

# High rates of mercury biomagnification in fish from Amazonian floodplain-lake food webs

Author links open overlay panel [Kelsey Nyholt<sup>a</sup>](#) [Timothy D. Jardine<sup>a</sup>](#) [Francisco Villamarín<sup>b</sup>](#) [Cristina M. Jacobi<sup>cd</sup>](#) [Joseph E. Hawes<sup>efg</sup>](#) [João V. Campos-Silva<sup>eg</sup>](#) [Stephen Srayko<sup>a</sup>](#) [William E. Magnusson<sup>c</sup>](#)

The screenshot shows a web browser displaying the article page on ScienceDirect. The browser's address bar shows the URL: <https://www.sciencedirect.com/science/article/abs/pii/S0048969722022549>. The page features a navigation menu on the left with options like 'Highlights', 'Abstract', 'Graphical abstract', 'Keywords', and a numbered list of sections (1. Introduction, 2. Methods, 3. Results, 4. Discussion). The main content area displays the article title, authors, and a 'Highlights' section with three bullet points. On the right, there are sections for 'Article Metrics' and 'Social Media'. The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons, along with system information: 18°C, Lluvia, 10:14 a. m., 19/05/2022.

Amazon Regional University IKIAM does not subscribe to this content.

Science of The Total Environment  
Volume 833, 10 August 2022, 155161

## High rates of mercury biomagnification in fish from Amazonian floodplain-lake food webs

[Kelsey Nyholt<sup>a</sup>](#), [Timothy D. Jardine<sup>a</sup>](#), [Francisco Villamarín<sup>b</sup>](#), [Cristina M. Jacobi<sup>cd</sup>](#), [Joseph E. Hawes<sup>efg</sup>](#), [João V. Campos-Silva<sup>eg</sup>](#), [Stephen Srayko<sup>a</sup>](#), [William E. Magnusson<sup>c</sup>](#)

[Show more](#)

[Add to Mendeley](#) [Share](#) [Cite](#)

<https://doi.org/10.1016/j.scotenv.2022.155161> [Get rights and content](#)

### Highlights

- Tropical freshwaters should have low Hg risk.
- We tested Hg magnification in the fish food web of 12 floodplain-lakes of the Juruá River.
- Food chains were short, but Hg magnification rates and baselines were higher than expected.
- Concentrations in predatory fish and magnification rates were higher in the low-water season.
- High Hg concentrations and high fish consumption rates pose risks of Hg toxicity for humans.

**Article Metrics**

**Social Media**

Shares, Likes & Comments: 57  
Tweets: 4

**PLUMX** [View details](#)