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PLATE 4

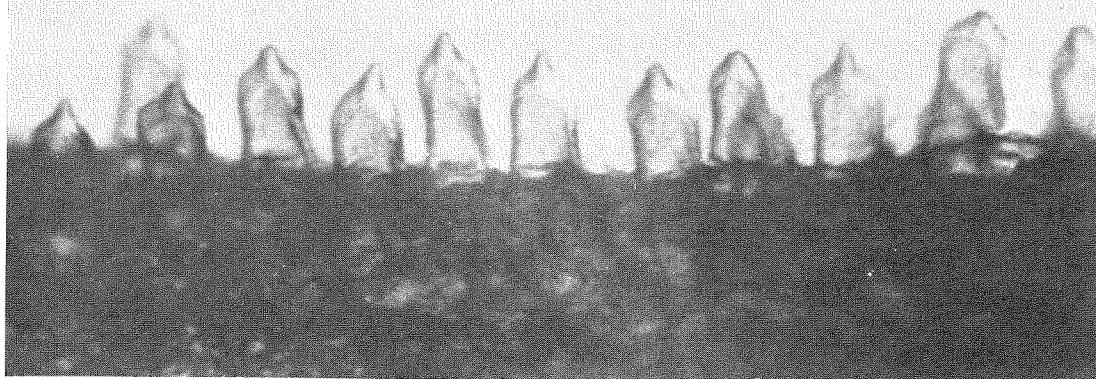
Fig. 1. Dentary teeth of *Bathymicrops regis*, UMML 31265.

Fig. 2. Dentary teeth of *Bathypterois viridensis*, UMML 31445.

Fig. 3. Dentary teeth of a young adult (SL 72 mm) of *Bathypterois phenax*, UMML uncat., "Columbus Iselin" St. 154, to show the large outwardly-directed arrowhead-shaped teeth.

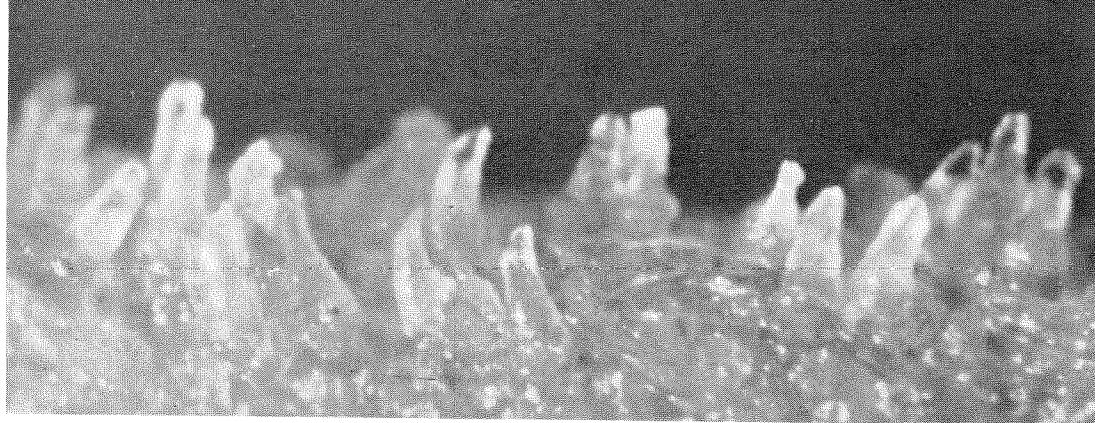
1

.2 mm



2

.2 mm



3

.2 mm

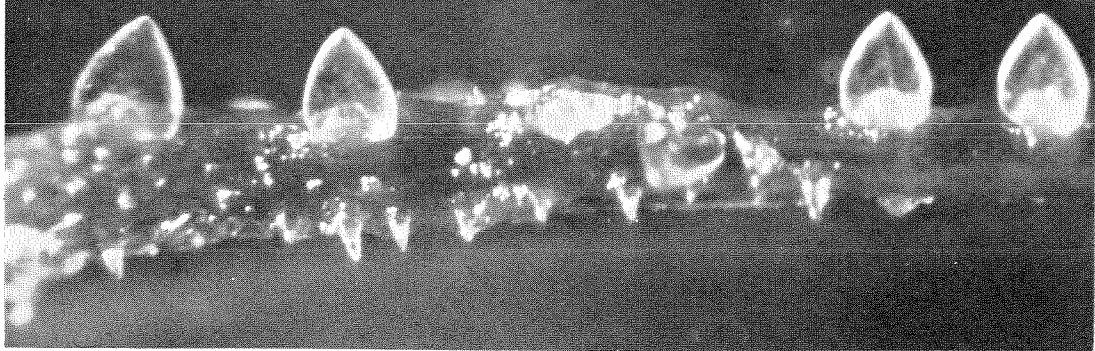


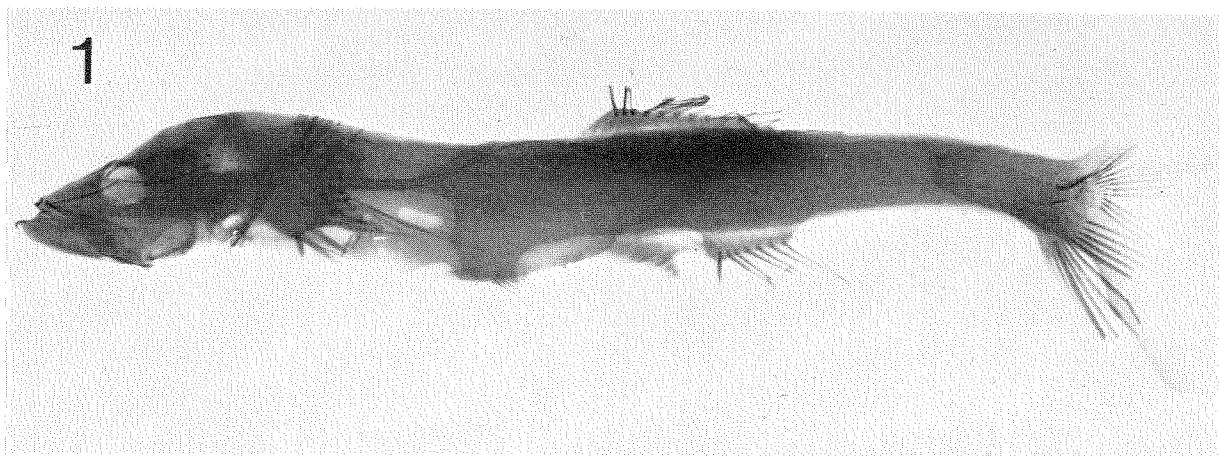
PLATE 5

Fig. 1. *Bathypterois grallator*, juvenile (SL 43 mm), UMML 24437 (positive from a radiograph).

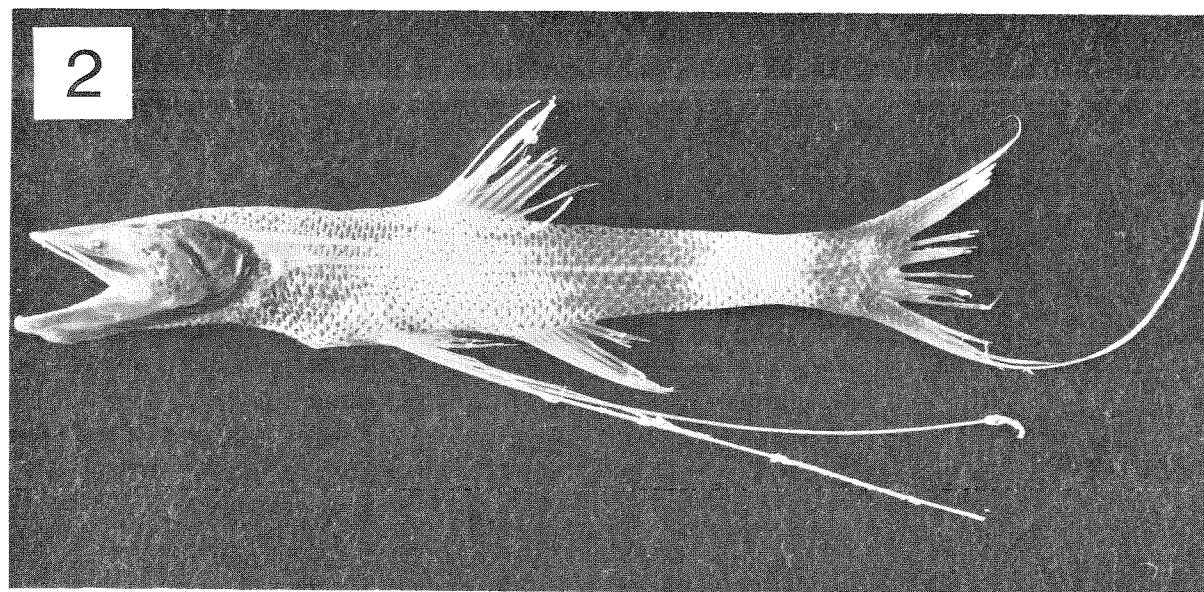
Fig. 2. *B. viridensis* (SL 128 mm), UMML 32715, illustrating the pattern of alternating light and dark color bands along the body.

Fig. 3. *B. guentheri*, USNM 159591 (color bands considerably faded).

1



2



3

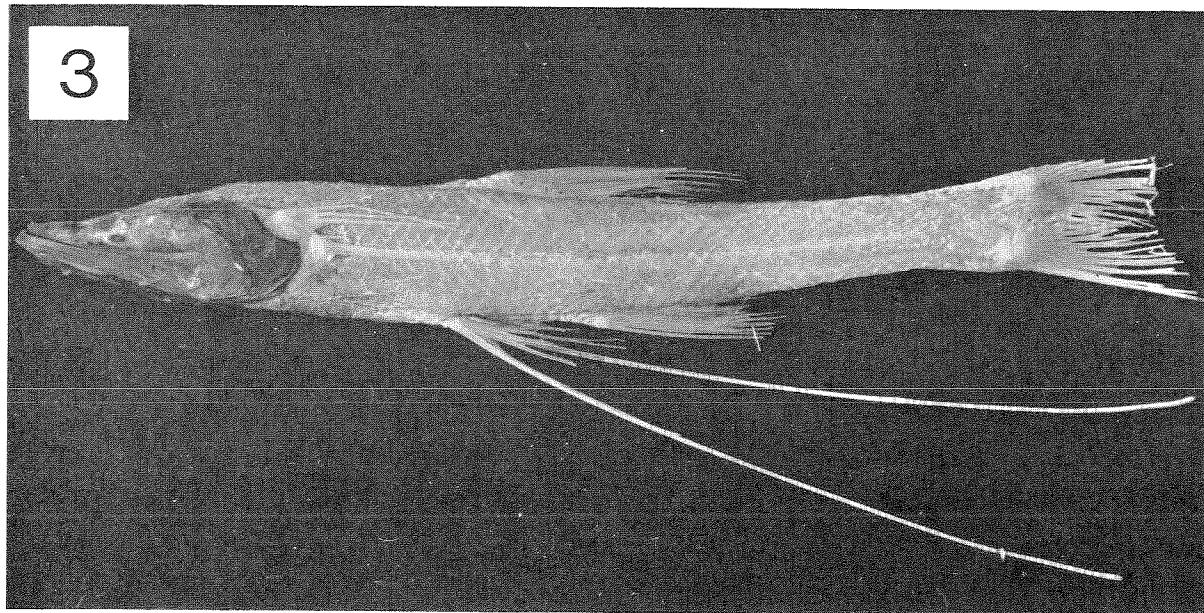
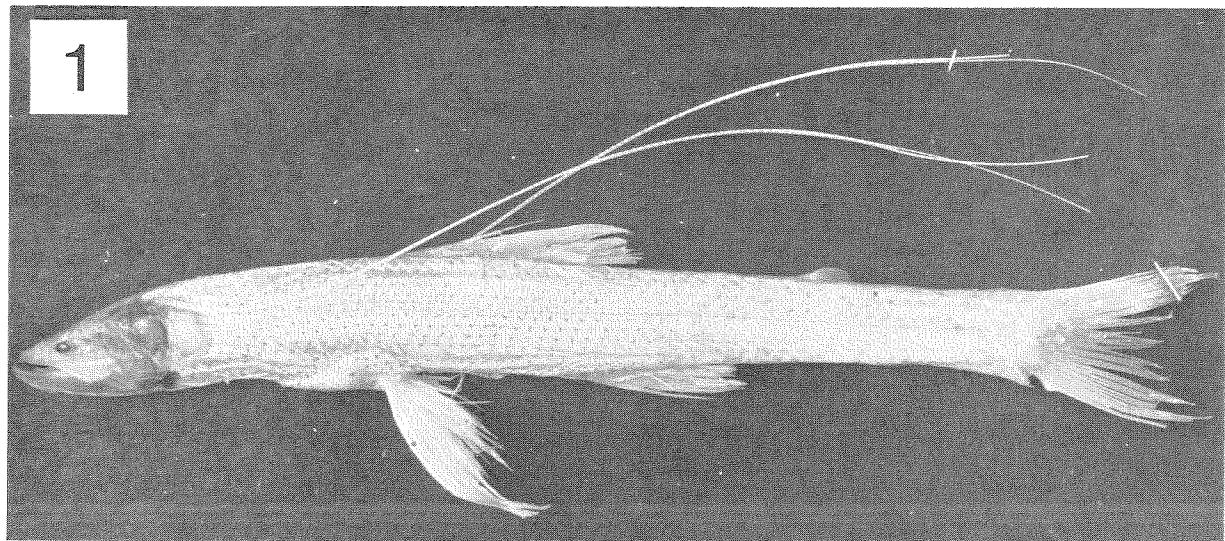


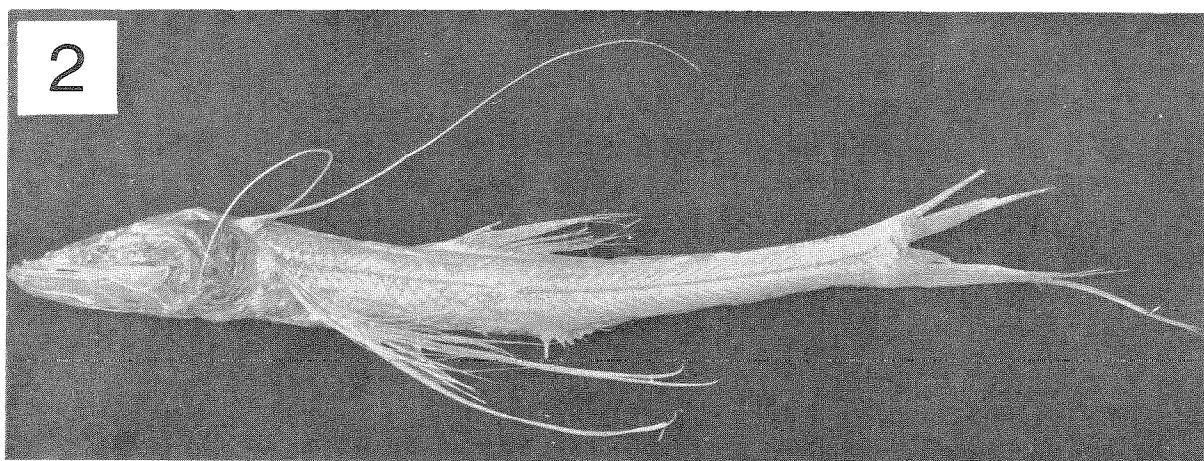
PLATE 6

- Fig. 1. *Bathypterois perceptor* n. sp., holotype (SL 165 mm), ISH 2006/68.
Fig. 2. *B. longicauda* (SL 122 mm), ZMUC, "Galathea" St. 654.
Fig. 3. *B. oddi* n. sp., holotype (SL 200 mm), ZMUC, "Galathea" St. 601.

1



2



3

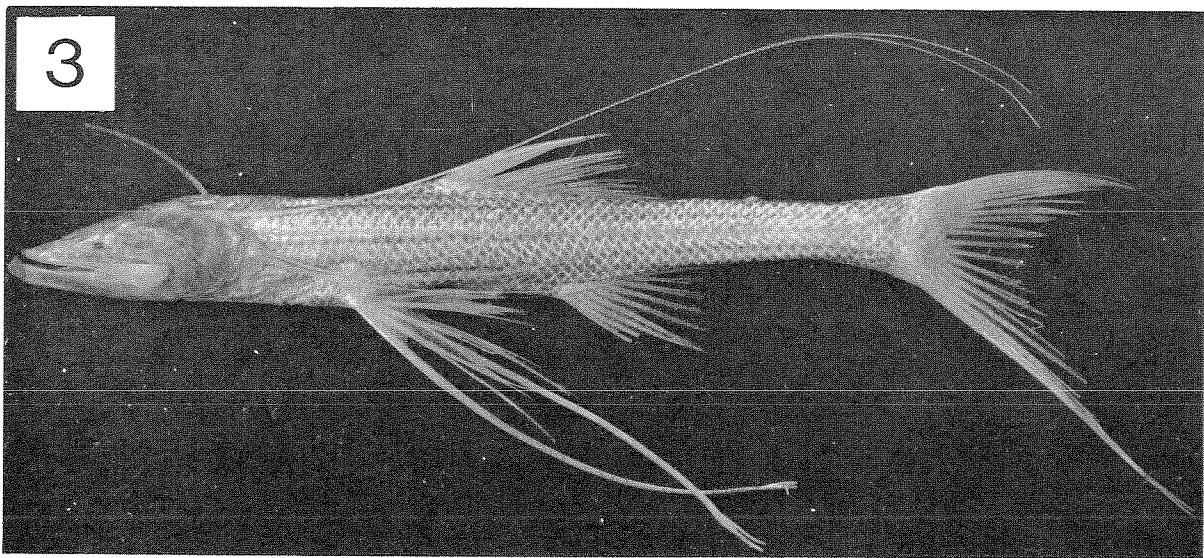


PLATE 7

- Fig. 1. A 6μ cross section through the fleshy pad on the tip of the produced outer pelvic fin ray of *Bathypterois viridensis*, UMML 28174, stained as per Gomori's one-step trichrome method. FR, bony fin-ray half; C, cartilaginous rod; E, epithelial tissue.
- Fig. 2. Enlargement showing detail of the area enclosed in the black rectangle of Fig. 1.
- Fig. 3. Innervation of the pectoral fin by spinal nerves 1, 2, and 3 in *B. atricolor*, UMML 21629. ln, lateral-line nerve; pr, adjoining bases of the produced rays (rays 3 and 4) of the upper portion of the pectoral fin; sn 1, 2, 3, spinal nerves.
- Fig. 4. The brain of *B. atricolor*, UMML 21629, illustrating the enlarged facial and vagal lobes of the medulla. c, cerebellum; f, facial lobe; g, proximal ganglion of spinal nerve 1; o, optic lobe; s, sagitta; sc, spinal cord; v, vagal lobe; V-X, cranial nerves.

