

8. *Z. GENITIVA*.—Corallum turbinate, curved, expanding to a width of 21 lines in a length of $4\frac{1}{2}$ inches. Surface with a few rounded folds of growth. Septal striae 8 or 9 in the width of 3 lines at the base; in the upper part where the surface is perfect the striae are not visible (in the specimen examined), but where a little worn there are about 6 in 3 lines, indicating both the large and small septa; or 3 where only the large septa are represented. At a diameter of 18 lines there are 56 large septa, 6 or 7 lines in depth; some of them reach nearly to the centre. The small septa are two or three lines in depth. The bottom of the cup is smooth with a slightly elevated, low pyramidal columella, forming a low ridge in the direction of a line drawn through the fossette. The latter is large, ovate, the smaller extremity pointing outwards. Occurs in the Corniferous.

9. *Z. SUBRECTA*.—Corallum somewhat straight, flexuous, gradually expanding to a diameter of 21 lines in a length of 6 inches. Surface with rounded folds of growth and a few broad undulations. Septal striae 9 in the width of 3 lines at the base, becoming wider and more indistinct upwards. There are 38 large septa at a diameter of 18 lines, from 3 to 5 lines in depth; small septa, in general from $\frac{1}{4}$ to 1 line in depth. Occurs in the Corniferous.

GENUS HETEROPHRENTIS (N. G.)

see. Rep. Geol. Surv. of Ohio. v. 23.

Corallum simple, turbinate. Calice large with a well defined septal fossette, the bottom either smooth or with a pseudocolumella.* Septa below the calice sharp-edged, often with their inner edges twisted together; above the floor of the calice they are usually rounded, especially on approaching the margin. There is apparently only a single transverse diaphragm, and this forms the floor of the cup.

This genus is intended to include (more especially) such species as *H. spatiosa*, *H. excellens* and some of those referred to *H. prolifica* = (*Zaphrentis prolifica*).

✓ 10. *H. SPATIOSA*.—This species I have heretofore called *Zaphrentis spatiosa*. It is a short, rapidly expanding species. Length of the typical specimen 3 inches, width at the margin $2\frac{1}{2}$ inches,

* For the sake of brevity, I shall hereafter make use of the word columella.