## LEAVE THE LEMURS ALONE

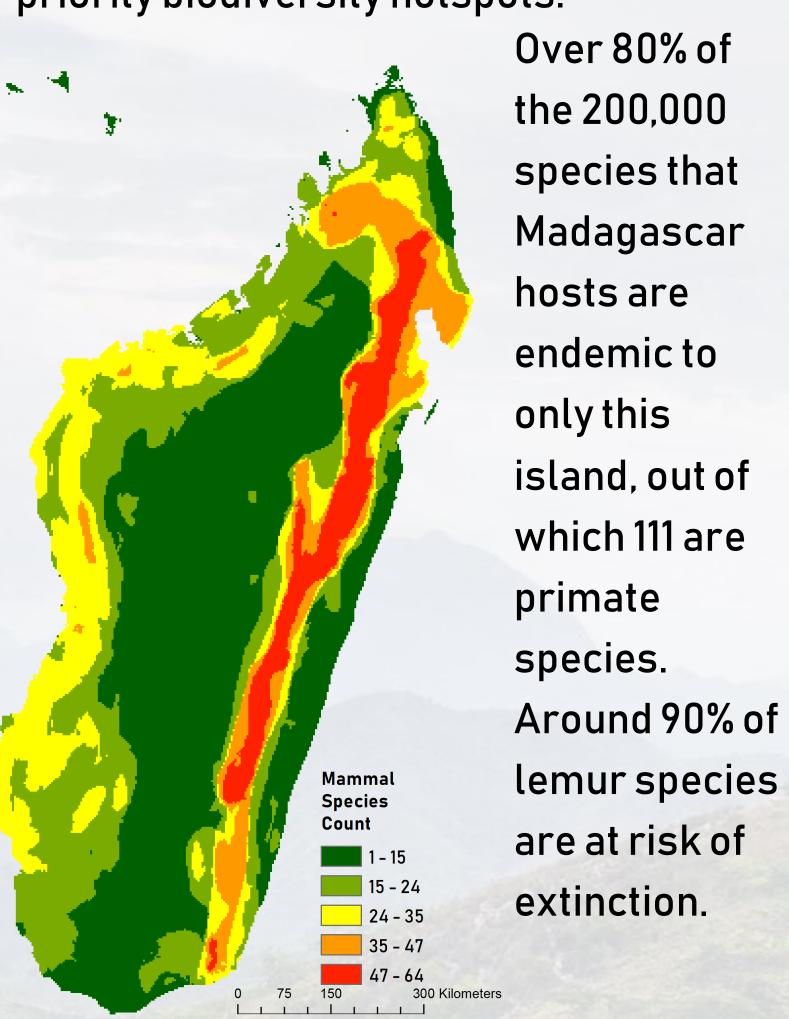
## How development is threatening Madagascar's biodiversity

Owing to its distinct geographically cut-off location, Madagascar has had the ability to develop distinct ecosystems and extraordinary wildlife. Madagascar is the world's fifth-largest island and has some of the most fascinating topography, allowing for all kinds of wildlife to thrive. It harbors lush rain forests, deserts, plateaus, dry forests and a 3,000-mile long coastline.

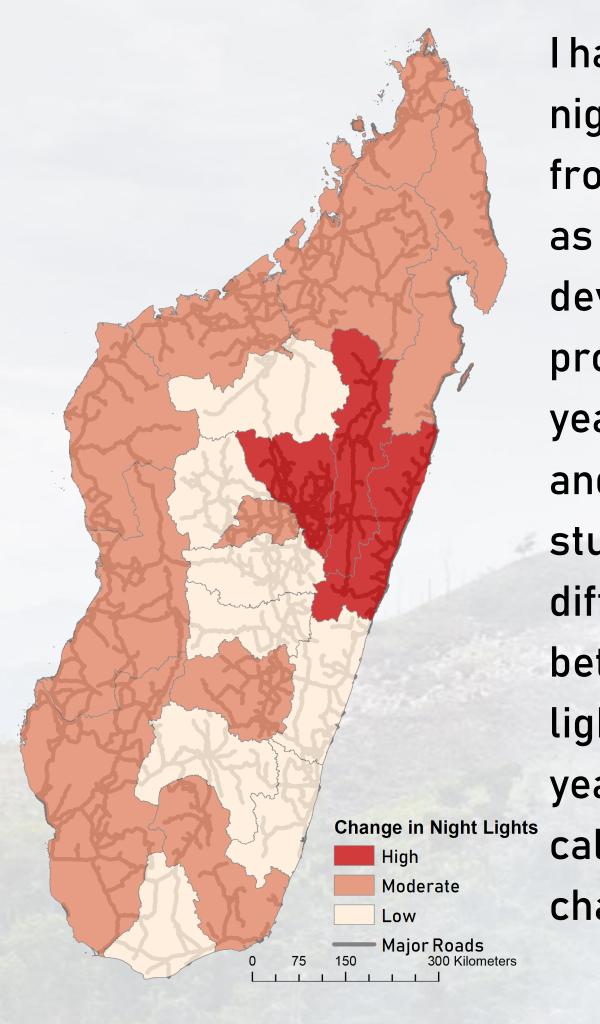


Madagascar is home to 21 million people who come from as diverse a background as the biodiversity here. More than 20 ethnic groups live on this island. Around 80% of the population lives below the poverty line.

Madagascar is one of the world's highest priority biodiversity hotspots.



Over the years, Madagascar has been developing much like the rest of the world.

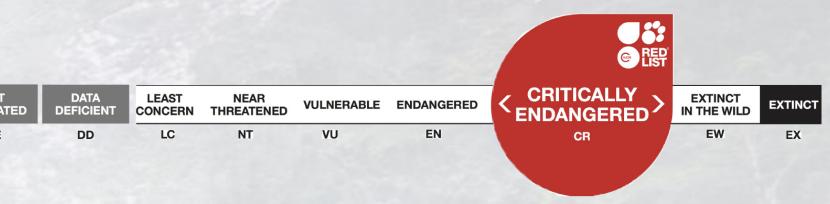


I have used night light data from satellites asa development proxy for the years of 1992 and 2013. I then studied the difference between the lights in both years and calculated the change.

UEP 232 | Intro to GIS Projection: Universal Transverse Mercator, Zone 38S

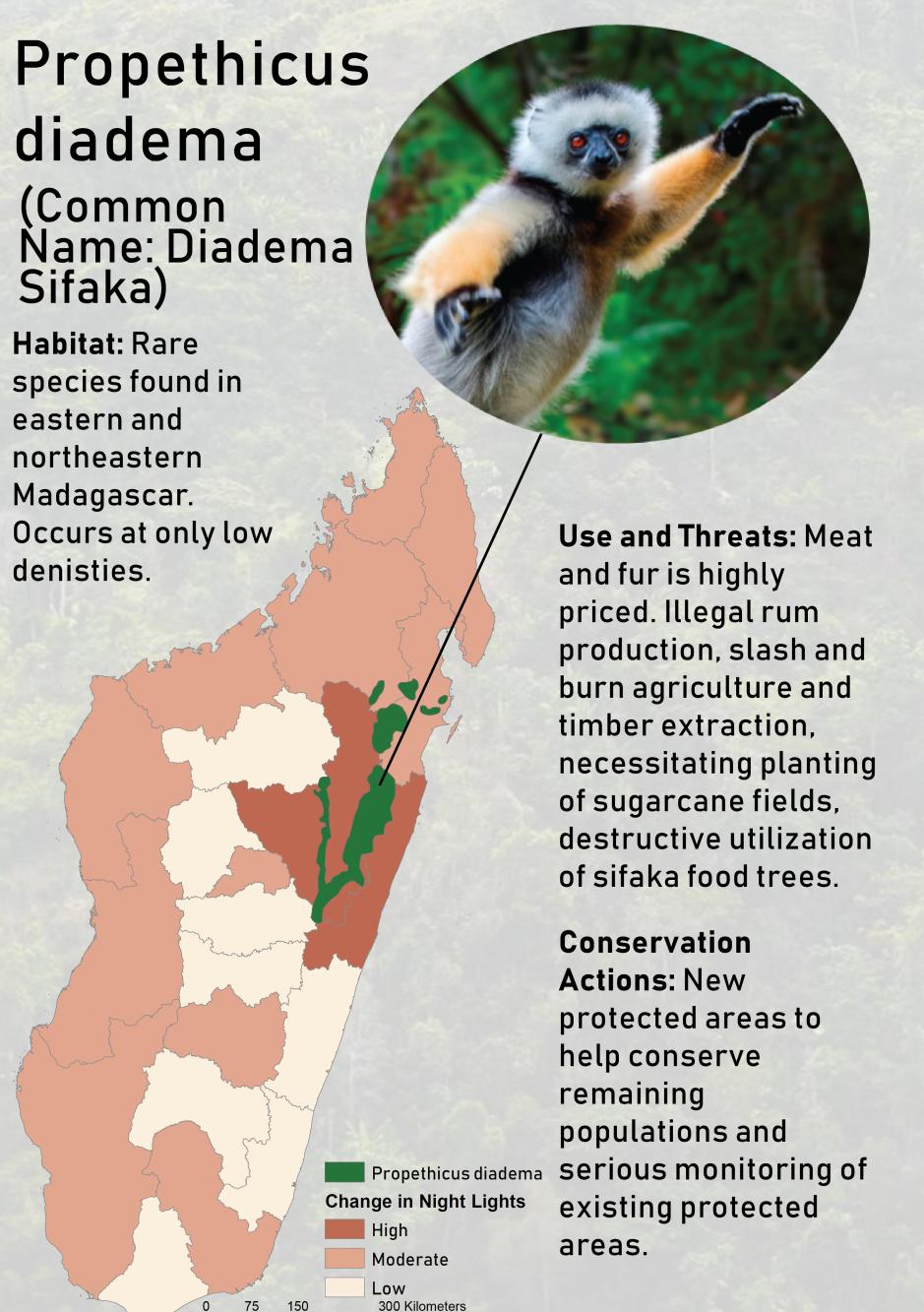
Created by: Alisha Patel

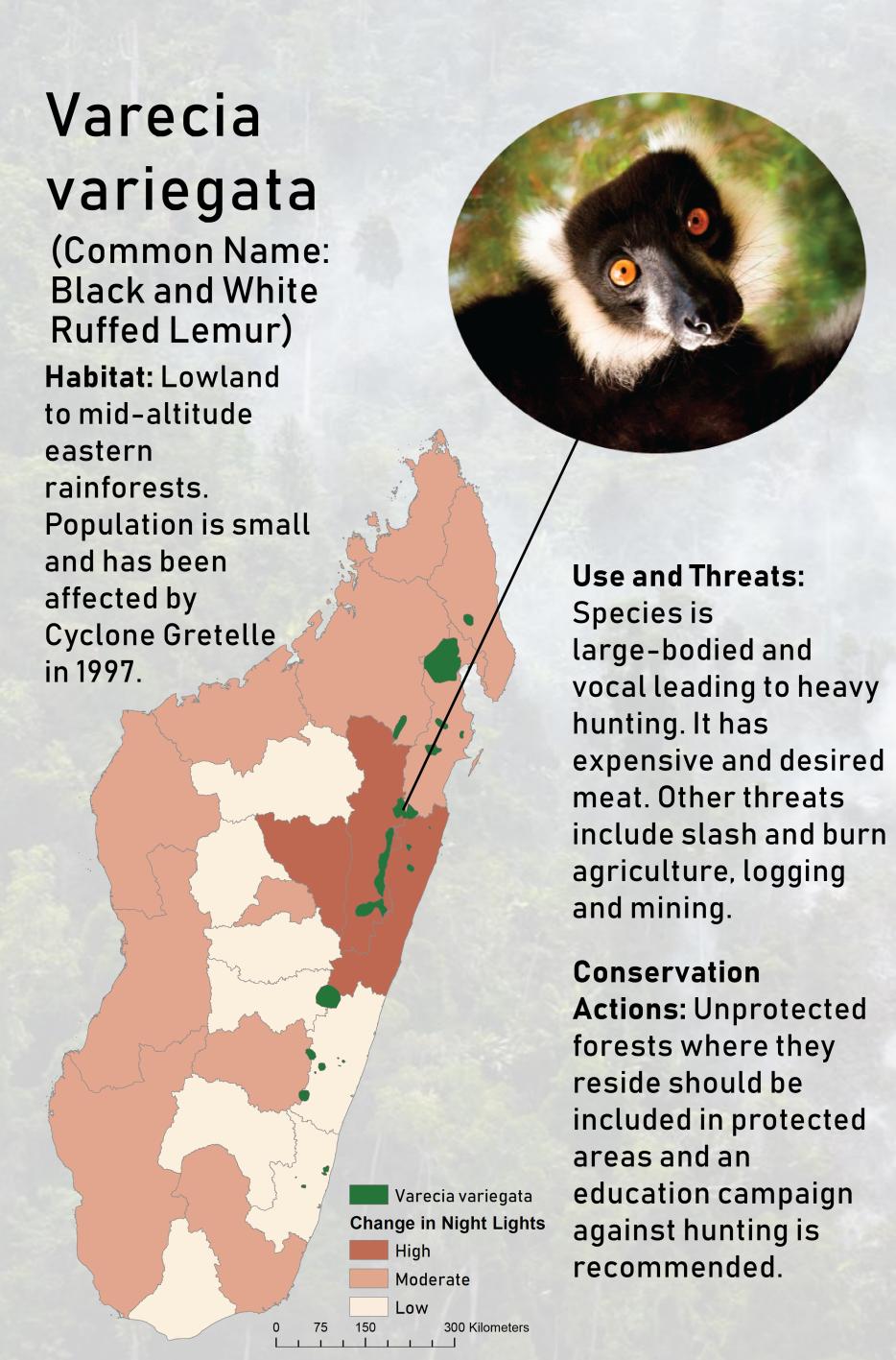
The areas of high night light change were matched with areas where mammals listed as Critically Endangered are found. This allowed me to narrow the study down to four lemur species that are in high danger of extinction. A lot of the threats surrounding biodiversity in Madagascar are related to illegal wildlife trade and unsustainable agriculture practices, which stem from the demands of global markets and from the growing needs of the population.

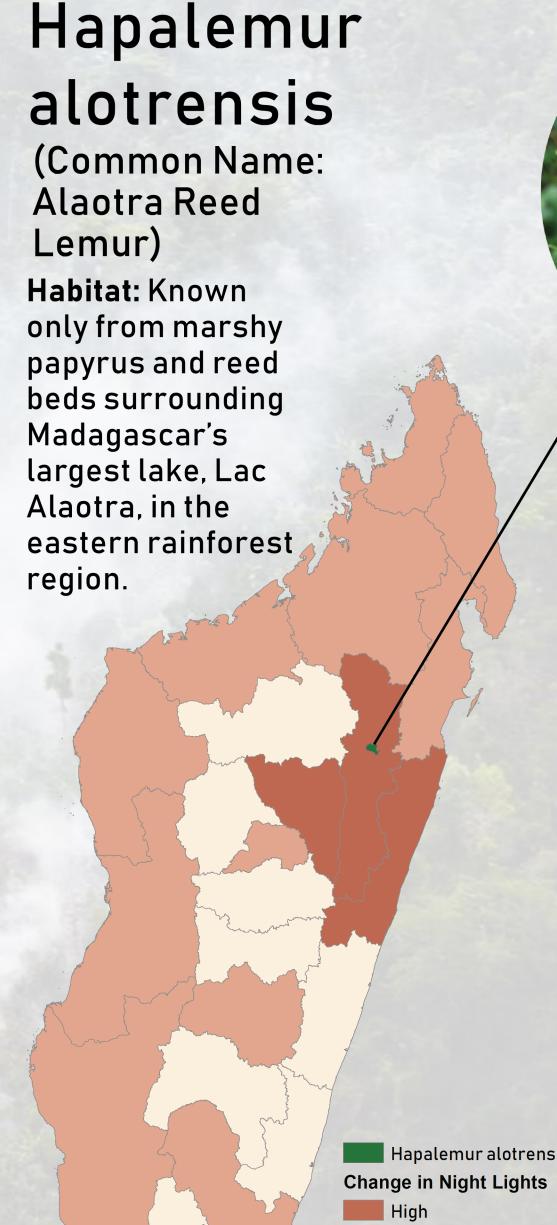


Widespread clearance of forests for fuel, logging and charcoal completely destroy the habitats of the variety of biodiversity found on this island.

## Indri indri (Common Name: Indri) Habitat: Eastern rainfirests, low elevations, ranges up to 1,800 m. Occurs in three national parks, one protected area. Use and Trade: Illegal hunting as food. Meat fetches high price. Threats: Slash and burn agriculture, logging, fuelwood gathering Conservation Actions: Region wide conservation education program to help eliminate hunting. The species does not do well in captivity. The preotected areas need to be more Indri indri Change in Night Lights protected. Moderate Low









Moderate

Low

needed. Stronger

public awareness

needed.

campaigns are also

Data Sources: International Union for Conservation of Nature (IUCN), NASA Observatory, DIVA GIS, World Wildlife Fund | Image Sources: Nick Riley, Nick Garbutt, James Morgan