

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

THE
GEOLOGICAL MAGAZINE:

OR,

Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

“THE GEOLOGIST.”

NOS. CCLIX. TO CCLXX.

EDITED BY

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

OF THE BRITISH MUSEUM OF NATURAL HISTORY;

VICE-PRESIDENT OF THE PALÆONTOGRAPHICAL SOCIETY,

MEMBER OF THE LYCEUM OF NATURAL HISTORY, NEW YORK; AND OF THE AMERICAN PHILOSOPHICAL SOCIETY, PHILADELPHIA; HONORARY MEMBER OF THE YORKSHIRE PHILOSOPHICAL SOCIETY; OF THE GEOLOGISTS' ASSOCIATION, LONDON; OF THE GEOLOGICAL SOCIETIES OF EDINBURGH, GLASGOW, AND NORWICH; CORRESPONDING MEMBER OF THE GEOLOGICAL SOCIETY OF BELGIUM; OF THE IMPERIAL SOCIETY OF NATURAL HISTORY OF MOSCOW; OF THE NATURAL HISTORY SOCIETY OF MONTREAL; AND OF THE MALACOLOGICAL SOCIETY OF BELGIUM.

ASSISTED BY

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

OF THE BRITISH MUSEUM OF NATURAL HISTORY.

WILFRID H. HUDLESTON, M.A., F.R.S., F.G.S.

AND

GEORGE J. HINDE, PH.D., F.G.S., &c.

NEW SERIES. DECADE III. VOL. III.

JANUARY—DECEMBER, 1886.

LONDON:

TRÜBNER & Co., 57 AND 59, LUDGATE HILL.

F. SAVY, 77, BOULEVART ST.-GERMAIN, PARIS.

1886.

HERTFORD:

PRINTED BY STEPHEN AUSTIN AND SONS.

THE
GEOLOGICAL MAGAZINE

NEW SERIES.

DECADE III. VOL. III.

JANUARY — DECEMBER 1886.

LIST OF WOODCUTS.

	PAGE
Part of spine of <i>Edestus Heinrichsii</i> ?	3
Pectoral spine of <i>Aspredo levis</i>	5
,, ,, <i>Doras</i> , sp.	5
,, ,, <i>Pelecopterus</i> , sp.	5
Dorsal spine of <i>Hybodus</i>	5
<i>Didymograptus vacillans</i> , Tullberg	13
<i>Dicellograptus Forchhammeri</i> , Geinitz	13
<i>Dicranograptus ramosus</i> , Hall	13
<i>Pterograptus dilaceratus</i> , sp. nov.	17
<i>Tetragraptus approximatus</i> , Nich.	17
<i>Nichograptus Sedgwickii</i> , Salter	17
,, <i>octobrachiatus</i> , Hall	22
,, <i>Kjerulfi</i> , Herrmann	23
<i>Monograptus multiplex</i> , Nich.	25
Diagram, Talus of Cliff	65
Palatal Teeth of Carboniferous Fishes	150
Reproductive organ of <i>Williamsonia Morieri</i> , Sap.	197
,, ,, <i>Goniolina</i> , after Sap. and Marion	200
Sections of Igneous Rocks of Stanner	221
Pitchstone Vein at Chiaja di Luna, Island of Ponza	246
Tooth of <i>Notidanus gigas</i> , Sismonda	255
,, ,, <i>Meneghinii</i> , Lawley	256
,, <i>Morosaurus</i>	274
,, <i>Seelidosaurus</i>	274
,, <i>Hadrosaurus</i>	274
,, <i>Iguanodon Prestwichi</i>	275
,, <i>Craspedodon lonzeensis</i>	276
Section through North America	287
Section near Honiton, Devonshire	311
Polypylon ? <i>explanatum</i> , Hicks, and <i>Hyalonema mirabile</i> , Gray	338
<i>Loxosmia elongata</i> , Duncan	341
<i>Latopsalis pollux</i>	414
<i>Stilodus mediævus</i>	414
<i>Stethonyx Burnmeisteri</i>	415
<i>Stylopsodus vicarius</i>	416

	PAGE
<i>Anaptomorphus homunculus</i>	416
„ <i>emulus</i>	417
Diagram of <i>Troostocrinus Reinwardi</i>	421
Diagram showing arrangement of Basals in <i>Platyerinus</i>	422
„ to show the position of the ridges of <i>Stephanocrinus angulatus</i>	423
Skeleton of <i>Iguanodon Bernissartensis</i> , Boulanger	429
<i>Periptychus rhabdodon</i>	467
Brain of <i>Phenacodus primævus</i>	468
Skull of <i>Coryphodon elephantopus</i>	470
<i>Loxolophodon cornutus</i>	472
Striated Pebble from the Salt Range	493
<i>Peratherium fugax</i>	513
<i>Enhydrocyon stenocephalus</i>	517
<i>Nimravus gomphodus</i>	518
<i>Pogonodon platycopis</i>	519
Section at New Entrance to Cae Gwynn Cave	569
Section in Cae Gwynn Cave, near New Entrance	570
Section in Cae Gwynn Cave, about 16 ft. from New Entrance	570

LIST OF PLATES.

	PAGE
I. <i>Edestus Davisii</i> , H. Woodw.	1
II. Skeleton of <i>Phenacodus primævus</i> , Cope	49
III. Recent and Fossil Hippopotami	114
IV. Fossil Ostracoda from Colorado	145
V. Monocotyledonous Fruit ?	193
VI. Fossil Notidanidæ	208
VII. Carboniferous Ostracoda	248
VIII. <i>Desmidopora alveolaris</i> , Nicholson	289
IX. <i>Calamites Beanii</i> , Bunbury	342
X. Inferior Oolite Madreporaria	385
XI. Carboniferous Ostracoda	433
XII. Carboniferous Ostracoda	433
XIII. Augen-Gabbro, Karaklews, Lizard, Cornwall	481
XIV. Organisms in Carboniferous Shales, Forest of Dean	529
XV. Ditto ditto ditto	528