

THE
GEOLOGICAL MAGAZINE.

NEW SERIES.

DECADE IV. VOL. VIII.

JANUARY—DECEMBER, 1901.

THE
GEOLOGICAL MAGAZINE

OR,
Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

“THE GEOLOGIST.”

NOS. CCCCXXXIX TO CCCCL.

EDITED BY

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

LATE OF THE BRITISH MUSEUM OF NATURAL HISTORY;

PRESIDENT OF THE PALÆONTOGRAPHICAL SOCIETY,

VICE-PRESIDENT OF THE ZOOLOGICAL AND MALACOLOGICAL SOCIETIES;

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

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. VIII.

JANUARY—DECEMBER, 1901.

LONDON:

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

1901.

HERTFORD :
PRINTED BY STEPHEN AUSTIN AND SONS.

LIST OF PLATES.

PLATE	FACING PAGE
I. Wenlock Limestone Trilobites	5
II. Geological Views in Central France	60
III. Geological Views in Central France	62
IV. Geological Views in Central France	64
V. Portrait of Professor Lapworth, LL.D., F.R.S.	289
VI. Lake Louise and Mirror Lake	97
VII. Ordovician and Silurian Fossils	110
VIII. Cirripedes and Trilobites	145
IX. Diagram to illustrate Periodic Oscillations of Sea-level	172
X. Pine-board and Oak Eroded by Sand-blast of the Shore	193
XI. Gasteropoda, Wenlock Limestone, Dudley	249
XII. Cretaceous Crustacea from Faxe, Denmark	501
XIII. Portrait of Dr. Gustaf Lindström	333
XIV. Portrait of the Rev. Professor Bonney, D.Sc., LL.D., F.R.S., etc.	385
XV. Silurian Gasteropoda	355
XVI. Siberian <i>Anthracomyæ</i> , etc.	436
XVII. Devonian Fossils, Lynton	539
XVIII. Devonian Fossils, Torquay	540

LIST OF ILLUSTRATIONS IN THE TEXT.

	PAGE
Impressions of Echinoderms in Triassic Sandstones	3
Photograph of the Bottom of a Flask containing Spherulitic Structure	15
<i>Belimurus kiltorkensis</i>	53
Wing of <i>Fouquea cambrensis</i> from the Coal-measures	66
Bone Needle from Cave on the River Wye	103
Skull of <i>Ochotona (Lagomys) pusillus</i> from Cave on the River Wye	104
Skull of <i>Dicrostonyx (Myodes) torquatus</i> from Cave on the River Wye	104
Upper Molars of <i>Dicrostonyx (Myodes) torquatus</i> from Cave on the River Wye	104
Lower Molars of <i>Dicrostonyx (Myodes) torquatus</i> from Cave on the River Wye	104
Lower and Upper Molars of <i>Lemmus (Myodes) lemmus</i> from Cave on the River Wye	104
Neolithic Implement from Tras, Pahang, Malay Peninsula	134
<i>Pollicipes polymerus</i> , G. B. Sowerby.	147
<i>Catophragmus polymerus</i> , Darwin.	147
<i>Brachylepas cretacea</i> , H. Woodw., gen. nov.	149
Black Shale with <i>Diplograptus</i> from Carabaya, Peru	195
Arms of the Royal Hammerers	288
<i>Estheria anomala</i> , T. R. Jones, sp. nov.	353
Diagram of Area of Earthquake of September 22, 1900	360
Map of Lake District of Central Africa	363
Map of Lake Tanganyika	366
Diagram to illustrate lines of Volcanic Action	367
Diagram-Section on the East side of Ruwenzori	368
Left Ramus of Mandible of <i>Palaeomastodon Beadnelli</i> , Andrews	401
Dentition of <i>Mærittherium Lyonsi</i> , Andrews	404
Mandible and Lower Teeth of <i>Bradytherium grave</i> , Andrews	406
Left Upper Cheek-teeth of <i>Bradytherium grave</i> , Andrews	408
<i>Pleurotoma prisca</i> , Solander, sp.	410
Diagram-Section illustrating Limburgite	413
Diagram-Section illustrating Limburgite	416
Vertebrae of <i>Gigantophis Garstini</i> , Andrews	437
Vertebra of <i>Mæriophis Schweinfurthi</i> , Andrews	439
Left Humerus of <i>Psephophorus eocenus</i> , Andrews	441
Skull and Mandible of <i>Stereogenys Cromeri</i> , Andrews	443
Diagram of Divisions of Carapace in a Brachyuran Decapod Crustacean	491
Encrusted Block in the Ecce Shale, Ladysmith, Natal	550
Relative Position of Travelled Blocks, Ladysmith	551
Sigmoidal Folding in Devonian Rocks, Hele Bay, Ilfracombe	553
<i>Strabops Fletcheri</i> , Beecher; Cambrian, Missouri	562