Potential subjects for Master Theses 2024-2025

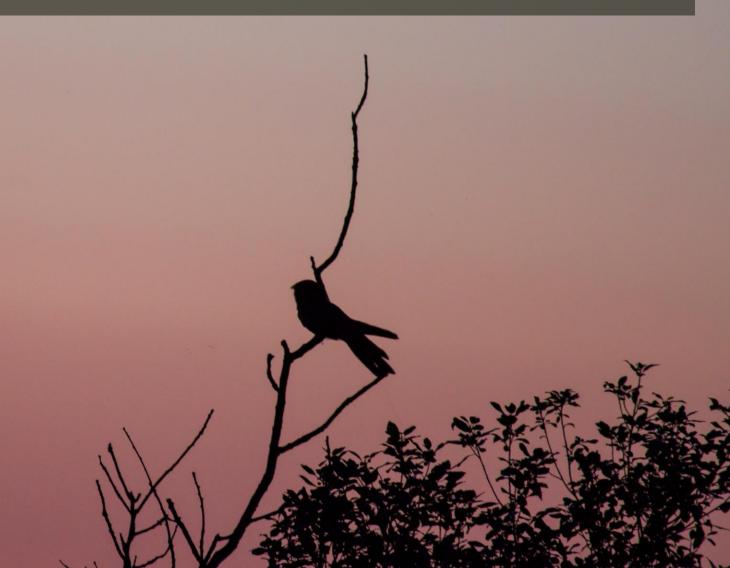
- Nightjar Research Group -

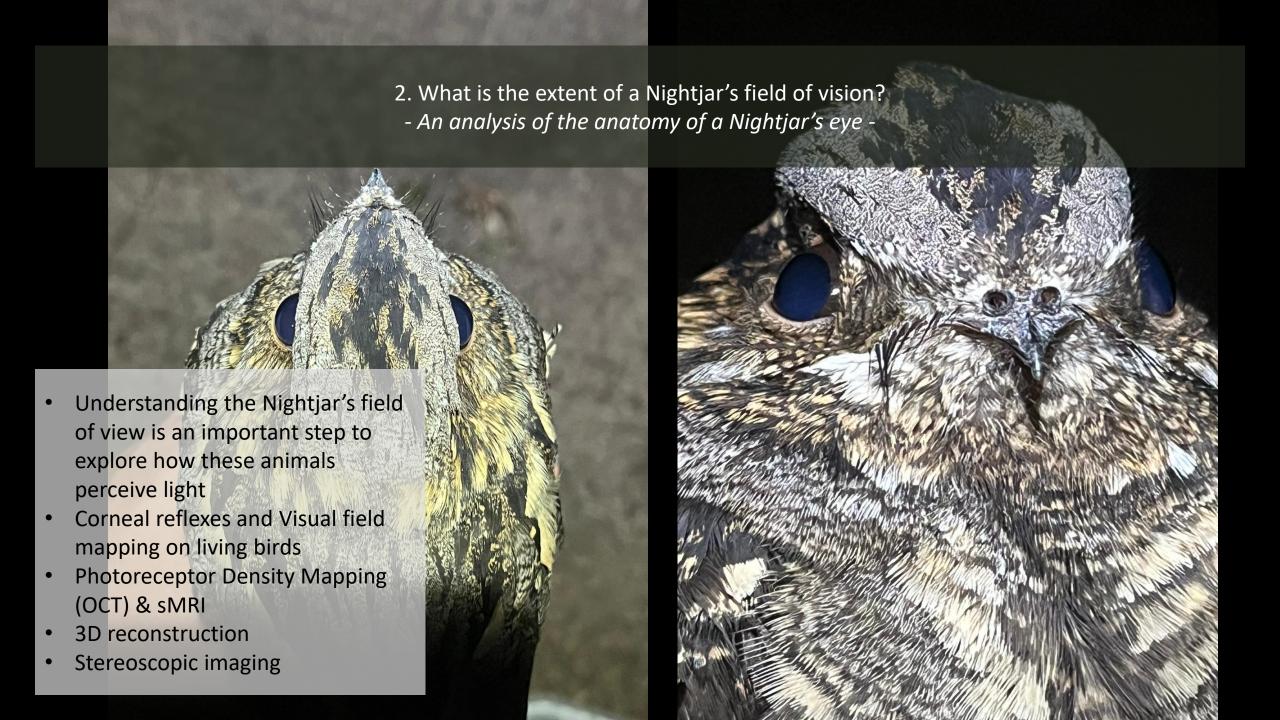


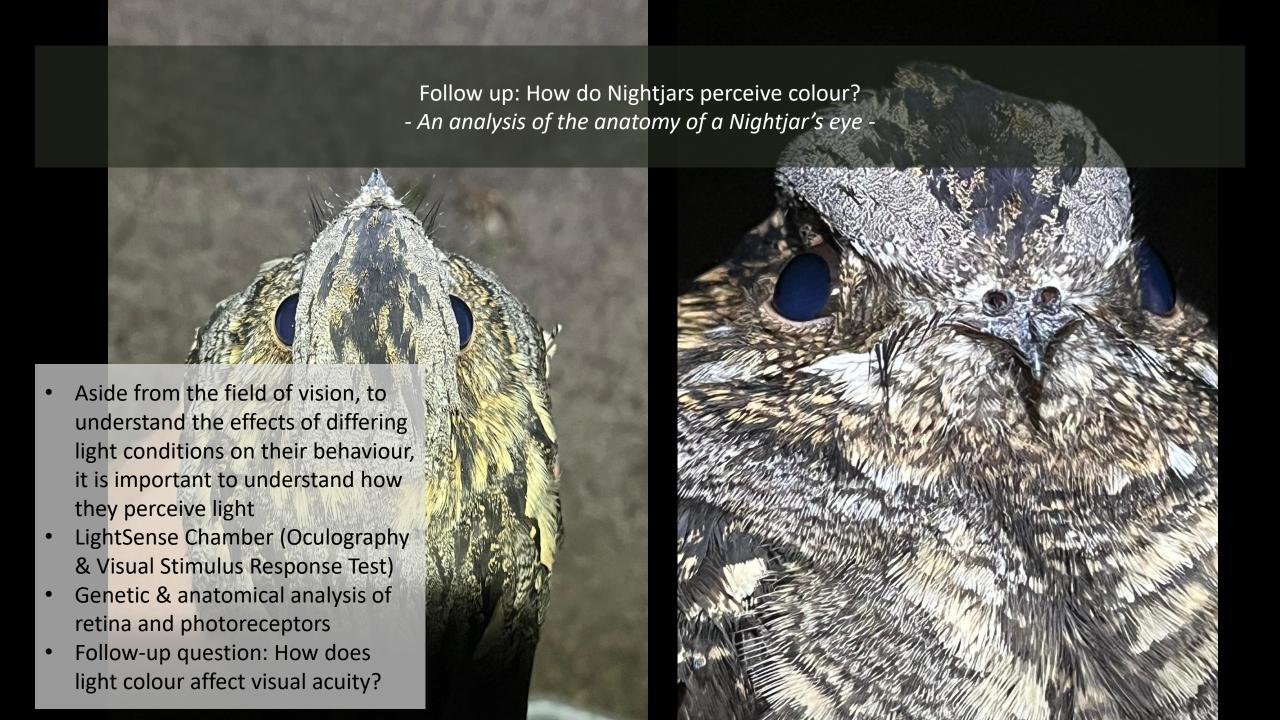
1. A formal demarcation of a Nightjar's territory based on their song posts.

- Where does a Nightjar sing with respect to its nest? -

- Methodological study to aid in the prediction of nest sites
- Combine GPS + accelerometer to define song posts
- Link location of song posts to nest location
- Correlate the frequency of song post visits to distance from nest







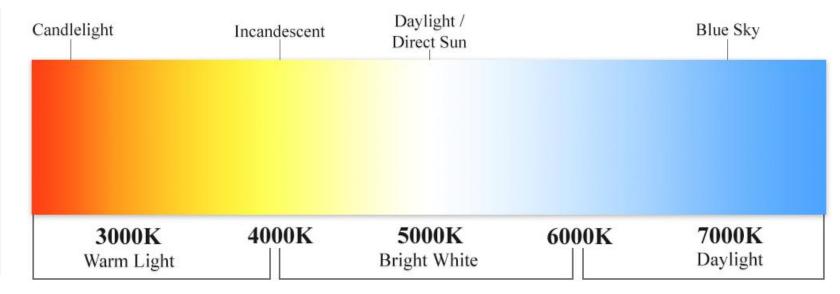


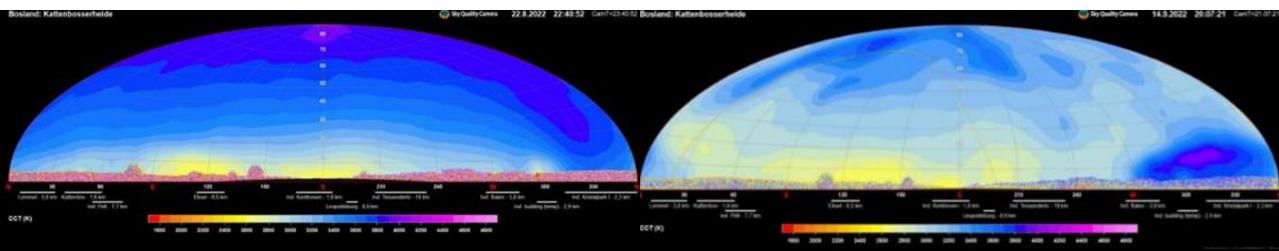


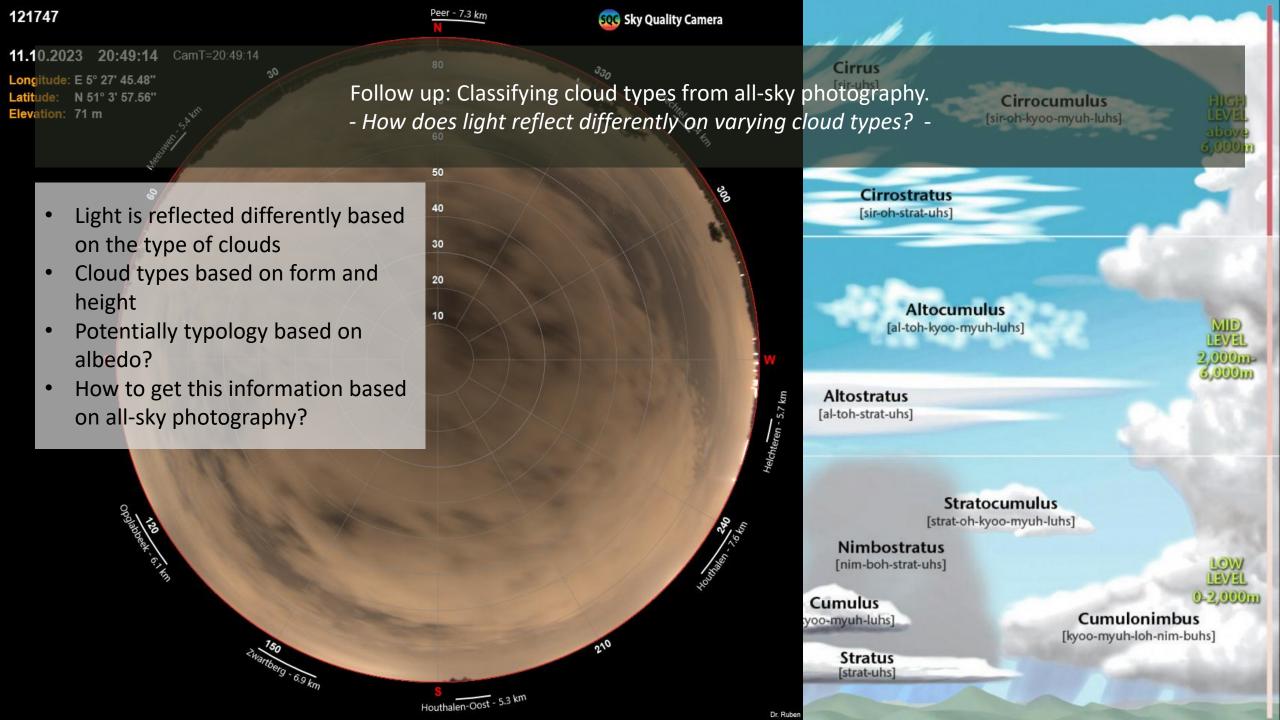
Follow up: How does correlated colour temperature reflect different wavelengths of colour?

-Measuring colour from all-sky photography -

- Sky Quality Camera measures Correlated Colour Temperature (CCT)
- Measures how warm or cold white light is
- Enough for skyglow analysis?
- Spectral analysis based on pixel images?







- 4. Prey abundance under different light conditions and different micro-habitats How do ambient light levels affect the spatial patterns of moths -
- Nightjars often forage along the forest edge
- Moth abundance generally higher in forest than in open fields, so nightjars might exploit edgeeffects of forested areas
- How do different light levels affect the spatial patterns of these moths



5. Foraging ecology of Red-necked Nightjars in Donana National Park
- How does the sudden introduction of artificial light shape the foraging behaviour of nightairs -



- The introduction of artificial light in Donana National Park has attrackted individuals that suddenly perch on poles to feed in a previously unsuitable site for foraging nightjars.
- What is happening? Which individuals come here? How does this affect population dynamics?....

