

MSU part of team working to save endangered species in Nicaragua

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The Baird's tapir is one of several Central American animals that could be threatened by a canal project now under consideration in Nicaragua. An MSU researcher is a member of a team that has developed a conservation plan that might help save the habitat of this and other species. This photo was taken several years ago by the use of "camera trapping" -- the setting up of still and video cameras in order to "capture" the animal.

A proposed canal project in Nicaragua that would connect the Caribbean Sea with the Pacific Ocean could seriously deplete and disrupt the habitats of a number of animals, including some that are endangered.

In an effort to eliminate the damage, a team of researchers, including one from Michigan State University, has developed a conservation plan that, if implemented, could retain the habitat that is crucial for the animals' survival.

The study, published in the journal *PLOS ONE*, was conducted by scientists from MSU, the Global Wildlife Conservation and Panthera, an organization devoted to wild cat conservation.

As it stands now, the project calls for the building of an interoceanic canal that will connect the two bodies of water, bisecting the Central American nation and possibly threatening populations of jaguars, white-lipped peccaries and the globally endangered Baird's tapir.

The research used occupancy models to determine which part of the canal's proposed path provides crucial habitat to the country's rare [large mammals](#).

"The proposed canal would divide the Mesoamerican Biological Corridor and limit the movement of terrestrial wildlife," said Gerald Urquhart, an assistant professor in MSU's Lyman Briggs College and a team member. "In particular, wide-ranging species like jaguars and tapirs could be heavily impacted."

The Mesoamerican Biological Corridor is a multi-country effort to protect continuity of habitat from Mexico to Panama. It runs along the eastern side of Nicaragua.

The study found one of the key remaining area of suitable habitat for large mammals in the path of the proposed canal is a relatively thin strip of forest from the eastern edge of what will be known as Lake Atlanta, a manmade body of water near the Caribbean coast. Without this strip of land, the animals would be cut off from the larger habitat south of the canal and would struggle to find others for breeding.

The paper offers five recommended adjustments to the canal design that would make it easier for large mammals to move through the area. Among them are to move the location or adjust the size of Lake Atlanta to minimize flooding of those [habitat](#) areas, and to build small, forested islands that species could use as refuges. Nonetheless, the impact of the [canal](#) could be even greater if it leads to further deforestation of the remaining protected areas.

The International Union for Conservation of Nature classifies jaguars as near threatened globally, but are rare in Nicaragua with a population of fewer than 500. Baird's tapirs are close to critically endangered in Central America and many biologists believe that range-wide hunting has made the white-lipped peccary the most threatened mammal in Central America.

Provided by Michigan State University

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