

THE  
GEOLOGICAL MAGAZINE.

NEW SERIES.

DECADE VI. VOL. V.

JANUARY—DECEMBER, 1918.

THE  
GEOLOGICAL MAGAZINE

OR

Monthly Journal of Geology.

WITH WHICH IS INCORPORATED

THE GEOLOGIST.

NOS. DCXLIII TO DCLIV.

GEOLOGY DEPARTMENT,

BIRKBECK COLLEGE,  
EDITED BY

HENRY WOODWARD, LL.D., F.R.S., F.G.S., F.R.M.S.

LATE OF THE BRITISH MUSEUM OF NATURAL HISTORY; PRESIDENT OF THE  
PALAEONTOGRAPHICAL SOCIETY; ETC.

ASSISTED BY

PROFESSOR J. W. GREGORY, D.Sc., F.R.S., F.G.S.

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

PROFESSOR J. E. MARR, M.A., Sc.D. (Camb.), F.R.S., F.G.S.

SIR JETHRO TEALL, M.A., Sc.D. (Camb.), LL.D., F.R.S., V.P.G.S.

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

DR. ARTHUR SMITH WOODWARD, LL.D., F.R.S., F.L.S.,  
F.G.S.

NEW SERIES. DECADE VI. VOL. V.

JANUARY—DECEMBER, 1918.

LONDON:

DULAU & CO., LTD., 37 SOHO SQUARE, W. 1.

1918.

# LIST OF ILLUSTRATIONS IN THE TEXT.

	PAGE
Diagrams of perignathic girdle in <i>Plesiechinus</i> , etc. . . . .	7
Diagram showing lines of mechanical stress productive of <i>Eocystis plan</i> of plate . . . . .	52
Diagram map of S.W. Lincolnshire, showing position of exposures . . . . .	64
Hydraulic limestones of Owthorpe and Cotgrave Gorse . . . . .	70
Transition bed and Middle Lias of Lincoln . . . . .	105
Middle and Upper Lias of Yorkshire, Lincolnshire, and Northamptonshire . . . . .	109
Diagram of Northampton Sands and Upper Lias . . . . .	110
Sections of Newark District, Nottinghamshire . . . . .	122
Profile of land surface near Tregarth . . . . .	150
"Pliocene" plateau near Bangor . . . . .	154
Shell-fragments described as Cirripede valves . . . . .	170
Drawing of deer from cavern of La Peña . . . . .	173
George Jennings Hinde, F.R.S. . . . .	236
Map of Leicestershire dolomites . . . . .	252
<i>Bouchardia minima</i> , Thomson . . . . .	260
<i>Phreatoicus australis</i> , Chilton . . . . .	278
<i>Phreatoicus wianamattensis</i> , Chilton . . . . .	279
Map of part of the London Basin . . . . .	298
Map showing contours of Sub-Eocene and Sub-Pliocene Chalk . . . . .	302
Section across part of the London Basin . . . . .	304
Map of principal "dry" lakes, Western Australia . . . . .	307
Locality map of southern portion of Western Australia . . . . .	310
"Downend Chalk Pit" on Gallows Hill, Isle of Wight . . . . .	353
William Lower Carter, M.A., F.G.S. . . . .	383
Map of Western Australia . . . . .	386
Sketch-section of the Darling Range, Western Australia . . . . .	391
Sketch-map of Lenham Bed, Diestien Sands, Louvain . . . . .	411
Map showing Chalk surface contours, East Anglia . . . . .	414
Calcite cleavage . . . . .	424
Crustacean tracks in New Zealand Tertiaries . . . . .	425
<i>Anthracomya arenacea</i> , Dawson . . . . .	465
<i>Euproops Amie</i> , H. Woodw., sp. nov. . . . .	466
Head-shields of <i>Euproops Amie</i> , H. Woodw. . . . .	467
<i>Bellinurus Trechmanni</i> , H. Woodw., sp. nov. . . . .	471
Section of nodule showing plant-tissues . . . . .	472
Yunnan Cystidea . . . . .	508, 509, 534, 535
<i>Hyæna salonica</i> , n.sp. . . . .	541
Map showing mineral resources of Australia . . . . .	545

## LIST OF PLATES.

PLATE	FACING PAGE
I. Chalk Polyzoa . . . . .	4
II. Interior of Peristome in <i>Conulopsis</i> , <i>Echinocorys</i> , and <i>Echinocardium</i> . . . . .	14
III. Casts of Shells from the Suffolk Boxstones . . . . .	20
IV. " " " " . . . . .	21
V. <i>Eocystis primæva</i> , Hartt . . . . .	56
VI. Chalk Polyzoa . . . . .	100
VII. Land-forms, Carnarvonshire . . . . .	157
VIII. Tertiary Foraminifera, New Guinea . . . . .	211
IX. " " " " . . . . .	212
X. George J. Hinde, F.R.S. . . . .	233
XI. Leicestershire Dolomites . . . . .	258
XII. G. W. Lamplugh, F.R.S. . . . .	337
XIII. Leaves of <i>Noeggerathiopsis</i> . . . . .	292
XIV. Great Erratic of Andesite, New Zealand . . . . .	397
XV. E. A. Newell Arber, M.A., Sc.D. . . . .	426
XVI. British Carboniferous Goniatites . . . . .	450
XVII. Post-Larval Stages in Irregular Echinoidea . . . . .	500
XVIII. Basic Intrusions in Radnorshire . . . . .	502
XIX. Diabase intruded into Llandovery Limestone . . . . .	504