

5. A series of five on each side of the abdomen, somewhat above the lower profile.
6. A series of seventeen along each side of the lower profile of the tail; these are smaller than the preceding, and the series is slightly interrupted behind the anal fin.
7. The organs on the head are all placed in its lower half; a series of six occupies the roots of the branchiostegals.
8. A very large one is placed above the lower rim of the præoperculum.
9. A small one occupies the suboperculum where it joins the operculum.
10. Finally, two of the smallest are placed, one in front of, the other behind the eye.

Gonostoma, Rafin.¹

As far as it is possible to make out the anatomical structure from a specimen of *Gonostoma denudatum* which has been preserved in spirits for some time, the conditions are the following:—

The œsophagus is continued into a very long, tapering cæcal stomach, the pyloric portion of which is surrounded by seven short pyloric appendages. The intestine is narrow throughout, attached in its upper portion along the cæcal sac of the stomach, and continued in a straight line to the vent.

The air-bladder is not only present but of large size, extending from one end of the abdomen to the other. Its dorsal wall, as well as its posterior extremity, is rather thick, whilst the membrane on its ventral aspect is very thin. I am unable to find any communication between it and the œsophagus. A narrow muscular band starts from each side of its anterior third, and is attached to the intermuscular ligaments of the fore part of the trunk. The posterior end of the bladder is obtusely rounded, and has a conical, muscular body attached to its ventral side. This muscular body is hollow in its interior, and seems to communicate with the cavity of the bladder; the broad end of the cone rests upon the coalescent mass of the kidneys, and is suspended by a tendinous ligament from the vertebral column.

Ovaries large, elongate, lamellated; ova minute.

Gonostoma denudatum, Raf.

D. 14–15. A. 30–31. P. 11–12. V. 8. L. lat. 36.

The height of the body is contained five and a half times in the total length (without caudal), the length of the head four times. Jaws heterodont, the intermaxillary being

¹ A fish, mentioned under the name of *Sigmops stigmaticus* (*Proc. U.S. Nat. Mus.*, 1884, p. 256), is not recognisable from the notes accompanying this binomial term.

A fish, mentioned and rudely figured in *La Nature*, 1884, p. 184, under the name of *Neostoma bathyphilum* [*? bathyphilum*], L. Vaill., from a depth of 2220 metres in the Eastern Atlantic, seems to belong to *Gonostoma*.