

THE  
GEOLOGICAL MAGAZINE.

NEW SERIES.

DECADE V. VOL. II.

JANUARY—DECEMBER, 1905.



THE  
GEOLOGICAL MAGAZINE

OR,

Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

“THE GEOLOGIST.”

NOS. CCCCLXXXVII TO CCCCXCVIII.

EDITED BY

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

LATE OF THE BRITISH MUSEUM OF NATURAL HISTORY;  
PRESIDENT OF THE PALÆONTOGRAPHICAL SOCIETY, VICE-PRESIDENT  
OF THE MALACOLOGICAL 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 INSTITUTION OF MINING AND  
METALLURGY, LONDON; OF THE GEOLOGICAL SOCIETIES OF EDINBURGH,  
GLASGOW, HALIFAX, LIVERPOOL, AND SOUTH AFRICA; 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

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

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

AND

HORACE BOLINGBROKE WOODWARD, F.R.S., V.P.G.S., &c.

NEW SERIES. DECADE V. VOL. II.

JANUARY—DECEMBER, 1905.

LONDON:

MESSRS. DULAU & CO., 37, SOHO SQUARE, W.  
1905.

**HERTFORD :**

**PRINTED BY STEPHEN AUSTIN AND SONS, LTD.**

## LIST OF PLATES.

PLATE	FACING PAGE
I. Portrait of William Thomas Blanford, C.I.E., LL.D., F.R.S., V.P.Z.S., Treas. G.S. . . . .	1
II. Triassic <i>Estheriella</i> from the Malay Peninsula . . . . .	52
III. <i>Cyrtoceras (Meloceras) apicale</i> , A. H. Foord . . . . .	62
IV. Trilobites from Haverfordwest . . . . .	104
V. Cephalopods and Trilobites from St. Minver, Cornwall . . . . .	160
VI. <i>Sympterura Minverii</i> , Bather, sp. nov. . . . .	169
VII. The "Cullinan" Diamond, nat. size . . . . .	172
VIII. The "Cullinan" Diamond, nat. size . . . . .	172
IX. Tripiti Cave, West Crete . . . . .	193
X. Men at work in the Upland Basin of Katharo, East Crete . . . . .	202
XI. Section near Wiesbaden . . . . .	229
XII. Skeleton of <i>Potacanthus Foxi</i> , Hulke (restored) . . . . .	243
XIII. Slab of Limestone with remains of Trilobites . . . . .	255
XIV. Forms of <i>Stomatopora</i> . . . . .	265
XV. Skeleton of <i>Streptospondylus</i> , Oxford Clay . . . . .	292
XVI. Tertiary Shells from Mekran Coast . . . . .	298
XVII. Tertiary Shells from Mekran Coast . . . . .	300
XVIII. Radial Jointing in Chalk near Winchester . . . . .	321
XIX. Map of the Baltic and some Baltic Shells . . . . .	352
XX. Intrusive Pyroxenites in Ceylon Granulites . . . . .	367
XXI. Portrait of Prof. John Wesley Judd, C.B., LL.D., F.R.S., F.G.S. . . . .	385
XXII. Westerly Chalk Bluff at Trimmingham . . . . .	400
XXIII. Ordovician Brachiopoda from Haverfordwest . . . . .	453
XXIV. Lamellibranchs from Haverfordwest . . . . .	500
XXV. <i>Diplodocus Carnegiei</i> , Jurassic, Wyoming . . . . .	529

## LIST OF ILLUSTRATIONS IN THE TEXT.

	PAGE
Shell of <i>Nicoria headonensis</i> , Hooley, sp. nov. . . . .	67
Map of Lightning Creek . . . . .	105
Ideal Section of Lightning Creek . . . . .	106
<i>Orthoceras</i> cf. <i>commutatum</i> , C. G. Giebel . . . . .	156
<i>Agoniatites</i> , sp. . . . .	159
Diagrammatic projection of "Cullinan" Diamond . . . . .	170
Block of Granite showing cavity on south and weather side . . . . .	190
Cavity in a block of very coarse Granite . . . . .	191
<i>Hypsilophodon</i> . . . . .	206
<i>Lepidodendron</i> sp. from Dudley . . . . .	209
Area of the Camborne Earth-shake . . . . .	221
Area of the Barnsley Earth-shake . . . . .	223
Diagram of wedge of Mosbach Sands and Gravel . . . . .	229
Dorsal vertebra of <i>Polacanthus</i> , posterior view . . . . .	244
Dorsal vertebra of <i>Struthiosaurus</i> , posterior view . . . . .	244
Proximal caudal of <i>Polacanthus</i> , posterior view . . . . .	245
Middle caudal of <i>Polacanthus</i> , anterior view . . . . .	245
Two of the posterior caudals of <i>Polacanthus</i> , side view . . . . .	246
Pair of dermal caudal plates of <i>Polacanthus</i> , side view . . . . .	248
Anterior dorsal dermal spine of <i>Polacanthus</i> , interior (median) view . . . . .	249
Posterior view of a pair of anterior dorsal dermal spines of <i>Polacanthus</i> . . . . .	250
Pygidium of <i>Drepanura Premesnili</i> , Bergeron . . . . .	253
<i>Olenoides Richthofeni</i> ? (Monke), sp. . . . .	254
Folding Table of Branching <i>Stomatopora</i> . . . . .	261
Diagram to show method of branching in <i>Stomatopora</i> . . . . .	267
<i>Membranipora Lacroixi</i> (V. Audouin) . . . . .	304
<i>Neptunus Arabicus</i> , H. Woodw., sp. nov. . . . .	306
Fossil <i>Balanus</i> from the Mekran Coast . . . . .	310
Map of Coastal Plateau in George and Knysna . . . . .	371
Section from the Zwartebergen to Prince Albert Goldfields . . . . .	378
Section showing position of 'Soapstone Bed' . . . . .	434

	PAGE
<i>Anthropalæmon serratus</i> , H. Woodw., sp. nov., and <i>A. Woodwardi</i> , R. Etheridge, jun. . . . .	439
<i>Euphoberia Brownii</i> , H. Woodw. . . . .	441
<i>Xylobius moniliformis</i> , H. Woodw. . . . .	443
Impression and counterpart of <i>Cyclus Johnsoni</i> . . . . .	491
Five examples of the 'Protaspis' stage of some Trilobites . . . . .	492
Teeth of <i>Arvicola (Tyrhenicola) Henseli</i> . . . . .	505
Head of <i>Ichthyosaurus</i> from Lyme Regis . . . . .	513
Restored figures of Silurian Scorpion from Scotland and Gothland . . . . .	515
<i>Torlessia Mackayi</i> and <i>Dentalium Huttoni</i> . . . . .	537
Biotite Crystals in fossiliferous felsitic rock . . . . .	545
Felspars in felsitic slate . . . . .	547
Remarkable bone from the Suffolk Crag . . . . .	575



*H. T. Blanford*