GEOLOGY DEPARTMENT, BIRKBECK COLLEGE, E.C.4 GEOLOGICAL MAGAZINE;

OR,

Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

"THE GEOLOGIST."

NOS. LV. TO LXVI.

EDITED BY

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

HONORARY MEMBER OF THE GEOLOGICAL SOCIETIES OF EDINBURGH, GLASGOW, AND NORWICE; CORRESPONDING MEMBER OF THE NATURAL HISTORY SOCIETY OF MONTREAL; AND OF THE LYCEUM OF NATURAL HISTORY, NEW YORK.

ASSISTED BY

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

AND

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

VOL. VI.

JANUARY-DECEMBER, 1869.

LONDON:

TRÜBNER & Co., 8 AND 60, PATERNOSTER ROW. CH. DELEGRAVE ET CIE, 78, BUE DES ECOLES, PARIS. LEIPSIC: F. A. BROCKHAUS. TURIN & FLORENCE: H. LOESCHER. NEW YORK: LEYPOLDT & HOLT

1869.

HERTFORD : Printed by Stephen Austin.

LIST OF PLATES.

PLATES	PAGE
I. II.	Coniferous Fruits, etc., from Secondary Rocks 1
III.	Limb-bones of Trogontherium Cuvieri, Fischer, from the
	Cromer Forest-bed
IV.	Beania gracilis, Carr., Oolitic Shales of Yorkshire. Zamia
	muricata, Willd. Macrozamia spiralis, Miq 97
v.	Flemingites Pedroanus, Carr., Coal M., Brazil 151
VI.	Noeggerathia obovata. Odontopteris Plantiana, Brazil 151
VII.	Jaw of Strophodus from the Oolite of Caen
VIII.	Eucladia Johnsoni, H. Woodw., Upper Silurian, Dudley 241
IX.	Mandibular and Palatal Teeth of Ctenodus, Coal-measures . 314
х.	Æchmodus obicularis, Morris, Lower Lias, Lyme Regis 337
XI.	Lingula monilifera, Linnarsson. Eophyton Linnæanum,
	Torell
XII.	Eophyton Linnæanum, Torrell
XIII.	Eophyton Torelli, Linnarsson
XIV.	Map of the Chesil Bank and the neighbouring coast 433
XV.	View of the Chesil Bank and the "Fleet" or "Backwater" . 433
XVI.	Tooth of Machairodus, found in the Norfolk Forest-bed at
	Cromer
XVII.	Burrows of Mollusca in Carboniferous Limestone, Great
	Ormes Head
XVIII.	Plants from the Skiddaw Slates
XIX.	Mural Agates
X X.	Eophyton ? explanatum, Hicks, Lower Arenig Rocks, St.
	David's

LIST OF WOODCUTS.

Ideal representation of Old Pacific Continent, to illustrate the theory of the gradual subsidence of the land and the formation of Coral-11 Cliff-section seen on the south of Speeton Beck, in September, 1868 . 14 43 . 49, 51 Rough Sketch of Honister Crag, Buttermere Valley. . 56 57 Borrowdale Fells • Lie of the Beds along Eel Crags 58

	PAGE	
Boulder-clay Cliff south of Workington, Cumberland	$\frac{72}{72}$	
Boulder-clay overlying Shell-beds, Rampside, Peel Harbour, Cumberland		
Stratified Beds in the Lower Boulder-clay, from which were obtained		
the remains of Bos primigenius	74	
Section from Portingscale, along the west side of Derwentwater, to		
Castle Crag, in Borrowdale	107	
Natural Section of Beds seen in the Escarpment at the "Serra Partida,"		
	149	
	166	
· · · · · · · · · · · · · · · · · · ·	191	
	207	
Sections of Drift at Hawker's Hill	236	
	294	
Fruits of Equisetum and Calamites	295	
Fruits of Selaginella and Triplospirites		
Section of Gault and Lower Greensand at Lower Fettleworth		
Figures to illustrate enlargement on Crinoidal Columns		
Sketch showing Maum, with an accompanying bank of recent Drift, a		
ravine being seen in the latter		
Section of recent Drift-bank		
Recent Drift banked on a hill-slope below an escarpment	408	
Plan of streams flowing to a shore where there is a current chiefly in		
one direction		
Lepracanthus Colei, Owen, Coal-measures, Ruabon, N. Wales		
Section of supposed burrow of <i>Helix</i> in Carboniferous Limestone		
Sketches of a piece of Cornish hornstone	530	
A portion of felspathic rock, in which two crystals of labradorite are	000	
separated by a crystalline mass of mixed labradorite and hyper-		
stein.	530	
Banded and brecciated agates		
Profile of Terraces on the side of a Chalk Hill near Twyford		
Terraces near Stockbridge		
Terrace and Bank caused by descent of Silt		
Terraces near Llangollen	559	
Peculiar form of variegation in Cambrian Slate		
	010	

-