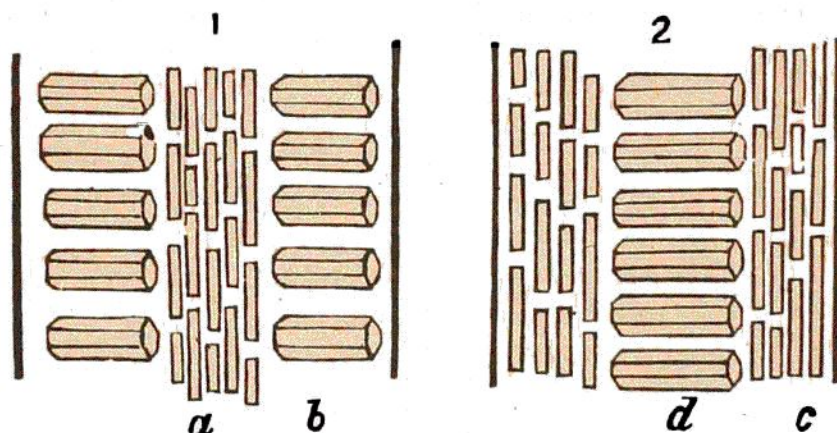


district, I have observed dikes in which laminar cleavage parallel to the surfaces occurred at the sides of the dikes and the columnar cleavage in the centre, just the opposite condition.

On Bird Island, the rocks about tide mark are covered with a broad band of a dense incrustation composed of Corallinaceæ, which forms a striking feature in the appearance of the island as seen from the sea, and is more marked here than on the main island. The Corallinaceæ are seaweeds which secrete a dense skeleton of carbonate of lime. The incrustation on Bird Island is of several colours, white, bright pink or cream colour, and is mainly composed of two species, of *Lithothamnion*, *L. polymorphum* and *L. mamillare*. The incrustation assumes very varied forms, being simply incrusting, and following the form of the rock surface on which it rests, or forming smooth rounded convex masses, or being covered with a close



DIAGRAMS OF THE CLEAVAGE STRUCTURE OF BASALTIC DYKES.

1 In St. Vincent; 2 in the Auvergne, near M. Dore; a central portion with laminar cleavage; b lateral regions with horizontal columnar cleavage; c lateral regions with laminar cleavage; d central mass with horizontal columnar cleavage.

set series of projections, sometimes of considerable length, and with a sinuous arrangement.

I broke off specimens from the mass with my geological hammer. It is bored in all directions by Mollusks, such as *Lithodomus caudigerus*—a Senegambian species with two curious little tails at the hinder extremities of the valves so cut out as to lap over one another when the shells are closed. On the whole, plant-life seems to play a far more important rôle than do corals in accumulating carbonate of lime around the Cape Verdes. The principal rôle in this respect is however played by the larger Foraminifera, of the shells of which the calcareous sand of St. Vincent is mainly composed.

I made excursions every day along the shore or over the hot sandy plains or over the sharp and rugged lava, in search of plants and animals. So desolate is the place that a naval