## Family, ILYANTHIDÆ, Gosse, pro parte.

Hexactiniæ, having the aboral end of the body rounded; without pedal disk.

As I include in the family of the Ilyanthidæ only those forms which have the septal arrangement of the Hexactiniæ, I define it in a much more limited sense than Gosse (Actinologia Britannica, p. 227) or even Verrill (Memoirs Boston Soc., vol. i. p. 26). Verrill has detached the Cerianthidæ only, but left the Edwardsiæ in the family, while Allmann (Quart. Jour. Micr. Sci., new ser., vol. xii. p. 394), my brother and myself (Actinien, p. 124), and Angelo Andres (Mittheilungen der Zool. Stat. zu Neapel, Bd. ii. p. 123) have most clearly pointed out that the latter also ought to be separated. I am of the opinion that even excluding the Edwardsiæ does not free the family from foreign elements, for it is not at all likely that  $Halcampa\ albida$  and  $Halcampa\ producta$  with twenty tentacles,  $Halcampa\ microps$  with sixteen tentacles, &c., conform to the hexamerous type of arrangement of the tentacles.

By the absence of the pedal disk the Ilyanthidæ form a transition to the tribe Edwardsiæ, on account of which I have placed them at the end of the Hexactiniæ; in their internal anatomy they are also allied to the Edwardsiæ. Halcampa clavus, especially, which I am now about to describe, is so clearly an intermediate form that I was for long dubious whether I should treat of it under the Edwardsiæ or the Hexactiniæ.

## Halcampa, Gosse.

Ilyanthidæ with elongated, vermiform body; without sharply defined circular muscle; the posterior end may be distended into a vesicle; æsophageal grooves indistinct or wanting.

In all systematic descriptions of the Ilyanthidæ published by former authors, the genera Edwardsia and Halcampa are placed very close together; according to Gosse, they are only distinguished from one another by the facts, that the middle part of the body in Edwardsia is surrounded by a sheath, an "epidermis," which is wanting in Halcampa, and that the body is divided into three sections, the "capitulum," the "scapus," and the "physa." Angelo Andres (l. c., p. 137) has recently made use of a much more important anatomical character, viz., the presence of only eight septa ("octoseptazione") in Edwardsia, while there are always at least twelve septa in Halcampa. I only attach importance to the different arrangement of the septa, and therefore will place forms with tripartite wall in the genus Halcampa, provided only that they be true Hexactiniæ.

Halcampa clavus (Pl. III. figs. 1, 4, 10; Pl. XII. figs. 8, 9, 11; Pl. XIII. figs. 2, 4-7).

Actinia clavus, Quoy et Gaymard, Voyage de l' Astrolabe, Zoologie, iv. p. 150, pl. x. figs. 6-11, 1833. Iluanthus clavus, Milne-Edwards, Histoire des Corall., tom. i. p. 284.