

THE
GEOLOGICAL MAGAZINE.

VOL. LXXII OF WHOLE SERIES.

JANUARY—DECEMBER, 1935.

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

AND

O. M. B. BULMAN.

ASSISTED BY

PROFESSOR W. S. BOULTON, D.Sc.

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 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. LXXII OF WHOLE SERIES.

JANUARY--DECEMBER, 1935.

LONDON:

DULAU & CO., LTD.,

2 STAFFORD STREET, OLD BOND STREET, W.1.

1935.

HERTFORD
STEPHEN AUSTIN AND SONS, LTD.

CONTENTS OF VOLUME LXXII, 1935.

No. 847.	JANUARY.	PAGE
F. J. TURNER and C. O. HUTTON. Stilpnomelane and Related Minerals in Western Otago		1
W. F. HUME, H. F. HARWOOD, and L. S. THEOBALD. Analyses of Egyptian Rocks (with petrographical notes by A. I. Awad)		8
F. R. C. REED. Triassic Lamellibranchs from Brazil and Paraguay		33
E. S. COBBOLD. A Middle Cambrian <i>Hyalithellus</i> from Comley		43
REVIEWS.—Geology of the Country between Springs and Bethal, 45; Crystals and the Polarizing Microscope, 45; Leeds Geological Association, 46; Useful Aspects of Geology, 46; Minerals of the French Colonies, 47; Geological Model of Ardnamurchan, 47.		
CORRESPONDENCE.—S. E. Hollingworth, 48.		

No. 848.	FEBRUARY.	
F. WALKER and C. F. DAVIDSON. Marginal and Contact Phenomena of the Dorback Granite		49
R. G. LEWIS. Influence of Earth Movements on Climate		64
J. G. C. ANDERSON. The Dalradian Succession in the Pass of Brander, Argyll		74
S. ELDER. Comparison of Three Scottish Magmas		80
S. J. SHAND. An Olivine-Trachyte from Auvergne		86
J. P. T. BURCHELL. Glacial Episode of the Lower Thames		90
F. JONES. The Occurrence of Markfieldite at Nuneaton		91
REVIEWS.—Geology of Uganda, 93; Chromite Deposits of Newfoundland, 94.		
REPORTS AND PROCEEDINGS.—Geological Society, 94; Mineralogical Society, 95.		
CORRESPONDENCE.—P. Jessop, 96.		

No. 849.	MARCH.	
G. A. JOPLIN. A Diorite-Limestone Reaction at Ben Bullen, N.S.W.		97
A. J. BUTLER. On the Silurian Coral <i>Cyathaxonia siluriensis</i> M'Coy		116
R. H. RASTALL and J. E. HEMINGWAY. The Petrography of the Blea Wyke Series		125
E. J. DUNN. Australites		139
G. S. BLAKE. On the Occurrence of Marine Miocene in Palestine		140
REVIEWS.—Geology of the Baltic, 142; Geologic Structures, 142.		
CORRESPONDENCE.—E. W. Berry, 143; E. S. Cobbold, 144.		

Contents.

No. 850.	APRIL.	PAGE
SELWYN TURNER. Gotlandian Vulcanicity in Western Europe		145
B. BAILEY. The Glencoul Nappe		151
H. SIMPSON. Marine Band in the Denbighshire Coalfield		165
T. TRECHMANN. Fossils from the Northern Range of Trinidad		166
D. THOMAS. Some Sponges and a Coral from Trinidad		175
HANSON-LOWE. The Clinographic Curve		180
F. SPATH. <i>Trigonia</i> from the Jurassic Rocks of Kachh		184
VIEWS.—Geology of Libya, 189; Stegocephalians and Primitive Reptiles, 190.		
REPORTS AND PROCEEDINGS.—Mineralogical Society, 191.		
RESPONDENCE.—S. H. Houghton, 192.		
No. 851.	MAY.	
WRIGHT. New Crinoids from Caplow Knoll, Clitheroe, with lists of Carboniferous Limestone Crinoid Species		193
A. MOY-THOMAS. Coelacanth Fishes from Madagascar		213
A. JOPLIN. Origin of Basic Xenoliths in Plutonic Rocks		227
VIEWS.—The Geology of Burma, 235; Mineral Resources of Burma, 237; The End of the Palaeolithic, 238.		
RESPONDENCE.—L. C. W. Bonacina, 240.		
No. 852.	JUNE.	
WOOD. The Origin of Guilielmites		241
J. ARKELL. Lower Kimeridgian Ammonites		246
HARRISON. The March-Nar Sea		257
G. C. ANDERSON. The Arrochar Complex		263
VIEWS.—Gemstones, 283; The Ice Age, 283; Geology of Africa, 285; The Sudbury Nickel Irruptive, 285; Glacial Geology of E. Yorks, 287.		
RESPONDENCE.—E. Greenly, 287; F. E. Suess, 288.		
No. 853.	JULY.	
R. NOCKOLDS. Contributions to the Petrology of Barnavave, Carlvingford		289
K. S. ST. JOSEPH. Description of <i>Eospirifer radiatus</i> (J. de C. Sowerby)		316
P. T. BURCHELL. Pleistocene Deposits at Kirmington and Crayford		327
VIEWS.—Petrography of Igneous Rocks, 332; Earthquakes and Mountains, 332.		
REPORTS AND PROCEEDINGS.—Mineralogical Society, 333.		
RESPONDENCE.—W. C. Simmons, 335; J. Fowler, 335; G. Vibert Douglas and J. E. Forster, 336.		

Contents.

vii

No. 854.	AUGUST.	PAGE
W. H. BARRETT. Mechanical Composition of the Tertiaries near Harrow		337
J. T. STARK and F. F. BARNES. Correlation of Granite by Heavy Mineral Analyses		341
F. E. ZEUNER. The Pleistocene Chronology of Central Europe		350
P. R. THOMPSON. Thermal Contraction, Land Bridges, and Geosynclines		377
REVIEW.—Geology of the Orkneys, 381.		
CORRESPONDENCE.—C. N. Fenner, 381; S. J. Shand, 382; A. W. Woodland, 384.		

No. 855.	SEPTEMBER.	
G. A. JOPLIN. The Exogenous Contact-zone at Ben Bullen, N.S.W.		385
J. K. S. ST. JOSEPH. Critical Examination of <i>Stricklandia lirata</i> (J. de C. Sow.) <i>forma typica</i>		401
H. DIGHTON THOMAS. <i>Tricycloseris</i> , <i>Anabacia</i> , and some new Genera of Hexacoralla		424
REVIEW.—Roman Mines in Europe, 430.		
CORRESPONDENCE.—R. G. Lewis, 431; Geological Survey Centenary, 432.		

No. 856.	OCTOBER.	
S. V. SEMICHATOV. The Middle Carboniferous of Russia		433
C. W. WRIGHT. The Chalk Rock Fauna in East Yorkshire		441
J. A. STEERS. Rate of Sedimentation on a Salt Marsh		443
J. A. MOY-THOMAS and T. S. WESTOLL. On <i>Coelacanthus granulatus</i> Ag.		446
J. SELWYN TURNER. Dinantian and Namurian Vulcanicity		458
S. C. A. HOLMES. The Periproctal Plates of <i>Discoidea</i>		470
REVIEWS.—Problems of Petroleum Geology, 479; Mineral Resources of French Colonies, 480.		

No. 857.	NOVEMBER.	
D. HILL. British Terminology for Rugose Corals		481
E. M. KINDLE. Lime-separating Algae from Subarctic Canada		519
F. E. S. CALDWELL. A Simple Method of taking Serial Sections.		521
REVIEWS.—British Regional Geology, 523; Petrology for Students, 526; The Dorset Coast, 527.		
CORRESPONDENCE.—T. S. Westoll, 528.		

No. 858.	DECEMBER.	PAGE
C. T. TRECHMANN. The Geology and Fossils of Carriacou, West Indies		529
E. DIX. Flora of the Highest "Coal Measures" of Warwickshire		555
REVIEWS.—Introduction to Palaeontology, 558; Swedish Liasso-Rhaetic Floras, 558; Structural Geology, 560; Brunner Focal Chart, 560.		
REPORTS AND PROCEEDINGS.—Mineralogical Society, 561.		
ANNOUNCEMENTS.—562.		
INDEX.—563.		