To Professor Perrier and Monsieur Poirier of the Museum of Natural History, Paris; to Dr. de Mann, late of the Leyden Museum, and to Professor von Martens of the University of Berlin, I am indebted not only for every assistance while engaged in the examination of the collections under their charge, but also for much personal kindness.

To Mr. R. Etheridge, sen., F.R.S., to Professor P. Martin Duncan, F.R.S., and especially to Mr. S. O. Ridley, M.A., I am indebted for much information and assistance on various points; while to Professor Moseley I am under obligation not only for suggestions of different kinds, but for assistance which I have derived from his published Notes by a Naturalist on the Challenger, in giving an account, where possible, of the conditions under which the Corals flourished on the reefs.

The plates have been drawn under my constant supervision, and I should like to make a special acknowledgment of the great pains which the artist, Mr. Gawan, has taken with them, and of the skill which he has brought to bear on them.

TABLE OF CONTENTS.

_													PAGE
PREFA	CE,		•	•		•		•	8.5	*	*	•	1
Introi	DUCTION			•6	•				•				3
		Reef-Corals d	lescribed,	•	•			•					3
		stribution,		•		•							5
		ssification,	•	•	•	•							7
	On the	Literature,	•		•	•			*				8
Distribution,							٠	2				9	
	Atlanti	ic Region,						•					9
	Pacific	Region, .		•					•	2			14
GENER	AL RES	ULTS OF DIST.	RIBUTION.								2000		
	Tabula	r view of the	number of	Gener	a and S	Species of	btained	with th	neir Toon	lition			33
	Distrib	utional areas,	•					***************************************	1011 11000	illucs,	•	•	34
	Bathyn	netrical limits	to distrib	ition.						•6	8.0	•	35
	Therma	al limits to dis	tribution,	. ′			60%	•	•	•	•	•	35
	Peculia	r cases of dist	ribution,	198			•	•	•	0.1	•	•	36
CLASSIFICATION,							3.*3	•	•	•	•	•	
Tabular view of the Families and Genera in the collection,										*	37		
Decan	rnmro.va	of Genera A	C	nu Ge	nera m	тие соп	ection,	*	•	•	•	•	45
DESCR		Or GENERA A	ND SPECI	ES.									
				•	•	•			•				47
	"	Pocilloporida	3, .	•	•	•		•				•	57
	"	Astræidæ,			•	•		•		2.0			70
	"	Cyathophylli		•	•	8.0	3.8	*					110
`	"	Plesiofungida		•		•							113
81	"	Cycloseridæ,		•	•		1.9		•				119
	"	Fungidæ,			•								130
	"	Eupsammida		9									145
	"	Madreporidæ	, .	•	•	•	•		•				147
	"	Poritidæ,	•			•	٠.	*					178
INDEX,	,,,	Milleporidæ,	•	٠	•	•			•				190
TUDEY	,	•		•	•	(• ()			•	•	•	•	195