

## CHAPTER II.

## MADEIRA TO THE COAST OF BRAZIL.

Return to Madeira.—The Black Coral.—*Ophiacantha chelys*.—*Ophiomusium pulchellum*.—*Ceratias uranoscopus*.—The Island of San Vicente.—Porto Praya.—The Island of San Iago.—A Red-coral Fishery.—The Guinea Current.—*Balanoglossus*.—Luminosity of the Sea.—*Pyrocystis*.—Young Flounders.—*Bathycrinus Aldrichianus*.—*Hyocrinus Bethellianus*.—St. Paul's Rocks.—Fernando Noronha.—Low Bottom Temperatures under the Equator.—*Ceratotrochus diadema*.—*Pentacrinus Maclearanus*.—Dredging at Moderate Depths.—Arrival at Bahia.

APPENDIX A.—Table of Temperatures observed between Madeira and Bahia during the months of July, August, and September, 1873.

APPENDIX B.—Table of Serial Temperature Soundings down to 500 fathoms, taken between Madeira and Station CII. (lat. 3° 8' N., long. 14° 49' W.).

APPENDIX C.—Table of Serial Temperature Soundings down to 200 fathoms, taken between Station CII. and Bahia.

APPENDIX D.—Specific-gravity Observations taken between Madeira and Bahia during the months of July, August, and September, 1873.

WHEN we reached Madeira we found, to our great regret, that shortly before our arrival there had been a rather severe epidemic of small-pox in the town; and as Captain Nares thought it imprudent to give general leave, our stay was greatly abridged. One or two of the officers went on shore, and enjoyed a short ramble over the lovely island, now in the height of its summer beauty; and a few of our friends visited us on board while we were taking in our stock of fresh provisions, and made our cabins gorgeous with offerings of flowers and fruit.

We left Funchal on the evening of the 17th of July, and proceeded toward San Vicente in the Cape Verde group. We took a temperature sounding on the 18th, and on the 19th sounded and dredged in 1125 fathoms, with a bottom of vol-