

of a greyish blue marble are the only extraneous materials found with the bones. Let me here call your attention to the singular association of species which some of these caves present; their recent types being widely separated. Thus in one cavern, animals allied to the spotted hyena of the Cape of Good Hope, are collocated with the remains of others related to the glutton, which inhabits Lapland; and in another, bones of the rhinoceros are associated with those of the reindeer. Numerous caves containing osseous remains are scattered over the continents of Europe and America; and even in Australia, fossil bones belonging to animals of different genera, but in a similar state of preservation, are found in caverns.

31. BONE CAVERNS IN ENGLAND—KIRKDALE CAVE.—In England caverns containing bones of bears, and other carnivora, in every respect analogous to those of Germany which we have just described, have been discovered and explored. Dr. Buckland, in his valuable work, the *Reliquiæ Diluvianæ*, has noticed several of the most important assemblages of this kind. The cave of Kirkdale, now so well known in consequence of the highly interesting disquisition on its contents by my distinguished friend, is one of the most celebrated. In the summer of 1821, a cave was discovered near Kirkdale, about twenty-five miles NN.E. of York, in a bank about sixty feet above the level of a small valley, and near a public road. Some workmen