

3. *Clione flavescens*, Gegenbaur.

1855. *Clio flavescens*, Gegenbaur, Untersuchungen über Pteropoden und Heteropoden, p. 73, pl. iv. fig. 15, A, B.

1875. *Clio aurantiaca* (larva), Fol, Sur le développement des Ptéropodes, Archives d. Zool. expér., sér. 1, t. iv. p. 178, pl. x. fig. 10.

*Body* of moderate length, and terminating behind in a point (quadrangular, according to Gegenbaur). The visceral mass only extends to the middle of the body.

*Head* rather wide (in Gegenbaur's figure the nuchal tentacles are distinguishable).

*Foot*.—Anterior lobes rather wide, pointed behind; posterior lobe rather long and pointed.

*Fins* wide at the base, but like those of *Clione limacina*.

*Buccal Appendages*.—They have not been described, and Professor Gegenbaur wrote me that the type specimen of this species no longer exists. But from the larva, it is known that *Clione flavescens* possesses two pairs of cephaloconi, as in the foregoing species.

*Radula*.—Unknown in the adult; in the larva, there are 2 : 1 : 2 teeth (Fol)<sup>1</sup>; (in the adult the radula probably possesses twice or three times as many lateral teeth). The median teeth resemble those of *Clione limacina*, except that they possess a small median denticle.

*Hook-sacs* rather short in the larva.

*Colour*.—The skin is transparent with a yellowish reflection; the visceral mass has a yellow tint.

*Length*.—About 22 mm.

*Habitat*.—Messina (Sicily). The first "Preisverzeichniss" of the zoological station<sup>2</sup> mentions "*Clio flavescens*" from the Gulf of Naples, but the form there obtained was *Clionopsis krohni*. *Clione flavescens* has only been found at Messina, once in the adult, and twice in the larval state.<sup>3</sup>

It is a true *Clione*, as much by the shape of the body and foot as by the absence of gills. Bronn was therefore wrong in saying that only *Clionopsis* was found in the Mediterranean Sea.<sup>4</sup>

*Observation*.—I consider "*Clio aurantiaca*," which Fol thought "probably adult," as the young of *Clione flavescens*.

Notwithstanding that it has been seen to lay eggs, "*Clio aurantiaca*" is not an adult. It hardly reaches 2 mm. in length, and has still all the three ciliated rings; besides its radula has a larval formula.

<sup>1</sup> Sur le développement des Ptéropodes, Archives d. Zool. expér., sér. 1, t. iv. p. 179.

<sup>2</sup> Mitth. aus d. zool. Stat. zu Neapel, Bd. i.

<sup>3</sup> Besides Fol, J. Müller, Ueber verschiedene formen von Seethieren, Archiv f. Anat. u. Physiol., p. 70, 1854.

<sup>4</sup> Die Klassen und Ordnungen des Thierreichs, Bd. iii. p. 639.