

A NEW SPECIES OF FISH OF THE GENUS *ATOPICHTHYS*, WITH NOTES ON  
NEW JERSEY FISHES.

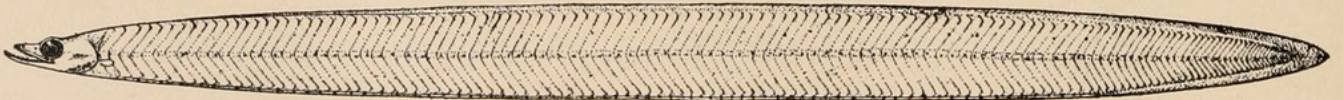
BY HENRY W. FOWLER.

*Atopichthys phillipsi* sp. nov.

Head about 14; depth about 14; snout about  $3\frac{1}{2}$  in head, measured from tip of upper jaw; eye  $3\frac{1}{3}$ ; maxillary 2; interorbital 5; head depth at occiput 2; muscular segments about 88 + 35?

Body oblong, greatly compressed, and tapering from about last third its length toward each end, greatest depth including area of trunk posterior to middle of entire body length. Tail tapering down rather suddenly.

Head widest part of body, compressed, upper profile generally concave and lower rather convex. Snout compressed, narrowly triangular, both in profile and as viewed from above. Eye large, rounded. Mouth large, oblique. Mandible shallow, attenuated, and protruding well be-



yond snout tip. Teeth narrow, long, pointed, apparently uniserial and all directed anteriorly in jaws. Tongue not evident. Nostrils small, well separated, similar, anterior near snout end and posterior close before eye. Interorbital slightly convex.

Gill-opening inferior, below and before pectoral base.

Body naked, smooth.

Vertical fins low, continuous around caudal, latter small, short and little developed. Pectoral small, short, low. Vent far back, near last sixth in entire length.

Color in alcohol whitish, becoming transparent when removed and a little dry, though again turning whitish when submerged. Along middle of each side a minute dark dot or chromatophore on most myocommas. Along lower edge of body also a dark chromatophore at most of myocommas. Occasionally minute chromatophores scattered inconspicuously along side of body, here and there. A number of rather enlarged blackish chromatophores in branchiostegal region. Iris blackish, veneered with silvery and slightly tinged pinkish.



Length  $3\frac{5}{16}$  inches (85 mm.).

Type, No. 36,638, A. N. S. P. Corson's Inlet, Cape May County, New Jersey. April 11, 1909. Dr. R. J. Phillips.

This interesting fish was picked up on the ocean beach after a storm, with a number of other small fishes, such as *Raja erinacea*, *Syngnathus fuscus*, *Hippocampus hudsonius*, *Centropristis striatus*, *Prionotus evolans strigatus*, *Gobiosoma bosci*, *Opsanus tau* and *Lophius piscatorius*. Dr. Phillips noted the color of the *Atopichthys* as ivory-white when first found and measuring  $3\frac{3}{4}$  inches in length, so that it has shrunk considerably after being placed in alcohol. It is most closely related to *Leptocephalus amphioxus* Eigenmann and Kennedy, but differs at once in having the area of its greatest depth extending well behind the middle of the length of the body, and therefore with an extremely elongated ovoid contour. It agrees, however, in the chromatophores and posterior vent, though there are no branchiostegal chromatophores indicated for *L. amphioxus*. Further it differs from the latter in fewer trunk myomeres, protruding mandible, widely separated nostrils, and more numerous ventral chromatophores. Possibly it may be the young of some genus like *Uropterygius*?

(Named for Dr. Richard J. Phillips, of Philadelphia, who collected the type.)

*Notes on some New Jersey Fishes.*—Dr. R. J. Phillips secured a number of interesting fishes at Corson's Inlet during the past season, among them a fine example of *Hemitripterus americanus* on April 25th, on May 10th a fine adult example of *Pomolobus mediocris* with a small blue *Petromyzon marinus* attached, and on March 21st six small *Fundulus luciae*. On May 20th he secured, besides an interesting young *P. mediocris*, *Anchovia mitchilli*, *Lucania parva*, *Syngnathus fuscus*, young *Poronotus triacanthus* and *Phycis regius* in the bait-net. A few specimens of *Menticirrhus americanus* were taken there during the past summer, as well as at Somers' Point, and early in November of 1908 several of *Squalus acanthias* and a large *Raja laevis* were taken at Corson's. Mr. W. J. Fox secured a fine *Zoarces anguillaris* taken March 14, 1909, and noted three *Pollachius virens* on April 4th at Sea Isle City. An *Alopias vulpes*,  $15\frac{1}{2}$  feet long, was taken at Cape May Point on June 18th, according to Mr. H. W. Hand. During the past month the latter also noted *Carcharias littoralis*, *Cynais canis* and *Sphyrna zygaena* about Cape May, and found *Gambusia gracilis* apparently more abundant in Teal's Branch than when first discovered in 1907. On July 14th I received a *Raja eglanteria* and four *Dasyatis*



*centroura* from off Green Creek in Delaware Bay. Mr. Fox is informed that two large *Tarpon atlanticus* were reported from the pounds at Sea Isle City about 1901 or 1902. Mr. I. N. DeHaven reported *Tarpon atlanticus* taken at Chadwick in 1907, and *Trichuirus lepturus* later. Perhaps the most interesting fish captured in New Jersey waters this season was a fine large example of *Rhinoptera bonasus* taken on September 11th in the bay at Ocean City, and secured for the Academy by Mr. David McCadden. No definite New Jersey record has ever been given since LeSueur described it from Egg Harbor in 1817 in the JOURNAL of the Academy. Dr. Phillips has kindly furnished me with a drawing and detailed description of a young *Garrupa nigrata* taken at Corson's Inlet on September 2d, which is the first record for this fish in New Jersey waters.



Fowler, Henry W. 1909. "A new species of fish of the genus *Atopichthys*, with notes on New Jersey fishes." *Proceedings of the Academy of Natural Sciences of Philadelphia* 61, 406–408.

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