

THE
GEOLOGICAL MAGAZINE

VOL. LXXXI OF WHOLE SERIES

JANUARY-DECEMBER, 1944

GEOLOGICAL MAGAZINE

with which is incorporated

THE GEOLOGIST

FOUNDED IN 1864 BY THE LATE DR. HENRY WOODWARD, F.R.S.

Edited by

R. H. RASTALL, M.A., Sc.D.

and

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

assisted by

PROFESSOR W. S. BOULTON, D.Sc.	PROFESSOR C. E. TILLEY, Ph.D., F.R.S.
PROFESSOR W. G. FEARNSIDES, M.A., F.R.S.	PROFESSOR W. W. WATTS, Sc.D., LL.D., M.Sc., F.R.S.
SIR THOMAS H. HOLLAND, K.C.S.I., D.Sc., F.R.S.	HENRY WOODS, M.A., F.R.S.
PROFESSOR O. T. JONES, M.A., D.Sc., F.R.S.	SIR A. SMITH WOODWARD, LL.D., F.R.S.

Vol. LXXXI of Whole Series

JANUARY—DECEMBER, 1944

STEPHEN AUSTIN & SONS, LTD
1 FORE STREET, HERTFORD, HERTS

HERTFORD
STEPHEN AUSTIN AND SONS, LTD.

CONTENTS OF VOLUME LXXXI, 1944

No. 1	JANUARY—FEBRUARY	PAGE
RHONA M. MACLENNAN. Hinge structure in <i>Carbonicola pseudorobusta</i> Trueman and Related Species		1
P. E. KENT. The Age and Tectonic Relationships of East African Volcanic Rocks		15
GUY E. PILGRIM (the late). The Lower Limit of the Pleistocene in Europe and Asia		28
R. H. RASTALL. Rainfall, Rivers, and Erosion		39
R. G. S. HUDSON. On the Carboniferous Corals <i>Zaphrentes shumnerensis</i> sp. nov.		45
REVIEWS.—A Preliminary Note on Melilite Nephelite Calciphyres and other variants formed from the Gabbro-Limestone Reactions near Nanjangud, Mysore, 48 ; Geology of Alberta, 48.		
No. 2	MARCH—APRIL	
SIR ARTHUR SMITH WOODWARD. The Geographical Distribution of Ancestral Man		49
F. R. C. REED. Five New Ordovician Trilobites		58
W. F. WHITTARD and STANLEY SMITH. Unrecorded Inliers of Silurian Rocks near Wickwar, Gloucestershire, with Notes on the Occurrence of a Stromatolite		65
G. F. S. HILLS. The Roots of Mountains		77
J. G. C. ANDERSON and J. PRINGLE. The Arenig Rocks of Arran, and their Relationship to the Dalradian Series		81
S. R. NOCKOLDS and R. L. MITCHELL. Contributions to the Petrology of Barnavave, Carlingford, I.F.S.—4. Some Limestone Xenoliths enclosed in the Junction Hybrids		88
REVIEW.—Geomorphology : Systematic and Regional, 94.		
No. 3	MAY—JUNE	
E. B. BAILEY. Recent Tectonic Progress in India		97
L. R. COX. On the Jurassic Lamellibranch Genera <i>Hartwellia</i> and <i>Pronoella</i>		100
J. L. BEGG. On the Fringe of <i>Tretaspis</i>		113
ALEXANDER C. NIVEN. Geology in Croatia		118
F. R. C. REED. Notes on the Upper Devonian Trilobites in the Whidborne Collection in the Sedgwick Museum		121
EMLY DIX. On Two Rounded Boulders from an Anthracite Seam, South Wales		127
C. E. TILLEY. A Note on the Gneisses of Rum		129
I. ANDRONOV. New Coal Basins of the U.S.S.R.		132
REVIEWS.—Teach Yourself Geology, 133 ; Fuchsite-bearing Schists from Western Otago, 133 ; Minerals in Industry, 134 ; Peat Deposits of Scotland, 135 ; Geology for Everyman, 136 ; Eruptive Rocks, 137 ; A Geology for Engineers, 139 ; Geology in the Service of Man, 140.		
CORRESPONDENCE.—Tropical Weathering and Landforms : a Correction, 141 ; Restoration of Distorted Specimens, 142 ; Pre-Karoo Stratigraphy of Tanganyika, 143.		
ANNOUNCEMENT.—Palaeontographical Society's Centenary, 120.		

No. 4	JULY–AUGUST	PAGE
G. L. ELLES. The Identification of Graptolites		145
R. H. RASTALL. Palaeozoic, Mesozoic, and Kainozoic: a Geological Disaster		159
F. R. S. HENSON. Stratigraphical Classification and Nomenclature		166
EDWARD GREENLY. The Cambrian Rocks of Arvon		170
G. M. PART. The Vesuvian Lava of the March, 1944, Eruption		176
J. R. EARP. Observations on Upper Silurian Graptolites		181
REVIEWS.—Discovery in Eastern Washington of a New Lobe of the Pleistocene Continental Glacier, 185; Perennially Frozen Ground in Alaska: its Origin and History, 187; The Tin, Tungsten, and Molybdenum Deposits of Australia, 190.		
CORRESPONDENCE.—The Age and Tectonic Relationships of East African Volcanic Rocks, 191.		
No. 5	SEPTEMBER–OCTOBER	
A. FOWLER. A Deep Bore in the Cleveland Hills		193
D. F. W. BADEN-POWELL and the late J. REID MOIR. On the Occurrence of Hesse Boulder Clay at Happisburgh, Norfolk, containing a Flint Core		207
E. S. HILLS and D. E. THOMAS. Deformation of Graptolites and Sandstones in Slates from Victoria, Australia		216
F. M. TROTTER. The Age of the Ore Deposits of the Lake District and of the Alston Block		223
L. F. SPATH. Problems of Ammonite Nomenclature		230
REVIEWS.—Scottish Slates, 235; Prehistoric Britain, 235; Geomorphology: The Evolution of Landscape, 236.		
CORRESPONDENCE.—The Cambrian Rocks of Arvon, 238; Glaciation of Corndon, 238.		
APPEAL.—Caen University Geology Department, 239.		
No. 6	NOVEMBER–DECEMBER	
W. V. LEWIS. Stream Trough Experiments and Terrace Formation		241
A. FOWLER. A Deep Bore in the Cleveland Hills (<i>concluded</i>)		254
JAMES WRIGHT. <i>Rhabdocrinus</i> n.g. from the Scottish Carboniferous Limestone		266
REVIEW.—The Ice Age in West China, 272.		
CORRESPONDENCE.—Upper Silurian Graptolite Zones, 275; The Tredington "Ichthyosaur", 277.		
APPEAL.—Inter-Allied Book Centre, 278.		
INDEX.—279.		