GEOLOGICAL MAGAZINE.

NEW SERIES.

DECADE II. VOL. II.

JANUARY-DECEMBER, 1875.

GEOLOGICAL MAGAZINE:

OR.

Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

"THE GEOLOGIST."

NOS. CXXVII. TO CXXXVIII.

EDITED BY

HENRY WOODWARD, F.R.S., F.G.S., F.Z.S.,

VICE-PRESIDENT OF THE GEOLOGISTS ASSOCIATION;

MEMBER OF THE AMERICAN PHILOSOPHICAL SOCIETY, PHILADELPHIA; HONORARY MEMBER OF THE GEOLOGICAL SOCIETIES OF EDIMEURCH, GLASGOW, AND NORWICE; CORRESPONDING MEMBER OF THE GEOLOGICAL SOCIETY OF BELGIUM; OF THE NATURAL HISTORY SOCIETY OF MONTREAL; AND OF THE LYCRUM OF NATURAL HISTORY, NEW YORK.

ASSISTED BY

PROFESSOR JOHN MORRIS, F.G.S., &c., &c.,

AND

ROBERT ETHERIDGE, F.R.S., L. & E., F.G.S., &c.

NEW SERIES DECADE II. VOL. II.

JANUARY-DECEMBER, 1875.

LONDON:

TRÜBNER & Co., 57 and 59, LUDGATE HILL. F. SAVY, 77, BOULEVART ST.-GERMAIN, PARIS. 1875.

HERTFORD:
PRINTED BY STEPHEN AUSTIN AND SONS.

LIST OF PLATES.

PLATES	!. .												PAGE
I.	Species of Cystiphy	llum	••••	••••				••••					30
II.	Devonian Polyzoa	••••	••••		••••	••••				••••	•		33
III.	Gault Aporrhaidæ	••••	••••		••••	•		••••					49
IV.	Meteoric Iron found	1 187	0 at	Ovifa	ak			••••	•••••	••••	••••		152
V.	Fossil Aporrhaidæ	*****	*****	•		••••		*****	••••				124
VI.	Fossil Aporrhaïdæ		•										198
VII.	Sketch of Vulcano t	o Illı	ıstra	te M	r. Ju	dd's	Pape	r	••••				99
VII.*	Fossil Aporrhaïdæ		••••		••••	••••	*****	•••••		••••		••••	291
VIII.	View of Stromboli		****		••••	••••				••••	•	••••	145
*.III	New Carboniferous	Foss	ils		••••	••••						*****	241
IX.	Section of Meteoric	Iron	fron	ı Tol	uca,	Mexi	ico (Autot	ype)	••••		•••••	311
X.	Tasmanites and Bet	ter-B	ed C	oal	••••	••••		••••		••••			337
XI.	The Meteorite which	h fell	at l	Busti,	Dec	. 2,1	852 (Chro	moli	thogi	aph)		401
XII.	Cretaceous Aporrha	ïdæ	••••			••••		••••	••••				392
XIII.	Fossil Foraminifera	fron	Sur	natra		••••		••••	••••	,	*****	••••	532
XIV.	Fossil Foraminifera	fron	ı Suı	natra	ı				••••	••••			533
XV.	Incised Outline of a	a Rei	ndee	r fro	m th	e K	esslei	rloch	Cav	e, Th	aing	en,	
	Schaffhausen								••••				610

^{*} To the Binder.—By an oversight two plates are numbered each Plate VII. and two are numbered each Plate VIII. (see above). The Binder is particularly requested to observe the titles of these plates, so as to avoid their being transposed or otherwise misplaced.

LIST OF WOODCUTS.

•								PAGE		
Map Illustrating the Volcanic Group of the Li	-	Islan	ds	••••				7		
View of Panaria and surrounding Islands	••••	••••	••••	•••••	••••	••••		9		
Ruined Crater of Monte Sant' Angelo				•		••••		14		
Section near Quaglia on the South-West Coast	of	Vulca	no.					15		
Interesting Section at La Capo	*****	••••		*****	•			16		
Vulcanello with its Three Craters		••••	•	*****	•••••			58		
Section of Cone of Vulcanello in Sea Cliff	••••	••••	••••		••••			58		
View of the Breached Crater of Campo Biance	o					••••		67		
Sections of Quartz-trachyte Lava-streams at P	orto	delle	Ger	ıti	••••	****		69		
Diagrams of the Submergence of Land in Isle	of :	Man	•••••			•		83		
Plan of the Island of Vulcano				••••		••••		110		
Diagram Illustrating the Sediment Theory of	Drif	t					•••••	171		
Three Fossil Fruits, Cardiocarpus elongatus; C. bisectus; C. samaræformis:										
and Welwitschia mirabilis, from Dana's	Man	ual of	Ge	ology	7			179		
Section of the Red Rocks near Birmingham	••••			••••				196		
View of the Active Crater of Stromboli	*****	*****		••••		•		203		
Section through the Island of Stromboli	••••						••••	210		
Plan of the Island of Ischia	••••	****						248		
Monte Rotaro with Monte Tabor								253		
The Crater Lake of Lago del Bagno, Ischia		*****		****				254		
Island of San Stephano seen from the South		••••						299		
The Headland Monte della Guardia in Ponza	••••							300		
Western Spur of Monte della Guardia								301		
Block of Caille Iron in Paris Collection			,.		•			369		
Meteorite of Aumières						****		402		
Diagram of Lake Glacier								438		
View of a Lake Outlet		••••	••••					439		
Machine for Melting Ice					*****		****	441		
Diagram Illustrating the Velocity of Ice		••••						442		
Flood Level of the Rhine				•			·	444		
Section of Hirwain Common								445		
Diagrams Illustrating a Stream of Water in a	n Ar	tificia	d Cl		l	••••	•••••	446		
Diagrams of different effect of Depth and Velo								447		

Diagram showing Width of the Missi	ssipp	i at v	ario	is po	ints	****	****	••••		PAGE 448
Course of the River Amazon						••••			****	448
Actual Junction of Tributaries of the							****		*****	449
Same River joined at right angles					_		••••	••••		449
Alternate Headlands and Coombes				••••	••••	••••	•••••	••••	****	450
Diagram of the effect on Velocity in r								••••		450
Diagram of the River Danube			••••			****	••••		*****	451
Angular Junction of Side Stream with				••••	****					451
Mount Tabor, from a photograph			••••	••••	••••	••••	••••	••••		452
Diagram of Outline of Mountain			••••	*****	••••					452
Fish Back Hill						••••				453
Section of Fish Back Hill	••••		****	****						453
Section of a Hill of Glacial Drift			****	••••			••••		••••	454
Section of Two Hills		••••	••••	••••	••••	••••	••••			454
Outline of Sand Hills near Leighton				••••		*****			••••	454
Ecclesbourn Glen						••••				455
Folkestone in the Pluvial Period			****	*****	•••••					456
Ecclesbourn Glen in the Pluvial Perio		****	••••	*****	••••	••••		••••		456
Section showing Surfaces removed by					••••	*****	****	*****		457
Gorge through Chalk Hills being form			••••			*****				457
Gorge through Chalk Hills formed		••••	****	••••						458
Diagram of Rutmoo River			••••		••••	****	****			459
Black Gang Chine, Isle of Wight			••••	••••	••••	••••	*****			460
View of Dovedale, Derbyshire		••••	*****			*****			*****	461
Diagram of East and West Flexures					lden	Beds				462
Drawing of an ordinary Injector								••••		468
Section of a River Perforating an Es								•	*****	473
Diagram showing the effect of Trans	•									473
Map of a portion of Central Sumatra					****			•		477
Diagrammatic Section of Sumatra fro				Does	ian (Geda				483
Diagrammatic Section of the Wester			_				_	••••	••••	483
Meteoric Iron Ring which fell at Tuc						••••	*****	••••		499
Section of Mendip Hills	•					*****	*****			567