9-1980

First Record of the Sea Lamprey, *Petromyzon marinus* L., in the Gulf of Mexico

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DOI: 10.18785/negs.0401.06

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Recommended Citation

Vladykov, V. D. and E. Kott. 1980. First Record of the Sea Lamprey, *Petromyzon marinus* L., in the Gulf of Mexico. *Northeast Gulf Science* 4 (1).
Retrieved from <https://aquila.usm.edu/goms/vol4/iss1/6>

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FIRST RECORD OF THE SEA LAMPREY, *Petromyzon marinus* L., IN THE GULF OF MEXICO

The sea lamprey, *Petromyzon marinus*, has a very wide distribution, occurring throughout western Europe, North Africa (Algeria) and along the Atlantic drainages of North America. However in North America it was reported only as far south as northern Florida (Bigelow and Schroeder, 1948; Potter and Beamish, 1977).

In the present note we are reporting an extension of the known range of this species into the Gulf of Mexico. The record is based on a single specimen received on loan from the National Museum of Natural History, Smithsonian Institution, Washington, D.C.

Collection details are as follows:

Locality — Cape San Blas, tidal pond near point, Florida, Gulf of Mexico basin.

Date — June 20, 1932.

Collector— Issac Ginsburg

In order to verify this record Janet R. Gomon, Museum Specialist, Division of Fishes, Smithsonian Institution, checked their ichthyological files and confirmed that Isaac Ginsburg worked in the Gulf of Mexico for the Fish and Wildlife Service during the time in question. Dr. Lachner, also of the Smithsonian Institution recalls that Ginsburg worked with Gordon Gunter in the Gulf region.

The specimen, 136 mm in total length, had almost completed metamorphosis, but did not reach macrophthalmia stage, as yet. The fimbriae on the anterior margin of the disc were poorly developed and teeth were not cornified though could be counted.

Body proportions, expressed as a percentage of total length (after Vladykov and Follett, 1965) are as follows: pre-branchial length 11.8; branchial length 8.1;

disc length 6.3; eye length 2.9; trunk length 43.4; tail length 28.7. It has 68 trunk myomeres.

The incomplete metamorphosis, along with small size and inshore location, suggest that it had recently descended from a nearby river, perhaps the Apalachicola River. All this indicates that *P. marinus* breeds in tributaries of the Gulf of Mexico. Therefore, it is unlikely that this specimen is a stray individual or one which has been brought to the area attached to some fish or other object.

Extensive sampling of nearby rivers, especially for ammocoetes should be undertaken to determine the distribution of *P. marinus* in the Gulf of Mexico. Ammocoetes of the sea lamprey can easily be separated from other lamprey species, known to occur in the area, by high number of trunk myomeres (67-74 in *P. marinus*).

Other species, reported from the watersheds of the Gulf of Mexico, are characterized by having low myomere counts: *Ichthyomyzon gagei* has 49-59 myomeres and *I. castaneus* 49-57 myomeres (Hubbs and Trautman, 1937; Dendy and Scott, 1953; Cook, 1959; Douglas, 1974, *Lethenteron meridionale* 50-58 myomeres and *Lampetra aepyptera* 50-60 myomeres (Smith-Vaniz, 1968; Vladykov *et al.*, 1975).

ACKNOWLEDGMENTS

The authors are very grateful to the authorities of the Smithsonian Institution for the privilege to study a specimen of *P. marinus* from the Gulf of Mexico.

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