

ing dissimilarity in Animal Life, and to trace this climatic dissimilarity to its source; as well as to carry down the like survey to depths much greater than have been yet explored by the Dredge.

"This, it is believed, can be accomplished without difficulty (unless the weather should prove extraordinarily unpropitious) by the employment of a suitable vessel, provided with the requisite appliances, between the middle of May and the middle of September. The Ship should be of sufficient size to furnish a Crew of which each 'watch' could carry on the work continuously without undue fatigue, so as to take the fullest advantage of calm weather and long summer days; and should also provide adequate accommodation for the study of the specimens when freshly obtained, which should be one of the primary objects of the Expedition. As there would be no occasion to extend the Survey to a greater distance than (at the most) 400 miles from land, no difficulty would be experienced in obtaining the supplies necessary for such a four months' cruise, by running from time to time to the port that might be nearest. Thus, supposing that the Ship took its departure from Cork or Galway, and proceeded first to the channel between the British Isles and Rockall Bank, where depths of from 1,000 to 1,300 fathoms are known to exist, the Dredgings and Temperature-Soundings could be proceeded with in a northerly direction, until it would be convenient to make Stornoway. Taking a fresh departure from that port, the exploration might then be carried on over the area to the N.W. of the Hebrides, in which the more moderate depths (from 500 to 600 fathoms) would afford greater facility for the detailed survey of that part of the Ocean-bottom on which a Cretaceous deposit is in progress—the Fauna of this area having been shown by the 'Lightning' researches to present features of most especial interest, while the careful study of the deposit may be expected to elucidate many phenomena as yet unexplained which are presented by the ancient Chalk Formation. A month or six weeks would probably be required for this part of the Survey, at the end of which time the vessel might again run to Stornoway for supplies. The area to the N. and N.E. of