

THE  
GEOLOGICAL MAGAZINE.

NEW SERIES.

DECADE III. VOL. IX.

JANUARY — DECEMBER 1892.

# Monthly Journal of Geology :

WITH WHICH IS INCORPORATED

## “THE GEOLOGIST.”

NOS. CCCXXXI. TO CCCXLII.

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, HALIFAX, LIVERPOOL, 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.,

WILFRID H. HUDLESTON, M.A., F.R.S., PRÉS.G.S., F.L.S., F.C.S.

AND

GEORGE J. HINDE, PH.D., V.P.G.S., &c.

NEW SERIES. DECADE III. VOL. IX.

JANUARY—DECEMBER, 1892.

LONDON:

KEGAN PAUL, TRENCH, TRÜBNER & Co., LIMITED,  
PATERNOSTER HOUSE, CHARING CROSS ROAD, W.C.

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

1892.

## LIST OF PLATES.

PLATE	PAGE
I. Lower Devonian Fishes of Canada . . . . .	1
II. New Gault Foraminifera . . . . .	49
III. Sections in the Coniston Limestone Series . . . . .	97
IV. Composition and Structure of the Hirnant Limestone . . . . .	114
V. <i>Palæotermes Ellisii</i> , H. Woodward . . . . .	193
VI. Sections of Rocks of South Devon . . . . .	241
VII.     "     "     "     "     " . . . . .	241
VIII.    "    "    "    "    " . . . . .	289
IX. <i>Trematonotus Britannicus</i> , R. B. Newton . . . . .	337
X. Section of Strata at Kharkov, South Russia . . . . .	385
XI. Section from Borki to Glushkovo, Russia . . . . .	385
XII. Australian Fossil Echinoidea . . . . .	433
XIII. Canadian Upper Devonian Fishes . . . . .	481
XIV. <i>Chonetes Prattii</i> (Davidson) Carboniferous Rocks of W. Australia . . . . .	542

## LIST OF WOODCUTS.

	PAGE
1. Microscopic Sections of Micaceous Limestone from the St. Gothard Tunnel . . . . .	16
2. Sections in the Cambrian rocks of Wales . . . . .	23
3. Iguanodont tooth from the "Totternhoe Stone," near Hitchin. . . . .	49
4. <i>Onychodus scoticus</i> , E. T. Newton, sp. nov. . . . .	51
5. William Smith's Monument at Churchill . . . . .	96
6. Outline Map of the English Lake-District . . . . .	98
7. Sections of Flexible Limestone . . . . .	123
8. <i>Discinocaris Dushiana</i> , Novák, sp. nov. . . . .	148
9. <i>Clymenia Neapolitana</i> , Clarke. . . . .	174
10. Major John Plant, F.G.S. . . . .	286
11. Diagram to illustrate Mr. Davison's paper on British Earthquakes of 1891 . . . . .	301
12. Map to illustrate Mr. Hunt's paper on the Devonian Rocks of South Devon . . . . .	344
13. Map of South Russia . . . . .	387
14. Section at North Allington . . . . .	439
15. Spine of <i>Phlyctenaspis acadica</i> . . . . .	482
16. Jaw-plates of <i>Bothriolepis canadensis</i> . . . . .	484
17. Section of Faulted Drift on Sea-cliff, Cumberland . . . . .	490
18. <i>Ichthyosaurus</i> , showing dermal integument . . . . .	517
19. Outline-restoration of <i>Sclerorhynchius atavus</i> , A. S. Woodward . . . . .	531