

The axis is hard, calcareous, brittle, of a whitish-yellow colour, but towards the end of the twigs it becomes more flexible.

The spicules of the calyx are arranged in four longitudinal rows of seven or eight scales, of which the two dorsal rows contain the largest scales, and on the dorsal aspect are alone visible; the ventral side of the calyx is scaleless, only on its upper edge is one scale developed as a support for the ventral opercular scales.

The spicules are broader than high, relatively thin; the prominences radiating from the nucleus to the dorsal edge are not much developed, and become pointed only in the dorsal rows so as to form a row of teeth on the edge. Ribs are weakly developed and only in the uppermost row. Length to breadth in mm.—0·2–0·35; 0·18–0·35; 0·15–0·25; 0·13–0·27; 0·13–0·23. The ventral scale is triangular, covered with small prominences, 0·16 to 0·14 mm.

The bilaterally arranged opercular scales exhibit a median keel, which ends in a little spine. The dorsal measure 0·3–0·167; lateral 0·3–0·17; ventral 0·23–0·15 mm.

The scales of the cœnenchyma are tuberculated, thick, bent or oval plates, whose edges are toothed, they lie close together, with the edges touching. Those of the upper layer exhibit the following sizes in mm. Length to breadth—0·32–0·14; 0·4–0·27; 0·3–0·17; 0·35–0·12; 0·2–0·06. Lower layer, 0·1–0·05.

Habitat.—Station 192, off the Ki Islands, south of Papua; depth, 140 fathoms; bottom, blue mud. Only one specimen of this very elegant form was dredged.

[2. *Caligorgia ventilabrum*, Studer.

Caligorgia ventilabrum, Studer, Monatsber. d. k. preuss. Akad. d. Wiss. Berlin, 1878, p. 647,
Taf. ii. fig. 12, a, b, c, d.

North of New Zealand; depth, 90 fathoms.

3. *Caligorgia gracilis* (Milne-Edwards).

Primnoa gracilis, M.-Edw., Hist. Nat. des Coralliaires, t. i. p. 141.

West Indies.

4. *Caligorgia verticillata* (Pallas).

Gorgonia verticillata, Pall., Elench. Zooph., p. 177.

„ *verticillaris*, Solander and Ellis, Zooph., p. 83.

Muricea verticillaris, Dana, Amer. Explor. Exped. Zooph., p. 675.

Primnoa verticillaris, M.-Edw., Hist. Nat. des Coralliaires, t. i. p. 140.

„ „ Kent, Monthly Micr. Journ., February 1870, pl. xli. figs. 8, 9 (figures of spicules).

„ „ Kölliker, Icon. Histiol., Taf. xvii. fig. 12 (spicules).

„ „ v. Koch, Mitth. Zool. Stat. Neapel, Bd. iii. p. 546.

„ „ v. Koch, Morph. Jahrb., Bd. iv. p. 457, 1878.

Mediterranean, Azores.]