

and that those distant from mountains, and imbedded in subaqueous deposits, have been conveyed thither either on icebergs, or frozen in coast-ice. The connection between the transportal of bowlders and the presence of ice in some form is strikingly shown by their geographical distribution over the earth. In South America they are not found further than 48° of latitude, measured from the southern pole; in North America it appears that the limit of their transportal extends to $53\frac{1}{2}^{\circ}$ from the northern pole; but in Europe to not more than 40° of latitude, measured from the same point. On the other hand, in the intertropical parts of America, Asia, and Africa, they have never been observed: nor at the Cape of Good Hope, nor in Australia.¹

On the Climate and Productions of the Antarctic Islands.
—Considering the rankness of the vegetation in Tierra del Fuego, and on the coast northward of it, the condition of the islands south and southwest of America is truly surprising. Sandwich Land, in the latitude of the north part of Scotland, was found by Cook, during the hottest month of the year, "covered many fathoms thick with everlasting snow"; and there seems to be scarcely any vegetation. Georgia, an island 96 miles long and 10 broad, in the latitude of Yorkshire, "in the very height of summer, is in a manner wholly covered with frozen snow." It can boast only of moss, some tufts of grass, and wild burnet: it has only one land-bird (*Anthus correndera*), yet Iceland, which is 10° nearer the pole, has, according to Mackenzie, fifteen land-birds. The South Shetland Islands, in the same latitude as the southern half of Norway, possess only some lichens, moss, and a little grass; and Lieutenant Kendall² found the bay, in which he was at anchor, beginning to freeze at a period corresponding with our 8th of September.

¹ I have given details (the first, I believe, published) on this subject in the first edition, and in the Appendix to it. I have there shown that the apparent exceptions to the absence of erratic bowlders in certain hot countries are due to erroneous observations: several statements there given I have since found confirmed by various authors.

² *Geographical Journal*, 1830, pp. 65, 66.