this individual could be part of a previously unrecorded relictual population. Genetic analysis of fecal samples could shed light on this.

Using camera traps, we have identified the animal as a male and found no evidence of other accompanying giant otters. To ensure the survival of this individual, it is paramount that deforestation around the Park is halted and any poaching in the Bermejo River deterred. Federal and provincial governments need to work together to increase patrolling in the lands around the Park and along rivers. Conservation translocations of captive-bred and wild individuals could be considered, to increase the likelihood of establishing a founding population.

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Giant otters are negatively affected by a new hydropower dam in the most protected state of the Brazilian Amazon

The giant otter *Pteronura brasiliensis* is endemic to South America and categorized as Endangered on the IUCN Red List. The Amazon basin is one of the last strongholds for this species, yet recent human expansion across Amazonia has led to an increase in the number of hydropower dams, which negatively affect both freshwater and terrestrial biodiversity. Although areas with low human population density that held giant otters before dam construction may have potential for the conservation of the species (Rosas et al., 2007, *Oryx*, 41, 520–524), there has been no previous robust documentation of the impacts of hydropower developments on the species.

We conducted a before–after control–impact study to evaluate the effects of a new run-of-river hydropower dam on giant otters in the State of Amapá, eastern Brazilian Amazon. This state has the lowest deforestation rates and the highest territorial coverage of protected areas among all states of the Legal Brazilian Amazon, and has low human population densities. In surveys before (2011–2013 and 2015) and after (2016–2020) the construction of a large run-of-river hydropower dam (219 MW, height 20.6 m, reservoir covering 47.99 km²) we surveyed a total of 9,356 km along 139 km of rivers by boat.

There was a relatively constant detection rate in the control zone > 70 km upstream of the dam (0.11 and 0.10 detections/10 km before and after, respectively). In the directly impacted zone (< 50 km upstream of the dam, as established in the environmental impact assessment) the detections declined (0.03 and 0 detections/10 km before and after, respectively), with no evidence that giant otters remained in the impacted zone. Considering this region has a high coverage of protected areas, low deforestation rates (forest cover > 90% in the control zone) and a low human population density, it is imperative to emphasize the importance of mitigation to minimize the negative effects of new and planned hydropower dams. We expect that, in the absence of effective mitigation actions, the increasing number of new hydropower dams across Amazonia are likely to cause further reductions in giant otter populations. Contrary to portrayal in the media, run-of-river dams are not necessarily eco-friendly. Government efforts for more sustainable energy generation using a combination of technologies (e.g. in-stream turbines, solar and wind power) need to be reinforced.

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Biodiversity hotspot and Ramsar site under threat

Ndumo Game Reserve in South Africa, bordering Mozambique, is facing an existential threat and may not make its 100th anniversary in 2024. Ndumo, gazetted to protect the Vulnerable hippopotamus *Hippopotamus amphibious*, lies within the Maputaland–Pondoland Centre of Endemism and Biodiversity Hotspot. The northern and eastern borders were originally the Usuthu and Phongolo Rivers, respectively, but the Usuthu has since shifted course to flow through the Reserve. Mozambique now has claims on Reserve land north of the river, and Mozambicans have access to unfenced Reserve land.

An additional problem is illegal farming on the Phongolo floodplain in the eastern part of the Reserve. Ndumo protects 10% of the 13,000 ha floodplain, a major reason why Ndumo is a Ramsar Wetland of International Importance. This floodplain has the richest fish fauna of any river system in South Africa. Fishes breed there and migrate into the surrounding