

GEOLOGY DEPARTMENT,  
BIRKBECK COLLEGE, E.C.4  
THE

# GEOLOGICAL MAGAZINE,

or *Monthly Journal of Geology* :

WITH WHICH IS INCORPORATED

'*THE GEOLOGIST*.'

NOS. VII. TO XII.

EDITED BY

T. RUPERT JONES, F.G.S.

COR. ACAD. NAT. SC. PHILAD., IMP. GEOL. INST. VIENNA, ETC. ETC.  
PROFESSOR OF GEOLOGY ETC. IN THE ROYAL MILITARY COLLEGE, SANDHURST.

*Assisted by*

HENRY WOODWARD, F.G.S. F.Z.S.

NOS. XIII. TO XVIII.

EDITED BY

HENRY WOODWARD, F.G.S. F.Z.S.

*Assisted by*

PROFESSOR JOHN MORRIS, F.G.S. &c. &c.

AND

ROBERT ETHERIDGE, F.R.S.E. F.G.S. &c.

VOL. II.

JANUARY—DECEMBER 1865.

LONDON :

LONGMANS, GREEN, & CO.

PARIS: J. ROTHSCHILD, 14 RUE DE BUCI.

LEIPSIC: LUDWIG DENICKE. NEW YORK: WILLMER & ROGERS.

1865.

LONDON

PRINTED BY SPOTTISWOODE AND Co.

NEW-STREET SQUARE

## LIST OF PLATES.

PLATES	PAGE
I. II. Anthrakerpeton, Coal, South Wales . . . . .	8
III. Palæocetus, Boulder-clay . . . . .	56
IV. Surface-marks on Carboniferous Sandstone . . . . .	137
V. Woodocrinus, Mountain-limestone . . . . .	163
VI. Alpine Structure . . . . .	193
VII. Sections near Llandudno, North Wales . . . . .	200
VIII. Echinodermata, Mountain-limestone . . . . .	251
IX. Wood in Chalk-flint, Winchester . . . . .	292
X. Mammalia, London Clay . . . . .	341
XI. Crustacean Teeth, Scotland . . . . .	403
XII. Flemingites and Lepidostrobus, Coal-measures . . . . .	440
XIII. Caulopteris, Upper Greensand, Shaftesbury . . . . .	487

## LIST OF WOODCUTS.

Base of tooth of <i>Anthrakerpeton</i> . . . . .	6
Cranial bone of <i>Anthrakerpeton</i> . . . . .	7
<i>Actinocrinus brevicalic</i> . . . . .	12
Section of strata near Ryde, Isle of Wight . . . . .	46
Sections of Mont Salève . . . . .	52
Diagram of Upheaved Beds . . . . .	53
Diagram across the London Basin . . . . .	65
Langdale Pikes, seen from Blea Tarn . . . . .	94
Section of a Natural Pit near Lexden, Essex . . . . .	101
Section of the Antwerp Crags . . . . .	105
Section of the Carboniferous Rocks near Oswestry . . . . .	108
Section of the Coal-measures at Kingswood . . . . .	111
Portion of the Jaws of <i>Stereodus Melitensis</i> . . . . .	146
The Idol and Pulpit Rocks.—Brimham rocks . . . . .	156
Section of the Carboniferous rocks of South Wales . . . . .	159
View of the Pennant Rocks . . . . .	159
View of Ebbw Vale . . . . .	160
Section of Kunjamullay . . . . .	173
The common Sand-hopper in its burrow . . . . .	191
Inversion of Cretaceous upon Tertiary Strata near Mentone . . . . .	206
Section of the Natural Pit at Lexden, in 1862 . . . . .	231
Diagram to explain the formation of the Lexden Pit . . . . .	232
Section of the Mountain-limestone at Corwen . . . . .	283

	PAGE
View of Goat Crag, Cumberland . . . . .	301
Detached Blocks in Kirkstone Pass . . . . .	301
The Pillar Rock, Ennerdale . . . . .	305
Sections of the outlier of Carboniferous limestone at Corwen . . . . .	326, 327
Section of the rocks of North Wales . . . . .	344
Section of the Vale of Clwyd . . . . .	380
Sketch of Bray Head, Wicklow . . . . .	389
Section of the Cambrian Rocks at Bray Head . . . . .	390
<i>Oldhamia antiqua</i> , <i>Arenicolites didyma</i> , and surface-tracks . . . . .	391
<i>Oldhamia antiqua</i> , Cambrian, Carrick Mountain . . . . .	394
<i>Oldhamia radiata</i> , showing successive layers . . . . .	395
<i>Histioderma Hibernicum</i> . . . . .	398
Fragment of Rock, grooved and polished by Ice . . . . .	442
<i>Turrilepas Wrightii</i> , Wenlock Shale, Dudley . . . . .	470
Section from Sandy Bay <i>via</i> Hobart to New Norfolk, Tasmania . . . . .	492
Ideal Section of Hobart from Mount Wellington to Derwent River . . . . .	493
Section in the Lightmoor Railway Cutting . . . . .	515
<i>Porana</i> (P) <i>Vectensis</i> and <i>P. Eningensis</i> . . . . .	516
Section near Ely . . . . .	530
Section in the Ely Pit . . . . .	532
Structure of Fruit of Calamite . . . . .	545