

# Finding Skywalker gibbons with love songs: Study

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Valentine's day is over but love's call lingers: the Skywalker gibbons' mating song, scientists reported this week, has revealed a previously

unknown population—the largest in the world—of the endangered primate in the jungles of Myanmar.

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But in a new study published in the *International Journal of Primatology*, researchers confirmed Myanmar has the largest known population of Skywalker gibbons in a single location.

"This is a significant discovery for the future of primate conservation in Myanmar," Ngwe Lwin, expedition leader and Fauna & Flora country director in Myanmar, said in a statement.

Gibbons do not swim, restricting them to the forest canopy's towering treetops.

This means broad rivers cutting through the jungle can dictate where the species settles.

Though no live Skywalker gibbons have been confirmed in Myanmar over the past century, a team of researchers from Myanmar, the United States, Britain and Germany followed a hunch based on geography that the primates might be found between two rivers in the southeast Asian nation.

Between December 2021 and March 2023, researchers set up acoustic monitoring systems in the hopes of detecting and recording the Skywalker's morning love songs to figure out their location.

Then, the team collected half-eaten plants and fruits favored by the primates for genetic analysis.



Skywalkers have distinctive thin eyebrows, a black or brown beard rather than a white one, and females have incomplete white face rings.

When spotted, the researchers took photographs of Skywalker hoolock gibbons and compared them to other hoolock species, noting that Skywalkers have distinctively thinner eyebrows, a black or brown beard rather than a white one, and females have incomplete white face rings.

After determining viable habitat, analyzing recordings and photographs, sequencing DNA and interviewing [local wildlife](#) and conservation organizations, the team had no doubts: Myanmar is home to 44 groups of Skywalker gibbons.

While the exact number of Skywalker gibbons in the new location is still unknown, a 2013 population estimate suggested that there could have been up to 65,000 gibbons in the area where Skywalkers were identified.

However, the current number of individuals could be lower due to the threats the primates face.

## Urgent need for protection

Only four percent of habitat in Myanmar suitable for Skywalker gibbons is found in established protected areas.

Besides [habitat loss](#), other threats the primates face include land fragmentation and degradation, accelerating deforestation, "bush meat" hunting, and the live trade in exotic animals.

More than 95 percent of the skywalker [gibbon](#) population in Myanmar exists outside of protected areas, and [population decline](#) is projected to continue, and possibly accelerate, according to the study.

Given these threats, the researchers recommended to the International Union for the Conservation of Nature (IUCN) that the species keep its "endangered" status despite the discovery of a new population.

"Now more than ever, it is recognized that the collective efforts of stakeholders, including governments, communities and Indigenous Peoples groups, are the only effective way to protect and save our closest living relatives," Ngwe Lwin said.

**More information:** Pyae Phyo Aung et al, Confirmation of Skywalker Hoolock Gibbon (*Hoolock tianxing*) in Myanmar Extends Known Geographic Range of an Endangered Primate, *International Journal of Primatology* (2024). [DOI: 10.1007/s10764-024-00418-6](https://doi.org/10.1007/s10764-024-00418-6)

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