THE EARTH IN PAST AGES

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649567096

The Earth in Past Ages by Sophia Bledsoe Herrick

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

SOPHIA BLEDSOE HERRICK

THE EARTH IN PAST AGES



THE EARTH IN PAST AGES

BY

SOPHIE BLEDSOE HERRICK AUTHOR OF "CHAPTERS ON PLANT LIPE" ETC.

Kllustrated

NEW YORK .: CINCINNATI .: CHICAGO AMERICAN BOOK COMPANY

626112

Copyright, 1888, by GRPER & BROTHERS.

All rights reserved.

CONTENTS.

CHAPTE												PAGE
I.	WHAT IS GROLOGY?			+		٠						1
II.	THE CLEW FOUND IN THE	R	OCE	8	8							8
111.	WATER		363	ē.	24							20
IV.	THE REIGN OF FIRE			80	994	*	•		S:0	90		84
V.	FIRE AND WATER					100						47
VI.	THE ICE-KING AT WORK .											60
VII.	PLANTS AS BUILDERS		3	Į.								73
VIII.	THE BUILDERS UNDER THE	8	EA							*3		86
IX.	THE CRUST OF THE EARTH				000		•00					97
	MOUNTAIN-BUILDING											105
XI.	METALS AT HOME											115
XII.	A STUDY OF BONES	1	*		100			99	3		į.	129
	THE DAWN OF LIFE											185
XIV.	THE REIGN OF FISHES											145
XV.	THE REIGN OF PLANTS .											154
	"STRIKING OIL"											
XVII.	SALT		•:0	٠					×	83		178
XVIII.	THE REIGN OF REPTILES .									63		184
XIX.	THE BOTTOM OF THE SEA								•	•		198
XX.	BIRDS OF THE PAST											208
XXI.	THE REIGN OF LAND MONS	TE	RS				63					220
	THE COMING OF MAN											A comment



ILLUSTRATIONS.

MG.												1	AGE
1.	SLAB OF RIPPLE-MARKED SA	NDE	TO	NE								14	10
2.	SHELL IN THE ROCK (Ammor	uite)		Alle		26	***		×	*	**		11
3.	FERN-LEAP IN STONE	100		*::								10.0	12
	TILTED LAYERS IN THE ROC												18
5.	SHELLS IN BROKEN ROCK .												15
6.	LEVEL AND LIFTED LAYERS	-		v			20	7	514	v			17
	STRATIFIED ROCK CLIFFS AT												23
	THE CLETT, HOLBORN HEAD												27
	"THE CATHEDRAL," LURAY												81
	ROCK VEINS												37
11.	SECTION OF THE EARTH'S C	RUS	T	20	ca cas		-				40	20.0	38
12.	WHITE CRYSTALS OF FELDS	PAR	500	***		250	200	040	200	-	50	655 63 8	89
	SCORIACEOUS LAVA												89
	GRAPHIC GRANITE												40
	GRAPHIO GRANITE												40
	SANTORIN											::- ::-	48
17	Fragat's Cave		•	- 33	•	8	•	•	8	8	- 33		48
18	FINGAL'S CAVE			•	•	•	•	•		*		3	51
	CARBONATED SPRINGS												55
												2.5	57
01	A GRYSER		•	•			•						61
	A GLACIER												255
55.	ROCK SCRATCHED BY GLACIE	H.			1.0							11.4	68

Illustrations.

vi

F10.																	PAGE
28. TRAN	SPORT!	TION	OF	R	OCI	CB 1	BY	GI	AC	IER	8 .		6 60	34	20	4	69
24. A TB	OPICAL	Mo.	RAS	8		٠.											75
25. MININ	G FOR	CEL	AR	Lo	GB.	IN	N	ew	Ji	TERM	BY .						81
26. SECTI	ON OF	CLIE	F														83
27. ATOL			32									- 5					87
28. CORA																	
29. CORAL	Ls .														•		91
29. CORAL 80. CORAL	. 8.														٠		92
81. MAGN																	
82. FOREIT																	
33. Fossi																	
34, 85. RA																	
86. A DE																	
87. SEA-W	ORM C	N O	PBT	ER-	SHE	LL	*	129		3 63			0 60	34	3		102
88. STRAT	IFICAT	MON,	Joi	NT	5, A	ND	Cı	EA	VA	GR		-		19	*		103
89. BECTI																	
Jui	LA .											-					106
40. WRIN	KLED	LAYR	R8					0.4		¥100		1		٠			107
41. PYRA	M div	OUNT	AIN	550				000 +		***		,			œ		109
42. A CA	NON .																111
48. FAULT	18 .																118
44. SCENE	AT A	n In	ON	MI	NE							-					117
45. PLACE	R MI	NING	30	8 00		*	91	e i e	**	•		3	0.00	٠		÷	121
48 Hynn	ATTLIO.	MINI	NG						_								108
47. Eozoo	N CAN	NADE	YBE									- 0				-	187
48. SEA-W	EEDS	AND	SEA	A	NI	EAI	8.					-					140
49. SILUR	IAN S	EA-WI	EED		55.	×		·	(*)	•00		9	600			3	141
50. STAR- 51. TRILO	FIBE	5000							•	•00			000			•	142
51. TRILO	BITES							:: :•						œ.	*		142
59. CORAL	. 8.							32									148
to Wina																	

4. Mailed Fishes		*		.,	IU	hu	str	ati	ion	18.									vi
6. Unilobed Tail	rig.																		7101
6. Unilobed Tail	54.	MAILED FISHES				٠	2									٠			149
7. BILOBED TAIL	55.	SCALES					÷												150
7. BILOBED TAIL	56.	UNILOBED TAIL	•3	•	⊙€	(0)	6	•		ÿ0	•	308		•)	٠		90	÷	151
8. STONE-LILIES	57.	BILOBED TAIL .		*1															151
0. Ideal Landscape of the Coal Period	58.	STONE-LILIES .																	
1. COAL FERNS	59.	PSILOPHYTON .																	152
2. TREE-TRUNES FOUND IN A MINE	30.	IDEAL LANDSCAP	E	OF	T	H	C	DAI	. P	EF	IOI	D		7	19	9			157
SLAB OF SANDSTONE SHOWING FOOTPRINTS OF SAURIANS 164. OIL POOL UNDER THE EARTH	31.	COAL FERNS .	*			*	50		330	90		30#		×		3.0	***		159
4. OIL POOL UNDER THE EARTH	32.	TREE-TRUNES PO	UN	D	IN		M	INE											161
5. OIL REFINERY, SHOWING TANK CARS	38.	SLAB OF SANDST	ON	8 8	но	w	NG	F	007	re1	UN	TS	OF	8	AU	RI	LNE		165
6. A FIELD OF DERRICKS.—EFFECT OF A TORPEDO 17: 7. SLAB OF SANDSTONE, WITH TRACES OF BIPEDS 18: 8. IDEAL LANDSCAPE OF THE AGE OF REPTILES 18: 9. THE PTERODACTYL 19: 0. RAMPHORHYNCUS—ONE-QUARTER NATURAL SIZE 19: 1. ICHTHYOSAURUS AND PLESIOSAURUS 19: 2. TRACES OF LABYRINTHODON 19: 8. CHALK CLIPPS OF DOVER 20: 4. ENGLISH CHALE 20: 6. ECHINUS (Fossil Sea-urchin) 20: 6. ECHINUS (Fossil Sea-urchin) 20: 7. CORALS OF CHALE 20: 8. TURRILITE.—SCAPHITE 20: 9. SPONGE OF CHALE 20: 1. TAIL AND FEATHER OF REPTILE-LIKE BIRD, WITH TAIL OF MODERN BIRD FOR COMPARISON 21: 2. SKELETON IN STONE OF REPTILE-LIKE BIRD 21:	14.	OIL POOL UNDER	1 7	H	E	CAT	RTI	ι.											171
7. SLAB OF SANDSTONE, WITH TRACKS OF BIPEDS . 18 8. IDEAL LANDSCAPE OF THE AGE OF REPTILES . 18 9. THE PTERODACTYL . 19 0. RAMPHORHYNCUS—ONE-QUARTER NATURAL SIZE . 19 1. ICHTHYOSAURUS AND PLESIOSAURUS . 19 2. TRACKS OF LABYRINTHODON . 19 8. CHALK CLIPPS OF DOVER . 20 4. ENGLISH CHALE . 20 6. ECHINUS (Fossil Sea-urchia) . 20 6. ECHINUS (Fossil Sea-urchia) . 20 7. CORALS OF CHALK . 20 8. TURRILITE.—SCAPHITE . 20 9. SPONGE OF CHALK . 20 0. BIRD-LIKE REPTILE . 21 1. TAIL AND FEATHER OF REPTILE-LIKE BIRD, WITH TAIL OF MODERN BIRD FOR COMPARISON . 21 2. SKELETON IN STONE OF REPTILE-LIKE BIRD . 21	35.	OIL REFINERY, 8	но	WI	NG	T	AN	K	CA	Re		29		•0		(*)	*3		178
8. Ideal Landscape of the Age of Reptiles	16.	A FIRLD OF DE	RR	CE	8	-E	FF	EC	T C	F	4	To	RP	ED	0		*00		176
9 THE PTERODACTYL	7.	SLAB OF SANDST	ON	E,	WI	TH	T	RA	CK	8 0	F	Bn	PEL	8					186
0. Ramphorhyncus—One-quarter Natural Size	8.	IDEAL LANDSCAP	E	OF	T	HK	A	GE	OF	·	RE	TI	LES						189
1. ICHTHYOBAURUS AND PLESIOSAURUS	W.	THE PTERODACT	YL.		ě.		è					000		¥	19	6	•		191
2. Tracks of Labyrinthodon	0.	RAMPHORHYNCUS	_	ON	E-C	ξΩ.	R	FER	N	A	TUE	LAL	8	ZE	٠.	S.0	**		192
8. CHALK CLIPPS OF DOVER	1.	ICHTHYOSAURUS A	AN	D I	PLI	281	08/	UI	US	١.						. •			198
4. English Chalk	2.	TRACKS OF LABY	RI	NT	но	DO	N												195
5. Atlantic Dredging	8.	CHALK CLIPPS O	P 1	Do	VE	R	•												200
5. Atlantic Dredging	4.	ENGLISH CHALK			0	30	•	559		*	•		300	63	•		× 1		201
6. Echinus (Fossil Sea-urchin)																			
7. CORALS OF CHALK	6.	ECHINUS (Fossil S	es	-ur	ch	in)													204
9. Sponge of Chalk	77.	CORALS OF CHAI	K													0			205
9. Sponge of Chalk	8.	TURRILITESCA	PH	IT	E			93				014	30	40	12	ু	20		205
BIRD-LIKE REPTILE																			
1. Tail and Feather of Reptile-like Bird, with Tail of Modern Bird for Comparison																			
OF MODERN BIRD FOR COMPARISON																			
에다는 이렇게 한테니까 다른데 아이들이 아니는 아이들이 아니는																			212
에다는 이렇게 한테니까 다른데 아이들이 아니는 아이들이 아니는	12.	SKELETON IN ST	ON	E (P	R	CP	TIL.	E-L	IK	e I	BIE	D	400	774				213
	2.40																		