

azure copper-ore\* disseminated in veins of quartz, and small strata of plumbago (black lead), or earthy carburetted iron. This last is found in pretty large masses, and sometimes mingled with sparry iron-ore, in the ravine of Tocume, to the west of the Silla.

Between the spring of Sanchorquiz and the Cross of La Guayra, as well as still higher up, the gneiss contains considerable beds of saccharoidal bluish-grey primitive limestone, coarse-grained, containing mica, and traversed by veins of white calcareous spar. The mica, with large folia, lies in the direction of the dip of the strata. I found in the primitive limestone a great many crystallized pyrites, and rhomboidal fragments of sparry iron-ore of Isabella yellow. I endeavoured, but without success, to find tremolite,† which in the Fitchelberg, in Franconia, is common in the primitive limestone without dolomite. In Europe beds of primitive limestone are generally observed in the mica-slates; but we find also saccharoidal limestone in gneiss of the most ancient formation, in Sweden near Upsala, in Saxony near Burkersdorf, and in the Alps in the road over the Simplon. These situations are analogous to that of Caracas. The phenomena of geognosy, particularly those which are connected with the stratification of rocks, and their grouping, are never solitary; but are found the same in both hemispheres. I was the more struck with these relations, and this identity of formations, as, at the time of my journey in these countries, mineralogists were unacquainted with the name of a single rock of Venezuela, New Grenada, and the Cordilleras of Quito.

\* Blue carbonate of copper.

† Grammatite of Haüy. The primitive limestone above the spring of Sanchorquiz, is directed, as the gneiss in that place, hor. 5·2, and dips 45° north; but the general direction of the gneiss is, in the Cerro de Avila, hor. 3·4 with 60° of dip N.W. Exceptions merely local are observed in a small space of ground near the Cross of La Guayra (hor. 6·2, dip 8° N.); and higher up, opposite the Quebrada of Tipe (hor. 12, dip 50° W.).