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**Contact:**

Minamata Convention's Interim Secretariat: Sheila Logan, Programme Officer

([sheila.logan@unep.org](mailto:sheila.logan@unep.org); Tel: +41 22 91 78511)

IPEN: Lee Bell, IPEN Mercury Technical Advisor ([LeeBell@ipen.org](mailto:LeeBell@ipen.org); Tel: +61 417 196 604)

BRI: David Evers, BRI Executive Director ([David.Evers@briloon.org](mailto:David.Evers@briloon.org); Tel: +1 207-839-7600)

## New study reveals elevated levels of mercury in women of child bearing age in Pacific Island countries

A new study, supported by the Minamata Convention's Interim Secretariat hosted by UN Environment (download [full report with raw data annex](#) or [summary report](#)), reveals that women of childbearing age living in four Pacific Island countries have elevated levels of mercury in their bodies. *Mercury monitoring in women of childbearing age in the Asia and the Pacific Region*, jointly conducted by the interim secretariat of the Minamata Convention, Biodiversity Research Institute (BRI), and the global NGO network IPEN, examined hair samples from women aged 18 - 44 from Cook Islands, Marshall Islands, Tuvalu, and Kiribati, and two landlocked Asian countries, Tajikistan and Nepal. The study found 96 percent of the women sampled from the Pacific Islands contained significantly elevated hair mercury levels.<sup>1</sup> Researchers hypothesized that the Pacific Island participants may have a higher mercury body burden than other locations due to their relatively high consumption of predatory fish species shown to have elevated mercury concentrations in previous studies

"Mercury has been recognized as a substance of global concern, with impacts on vulnerable populations," said Jacob Duer, Principal Coordinator of the Minamata Convention's Interim Secretariat. "Our results show why global action to prevent mercury releases through the Minamata Convention is so important."

In contrast to the Pacific Islands, samples from Tajikistan, where fish consumption is very low, had the least amount of mercury overall, with an average level of .06 ppm. In Nepal, elevated mercury levels were found in women with a low fish diet, but worked making gold-plated religious idols using mercury.

"This study underscores the importance of biomonitoring mercury pollution," said David Evers, PhD, executive director and chief scientist at BRI and co-author of the study. "Although the subjects in this study represent small selected populations, the information gained contributes to overall global information on mercury concerns. Mercury contamination is ubiquitous in marine and freshwater

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<sup>1</sup> Women in the sampled Pacific Island countries contained average mercury concentrations between 2 ppm - 3.7 ppm. These concentrations exceed 1 ppm which is equivalent to US EPA's maximum tolerable daily mercury intake below which the appreciable risk of harmful effects during a lifetime is minimal.

systems around the world. Biological mercury hotspots are globally common and are related to a variety of human activities. For these reasons, it is critical that we continue biomonitoring efforts to track potential impacts on local communities and on the environment in order to evaluate the effectiveness of the Minamata Convention.”

Mercury exposure is particularly concerning for women of childbearing age as it can damage the nervous system, kidneys, and cardiovascular system. Developing organ systems, such as the foetal nervous system, are the most sensitive to the toxic effects of mercury, although nearly all organs are vulnerable.

“A global pollutant like mercury can contaminate people even if they are far from gold mining, coal power plants or incinerators,” said Lee Bell, IPEN. “And that’s why all sources of mercury need to be tackled.

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Minamata Convention’s Interim Secretariat hosted by UN Environment is supporting work towards implementation of the Minamata Convention, including efforts on public information, awareness and education. The Minamata Convention has the objective to protect the human health and the environment from anthropogenic emissions and releases of mercury and mercury compounds, and will enter into force after the deposition of the 50<sup>th</sup> instrument of ratification. [www.mercuryconvention.org](http://www.mercuryconvention.org)

Biodiversity Research Institute is a nonprofit ecological research group whose mission is to assess emerging threats to wildlife and ecosystems through collaborative research, and to use scientific findings to advance environmental awareness and inform decision makers. BRI is the leading international institute supporting the global mercury monitoring efforts for the Minamata Convention on Mercury. [www.briloon.org](http://www.briloon.org)

IPEN is a network of non-governmental organizations working in more than 100 countries to reduce and eliminate the harm to human health and the environment from toxic chemicals. [www.ipen.org](http://www.ipen.org)