

CHAPTER III.

FORMATION OF CORAL REEFS AND ISLANDS, AND CAUSES OF THEIR FEATURES.

	PAGE
I. FORMATION OF REEFS	189
I. Origin of Coral Sands, and of the Reef-Rock	189
II. Origin of the Shore Platform	196
III. Effects of Winds and Gales	200
II. CAUSES MODIFYING THE FORMS AND GROWTH OF REEFS	203
I. Barrier and Fringing Reefs	203
II. Atoll Reefs	211
III. RATE OF GROWTH OF REEFS	212
IV. ORIGIN OF THE BARRIER CONDITION OF REEFS, AND OF THE ATOLL FORM OF CORAL ISLANDS	218
I. Old Views	218
II. Origin of Channels within Barriers	220
III. Origin of Lagoons of Atolls	227
V. THE COMPLETED ATOLL	233

CHAPTER IV.

GEOGRAPHICAL DISTRIBUTION OF CORAL REEFS AND ISLANDS.	255
---	-----

CHAPTER V.

CHANGES OF LEVEL IN THE PACIFIC OCEAN.

I. Evidences of Change of Level	272
II. Subsidence indicated by Atolls and Barrier Reefs	274
III. Effect of the Subsidence	282
IV. Period of the Subsidence	284
V. Elevations of Modern Eras in the Pacific	284

CHAPTER VI.

GEOLOGICAL CONCLUSIONS.

I. FORMATION OF LIMESTONES	299
II. BEDS OF LIMESTONE WITH LIVING MARGINS	301