

GEOLOGICAL DEPARTMENT,
BIRKBECK COLLEGE, UNIVERSITY OF LONDON

THE
GEOLOGICAL MAGAZINE.

NEW SERIES.

DECADE V. VOL. I.

JANUARY—DECEMBER, 1904.



THE
GEOLOGICAL MAGAZINE

OR,

Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

“THE GEOLOGIST.”

NOS. CCCCLXXV TO CCCCLXXXVI.

EDITED BY

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

JANUARY—DECEMBER, 1904.

LONDON:

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

1904.

HERTFORD :
PRINTED BY STEPHEN AUSTIN AND SONS, LTD.

LIST OF PLATES.

PLATE	FACING PAGE
I. <i>Cupressinoxylon hookeri</i> , Arber, sp. nov.	7
II. Examples of erosion of rocks in Corsica	12
III. Portrait of the late R. Etheridge, F.R.S. L. & E., F.G.S., etc.	49
IV. Portrait of the late Professor K. A. von Zittel	90
V. <i>Phacops Robertsi</i> , Reed, sp. nov.	109
VI. Mammals of the Eocene of Egypt	162
VII. Borings at Cunapo Coalfield, Trinidad	198
VIII. Trinidad Foraminifera	249
IX. Trinidad Foraminifera	250
X. Portrait of the late Charles Emerson Beecher, Ph.D.	284
XI. Eocene Echinoids from Sokoto	304
Sketch-map of River System of Equatorial Africa	344
Sketch-map of Lake Tanganyika	368
XII. <i>Phacops</i> and <i>Enerinurus</i>	383
XIII. Eroded Granite Boulder, near Ajaccio, Corsica	390
XIV. Portrait of W. H. Hudleston, J.P., M.A., F.R.S., F.L.S., F.G.S.	431
XV. <i>Linthia oblonga</i> (Orbigny).	445
XVI. <i>Desorella elata</i> (Desor)	480
XVII. Shell of <i>Testudo Ammon</i> , Andrews	527
XVIII. Natural Arch in Limestone, Torquay	608

LIST OF ILLUSTRATIONS IN THE TEXT.

	PAGE
<i>Cupressinoxylon hookeri</i> , E. A. Newell Arber, sp. nov.	9, 10
Partially Silicified Crystalline Limestone	17
Suture-line of <i>Pericyclus fasciculatus</i>	29, 30, 31
Tongue of Clay in Chalk	73
Middle portion of above, enlarged	73
Skull of <i>Mærittherium</i>	110
Skull of <i>Palaomastodon</i>	113
Section showing junction between the Lias and Cretaceous	125
General Section of Black Ven	127
Junction between the Selbornian and Lias of Black Ven	128
Section in the Selbornian of Black Ven	130
Lower Keuper basement-beds	171
Sketch-map of Afou Seint below Pont Seint	201
Sketch-map of Nant Rhos Ddu	205
Section across Nant Rhos Ddu	206
Diagram-Section of <i>Gonatosphæra</i>	242
Diagram to illustrate the Phylogeny of <i>Nodosaria</i> and allied forms	249
Succession of beds in the folded region of Cape Colony	253
Eocene outcrop in Central Africa	291
<i>Plesiolampas Saharæ</i> , Bather, sp. nov.	294
Contorted pegmatite vein in granite, Sweden	310
Folded pegmatite in a sett quarry, Sweden	310
Contorted pegmatite in gneiss, Sweden	311
Pegmatite vein in granite, Sweden	312
Curves showing the frequency of branching in <i>Stomatopora</i>	320
Diagram showing method of branching in <i>Stomatopora</i> and <i>Proboscina</i>	321
Plan of the Graben System and its relation to the Congo Basin	355
Section across British East Africa	357
Section of the Lower Congo between the Atlantic and Stanley Pool	361
Structure of a Graben	368
Hollow in granitic block	389
Sections to illustrate Dr. Bonney's paper	389, 390

	PAGE
Section from Fremington and Eastcombe to Clayhanger, etc.	394
Section through Coddon Hill Beds, Barnstaple	396
Diagram of longitudinal sections of forms of <i>Actinocamax</i>	409
Sketch-map of zircon granites near Balangoda, Sab, Ceylon	419
Structure of allanite granite	422
Diagram to illustrate Mr. Vaughan's paper	427
<i>Cypridina antiqua</i> , Jones, sp. nov.	439
Section at Clapham, north of Bedford	440
Bones of <i>Algoasaurus Bauri</i> , Broom, gen. et sp. nov.	446
Apical disc of <i>Desorella elata</i> (Desor)	480
Map of Earthquake-area near Penzance	488
Section from Idak to Mirán Shah	491
Belemnite and <i>Crioceras</i> (?) from Mesozoic rocks, Mirán Shah, N.W. India	492
Diagram of carapace of <i>Testudo Ammon</i> , Andrews	528
Diagram Map of Hesse Earthquake	537
Diagram Map of Strontian Earthquake	538
Diagram Map of the Kishon and Jordan Valleys	577
Figure of skull of <i>Notochampsia Istedana</i> , sp. nov.	583
View of Unconformable Junction of Hornstones with Highland Schists, Arran	594
Diagram Figure of Natural Arch, Torquay	613