

characters, by which the Gadidæ have been divided. Of the four species known, *Læmonema yarrellii* and *Læmonema robustum* probably reach to or below the depth of 100 fathoms, but this is not sufficiently indicated by their organisation. *Læmonema brasiliense* (*Læmonema brevifile*, Gthr.) is a shore fish.

*Læmonema barbatulum.*

*Læmonema barbatula*, Goode and Bean, Bull. Mus. Comp. Zoöl., vol. x., 1883, p. 204.

B. 7. D. 5 | 63. A. 59. L. lat. 140. L. trans.  $\frac{1}{3}\frac{2}{1}$ .

The diameter of the eye is one-third of the length of the head. Length of the head equal to the distance between the root of the ventrals and the anal.

*Habitat.*—Several specimens were obtained in lat. 32° and 38° N., long. 73° and 78° W., by the United States Survey steamers at depths of from 225 to 312 fathoms.

*Haloporphyrus*, Gthr.

All the species of this genus belong to the deep-sea fauna.

*Haloporphyrus guentheri* (Pl. XVIII. fig. A).

*Haloporphyrus lepidion*, Günth., Fish., vol. iv. p. 358.

„ „ Johns., Ann. and Mag. Nat. Hist., 1862, vol. x. p. 166.

„ *guentheri*, Giglioli, Nature, 1880, Jan. 1.

„ „ Vinciguerra, Ann. Mus. Civ. Genoa, vol. xviii. p. 558.

B. 7. D. 4 | 52–56. A. 49–52. P. 21. V. 6. L. lat. 210. Cœc. phy. 15.

The diameter of the eye is one-sixth of the length of the head (in specimens 20 to 24 inches long). Caudal peduncle rather slender, its depth being two-thirds of the distance between dorsal and caudal fins. Fifteen or sixteen longitudinal series of scales between the anterior dorsal fin and the lateral line. The dorsal filament very thin, thread-like.

*Habitat.*—This species has been obtained off the coasts of Madeira and Portugal, and also in the Mediterranean.

The figure of the head is of the natural size and taken from a Madeiran specimen, 24 inches long.