CHAPTER XX.

TAHITI. JUAN FERNANDEZ.

Death of Rudolph Von Willemoes Suhm. Scientific Papers and Journals left by him. Papeete. Excursion into the Mountains. Fly-Fishing in a Mountain Stream, Uses of the Wild Banana, Vegetation Composed mainly of Ferns. Camping at Night. Tahitian Mountain Map. Ascent to 4,000 feet Altitude. Petrels Nesting at this Height. Their possible Influence in Distribution of Plants. Ignorance of the Natives concerning the Mountains. Mode of Alternation of Generations in the Mushroom Coral. Structure of Millepora. Structure of the Stylasteridæ. Catching Land-Crabs. Tahitian National Air. Juan Fernandez. Preponderance of Ferns. Destruction of Trees. Gunnera Chilensis. Conspicuous Flowers. Humming Birds of the Island. Their Fertilization of Flowers. Smallness of the Island compared with the Number of Endemic Forms. Endemic Palm. Dendroseris . . ÷., 1 445

CHAPTER XXI.

CHILE. MAGELLAN'S STRAITS. FALKLAND ISLANDS.

ASCENSION.

CHAPTER XXII.

LIFE ON THE OCEAN SURFACE AND IN THE DEEP SEA. ZOOLOGY AND BOTANY OF THE SHIP. CONCLUSION.

Plants of the Ocean Surface. Fauna of the Sargasso Sca. Protective Colouring of Pelagic Animals. Variety of Pelagic Animals. Flight of the Albatross.
Flight of Flying-fish. A Pelagic Insect. Pelagonemertes described. Phosphorescence of Pelagic Animals. Giant Pyrosoma. Uncertainty as to Range in Depth of Pelagic Animals. The Depth of the Oceans and Depressions on the Earth's Surface. Deep-Sea Dredging. Vast Pressure existing in the Deep Sea. Experiment showing this made by Mr. Buchanan. Conditions under which Life Exists in the Deep Sea. Range of Plants in Depth. Food of Deep-Sea Animals. Experiment on the Rate of Sinking