

Unraveling the Loch Ness Monster's eel connection

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Loch Ness lake in the Scottish Highlands with a water ripple and unknown object in the distance. Credit: JMIR Publications

In a new study published in *JMIRx Bio*, scientist Floe Foxon explores whether the Loch Ness Monster, a creature in Scottish folklore, could be a giant eel. Using previous estimates of the monster's size to predict the probability of encountering a large eel of a similar size, the study found that giant eels could not account for sightings of larger animals in Loch Ness, a freshwater lake in the Scottish Highlands.

For decades, speculations about the Loch Ness Monster have captivated the world's imagination, with some suggesting that giant eels may be responsible for many sightings. This research, however, casts doubt on the eel theory. The study used catch data from Loch Ness and other freshwater bodies in Europe to predict the likelihood of observing eels as large as previous estimates of the Loch Ness Monster's size.

The chances of encountering a 1-meter eel in Loch Ness, according to the study, are approximately 1 in 50,000, which could explain some sightings of smaller unknown creatures. The probability of finding much larger eels, however, is virtually zero, debunking the theory that giant eels account for sightings of larger animals.

While acknowledging the potential presence of large eels in the loch, the study concludes that purely statistical considerations do not support the existence of exceptionally large eels.

"In this new work from the Folk Zoology Society, a much-needed level of scientific rigor and data are brought to a topic that is otherwise as slippery as an eel. Contrary to popular conception, the intersection between folklore and zoology is amenable to scientific analysis and has



the potential to provide valuable insights into anthrozoological phenomena. This work also champions open access science and nontraditional publishing—the future of scientific publication," says author Floe Foxon.

This study contributes to a better understanding of the Loch Ness Monster phenomenon and continues the quest to uncover the truth behind one of the world's most enduring mysteries.



Length distributions for European eels (Anguilla anguilla) captured in Loch Ness, Scotland (left) and in Zeeschelde, Belgium (right). The lower plots show the probability of finding an eel at least as long as L. Dotted lines represent skew normal distribution fits. Dashed lines represent generalized extreme value distribution fits. The number of bins follows the rule provided by Freedman and Diaconis. Credit: *JMIRx Bio* (2023) DOI: 10.2196/49063



More information: Floe Foxon et al, The Loch Ness Monster: If It's Real, Could It Be an Eel? *JMIRx Bio* (2023). DOI: 10.2196/49063 xbio.jmir.org/2023/1/e49063

Provided by JMIR Publications

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