## Genus 5. Poritella, O. Schmidt.

Founded on a deciduous specimen; generic characters not assignable.

Poritella decidua, O. Schmidt.

Poritella decidua, O. Schmidt, Spong. Meerb. Mexico, p. 27, 1879.

Sponge.—Irregularly fan-shaped or vasiform, attached; walls thick, upper margin flat, smooth; inner surface covered with small circular oscules, less than 0.5 mm. in diameter; outer surface covered with pores, visible to the unaided eye.

Spicules.—I. Megascleres. 1. Desma, large, very irregular in form, covered with large cylindrical and conical tubercles; zygosis is lateral as well as terminal. The axial fibre of the crepis measures 0.044 mm. in length, the entire desma 0.5 mm. from end to end. 2. Rhabdus, slender, cylindrical; termination (?).

II. Microsclere (?). The specimens are deciduous.

Size of fan-shaped specimen sent me by Professor Agassiz, 35 mm. in height and 32 mm. in maximum breadth, walls 10 mm. in thickness.

Habitat.—Various localities in the Gulf of Mexico; 100 to 805 fathoms.

Remarks.—This sponge very closely resembles in general appearance Corallistes typus, O. Schmidt; it differs, according to Schmidt's description, in the absence of triænes.

## Genus 6. Amphibleptula, O. Schmidt.

Azoricidæ with a single oscule at the summit, and poriferous areas borne at the ends of short cylindrical processes, irregularly and generally distributed over the sides.

Amphibleptula madrepora, O. Schmidt.

Amphibleptula madrepora, O. Schmidt, Spong. Meerb. Mexico, p. 28, pl. i. fig. 6; pl. iii. fig. 7, 1879.

Sponge.—Conical, with rounded sides, attached by a flattened or concave base, at the summit a flattened area about 6 mm. wide, presenting vertical radiating septa about twelve to thirteen in number, surrounding a central cavity about 1.5 mm. in diameter, into this and the cavities between the septa open numerous more or less vertical tubes. The sides for 5 or 6 mm. from the summit are plain and even, but beyond this covered with numerous, not very regularly arranged, cylindrical processes, 1 to 2 mm. in diameter, traversed by one or more tubes, which open by septate apertures at the end. These represent the incurrent openings, that at the summit the oscule.