

THE
GEOLOGICAL MAGAZINE.

VOL. LXIX OF WHOLE SERIES.

JANUARY—DECEMBER, 1892.

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., M.INST.M.M.,

FELLOW OF CHRIST'S COLLEGE AND
UNIVERSITY LECTURER IN MINERALOGY AND PETROLOGY, CAMBRIDGE.

ASSISTED BY

PROFESSOR W. S. BOULTON, D.Sc.

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

PROFESSOR J. E. MARR, Sc.D., 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. LXIX OF WHOLE SERIES.

JANUARY - DECEMBER, 1932.

LONDON:

DULAU & CO., LTD., 32 OLD BOND STREET, W.1.

1932.

HERTFORD

STEPHEN AUSTIN AND SONS, LTD.

CONTENTS OF VOLUME LXIX, 1932.

No. 811	JANUARY	
K. S. SANDFORD.	Some Recent Contributions to the Pleistocene Succession in England	1
A. M. MACGREGOR.	Batholiths of Southern Rhodesia	18
F. L. KITCHIN and J. PRINGLE.	The Stratigraphical Relations of the Red Rock at Hunstanton	29
REVIEWS.—Eocene Vertebrates, 41; E. D. Cope, 42; The Permian System, 43.		
CORRESPONDENCE.—W. J. Arkell, 44; R. A. Baldry, 45; A. E. Trueman, 46; E. H. Davison, 47.		
A Geological Conference at Kigoma, 47.		
No. 812	FEBRUARY	
W. J. McCALLIEN.	The Cainozoic Igneous Rocks of Kintyre	49
G. D. OSBORNE.	Custerite and Monticellite in the Carlingford District	61
W. A. MACFADYEN.	On the Zebayir Islands, Red Sea	63
T. ICHIMURA.	A Teschenite from Formosa	67
A. J. BULL.	The Pattern of a Contracting Earth	73
E. H. DAVISON.	The Age of the Lundy Granite	76
A. E. MOURANT.	Orbicular Rocks in the Channel Islands	77
J. REID MOIR.	The Pleistocene Succession in England	83
REVIEWS.—Fossil Plants from Greenland, 85; Igneous Rocks in New South Wales, 86; Migration, 87; The Rocks of Traversella, 88; The Geology of Argentina, 88; The Geology of Dutch Guiana, 91; Minerals in Industry, 91; The <i>Summary of Progress</i> , 92; The Geology of Whitehaven, 93.		
CORRESPONDENCE.—E. B. Bailey, 95.		
Petrological Classification, 96.		
No. 813	MARCH	
BAILEY WILLIS and L. PICARD.	The Jordan Valley and Judean Highlands	97
D. BALSILLIE.	The Ballantrae Igneous Complex, S. Ayrshire	107
R. H. RASTALL.	The Hunstanton Red Rock	131
W. J. McCALLIEN.	Note on a Composite Lava from Kintyre	135
REVIEWS.—Alpine Orogenesis, 138; Determinative Mineralogy, 140; Optical Mineralogy, 141; The Baltic Region, 141.		
CORRESPONDENCE.—G. W. Tyrrell, 142; H. C. Boydell, 142; E. Greenly, 142; P. G. H. Boswell, 143; G. Slater, 143.		

No. 814	APRIL	
E. S. HILLS.	The Geology of Marysville, Victoria	PAGE 145
C. T. TRECHMANN.	The Permian Shell-Limestone Reef beneath Hartlepool	166
J. E. MARR and W. B. R. KING.	Further Notes on the Huntingdon Road Gravels	175
M. STEWART.	Notes on the Geology of North Rona	179
REVIEWS.—Primeval Monsters, 186; Pontian Carnivora, 186; Oceanography, 187; Mineral Tables, 188; Kaolin Minerals, 188; China Clay, 189; Dalradian Geology, 190.		
CORRESPONDENCE.—K. S. Sandford, 191.		
No. 815	MAY	
F. J. RICHARDS, L. A. CAMMIADE, and M. C. BURKITT.	Climatic Changes in S.E. India during Early Palaeolithic Times	193
F. R. COWPER REED.	Notes on two Species of the genus <i>Ampyx</i>	205
G. D. OSBORNE.	The Metamorphosed Limestones of the Carlingford District, Co. Louth	209
R. H. RASTALL.	A Bibliography of the Tectonics of England and Wales	233
REVIEW.—The Microscopic Determination of Ore Minerals, 237.		
REPORTS AND PROCEEDINGS.—Edinburgh Geological Society, 239.		
CORRESPONDENCE.—I. Hawkes, 240.		
No. 816	JUNE	
C. T. TRECHMANN.	Notes on Brimstone Hill, St. Kitts. Petrology by T. S. WESTOLL	241
A. T. J. DOLLAR.	Age-Problems of the Lundy Island Granites	265
W. J. McCALLIEN.	The Sub-Bothnian Unconformity (Finland)	268
I. HAYASAKA.	An Astraeiform Coral from Central Japan	273
E. DIX and S. H. JONES.	A Note on an Arthropod from the South Wales Coalfield	275
R. WRIGHT BARKER.	Three Species of Larger Tertiary Foraminifera from S.W. Ecuador	277
REVIEWS.—The Geology of Manchester, 282; Geological Map of the British Isles, 283.		
CORRESPONDENCE.—A. A. Fitch, 283; G. Sheppard and G. H. S. Bushnell, 284; B. R. Ross and S. W. Wooldridge, 286.		
REPORTS AND PROCEEDINGS.—Mineralogical Society, 288.		
ANNOUNCEMENTS AND INQUIRIES.—Variation of American Glaciers, 288.		

No. 817

JULY

	PAGE
H. C. RICHARDS and W. H. BRYAN. Algal Limestones from Gigoomgan, Queensland	289
R. WRIGHT BARKER. Larger Foraminifera from the Eocene of Santa Elena Peninsula, Ecuador	302
Z. SUJKOWSKI. The Influence of the Desert on the Deposits of the Red Sea	311
J. D. SOLOMON. On the Heavy Mineral Assemblages of the Great Chalky Boulder-clay and Cannon-shot Gravels of East Anglia	314
F. A. LEA. The Gault at Compton, Surrey	320
H. JEFFREYS. Elastic Instability and Geology	321
L. RAMA RAO. Recent Discoveries of Dinosaurs in India .	324
J. PARKINSON. The Gneiss of the Ufipa Plateau, Tanganyika	326
T. THOMSON FLYNN. A New Species of Fossil Cetacean from Tasmania	327

REVIEWS.—*Spirula*, 329; The Evolution of *Spirifer*, 332; Theoretical Seismology, 333; Geology of Brampton, 334.

CORRESPONDENCE.—K. W. Earle, 335; J. F. Kirkaldy, 336.

The late Professor J. W. Gregory, 336.

No. 818

AUGUST

JAMES WRIGHT. The Scottish Species of <i>Allagecrinus</i>	337
C. A. MATLEY. The Old Basement of Barbados	366
F. M. TROTTER and S. E. HOLLINGWORTH. The Glacial Sequence in the North of England	374

REVIEWS.—The Unstable Earth, 381; The Grand Coulée, 382; Canyon Country, 383.

CORRESPONDENCE.—H. Jeffreys, 383.

NOTICE TO CONTRIBUTORS.—384.

No. 819

SEPTEMBER

Presentation to Professor A. HUTCHINSON, F.R.S.	385
ELINOR W. GARDNER. Some Problems of the Pleistocene Hydrography of the Kharga Oasis, Egypt	386
B. SIMPSON. Note on the Petrology of the Drybrook Sandstone of the Forest of Dean	421
K. C. DUNHAM. Quartz-Dolerite Pebbles in the Upper Brockram	425

REVIEWS.—American Littoral Foraminifera, 428; A Geological Dictionary, 428.

REPORTS AND PROCEEDINGS.—Mineralogical Society, 429.

CORRESPONDENCE.—C. T. Trechmann, 430; F. E. Suess, 431.

No. 820	OCTOBER	PAGE
S. R. NOCKOLDS. The Contaminated Granite of Bibette Head, Alderney	433	
C. F. DAVIDSON. The Geology of Moncreiffe Hill, Perthshire	452	
F. SMITHSON. The Petrography of the Northern Portion of the Leinster Granite	465	
E. ST. J. BURTON. A Peneplain and Re-excavated Valley Floors in Dorsetshire	474	
 REVIEWS.—Geological Map of Australia, 477; A Text-book of Petrology, 479; Genesis of the Diamond, 479. The late Dr. F. H. Hatch, 480.		
No. 821	NOVEMBER	
W. A. MACFADYEN. Foraminifera from some Late Pliocene and Glacial Deposits in East Anglia	481	
A. W. GROVES. Petrology and the Western Rift of Central Africa	497	
F. R. COWPER REED. New Miocene Faunas from Cyprus	511	
J. PARKINSON. A Preliminary Note on the Buramo Schists, British Somaliland	517	
G. W. TYRRELL. The Petrography of some Kainozoic Igneous Rocks, and of the Cape Parry Alkaline Complex, East Greenland	520	
 REVIEW.—Minerals in Industry, 528.		
No. 822	DECEMBER	
J. U. TODD and R. WRIGHT BARKER. Tertiary Orbitoids from North-Western Peru	529	
ARTHUR HOLMES. The Origin of Igneous Rocks	543	
 REVIEWS.—A Text Book of Mineralogy, 558; Bauxite and Aluminous Laterite, 559. CORRESPONDENCE.—S. J. Shand, 561.		
 INDEX.—563.		