

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> (?) <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