

THE
GEOLOGICAL MAGAZINE.

VOL. LXXIV OF WHOLE SERIES.

JANUARY—DECEMBER, 1937.

THE
GEOLOGICAL MAGAZINE

OR

Monthly Journal of Geology.

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, A.R.C.S., Sc.D.

ASSISTED BY

PROFESSOR W. S. BOULTON, D.Sc.

PROFESSOR W. G. FEARNSIDES, M.A., F.R.S.

SIR T. H. HOLLAND, K.C.S.I., D.Sc., F.R.S.

PROFESSOR O. T. JONES, M.A., D.Sc., F.R.S.

PROFESSOR C. E. TILLEY, Ph.D.

PROFESSOR W. W. WATTS, Sc.D., LL.D., M.Sc., F.R.S.

HENRY WOODS, M.A., F.R.S.

SIR ARTHUR SMITH WOODWARD, LL.D., F.R.S.

VOL. LXXIV OF WHOLE SERIES.

JANUARY—DECEMBER, 1937.

LONDON:

DULAU & CO., LTD.,

29 DOVER STREET, W.1.

1937.

HERTFORD
STEPHEN AUSTIN AND SONS, LTD.

CONTENTS OF VOLUME LXXIV, 1937

No. 871.	JANUARY.	PAGE
I. COX. Arctic and Some Other Species of <i>Streptelasma</i> (Plates I and II)		1
D. BALSILLIE. Further Observations on the Ballantrae Igneous Complex, South Ayrshire		20
J. K. S. ST. JOSEPH. On <i>Camarotoechia borealis</i> (von Buch, 1834, ex Schlotheim, 1832)		33

ANNOUNCEMENT.—Clough Memorial Fund, 48.

No. 872.	FEBRUARY.	
F. DIXEY. Early Cretaceous and Miocene Penepains of Nyasaland		49
G. S. BLAKE. Old Shore Lines of Palestine		68
L. R. COX. A Freshwater Shale with <i>Viviparus</i> from Johore (Plate III)		78
K. HARRISON. Age of the Norwich Brickearth		81
P. R. THOMPSON. Compression and Stretching of Continental Layers (Plate IV)		84
W. J. ARKELL. The Ballard Down and Ridgeway Faults		86
S. SMITH and G. R. WILLAN. Geology of the Bristol Channel Islands		91

REVIEWS.—The Lindgren Volume, 92; Geology of Ancient Platforms, 93; Geology of the Tampico Region, 94; Carboniferous Limestone of the Avon Gorge, 95.

CORRESPONDENCE.—W. Pulfrey, 96.

ANNOUNCEMENTS.—96.

No. 873.	MARCH.	
H. J. HARRINGTON. Some Ordovician Fossils from Northern Argentina (Plates V–VII)		97
S. R. NOCKOLDS. Contributions to the Petrology of Barnavave, 2		125
S. TING. Shore-forms of South-Western Scotland		132

REVIEW.—Engineering Geology, 142.

REPORTS AND PROCEEDINGS.—Mineralogical Society, 142; Geological Society, 143.

CORRESPONDENCE.—E. I. White, 144; Edward Greenly, 144.

No. 874.	APRIL.	PAGE
D. HILL. Palaeozoic Corals from New South Wales . . .		145
P. E. KENT. The Melton Mowbray Anticline . . .		154
J. K. S. ST. JOSEPH. On <i>Rhynchotreta cuneata</i> , with a diagnosis of <i>Rhynchotreta</i> Hall . . .		161
PH. H. KUENEN. Intrusion of Cone-Sheets (Plates VIII and IX)		177
J. A. MOY-THOMAS. On <i>Eucenturus paradoxus</i> . . .		183

REVIEW.—Schistose Formations of Peninsular India, 185.

REPORTS AND PROCEEDINGS.—Mineralogical Society, 187.

CORRESPONDENCE.—J. G. C. Anderson, 188; A. Holmes, 189; M. Stewart, 192.

No. 875.	MAY.	PAGE
H. H. SIMPSON. <i>Anthraconauta calcifera</i> in the Coal Measures of Denbighshire . . .		193
A. D. COMBE. The Katunga Volcano, South-West Uganda . . .		195
A. HOLMES. The Petrology of Katungite (Plate X) . . .		200
J. D. H. WISEMAN and R. B. S. SEWELL. The Floor of the Arabian Sea (Plate XI) . . .		219

REVIEWS.—Structure of Mountain Ranges, 230; Schistose Formations of Peninsular India, 232; Morphology and Palaeontology, 237; Pleistocene Fauna of Magdalena Bay, 237; American Cordilleras, 238.

REPORTS AND PROCEEDINGS.—Mineralogical Society, 239.

CORRESPONDENCE.—R. M. Brydone, 240.

No. 876.	JUNE.	PAGE
A. J. BUTLER. Silurian and Cambrian Rocks encountered in a Deep Boring at Walsall . . .		241
J. B. SCRIVENOR. Note on "Buchanan's Laterite" . . .		257
S. J. SHAND. Rocks of the Kenya Rift Valley . . .		262
R. J. A. W. LEVER. Geology of the British Solomon Islands . . .		271
L. F. SPATH. Nomenclature of Some Lower Chalk Ammonites . . .		277
F. SMITHSON. Outgrowths on Zircon . . .		281

REVIEWS.—International Congress of Mines, 283; Petrology of the Igneous Rocks, 284; The Quaternary Ice Age, 285.

CORRESPONDENCE.—Errol I. White and J. A. Moy-Thomas, 286; S. J. Shand, 287; A. K. Wells, 287.

No. 877.	JULY.	PAGE
C. I. GARDINER and S. H. REYNOLDS. The Cairnsmore of Fleet Granite . . .		289
C. E. TILLEY. Anthophyllite-Cordierite-Granulites of the Lizard . . .		300
I. ROGERS and B. SIMPSON. The Flint Gravel Deposit of Orleigh Court, N. Devon . . .		309

	PAGE
C. DAVISON. The Distribution of Deep-focus Earthquakes	316
R. WALLS. Boudinage-structure from Scotland	325
REVIEWS.—Theory of Earthquakes, 332; Schistosity in New Zealand, 333; Earthquakes, 334; Foraminifera of Victoria, 335; Stratigraphy of Tanganyika, 335.	
CORRESPONDENCE.—D. Balsillie, 336.	

No. 878.

AUGUST.

C. T. TRECHMANN. The Base and Top of the Coral Rock in Barbados (Plate XII)	337
W. A. DEER. Note on a Pegmatitic Hornblende from the Carsphairn Complex	359
W. A. DEER. The Marginal Rocks of the Cairnsmore of Carsphairn Complex	361
E. ST. J. BURTON. The Origin of Lulworth Cove, Dorset	377
REVIEW.—The Shonkin Sag Laccolith, 383.	
CORRESPONDENCE.—F. Walker, 383.	

No. 879.

SEPTEMBER.

J. WRIGHT. Scottish Carboniferous Crinoids (Plates XIII–XVI)	385
E. I. WHITE. The Fishes of the “Crangopsis Bed” at Ardross, Fifeshire	411
REVIEWS.—Distribution of Chemical Elements in Minerals and Rocks, 428; Mineral Resources of South Africa, 429; The Hypothesis of the Ice Age, 429.	
CORRESPONDENCE.—E. J. Wayland, 430; W. J. Arkell, 431; R. G. Lewis, 431.	

No. 880.

OCTOBER.

HENRY PAUL. The Pilton Beds of North Devon	433
D. W. BISHOPP. The Formation of Laterite	442
W. J. ARKELL. The Zonal Position of the Elsworth Rock	445
J. G. C. ANDERSON. Intrusions of the Glen Falloch Area	458
W. H. REEVE. Sandstone “Dykes” near Dodoma	468
CORRESPONDENCE.—D. L. Reynolds, 476; S. Melmore, 477; H. H. Bemrose, 478; R. Wright Barker, 478; E. Greenly, 480.	

No. 881.

NOVEMBER.

G. L. ELLES. The Classification of the Ordovician Rocks	481
C. A. MATLEY. The Age of the Jamaica Granodiorite	495
T. S. WESTOLL. A Specimen of <i>Eusthenopteron</i> from Scotland	507
REVIEWS.—Permanence of Ocean Basins, 524; Field Tests for Minerals, 524; Gold Deposits of the World, 525.	
REPORTS AND PROCEEDINGS.—Mineralogical Society, 525.	
CORRESPONDENCE.—R. M. Brydone, 527; F. Gossling, 527.	

No. 882.	DECEMBER.	PAGE
C. DAVISON. Founders of Seismology, IV.		529
F. W. SHOTTON. Lower Bunter Sandstones of Worcestershire and Shropshire		534

REVIEWS.—Silicate Analysis, 554; Petrography of Igneous Rocks, 554;
Gosforth District, 555; Phylogeny of *Peltoceras*, 556; *Peltoceras*
athleta Zone in France, 557; Geological Survey Centenary, 558.

CORRESPONDENCE.—L. F. Spath, 561; C. T. Trechmann, 561.

INDEX.—563.