GEOLOGICAL MAGAZINE.

NEW SERIES.

DECADE IV. VOL. V.

JANUARY — DECEMBER, 1898.

GEOLOGICAL MAGAZINE

OR

Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

"THE GEOLOGIST."

NOS. CCCCIII TO CCCCXIV.

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;

PRESIDENT OF THE PALÆONTOGRAPHICAL SOCIETY,

AND VICE-PRESIDENT OF THE MALACOLOGICAL SOCIETY;

MEMBER OF THE LYCSUM OF MATURAL MISTORY, NEW YORK; AND OF THE AMBRICAN PHILOSOPHICAL SOCIETY, PHILADELPHIA; HONORANY MEMBER OF THE YORKSHIRE PHILOSOPHICAL SOCIETY, OF THE GEOLOGISTS' ASSOCIATION, LONDON; OF THE INSTITUTION OF MINING AND MITALLURGY, LONDON; OF THE GEOLOGICAL SOCIETIES OF EDINBURGH, GLASGOW, HALIFAT, LIVERPOOL, AND SOUTH AFFICE; CORRESPONDING MEMBER OF THE GEOLOGICAL SOCIETY OF BELGIUM; OF THE IMPERIAL SOCIETY OF NATURAL MISTORY OF MONSCOW; OF THE MATURAL HISTORY SOCIETY OF MONTERAL;

AND OF THE MALCOLOGICAL SOCIETY OF MONTERAL;

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., 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., F.G.S., &c.

NEW SERIES. DECADE IV. VOL. V. JANUARY-DECEMBER, 1898.

LONDON:

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

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

1898.

HERTFORD:
PRINTED BY STEPHEN AUSTIN AND SONS.

LIST OF PLATES.

PLATE		\mathbf{F}_{I}	ACI:	NG :	PAGI
I.	Saurian bones from the Rhætic, Wedmore	•	•	٠	3
II.	Antlers of the Great Red-Deer, Cervus elaphus			•	49
III.	Ancient Britons hunting the Megaceros				133
IV.	The two great Stags of Warnham Court				133
v.	Egyptian Echinoidea				149
VI.	,, ,,				149
VII.	The Great Ås at Upsala, Sweden				198
VIII.	Egyptian Corals				241
IX.	,, ,,				241
X.	Squatina acanthoderma, O. Fraas				289
XI.	Modern "Dene Hole" Makers working in the "Purbe	eck	s ''	of	
	Brightling, Sussex				293
XII.	Section and Ground Plans of Ancient and Modern Dene Ho	les			299
XIII.	Egyptian Milleporoid Coral, etc				337
XIV.	Recent and Fossil Isopoda				388
XV.	Egyptian Cretaceous Fossils				394
XVI.	,, ,, ,,				394
XVII.	Egg of Struthiolithus Chersonensis, Brandt				434
XVIII.	Drowned Valleys of the Antillean Lands				518
XIX.	Egyptian Lower Tertiary Mollusca (Gasteropoda)				532
XX.	,, ,, ,, (Lamellibranchiata) .				534
vvi	Diamon of Diamontic Damoici				5.45

LIST OF ILLUSTRATIONS IN THE TEXT.

PAG
Tooth of Avalonia Sanfordi, Seeley
Tooth of Picrodon Herveyi, Seeley
Rapakivi granite
Globular granite
Diagram of Lake Tremorgio
Diagram of Lake Ritom, Lake Cadagno, and Lake Tom
Oudenodon (Aulacocephalus) pithecops, Seeley, sp. nov
Section in a 'leptite' quarry, Mauri, Finland
Antlers of Red-Deer, Cervus elaphus, Linn
How they hunt the Irish Deer at the present day
Geological Map of a Portion of West Dorset
Section across the Vale of Marshwood
Section to illustrate the Rev. J. F. Blake's paper
,, ,, ,, ,, ,, 21
,, ,, ,, ,,
,, ,, ,, ,,
,, ,, ,, ,,
,, ,, ,, ,, ,,
,, ,, ,, ,, ,,
Squatina alifera (Münster)
Fossil Estheriæ from North America
Stone Pit-mouth, showing Windlass and 'Trug-Basket'
Necrocarcinus glaber, H. Woodw., sp. nov
Syenitic Rock-exposure near Martley
The Development of 'Pores' from Cirri
Comparative Sections of English and Scottish Lower Carboniferous Rocks 34
Diagram of posterior segments and telson of Cyclosphæroma
Section in Pit near Cosgrove Hill
Course of axial nerve-cords in Crinoids
Comparison of the dicyclic and monocyclic base in Crinoids
Course of the axial nerve-cords in Isocrinus
Bases and their modifications in Crinoids
Ground-plan of Pit at Stankey Wood
Dene Hole at Cavey Spring, Bexley

viii List of Illustrations in the Text.

Dene Hole at Hangman's Wood	45
Outline of associated head-bones, etc., of Calacanthus Kayseri (Von Koenen).	53
Deformed example of <i>Hoplites tuberculatus</i> , J. Sowerby, Gault, Folkestone (three views)	54:
Diagrams of the upper or actinal surface and vertical section of Dinocystis	
Sketch of section on shore below Treborth	56
Hypothetical section through the Menai Straits between the bridges	56
Section in the Gravel Pit near Martley	56
Ground-plan of same	56
Diagram-section to illustrate Glacier-motion	56.