lower Devonian) of Nova Scotia, Brachiopods of the (R), 187
- Bagdasarjan, G. P., Vass, D., & Bajanik, S., Contributions to the Neogene radiometric time-scale from northern Africa, 149
- Bajanik, S., Vass, D., & Bagdasarjan, G. P., Contributions to the Neogene radiometric time-scale from northern Africa, 149
- Bajpai, I. P., Parkash, B., & Saxena, H. P., Sedimentary structures and palaeocurrents of the Siwaliks exposed between the Yamuna and Gola Rivers, U.P. (India), 1
- Ballantrae igneous complex, Ayrshire, Trace elements and tectonic relationships of basaltic rocks in the, Wilkinson, J. M., & Cann, J. R., 35
- Barr, M., & Coward, M. P., A method for the measurement of volume change, 293
- Barss, M. S., & Williams, G. L., Palynology and Nannofossil processing techniques (R), 359
- Bartov, J., Garfunkel, Z., Eyal, Y., & Steinitz, G., Raham Conglomerate – new evidence for Neogene tectonism in the southern part of the Dead Sea Rift, 55

- Basaltic komatiite occurrences in the Kolar gold field of India? Viswanathan, S., 353
- Basaltic rocks in the Ballantrae igneous complex, Ayrshire, Trace elements and tectonic relationships of, Wilkinson, J. M., & Cann, J. R., 35
- Basaltic volcanism in south-east Terceira, Azores, Rosenbaum, M. S., 409
- Basic dikes and the Precambrian crustal evolution of peninsular India, Geochemistry of Post-Dharwar, Naqri, S. M., Rao, V. D., Satyanarayana, K., & Hussain, S. M., 229
- Bates, D. E. B., Probable orthocone skip and roll marks from the Aberystwyth Grits, 31
- Belderson, R. H., Kenyon, N. H., Stride, A. H., & Stubbs, A. R., Sonographs of the Sea Floor (R), 264
- Beyth, M., Precambrian block-faulting, Ethiopia, 446
- Bishop, W. W., & Miller, J. A., (Eds.), Calibration of Hominoid Evolution (R), 258
- Blatt, H., Middleton, G., & Murray, R., Origins of Sedimentary Rocks (R), 87
- Booth, B., Self, S., Sparks, R. S. J., & Walker, G. P. L., The 1973 Heimaeystrombolian Scoria deposit, Iceland, 539
- Bouček, B., Lower Ordovician Graptolites of Bohemia (R), 472
- Boulton, G. S., & Rhodes, M., Isostatic uplift and glacial history in northern Spitzbergen, 481
- Bowes, D. R., Kerr, P. F., & Gavasci, A. T., Welded glass-breccias from Marysvale, Utah, 15
- Brachiopods of the Arisaig Group (Silurian-Lower Devonian) of Nova Scotia (R), 187
- Bradshaw, M. J., A New Geology (R), 90
- Brecon Beacons National Park Scenery (R), 190
- Brobst, D. A., & Pratt, W. P. (Eds.), United States mineral resources (R), 363
- Brooks, D. J., A contribution to the geology of the western margin of the Afar Depression, Ethiopia, 435
- Bulman, O. M. B., & Rushton, A. W. A., Tremadoc faunas from boreholes in Central England (R), 475
- Bryozoa, Living and Fossil (R), 184
- Calcareous nannoplankton and the age of the *Globigerina* silts of the western approaches of the English Channel, Martini, E., 303
- Caledonides, The location of the Iapetus Suture in the Scandinavian, Mason, R., 439
- Cann, J. R., & Wilkinson, J. M., Trace elements and tectonic relationships of basaltic rocks in the Ballantrae igneous complex, Ayrshire, 35
- Carbonatite, Rhodesia, The geology of the Katete, Lee, C. A., 133
- Carboniferous of the Slieve Beach Syncline and its setting in the Northwest Carboniferous basin, Ireland, Upper Old Red Sandstone and Lower (R), 362
- Carson, D. J. T., The Plutonic rocks of Vancouver Island (R), 360
- Carson, M. A., & Kirkby, M. J., Hillslope Form and Process (R), 87
- Chapman, R. E., Petroleum Geology, A Concise Study (R), 468
- Charbonneau, B. W., A Grenville front magnetic anomaly in the Megiscane Lake Area, Quebec (R), 474

- Chinle Formation and related Upper Triassic Strata in the Colorado Plateau region, Stratigraphy and origin of the (R), 357
- Chinner, G. A., Dalradian margarite: a preliminary note, 75
- Chinner, G. A., & Fox, J. S., The origin of cordierite – anthophyllite rocks in the Land's End aureole, 397
- Chitinozoa and Acritarcha of the Hamilton Formation (Middle Devonian), Southwestern Ontario (R), 266
- Chorley, R. J., Beckinsale, R. P., & Dunn, A. J., The History of the Study of Landforms or the Development of Geomorphology (R), 463
- Churkin, M., Palaeozoic and Precambrian Rocks of Alaska and their Role in its Structural Evolution (R), 261
- Clapham, W. B., Natural Ecosystems (R), 185
- Clarke, M. J., Certain misconceptions regarding Late Palaeozoic rocks in Tasmania, 565
- Clay Minerals, The Chemistry of (R), 185
- Climatic fluctuations of the Ice Age, Shotton, F. W., 451
- Climatic Geomorphology (R), 570
- Coastal Development, Geographical Variation in (R), 357
- The Coastline of Scotland (R), 364
- Cole, D., A recent example of spontaneous combustion of oil-shale, 355
- Collerson, K. D., Descriptive microstructural terminology for high-grade metamorphic tectonites, 313
- Colley, H., An Essexitic sill at Mbalevuto, Viti Levu, Fiji, 343
- Colorado Plateau region, Stratigraphy and origin of the Chinle Formation and related Upper Triassic Strata in the (R), 357
- Combustion of oil-shale, A recent example of spontaneous, Cole, D., 355
- Compaction and fluid migration in Cretaceous shales of western Canada (R), 360
- Compaction of Argillaceous Sediments (R), 474
- Complexiopollis* pollen lineage in Mississippi embayment rocks (R), 466
- Conodonts, The function of, Priddle, J., 255
- Contact Metamorphism, The Facies of (R), 261
- Continental Drift: The Evolution of a concept (R), 183
- Continents through Time, Organisms and (R), 88
- Cook, T. D. (Ed.), Underground Waste Management and Environmental Implications (R), 188
- Cooke, R. U., & Warren, A., Geomorphology in Deserts (R), 186
- Corals of the Klamath Mountains region, California, Silurian rugose (R), 177
- Cordierite–anthophyllite rocks in the Land's End aureole, The origin of, Chinner, G. A., & Fox, J. S., 397
- Coward, M. P., & Barr, M., A method for the measurement of volume change, 293
- Cowie, J. W., & Rozanov, A. Y., I.U.G.S. Precambrian/Cambrian Boundary Working Group in Siberia, 1973, 237
- Crawford, A. R., The Indus Suture Line, the Himalaya, Tibet and Gondwanaland, 369
- Cretaceous shales of western Canada, Compaction and fluid migration in (R), 360

- Crystals, (R), 463
- The Cwm Dulyn rhyolite, Snowdonia – an extrusive dome? Wright, J. B., 444
- Cystoid from Devon, *Regulaecystis devonica*, a new Devonian pleurocystitid, Paul, C. R. C., 349
- Dalradian margarite: a preliminary note, Chinner, G. A., 75
- Davies, J. L., Geographical Variation in Coastal Development (R), 357
- Deeson, A. F. L. (Ed.), The Collector's Encyclopedia of Rocks and Minerals (R), 571
- Deformation, Controls of mylonitic compositional layering during non-cataclastic ductile, Vernon, R. H., 121
- Derbyshire, E. (Ed.), Climatic Geomorphology (R), 570
- Deserts, Geomorphology in (R), 186
- Devonian and Old Red Sandstone, Silurian, Holland, C. H., 442; Earp, J. R. 443
- Dharwar basic dikes and the Precambrian crustal evolution of peninsular India, Geochemistry of post-, Naqvi, S. M., Rao, V. D., Satyanarayana, K., & Hussain, S. M., 229
- Dider, J., Granites and Their Enclaves (R), 467
- Dikes of northwestern Newfoundland, Plateau lavas and diabase, Strong, D. F., 501
- Dinely, D., Earth's Voyage through Time (R), 92
- Dobretsov, N. L., Khlestov, V. V., & Sobolev, V. S., The Facies of Regional Metamorphism at Moderate Pressures (R), 465
- Donath, F. A., Stehli, F. G., & Wetherill, G. W. (Eds), Annual Review of Earth and Planetary Sciences (R), 260
- Drewes, H., Structural geology of the Santa Rita Mountains, Southeast of Tucson, Arizona (R), 465
- Drift thickness maps of Scotland, Dunham, K., 79
- Dunham, K., Drift thickness maps of Scotland, 79
- Earp, J. R., Silurian, Devonian and Old Red Sandstone, 443
- The Earth and Human Affairs (R), 260
- Earth and Planetary Sciences, Annual Review of (R), 260
- Earth Materials, Nature of (R), 468
- Earth's Voyage through Time (R), 92
- Ecosystems, Natural (R), 185
- Elliott, R. B., On 'metabasite', 83
- Emery, K. O., & Uchupi, E., Western North Atlantic Ocean (R), 189
- Environmental Geology, Focus on (R), 91
- Eocene outcrop beneath Shoreham Harbour, Sussex, Concealed, Thomas, L. P., & Gray, D. A., 125
- Eocene palynomorphs of the Mississippi embayment, Stratigraphic distribution of significant (R), 263
- Ephemeral Streams, Sedimentary Structures of (R), 570
- An essexitic sill at Mbalevuto, Viti Levu, Fiji, Colley, H., 343
- Evans, D. E., Brecon Beacons National Park Scenery; Pembrokeshire Coast Scenery; Wyneb Cymru Llawlyfr darluniadol (R), 190
- Evans, P., Late Pleistocene chronology and the glacial–interglacial cycle, 421

- Eyal, Y., Garfunkel, Z., Bartov, J., & Steinitz, G., Raham Conglomerate – new evidence for Neogene tectonism in the southern part of the Dead Sea Rift, 55
- Fine-Scale layering in igneous intrusions: a possible mechanism for a non depositional origin, Kanaris-Sotiriou, R., 157
- Flint, R. F., & Skinner, B. J., Physical Geology (R), 476
- Fluid migration in Cretaceous shales of western Canada, Compaction and (R), 360
- Foraminiferid-encrusted ooids: evidence for ancient subtidal algal mats? Talbot, M. R., 297
- Fossils, The Meaning of (R), 471
- Fox, J. S., & Chinner, G. A., The origin of cordierite–anthophyllite rocks in the Land's End aureole, 397
- Frenzel, B., Climatic Fluctuations of the Ice Age (R), 451
- Gabrielse, H., Blusson, S. L., & Roddick, J. A., Geology of Flat River, Glacier Lake, and Wrigley Lake map-areas, District of Mackenzie and Yukon Territory (R), 262
- Gaisie, J. S., & Winter, J., Tillite in the Togo formation in Ghana, 253
- Gallagher, G. L., Heimlich, R. A., & Shotwell, L. B., Quantitative petrography of mafic dikes from the central Bighorn Mountains, Wyoming, 97
- Garfunkel, Z., Bartov, J., Eyal, Y., & Steinitz, G., Raham Conglomerate – new evidence for Neogene tectonism in the southern part of the Dead Sea Drift, 55
- Garland, C. R., Precambrian block-faulting, Ethiopia, 447
- Gavasci, A. T., Kerr, P. F., & Bowes, D. R., Welded glass-breccias from Marysvale, Utah, 15
- Geochronology, Radiometric Dating of Rocks and Minerals (R), 471
- Geology, A New (R), 90
- Geomorphology, Climatic (R), 570
- Geomorphology in Deserts (R), 186
- Geomorphology, Structural (R), 466
- Geomorphology, The History of the Study of Landforms or the Development of (R), 463
- Gesteinsbildenden Minerale, Optische Bestimmung der (R), 177
- Ginsburg, R. N. (Ed.), Evolving Concepts in Sedimentology (R), 455
- Glacial history in northern Spitsbergen, Isostatic uplift and, Boulton, G. S., & Rhodes, M., 481
- Glacial–interglacial cycle, Late Pleistocene chronology and the, Evans, P., 421
- Glaciation in Britain, Pleistocene gravels of the River Axe in south-western England, and their bearing on the southern limit of, Green, C. P., 213
- Glacio-marine deposit of Late Ordovician–Early Silurian age from the north central Newfoundland Appalachian Belt, McCann, A. M., & Kennedy, M. J., 549
- Glass-breccias from Marysvale, Utah, Welded, Kerr, P. F., Gavasci, A. T., & Bowes, D. R., 15
- Globigerina* silts of the western approaches of the English Channel, Calcareous nannoplankton and the age of the, Martini, E., 303
- Glover, J. E. (Ed.), Symposium on Archaean Rocks held at Perth (R). 465

- Glyptograptus (Pseudoglyptograptus) rhayaderensis* sp.nov., 193
- Glyptograptus (Pseudoglyptograptus) tabukensis* sp.nov., 193
- Gobbett, D. J., & Hutchinson, C. A., Geology of the Malay Peninsula (R), 183
- Granite, Jos-Bukuru Younger Granite Ring Complex, Nigeria, Roof modification of a high level, Webb, P. K., 43
- Granites and Their Enclaves (R), 467
- Graphite mineralization in Sri Lanka, Tectonic control of, Silva, K. K. M. W., 307
- Graptolite fauna of the Great Paxton Borehole, Huntingdonshire (R), 475
- Graptolites of Bohemia, Lower Ordovician (R), 472
- Graptoloids, Virgella meshworks and sicular spinosity in Llandoverly, Rickards, R. B., & Koren', T. N., 193
- Gray, C. (Ed.), Symposium on the Geology of Libya (R), 463
- Gray, D. A., & Thomas, L. P., Concealed Eocene outcrop beneath Shoreham Harbour, Sussex, 125
- Great Glen Fault in Scotland, A possible large-scale sinistral displacement along the, Storetvedt, K. M., 23
- Green, C. P., Pleistocene gravels of the River Axe in south-western England, and their bearing on the southern limit of glaciation in Britain, 213
- Green, J., & Wright, J. B., Ardnamurchan, Centre 1 – new radiometric evidence, 163
- The Greenland O¹⁸ curve: time scale and ice accumulation, Mörner, N.-A., 431
- A Grenville front magnetic anomaly in the Megiscane Lake area, Quebec (R), 474
- Harris, N. B. W., Some migmatite types and their origins, from the Barousse Massif, Central Pyrenees, 319
- Harper, C. T. (Ed.), Geochronology, Radiometric Dating of Rocks and Minerals (R), 471
- Harper, C. W., Brachiopods of the Arisaig Group (Silurian-Lower Devonian) of Nova Scotia (R), 187
- Heimaey Strombolian Scoria deposit, Iceland, The 1973, Self, S., Sparks, R. S. J., Booth, B., & Walker, G. P. L., 539
- Heimlich, R. A., Gallagher, G. L., & Shotwell, L. B., Quantitative petrography of mafic dikes from the central Bighorn Mountains, Wyoming, 97
- Hillslope Form and Process (R), 87
- The Himalaya, Tibet and Gondwanaland, The Indus Suture Line, Crawford, A. R., 369
- Historical Geology – Interpretations and Applications (R), 92
- Holland, C. H., Silurian, Devonian and Old Red Sandstone, 442
- Holmes, A., The Nomenclature of Petrology (R), 165
- Holocene Carbonate Sedimentation and Diagenesis in a Shallow Epicontinental Sea, The Persian Gulf (R), 181
- Hominoid Evolution, Calibration of (R), 258
- Homological variability of archaeocyathans, Rozanov, A. Y., 107
- Hughes, N. F. (Ed.), Organisms and Continents through Time (R), 88

- Hussain, S. M., Naqvi, S. M., Rao, V. D., & Satyanarayana, K., Geochemistry of post-Dharwar basic dikes and the Precambrian crustal evolution of peninsular India, 229
- Iapetus Suture in the Scandinavian Caledonides, The location of the, Mason, R., 439
- Ice accumulation, The Greenland O¹⁸ curve: time scale and, Mörner, N.-A., 431
- Ice Age, Climatic Fluctuations of the, Shotton, F. W., 451
- Igneous intrusions: a possible mechanism for a non-depositional origin, Fine-scale layering in, Kanaris Sotiriou, R., 157
- Igimbrite flows from Rajula, Saurashtra, India, Krishnamacharlu, T., 49
- The Indus Suture Line, the Himalaya, Tibet and Gondwanaland, Crawford, A. R., 369
- Ineson, P. R., & Mitchell, J. G., K–Ar isotopic age determinations from some Lake District mineral localities, 521
- Invertebrates, Paleobiology of the (R), 473
- Ipswichian mammalian fauna from the Beeston Terrace at Boulton Moor, near Derby, Jones, P. F., & Stanley, M. F., 515
- Isostatic uplift and glacial history in northern Spitsbergen, Boulton G. S., & Rhodes, M., 481
- Isotopic age determinations from some Lake District mineral localities, K–Ar, Ineson, P. R., & Mitchell, J. G., 521
- I.U.G.S. Precambrian/Cambrian Boundary Working Group in Siberia, 1973, Cowie, J. W., & Rozanov, A. Y., 237
- Jain, A. K., Tandon, S. K., & Thakur, V. C., Tilloids from N. W. Pakistan, 568
- Jasperoid in the United States (R), 265
- Jointing along the Swansea Valley Disturbance between Clydach and Hay-on-Wye, South Wales, Weaver, J. D., 329
- Jones, P. F., & Stanley, M. F., Ipswichian mammalian fauna from the Beeston Terrace at Boulton Moor, near Derby, 515
- Kaiserstuhl Loess, Observations on the, Whalley, W. B., 84
- Kanaris-Sotiriou, R., Fine-scale layering in igneous intrusions: a possible mechanism for a non-depositional origin, 157
- Katete carbonatite, Rhodesia, The geology of the, Lee, C. A., 133
- Kempe, D. R. C., The petrology of the Warsak alkaline granites, Pakistan, and their relationship to other alkaline rocks of the region: corrigendum, 450; Tilloids from N. W. Pakistan, 568
- Kennedy, M. J., & McCann, A. M., A probable glacio-marine deposit of Late Ordovician–Early Silurian age from the north central Newfoundland Appalachian Belt, 549
- Kerr, P. F., Gavasci, A. T., & Bowes, D. R., Welded glass-breccias from Marysvale, Utah, 15
- Kolar gold field of India, Basaltic komatiite occurrences in the, Viswanathan, S., 353
- Komatiite occurrences in the Kolar gold field of India, Basaltic, Viswanathan, S., 353
- Koren', T. N., & Rickards, R. B., Virgellar meshworks and sicular spinosity in Llandovery graptoloids, 193

- Krishnamacharlu, T., Ignimbrite flows from Rajula, Saurashtra, India, 49
- Landforms. The History of the Study of (R), 463
- Larwood, G. P. (Ed), Living and Fossil Bryozoa (R), 184
- Lavas and diabase dikes of northwestern Newfoundland, Plateau, Strong, D. F., 501
- Le Bas, M. J., Ardnamurchan, Centre 1, 449
- Lee, C. A., The geology of the Katete carbonatite, Rhodesia, 133
- Legault, J. A., Chitinozoa and Acritarcha of the Hamilton Formation (Middle Devonian), Southwestern Ontario (R), 266
- Libya, Symposium on the Geology of (R), 463
- Lindström, M., Steps facing against the slip direction: a model, 71
- Loess, Observations on the Kaiserstuhl, Whalley, W. B., 84
- Lovering, T. G., Jasperoid in the United States (R), 265
- Macdonald, R. D., & Murray, J. W., Sedimentation and manganese concretions in a British Columbia Fiord (R), 467
- Mackenzie and Yukon Territory, Geology of Flat River, Glacier Lake, and Wrigley Lake map-areas, District of (R), 262
- Mafic dikes from the central Bighorn Mountains, Wyoming, Quantitative petrography of, Heimlich, R. A., Gallagher, G. L., & Shotwell, L. B., 97
- Magara, K., Compaction and fluid migration on Cretaceous shales of western Canada (R), 360
- Malay Peninsula, Geology of the (R), 183
- Mammalian Fauna from the Beeston Terrace at Boulton Moor, near Derby, Ipswichian, Jones, P. F., & Stanley, M. F., 515
- Manganese concretions in a British Columbia Fiord, Sedimentation and (R), 467
- Margarite: a preliminary note, Dalradian, Chinner, G. A., 75
- Marine Environments, Ecology and Palaeocology of (R), 178
- Martini, E., Calcareous nannoplankton and the age of the *Globigerina* silts of the western approaches of the English Channel, 303
- Marvin, U. B., Continental Drift: the Evolution of a concept (R), 183
- Mason, R., The location of the Iapetus Suture in the Scandinavian Caledonides, 439
- McCann, A. M., & Kennedy, M. J., A probable glacio-marine deposit of Late Ordovician–Early Silurian age from the north central Newfoundland Appalachian, 549
- A Mediterranean catastrophe? Sonnenfeld, P., 79
- Merriam, C. W., Silurian rugose corals of the Klamath Mountains region, California (R), 177; Paleontology and stratigraphy of the Rabbit Hill Limestone and Lone Mountain Dolomite of Central Nevada (R), 476
- ‘Metabasite’, On, Elliott, R. B., 83
- Metamorphic banding—a critical appraisal, Mechanical production of, Shelley, D., 287
- Metamorphic tectonites, Descriptive microstructural terminology for high-grade, Collerson, K. D., 313
- Metamorphism at Moderate Pressures, The Facies of Regional (R), 465
- Metamorphism, The Facies of (R), 91
- Metamorphism, the Facies of Contact (R), 261

- Metz, R., Minerals and Precious Stones (R), 465
- Michele, V. De., Crystals (R), 463
- Microstructural terminology for high-grade metamorphic tectonites, Descriptive, Collerson, K. D., 313
- Migmatite types and their origins, from the Barousse Massif, Central Pyrenees, Some, Harris, N. B. W., 319
- Mineral and thermal waters of Canada (R), 360
- Mineral resources, United States (R), 363
- Minerals and Precious Stones (R), 465
- Minerals, The Collector's Encyclopedia of Rocks and (R), 571
- Mississippi embayment rocks, *Complexiopollis* pollen lineage in (R), 466
- Mississippi embayment, Stratigraphic distribution of significant Eocene palynomorphs of the (R), 263
- Mitchell, J. G., & Ineson, P. R., K–Ar isotopic age determinations from some Lake District mineral localities, 521
- Mitchell, W. I., An outline of the stratigraphy and palaeontology of the Ordovician rocks of Central Portugal, 385
- Montana, Structural geology of the Sun River Canyon and adjacent areas, northwestern (R), 262
- Mörner, N.-A., The Greenland O¹⁸ curve: time scale and ice accumulation, 431
- Morphological Analysis of Land Forms (R), 469
- Mudge, M. R., Structural geology of the Sun River Canyon and adjacent areas, northwestern Montana (R), 262
- Mylonitic compositional layering during non-cataclastic ductile deformation, Controls of, Vernon, R. H., 121
- Nalivkin, D. V., Geology of the U.S.S.R. (R), 358
- Nannofossil processing techniques, Palynology and (R), 359
- Nannoplankton and the age of the *Globigerina* silts of the western approaches of the English Channel, Calcareous, Martini, E., 303
- Naqvi, S. M., Rao, V. D., Satyanarayana, K., & Hussain, S. M., Geochemistry of post-Dharwar basic dikes and the Precambrian crustal evolution of peninsular India, 229
- Neogene tectonism in the southern part of the Dead Sea Rift, Raham Conglomerate – new evidence for, Garfunkel, Z., Bartov., J., Eyal, Y., & Steinitz, G., 55
- Neogene radiometric time-scale from northern Africa, Contributions to the, Vass, D., Bagdasarjan, G. P., & Bajanik, S., 149
- Nevada, Paleontology and stratigraphy of the Rabbit Hill Limestone and Lone Mountain Dolomite of Central (R), 476
- North Atlantic Ocean, Western (R), 189
- Oil-shale, A recent example of spontaneous combustion of, Cole, D., 355
- Old Red Sandstone and Lower Carboniferous of the Slieve Beach Syncline and its setting in the Northwest Carboniferous Basin, Ireland, Upper (R), 362
- Old Red Sandstone, Silurian, Devonian and, Earp, J. R., 443, Holland, C. H., 442
- Ooids: evidence for ancient subtidal algal mats? Foraminiferid-encrusted, Talbot, M. R., 297
- Optische Bestimmung der gesteinsbildenden Minerale (R), 177

- Ordovician Copenhagen Formation and its trilobites in Nevada, Distribution of the Middle (R), 179
- Ordovician–Early Silurian age from the north central Newfoundland Appalachian Belt, A probable glacio-marine deposit of, McCann, A. M., & Kennedy, M. J., 549
- Ordovician Graptolites of Bohemia, Lower (R), 472
- Ordovician rocks of Central Portugal, An outline of the stratigraphy and palaeontology of the, Mitchell, W. I., 385
- Organisms and Continents through Time (R), 88
- Orgel, L. E., The Origins of Life: Molecules and Natural Selection (R), 265
- The Origins of Life: Molecules and Natural Selection (R), 265
- Orthocone skip and roll marks from the Aberystwyth Grits, Probable, Bates, D. E. B., 31
- Orthograptus obuti* sp.nov., 193
- Ostracoda from the Atlantic coastal region, Lower Cretaceous, Jurassic (?), and Triassic (R), 263
- Palaeocurrents of the Siwaliks exposed between the Yamuna and Gola Rivers, U.P. (India), Sedimentary structures and, Parkash, B., Bajpai, I. P., & Saxena, H. P., 1
- Palaeontology, Episodes in the History of (R), 471
- Palaeozoic and Precambrian Rocks of Alaska and their Role in its Structural Evolution (R), 261
- Palaeozoic rocks in Tasmania, Certain misconceptions regarding Late, Clarke, M. J., 565, Waterhouse, J. B., 566
- Paleobiology, Models in (R), 180
- Paleobiology of the Invertebrates (R), 473
- Palynology and Nannofossil processing techniques (R), 359
- Parkash, B., Bajpai, I. P., & Saxena, H. P., Sedimentary structures and palaeocurrents of the Siwaliks exposed between the Yamuna and Gola Rivers, U.P. (India), 1
- Paul, C. R. C., *Regulaecystis devanica*, a new Devonian pleurocystitid cystoid from Devon, 349
- Pembrokeshire Coast Scenery (R), 190
- Penck, W., Morphological Analysis of Land Forms (R), 469
- Periglacial Processes and Environments (R), 364
- The Persian Gulf (R), 181
- Petroleum Geology (R), 468
- Petrology, The Nomenclature of (R), 165
- Physical Geology (R), 467
- Picard, M. D., & High, L. R., Sedimentary Structures of Ephemeral Streams (R), 570
- Pleistocene chronology and the glacial–interglacial cycle, Late, Evans, P., 421
- Pleistocene gravels of the River Axe in south-western England, and their bearing on the southern limit of glaciation in Britain, Green, C. P., 213
- The Plutonic rocks of Vancouver Island (R), 360
- Precambrian belt of Nellore, South India, A bedded deposit of anthophyllite schist in the, Rao, T. R., 221

- Precambrian block-faulting, Ethiopia, Beyth, M., 446, Garland, C. R., 447
- Precambrian/Cambrian Boundary Working Group in Siberia, 1973, I.U.G.S., Cowie, J. W., & Rozanov, A. Y., 237
- Precambrian crustal evolution of peninsular India, Geochemistry of post-Dharwar basic dikes and the, Naqvi, S. M., Rao, V. D., Satyanarayana, K., & Hussain, S. M., 229
- Precambrian Rocks of Alaska and their Role in its Structural Evolution, Palaeozoic and (R), 261
- Precious Stones, Minerals and (R), 465
- Pridde, J., The function of conodonts, 255
- Poort, J. M., Historical Geology – Interpretation and Applications (R) 92
- Purser, B. H. (Ed.), The Persian Gulf (R), 181
- Pyroclastics – Eastern Nigeria: new age and tectonic implications, The Abakaliki, Uzuakpunwa, A. B., 65
- Raham Conglomerate – new evidence for Neogene tectonism in the southern part of the Dead Sea Rift, Garfunkel, Z., Bartov, J., Eyal, Y., & Steinitz, G., 55
- Rao, T. R., A bedded deposit of anthophyllite schist in the Precambrian belt of Nellore, South India, 221
- Rao, V. D., Naqvi, S. M., Satyanarayana, K., & Hussain, S. M., Geochemistry of post-Dharwar basic dikes and the Precambrian crustal evolution of peninsular India, 229
- Reading, H. G., What have we learned in sedimentology in the past seventy years? 455
- Recent Earth History (R), 361
- Regulaecystis devonica*, a new Devonian pleurocystitid cystoid from Devon, Paul, C. R. C., 349
- Reverdatto, V. V., The Facies of Contact Metamorphism (R), 261
- Rickards, R. B., & Koren', T. N., Virgellar meshworks and sicular spinosity in Llandovery graptoloids, 193
- Riding, R., Stromatoporoid diagenesis: outline of alteration effects, 143
- Rieke, H. H., & Chilingarian, G. V., Compaction of Argillaceous Sediments (R), 474
- Rhodes, M., & Boulton, G. S., Isostatic uplift and glacial history in northern Spitsbergen, 481
- Rocks and Minerals, The Collector's Encyclopedia of (R), 571
- Rocks be named? How should, Sabine, P. A., 165
- Roobol, M. J., The geology of the Vesturhorn Intrusion, SE Iceland, 273
- Roof modification of a high level granite, Jos-Bukuru Younger Granite Ring Complex, Nigeria, Webb, P. K., 43
- Rosenbaum, M. S., Basaltic Volcanism in south-east Terceira, Azores, 409
- Ross, R. J., Distribution of the Middle Ordovician Copenhagen Formation and its trilobites in Nevada (R), 179
- Rozanov, A. Y., Homological variability of archaeocyathans, 107
- Rozanov, A. Y., & Cowie, J. W., I.U.G.S. Precambrian/Cambrian Boundary Working Group in Siberia, 1973, 237
- Rudwick, M. J. S., The Meaning of Fossils (R), 471

- Sabine, P. A., How should rocks be named? 165
- Santa Rita Mountains, Southeast of Tucson, Arizona, Structural geology of the (R), 465
- Satyanarayana, K., Naqvi, S. M., Rao, V. D., & Hussain, S. M., Geochemistry of post-Dharwar basic dikes and the Precambrian crustal evolution of peninsular India, 229
- Saxena, H. P., Parkash, B., & Bajpai, I. P., Sedimentary structures and palaeocurrents of the Siwaliks exposed between the Yamuna and Gola Rivers, U.P. (India), 1
- Schopf, T. J. M. (Ed.), Models in Paleobiology (R), 180
- Schumm, S. A., & Mosley, M. P. (Eds), Slope Morphology (R), 572
- Scoria deposit, Iceland, The 1973 Heimaey Strombolian, Self, S. Sparks, R. S. J., Booth, B., & Walker, G. P. L., 539
- Scotland, The Coastline of (R), 364
- The Sea Floor, Sonographs of (R), 264
- Sedimentary Rocks, Origins of (R), 87
- Sedimentary structures and palaeocurrents of the Siwaliks exposed between the Yamuna and Gola Rivers, U.P. (India), Parkash, B., Bajpai, I. P., & Saxena, H. P., 1
- Sedimentary Structures of Ephemeral Streams (R), 570
- Sedimentation and manganese concretions in a British Columbia Fiord (R), 467
- Sedimentology, Evolving Concepts (R), 455
- Sedimentology in the past seventy years? What have we learned in, Reading, H. G., 455
- Self, S., Sparks, R. S. J., Booth, B., & Walker, G. P. L., The 1973 Heimaey Strombolian Scoria deposit, Iceland, 539
- Sellwood, B. W., Tertiary beach deposits east of Reading associated with the London Clay transgression, 80
- Shäfer, W., Ecology and Palaeoecology of Marine Environments (R), 178
- Shelley, D., Mechanical production of metamorphic banding – a critical appraisal, 278
- Sheridan, D., Upper Old Red Sandstone and Lower Carboniferous of the Slieve Beach Syncline and its setting in the Northwest Carboniferous Basin, Ireland (R), 362
- Shotton, F. W., Climatic fluctuations of the Ice Age, 451
- Shotwell, L. B., Heimlich, R. A., & Gallagher, G. L., Quantitative petrography of mafic dikes from the central Bighorn Mountains, Wyoming, 97
- Sicular spinosity on Llandovery graptoloids, Virgellar meshworks and, Rickards, R. B., & Koren, T. N., 193
- Silurian, Devonian and Old Red Sandstone, Holland, C. H., 442; Earp, J. R., 443 (Silurian-Lower Devonian) of Nova Scotia, Brachiopods of the Arisaig Group (R), 187
- Silurian rugose corals of the Klamath Mountains region, California (R), 177
- Silva, K. K. M. W., Tectonic control of graphite mineralization in Sri Lanka, 307
- Sinistral displacement along the Great Glen Fault in Scotland, A possible large-scale, Storetvedt, K. M., 23

- Siwaliks exposed between the Yamuna and Gola Rivers, U.P. (India) Sedimentary structures and palaeocurrents of the, Parkash, B., Bajpai, I. P., & Saxena, H. P., 1
- Skevington, D., Graptolite fauna of the Great Paxton Borehole, Huntingdonshire (R), 475
- Slip direction: a model, Steps facing against the, Lindström, M., 71
- Slope Morphology (R), 572
- Sobolev, V. S. (Ed.), The Facies of Metamorphism (R), 91
- Sonnenfeld, P., A Mediterranean catastrophe? 79
- Souther, J. G., Halstead, E. C., Mineral and thermal waters of Canada (R), 360
- Sparks, R. S. J., Self, S., Booth, B., & Walker, G. P. L., The 1973 Heimaeý Strombolian Scoria deposit, Iceland, 539
- Stanley, M. F., & Jones, P. F., Ipswichian mammalian fauna from the Beeston Terrace at Boulton Moor, near Derby, 515
- Steers, J. A., The Coastline of Scotland (R), 364
- Steinitz, G., Garfunkel, Z., Bartov, J., & Eyal, Y., Raham Conglomerate – new evidence for Neogene tectonism in the southern part of the Dead Sea Rift, 55
- Steps facing against the slip direction: a model, Lindström, M., 71
- Stewart, J. H., Poole, F. G., & Wilson, R. F., Stratigraphy and origin of the Chinle Formation and related Upper Triassic Strata in the Colorado Plateau region (R), 357
- Storetvedt, K. M., A possible large-scale sinistral displacement along the Great Glen Fault in Scotland, 23
- Stromatoporoid diagenesis: outline of alteration effects, Riding, R., 143
- Strong, D. F., Plateau lavas and diabase dikes of northwestern Newfoundland, 501
- Sun River Canyon and adjacent areas, northwestern Montana, Structural Geology of the (R), 262
- Swain, F. M., & Brown, P. M., Lower Cretaceous, Jurassic(?), and Triassic Ostracoda from the Atlantic coastal region (R), 263
- Swansea Valley Disturbance between Clydach and Hay-on-Wye, South Wales, Jointing along the, Weaver, J. D., 329
- Talbot, M. R., Foraminiferid-encrusted ooids: evidence for ancient subtidal algal mats? 297
- Tank, R. W. (Ed.), Focus on Environmental Geology (R), 91
- Tandon, S. K., Thakur, V. C., & Jain, A. K., Tilloids from N. W. Pakistan, 568
- Tasch, P., Paleobiology of the Invertebrates (R), 473
- Tectonic control of graphite mineralization in Sri Lanka, Silva, K. K. M. W., 307
- Tectonic relationships of basaltic rocks in the Ballantrae igneous complex, Ayrshire, Trace elements and, Wilkinson, J. M., & Cann, J. R., 35
- Tennissen, A. C., Nature of Earth Materials (R), 468
- Tertiary beach deposits east of Reading associated with the London Clay transgression, Sellwood, B. W., 80
- Thakur, V. C., Tandon, S. K., & Jain, A. K., Tilloids from N. W. Pakistan, 568
- Thermal waters of Canada, Mineral and (R), 360

- Thomas, L. P., & Gray, D. A., Concealed Eocene outcrop beneath Shoreham Harbour, Sussex, 125
- Tillite in the Togo formation in Ghana, Gaisie, J. S., & Winter, J., 253
- Tilloids from N.W. Pakistan, Tandon, S. K., Thakur, V. C., & Jain, A. K., 568
- Time scale and ice accumulation, The Greenland O¹⁸ curve, Mörner, N.-A., 431
- Trace elements and tectonic relationships of basaltic rocks in the Ballantrae igneous complex, Ayrshire, Wilkinson, J. M., & Cann, J. R., 35
- Tremadoc faunas from boreholes in Central England (R), 475
- Triassic Strata in the Colorado Plateau region, Stratigraphy and origin of the Chinle Formation and related Upper (R), 356
- Tricart, J., Structural Geomorphology (R), 466
- Trilobites in Nevada, Distribution of the Middle Ordovician Copenhagen Formation and its (R), 179
- Troger, W. E., Optische Bestimmung der gesteinsbildenden Minerale (R), 177
- Tschudy, R. H., *Complexiopollis* pollen lineage in Mississippi embayment rocks (R), 466; Stratigraphic distribution of significant Eocene palynomorphs of Mississippi embayment (R), 263
- Tuffsite with topaz from the Nigerian Younger Granite province – the Balfour Hill ‘sediments’, Wright, J. B., 337
- United States mineral resources (R), 363
- U.S. Geological Survey, Journal of Research of the (R), 187
- U.S.S.R., Geology of the (R), 358
- Uzuakpunwa, A. B., The Abakaliki pyroclastics – Eastern Nigeria: new age and tectonic implications, 65
- Vancouver Island, The Plutonic rocks of (R), 360
- Vass, D., Bagdasarjan, G. P., & Bajanik, S., Contributions to the Neogene radiometric time-scale from northern Africa, 149
- Vernon, R. H., Controls of mylonitic compositional layering during non-cataclastic ductile deformation, 121
- Vesturhorn Intrusion, S.E. Iceland, The geology of the, Roobol, M. J., 273
- Virgellar meshworks and sicular spinosity in Llandovery graptoloids, Rickards, R. B., Koren?, T. N., 193
- Viswanathan, S., Basaltic komatiite occurrences in the Kolar gold field of India? 353
- Vita-Finzi, C., Recent Earth History (R), 361
- Volume change, A method for the measurement of, Barr, M., & Coward, M. P., 293
- Walker, G. P. L., Self, S., Sparks, R. S. J., & Booth, B., The 1973 Heimaeý Strombolian Scoria deposit, Iceland, 359
- Warsak Alkaline granites, Pakistan, and their relationship to other alkaline rocks of the region: Corrigendum, The Petrology of the, Kempe, D. R. C., 450
- Washburn, A. L., Periglacial Processes and Environments (R), 364
- Waste Management and Environmental Implications, Underground (R), 188
- Waterhouse, J. B., Certain misconceptions regarding Late Palaeozoic rocks in Tasmania, 566
- Weaver, C. E., & Pollard, L. D., The Chemistry of Clay Minerals (R), 185

- Weaver, J. D., Jointing along the Swansea Valley Disturbance between Clydach and Hay-on-Wye, South Wales, 329
- Webb, P. K., Roof modification of a high level granite, Jos-Bukuru Younger Granite Ring Complex, Nigeria, 43
- Wenlock and Ludlow Series, The boundary between the, White, D. E., 448
- Whalley, W. B., Observations on the Kaiserstuhl Loess, 84
- White, D. E., The boundary between the Wenlock and Ludlow Series, 448
- Wilkinson, J. M., & Cann, J. R., Trace elements and tectonic relationships of basaltic rocks in the Ballantrae igneous complex, Ayrshire, 35
- Winchester, J. A., The control of the whole-rock content of CaO and Al₂O₃ on the occurrence of the aluminium silicate polymorphs in amphibolite facies pelites, 205
- Winter, J., & Gaisie, J. S., Tillite in the Togo formation in Ghana, 253
- Wright, J. B., Tuffsite with topaz from the Nigerian Younger Granite province – the Balfour Hill ‘sediments’, 337; The Cwm Dulyrn rhyolite, Snowdonia – an extrusive dome? 444
- Wright, J. B., & Green, J., Ardnamurchan, Centre 1 – new radiometric evidence, 163
- Wyneb Cymru Llawlyfr darluniadol (R), 190
- Yukon Territory, Geology of Flat River, Glacier Lake, and Wrigley Lake map-areas, District of (R), 262
- Zoological Nomenclature, 569

NOTES FOR CONTRIBUTORS

Contributions for publication should be addressed to The Editors, Geological Magazine, Sedgwick Museum, Downing Street, Cambridge, CB2 3EQ, England.

All contributions, whether articles, correspondence or reviews, must be typed in duplicate on one side of the paper, double spaced throughout, with a wide margin on the left of each page and a narrower margin on the right. Any minor corrections should be made neatly in the typescript, leaving the margins clear.

Articles must be accompanied by a brief summary. Contributions should follow the general style of papers in recent issues of the Magazine and the principles laid down in *Notes to Authors* (*Proc. Geol. Soc. Lond.*, No. 1627, Oct. 1965). Headings should be set out clearly, but not underlined. Primary headings should be in lower case, at margin, with arabic numeral; sub-headings should be numbered 2.a, 2.b, etc., and tertiary headings 2.a.1., 2.a.2. No cross references should be given by page number, but 'above' and 'below' should be used with the section specified, e.g. Section 2.a.1. The total length of a paper should not in general exceed 20 pages of the Geological Magazine; preference and priority are given to short papers. The accuracy of references is the responsibility of authors. References must be double spaced and abbreviated in the form of the *World List of Scientific Periodicals* 4th Edition as far as possible, e.g. Lapworth, C. 1878. The Moffat Series. *Q. Jl geol. Soc., Lond.* **34**, 240-343. Books should be cited briefly as: Burns, R. G. 1970. *Mineralogical applications of crystal field theory*. 224 p., C.U.P., London. Unpublished work, e.g. from theses, should normally be referred to in the text in parentheses and not included in the reference list unless in the press.

Illustrations must be drawn to allow reduction to maximum size of 165 mm × 110 mm; originals must not exceed 495 mm × 330 mm and must be sent in a flat package. Lettering must allow for legibility after reduction (i.e. equivalent to 1 mm as a minimum on reduction). Duplicates of illustrations may be prints or, preferably, reductions. Metric units of the SI system are preferred. Illustrations in the text will be referred to as figures (Fig. 2, 2a, etc.), and halftone plates will be referred to (also in arabic) as Plates 2, 2a, etc. Folding plates will not be accepted. Captions for figures and plates must be typed on separate sheets.

Twenty-five offprints of each paper will be provided free of charge. Additional offprints may be purchased according to a set scale of charges.

Geological Magazine

Volume 111, Number 6, November 1974

BOULTON, G. S. & RHODES, M. Isostatic uplift and glacial history in northern Spitsbergen	481-500
STRONG, D. F. Plateau lavas and diabase dikes of northwestern Newfoundland	501-514
JONES, P. F. & STANLEY, M. F. Ipswichian mammalian fauna from the Beeston Terrace at Boulton Moor, near Derby	515-520
INESON, P. R. & MITCHELL, J. G. K-Ar isotopic age determinations from some Lake District mineral localities	521-537
SELF, S., SPARKS, R. S. J., BOOTH, B. & WALKER, G. P. L. The 1973 Heimaey Strombolian Scoria deposit, Iceland	539-548
McCANN, A. M. & KENNEDY, M. J. A probable glacio-marine deposit of Late Ordovician-Early Silurian age from the north central Newfoundland Appalachian Belt	549-564
CORRESPONDENCE	
Certain misconceptions regarding Late Palaeozoic rocks in Tasmania: M. J. CLARKE and J. B. WATERHOUSE	565-567
Tilloids from N.W. Pakistan: S. K. TANDON, V. C. THAKUR & A. K. JAIN and D. R. C. KEMPE	568-569
NOTICE	569
REVIEWS	570-573
PUBLICATIONS RECEIVED	574-576