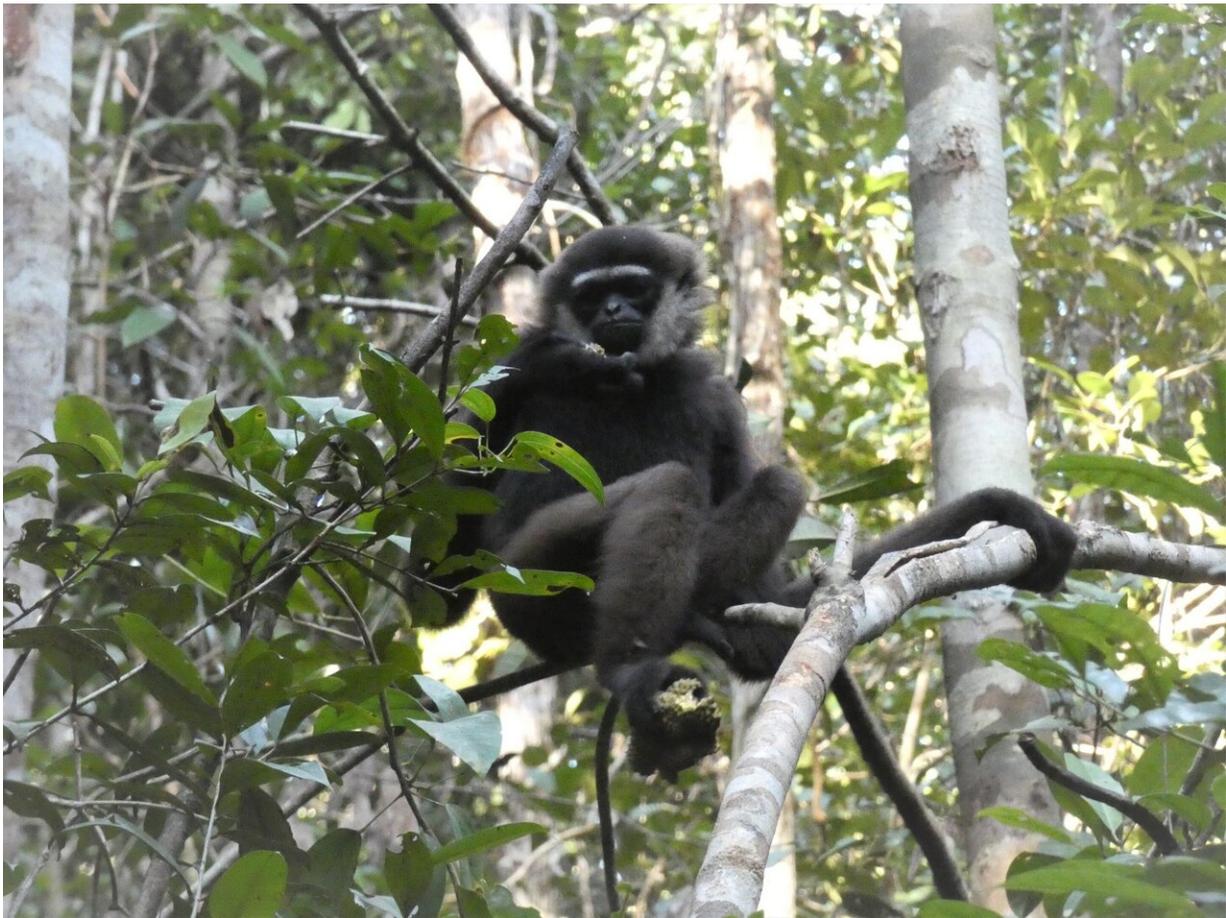


Gibbons' large, long-term territories put them under threat from habitat loss

July 31 2019



Sub-adult male gibbon. Credit: Borneo Nature Foundation

Wild gibbons living in the peat swamps of southern Borneo require

between 20 and 50 hectares of forest territory for each group, making their populations particularly vulnerable to habitat loss, according to a study publishing July 31 in the open-access journal *PLOS ONE* by Dr. Susan Cheyne at the Borneo Nature foundation, and colleagues.

Gibbons are highly territorial creatures, whose [habitat](#) is threatened by deforestation and wildfires, however, little is known about the size of their territories or how they use the space for feeding and social activities. The researchers monitored four groups of wild Bornean southern gibbons (*Hylobates albibarbis*) in Sebangau in Borneo, Indonesia between 2010 and 2018, recording the GPS location of the group, as well as observations of the creatures' behaviour at five-minute intervals from dawn till dusk.

They found that the Gibbons' territory included a core area of between 21 and 52 hectares where they sleep, socialise, and perform call 'duets' to each other, and which they defend fiercely. However, the apes also forage over a larger home range of up to 148 hectares that they share with neighboring groups—the largest home range recorded among Gibbons in the *Hylobates* genus.

The territories of three of the groups remained approximately the same throughout the 9-year study, but one group was forced to shift their range west when part of their habitat was damaged by [forest fires](#) in 2015, which destroyed forests across the islands of Borneo and Sumatra. Their large home ranges and territorial behaviour may make Gibbons particularly vulnerable to [habitat loss](#), as they are squeezed into fragments of [forest](#) too small to accommodate multiple competing groups.

Dr. Cheyne adds: "Gibbons show high site fidelity for specific areas of forest and maintain these territories over many years. Understanding how Gibbons use the forest is critical to their conservation. These data

can feed into creating protected areas of suitable size and habitat quality to maintain viable populations of the singing, swinging small apes."

More information: Cheyne SM, Capilla BR, K. A, Supiansyah, Adul, Cahyaningrum E, et al. (2019) Home range variation and site fidelity of Bornean southern gibbons [*Hylobates albibarbis*] from 2010-2018. *PLoS ONE* 14(7): e0217784. doi.org/10.1371/journal.pone.0217784

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