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VERTEBRAL ANOMALY IN *FUNDULUS SIMILIS*

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**ABSTRACT**  On May 11, 1978, a longnose killifish, *Fundulus similis*, exhibiting an extreme lordotic, scoliotic condition was collected on the north shore of Big Lagoon in Escambia County, Florida. The specimen was held for observation in a flow-through seawater aquarium for several weeks prior to being preserved and placed in the Gulf Breeze Environmental Research Laboratory Museum (No. AN-2146).

Vertebral anomalies have been reported in many fishes (Dawson 1964, 1966, 1971; Dawson and Heal 1976); however, I am unaware of any such reports for the longnose killifish *Fundulus similis* (Baird and Girard).

This specimen, standard length 54 mm (Figure 1), was collected on May 11, 1978, by Larry Goodman, James Patrick, Jim Eiland, and me in a 6.1 m beach seine on the north shore of Big Lagoon, approximately 1.1 km east of Trout Point, in Escambia County, Florida (salinity = 6 ppt, temperature = 28°C). Radiographs (Figure 1) taken shortly after capture show severe lordosis and scoliosis of the caudal vertebrae with a suggestion of abnormal rotation of the vertebrae on their longitudinal axis. The vertebral count revealed 14 thoracic and 20 caudal vertebrae.

The specimen was maintained with several similar sized longnose killifish in a flow-through seawater aquarium for observation for nine weeks. The extreme lordotic and scoliotic condition appeared to have little effect on the animal's ability to obtain food, maintain itself in the water column, or conduct itself "normally" under aquarium conditions. At the time of collection, and again four weeks after being placed in the aquarium, the specimen displayed male breeding coloration as described by Springer and Woodburn (1960). After nine weeks, the killifish developed fin rot and was preserved to avoid further degradation of tissues. The preserved specimen is now housed in the Gulf Breeze Environmental Research Laboratory Museum (No. AN-2146).

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