



# **DIVERSITY AND RESTORATIVE ASSESSMENT OF FRAGMENTED CLOUD FOREST ECOSYSTEM IN BOPATHTHALAWA; CENTRAL HIGHLANDS OF SRI LANKA**

PERERA P. M

OLU WATER | EARTHLANKA YOUTH NETWORK

**Olu.**  
*tropical water*

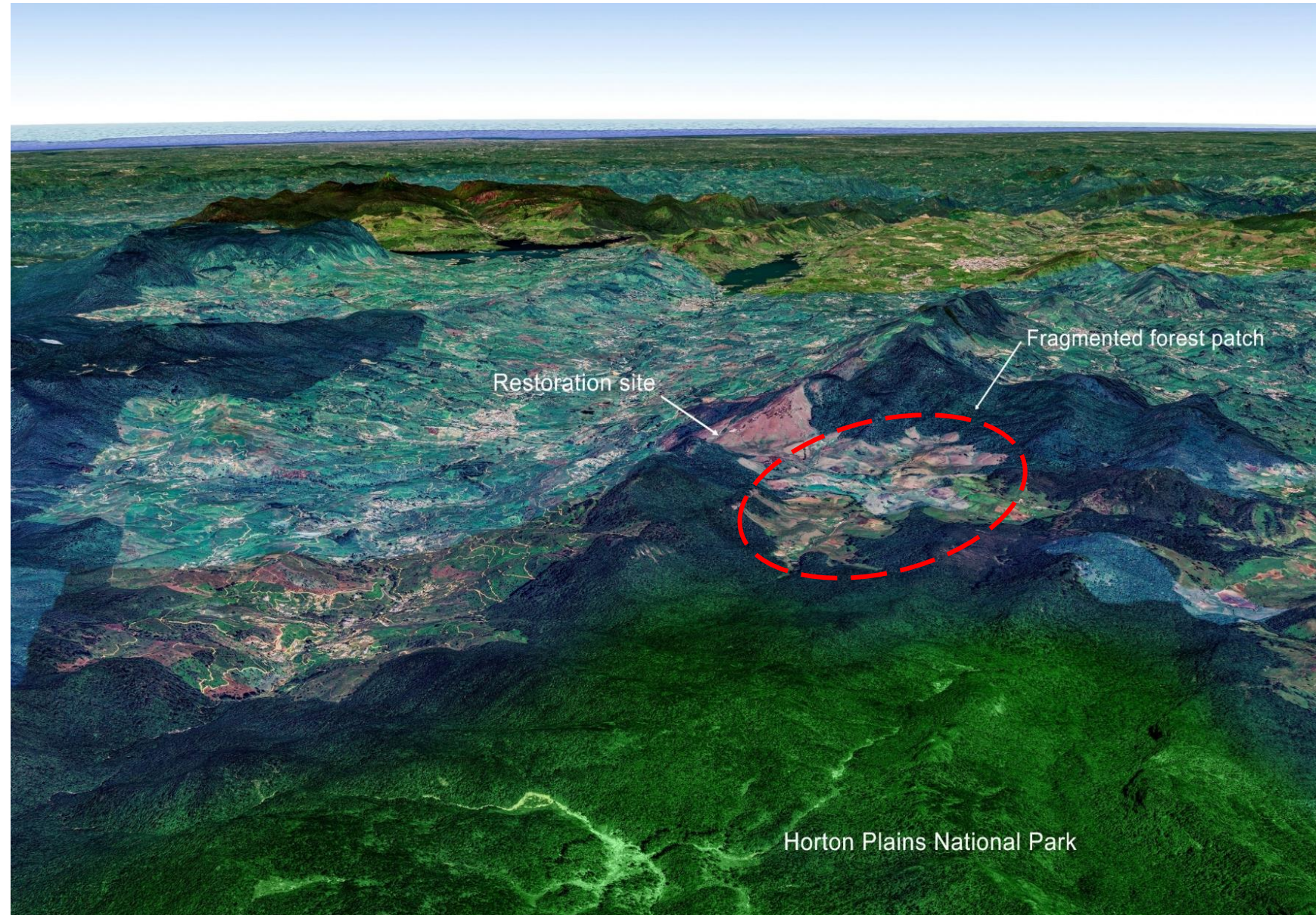
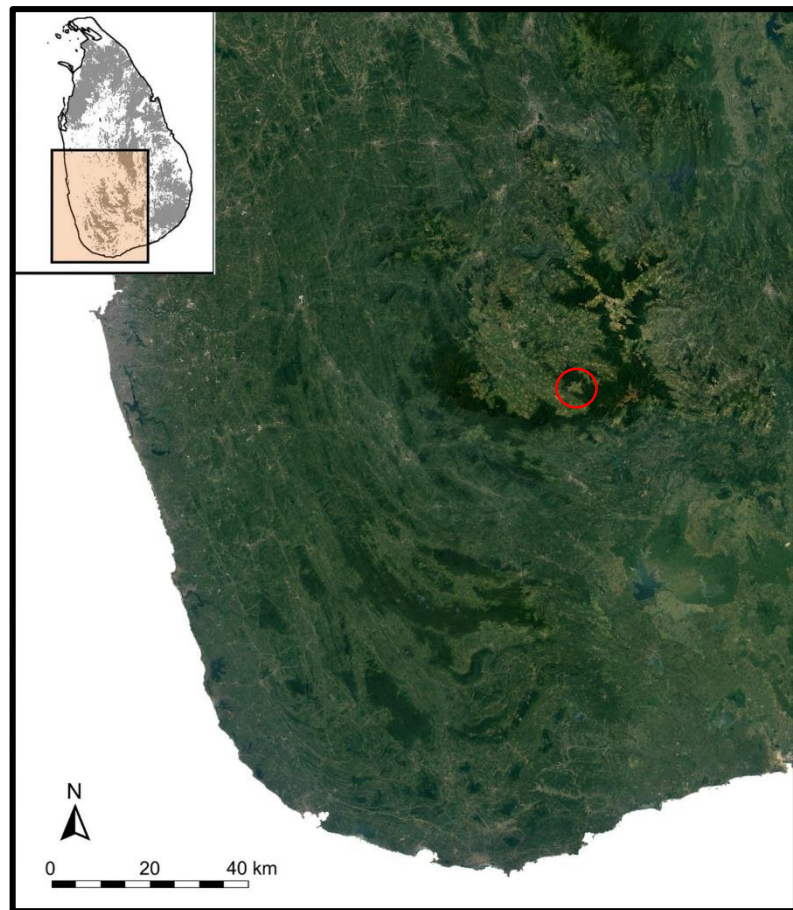
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# Concern

- Cloud forest of Sri Lanka is shrinking by the day due to anthropogenic activities (encroachment, tree felling and burning forest for agriculture)
- These forests are the heart of all water sources of the country enriching over 103 rivers in Sri Lanka
- Greater number of fauna and flora are within these forest and are threatened by the loss of their habitats and also due to fragmentation of forest



# Location



Agarapathana, Bopaththalawa  
6°80'95.06"N, 80°69'58.25"E

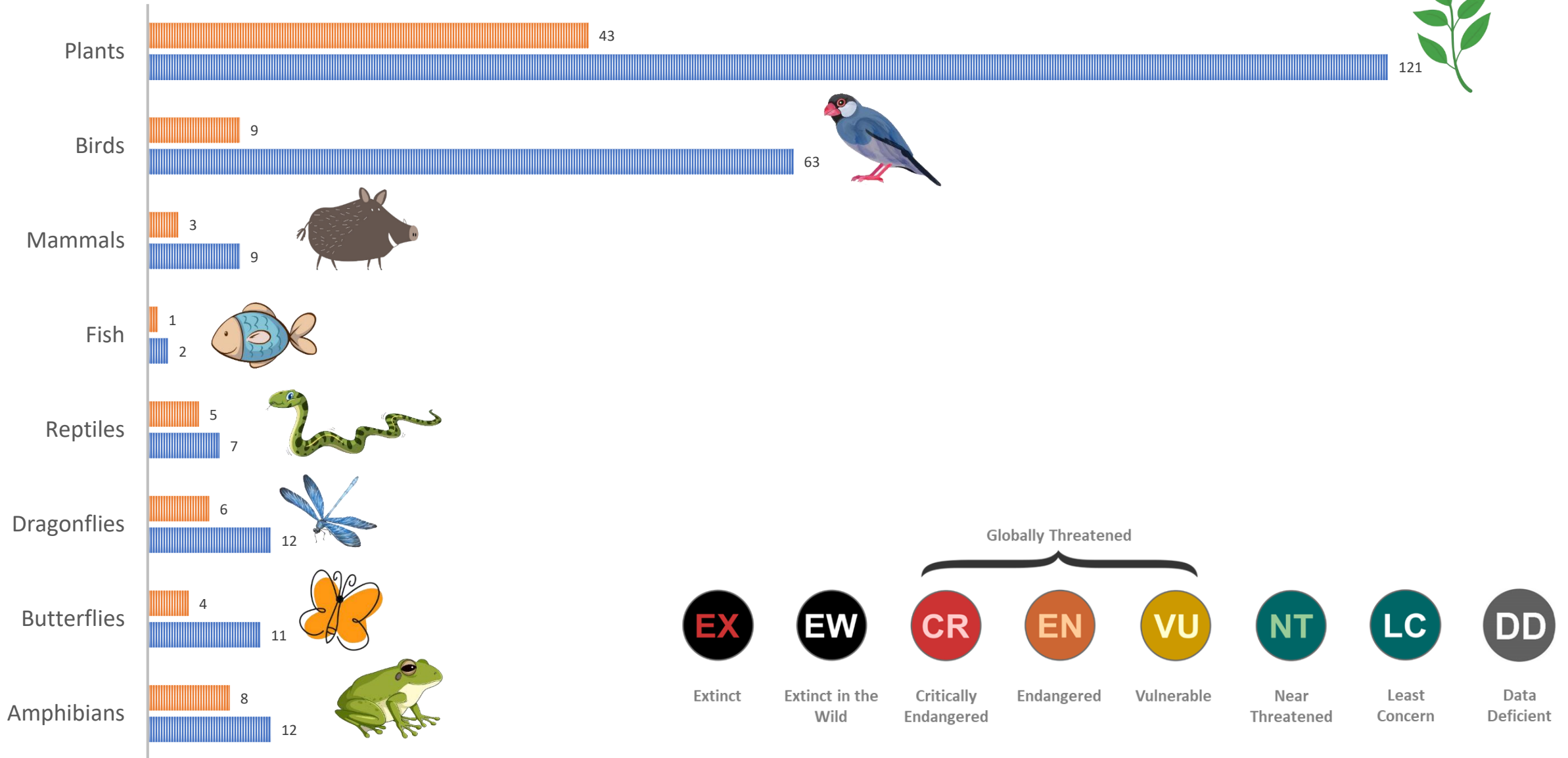


# Methodology

- Conducted extensive fauna and flora studies within the area and a twofold wide buffer to understand the biodiversity (for 2year)
- Facilitating assisted natural regeneration by introducing pioneer species
- Encouraging local community to plant seeds that would be used in the restoration phase
- Creating fire prevention belt to minimize local forest fire within the site
- Preventing illegal activities (poaching, gem mining, and tree felling for fuelwood) by regular patrolling within the site

# THREATENED SPECIES VS TOTAL RECORDED SPECIES

Threatened Species Total Recorded Species



# Plants



*Osbeckia lanata*

EN



*Rhodomyrtus tomentosa*

NT



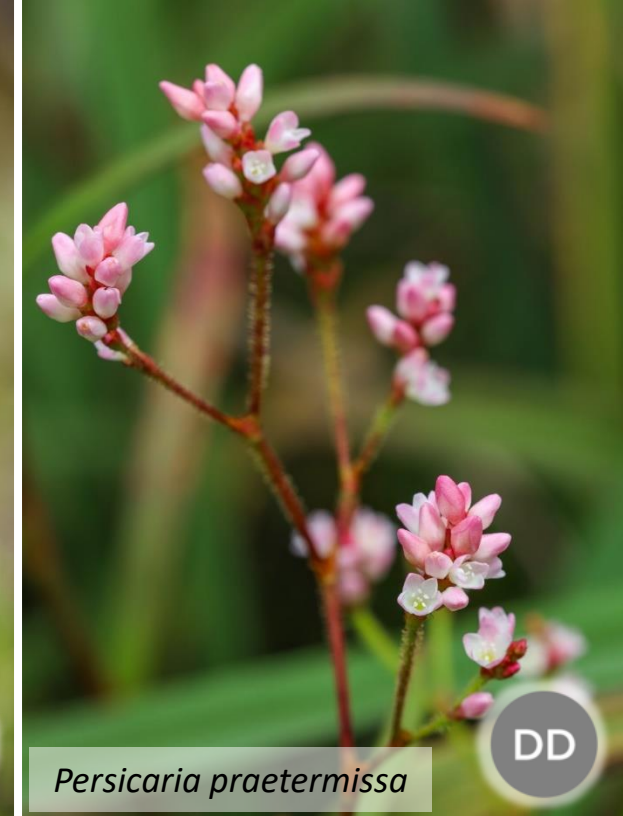
*Drosera burmanii*

VU



*Drosera lunata*

EN



*Persicaria praetermissa*

DD



*Sonerila silvatica*

VU



*Exacum walkeri*

EN



*Exacum macranthum*

EN



*Exacum sessile*

CR



*Podochilus saxatilis*

NT



*Pinalia bicolor*

NT



*Satyrium nepalense*

NT



*Ipsea speciosa*

EN



*Habenaria acuminata*

VU



*Utricularia caerulea*

LC



*Rhododendron arboreum subsp. zeylanicum*

VU

# Birds



*Hirundo domicola*

VU



*Elanus caeruleus*

NT



*Pavo cristatus*

LC



*Cisticola juncidis*

LC



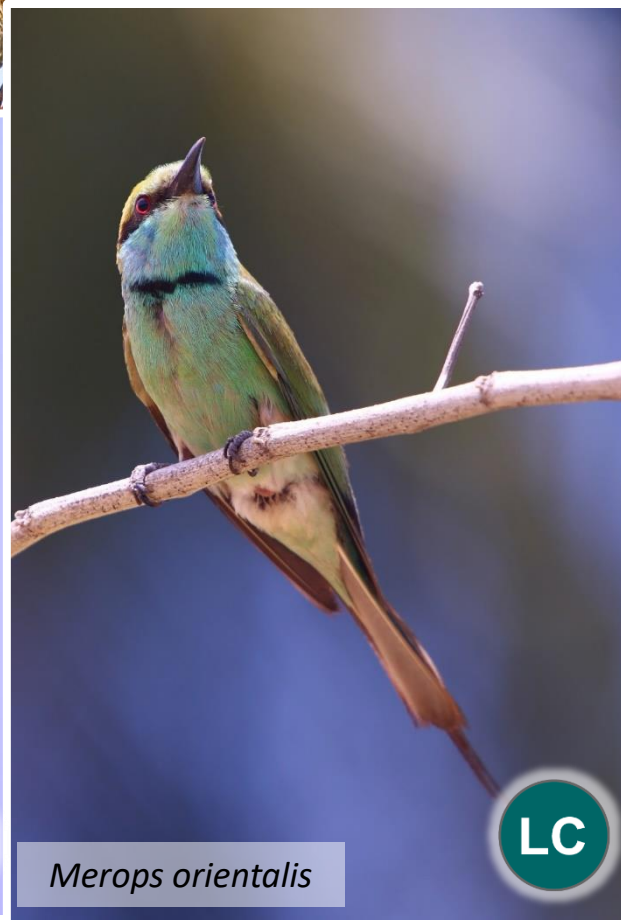
*Saxicola caprata*

EN



*Lanius cristatus*

LC



*Merops orientalis*

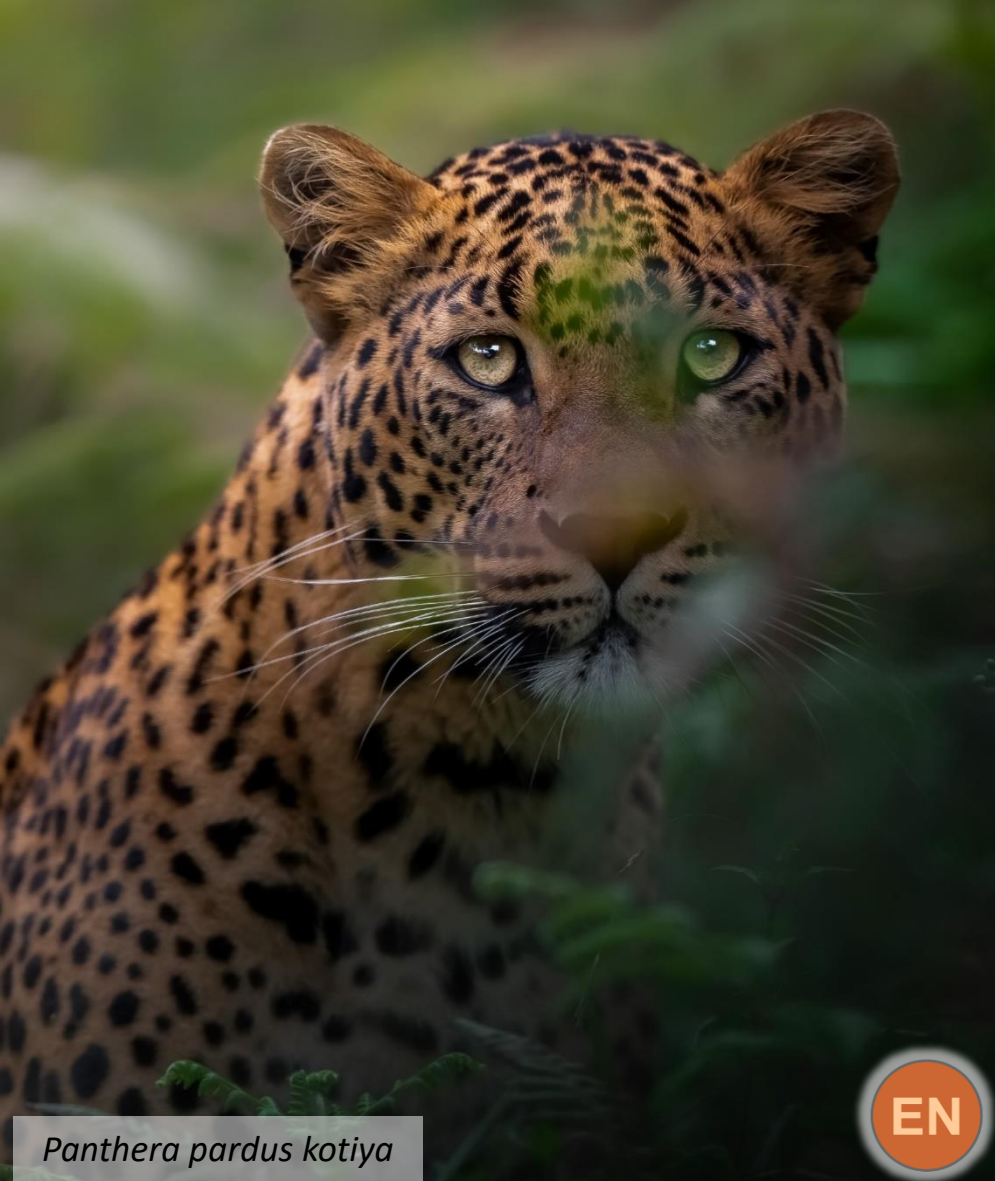
LC



*Nisaetus cirrhatus*

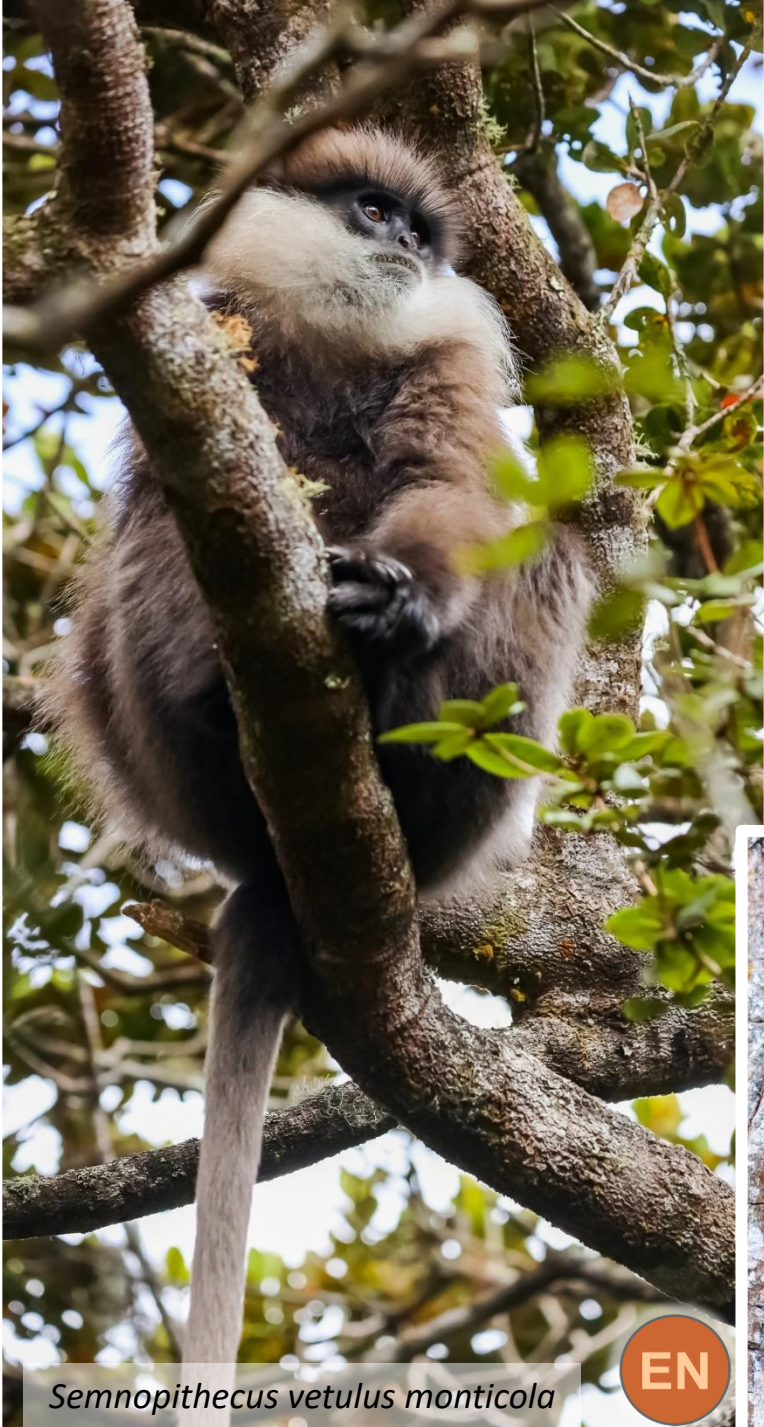
LC

# Mammals



*Panthera pardus kotiya*

EN



*Semnopithecus vetulus monticola*

EN



*Rusa unicolor*

NT



VU

*Funambulus obscurus*



LC

*Funambulus palmarum*

# Fish

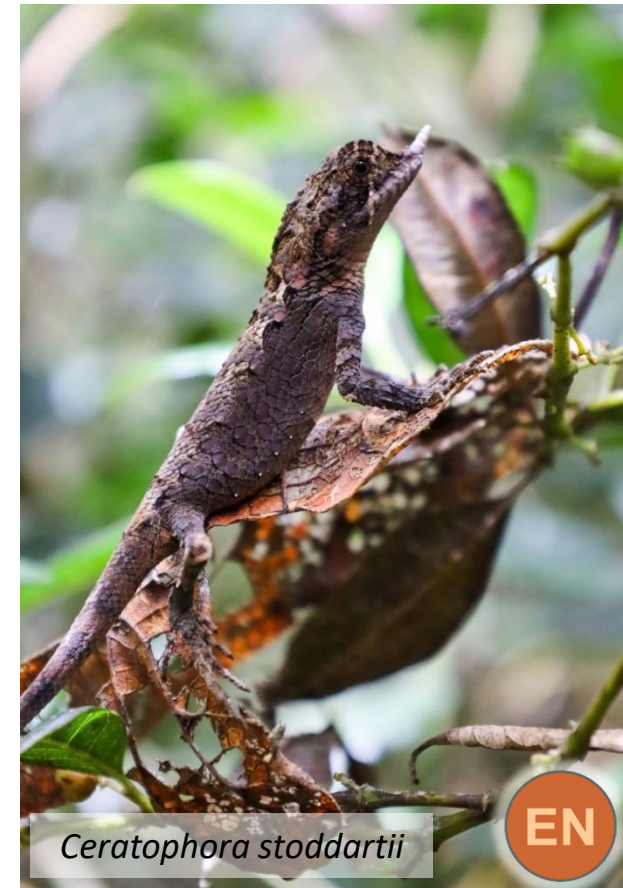


*Devario monticola*



- Point endemic species
- Other 2 locations of existence has species inbreeding with *D. malabaricus*, thus naturally occurring purebred is present in the site only

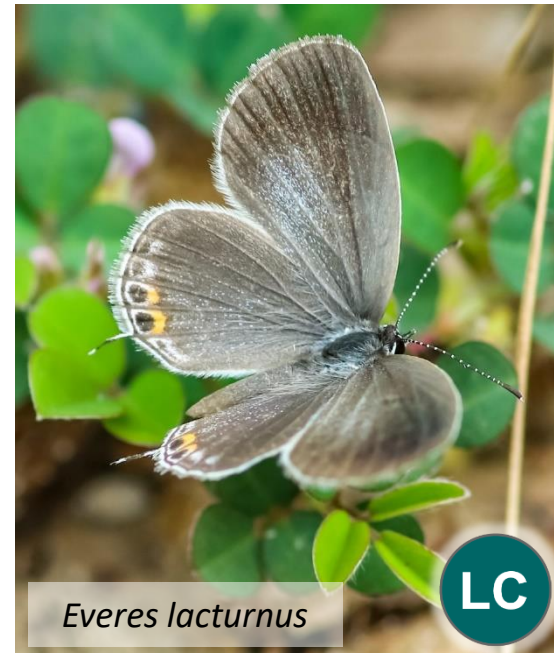
# Reptiles



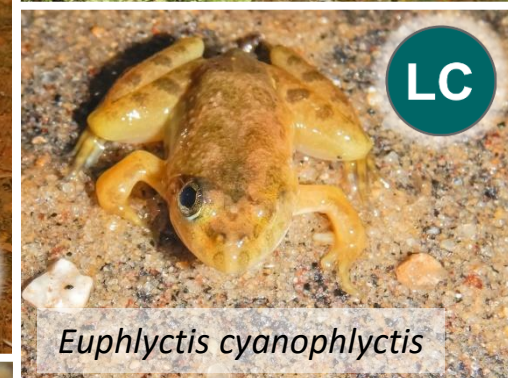
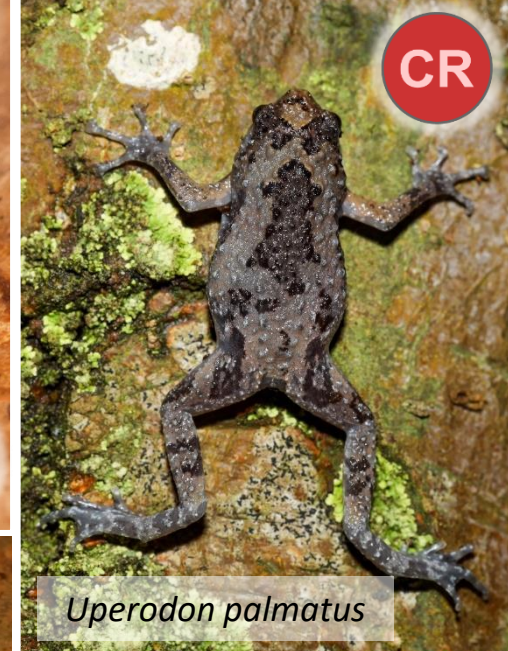
# Dragonflies



# Butterflies



# Amphibians





Livelihood development  
and empowering















# Children's Health Camp at Bopaththalawa Sinhala School



“Jointly organized with SriLankan Cares”






  
 2022 මිහිකත දිනයට සමගාමීව  
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# Field observation workshop





Threats on habitat and wildlife



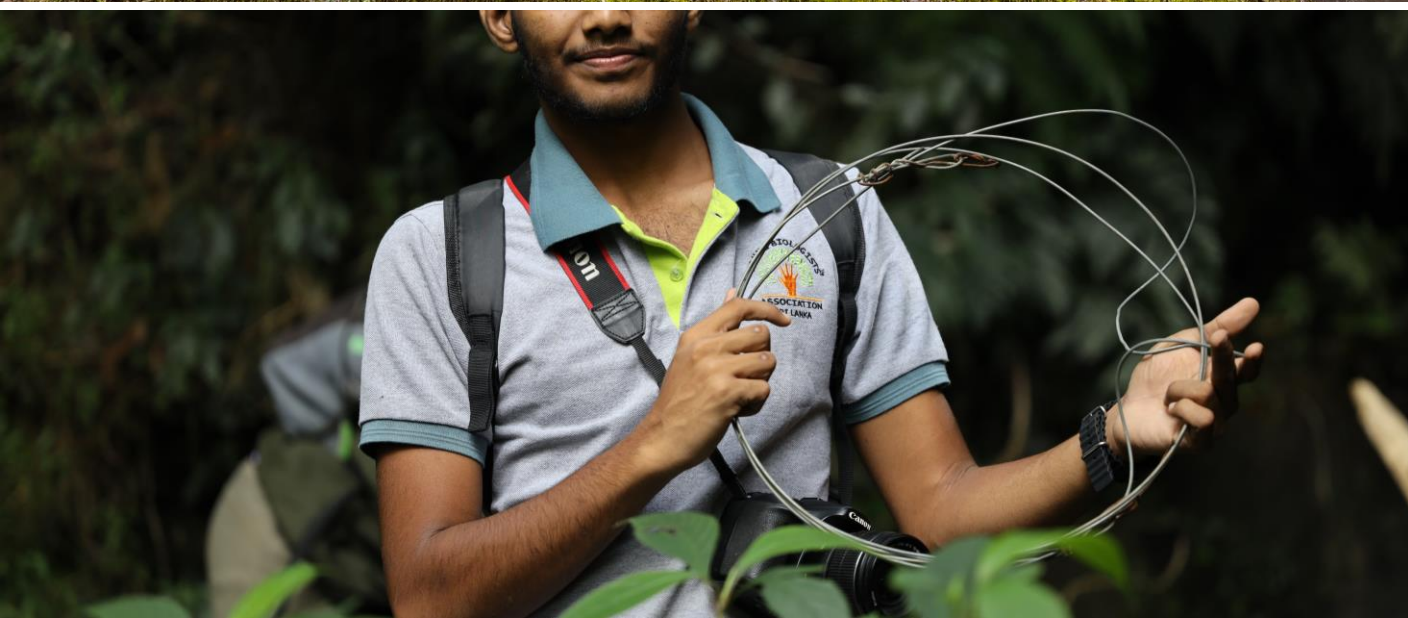




# Illegal trapping for bushmeat







# Illegal gem mining





Public-private partnerships (PPPs) plays a crucial role in addressing deforestation, water scarcity, and climate change mitigation leveraging the strengths of both sectors

- Investment in sustainable practices
- Research and innovation
- Capacity building and education
- Policy and regulation
- Financial support



Special  
acknowledgements to



Thank You

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