

THE
GEOLOGICAL MAGAZINE

NEW SERIES.

DECADE II. VOL. X.

JANUARY—DECEMBER. 1883.



THE
GEOLOGICAL MAGAZINE:

OR,

Monthly Journal of Geology :

WITH WHICH IS INCORPORATED

“THE GEOLOGIST.”

NOS. CCXXIII. TO CCXXXIV.

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 PALEONTOGRAPHICAL 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

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

AND

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

OF THE BRITISH MUSEUM OF NATURAL HISTORY.

NEW SERIES. DECADE II. VOL. X.

JANUARY—DECEMBER, 1883.

LONDON:

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

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

1883.

HERTFORD:
PRINTED BY STEPHEN AUSTIN AND SONS.

LIST OF PLATES.

PLATE	PAGE
I. <i>Dorateuthis Syriaca</i> , H. Woodw., Cretaceous, Lebanon	1
II. <i>Sigillaria Serlii</i> , Brong., Coal-measures, Radstock	49
III. <i>Colymbus septentrionalis</i> , from the "Mundesley River Bed"	97
IV. Cheviot Andesites.	145
V. "The Secret of the Highlands"	193
VI. Kelso "Porphyrite," Stinchill	252
VII. <i>Thylacoleo carnifex</i> , Owen, from Queensland	289
VIII. "The Secret of the Highlands"	333
IX. Restoration of <i>Brontosaurus excelsus</i> , Marsh.	386
X. <i>Hyæna crocuta</i> , var. <i>spelæa</i> , Goldf., Suffolk Forest Bed	433
XI. Carboniferous Trilobites, <i>Phillipsia</i>	448
XII. Carboniferous Trilobites, <i>Griffithides</i>	481
XIII. Carboniferous Trilobites, <i>Brachymetopus</i> , etc.	534
XIV. Portrait of Joachim Barrande	529

LIST OF WOODCUTS.

	PAGE
Section near Amwlch Lodge, Sarn.	66
Walker's Specific Gravity Balance	109
Hull and Barnsley Railway Cutting near Cave, East Yorkshire	219
Section Kelloway Rock, Dewton Cutting	219
Diagram to illustrate the distinction between "Overlap" and "Overstep."	227
Mode of Occurrence of the Cambrian Rocks of North Wales	266
Archæan Rocks	267
Brecciated Granitoid Rocks near Brynygarn, St. Davids	308
Diagram of Divisions near Bentley of "Thick Coal" of Dudley and Bilston	352
Structure of Shell of <i>Chonetes</i> (two woodcuts)	370
Esker Ridges near Crofton Hall, Cumberland	440
Esker Ridges near Blakeney, Norfolk	441
Pygidium of <i>Proetus ? levis</i> , H. Woodw.	446