



The Study of the Faunal Diversity In Galle District - Southern, Sri Lanka

Final Report



November 2008

Wildlife Conservation Society - Galle

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Wildlife Conservation society – Galle Biodiversity, Education & Research Centre,

Hiyare Reservoir, Hiyare, Galle Sri Lanka

TABLE OF CONTENTS

PAGE	No.
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ACKNOWLEDGEMENTRESEARCH TEAM	ii
 Introduction Geographical and climatic features Geology of Galle District Major Ecological features Scope of the Project Specific Objectives of the study 	01 02 02
7. Methodology	03
8. Fauna of Galle District. 8.1 Species composition of fauna. 8.2 Freshwater Fish. 8.3 Amphibians. 8.4 Reptiles. 8.5 Birds. 8.6 Mammals. 8.7 Butterflies. 8.8 Dragonflies. 8.9 Land snails. 8.10 Freshwater Crabs.	050708080909
9. Highlights of the Survey	10 12 12 13 13 13 13 13 14
LIST OF ANNEXES Annex I : Checklist of Fauna recorded in Galle District Annex II : Photo catalogue of fauna recorded in the survey	

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Research Team

The task would not have been accomplished if not for the efforts of the dedicated research team comprising of the following members

- Mr. Madhura de Silva (Team Leader/ Principal investigator)
- Mr. Sameera Akmeemana (Fauna Ecologist)
- Mr. C.K. Krishan Wewelwala (Field assistants & Photographic documentation)
- Mr. Lasith Siriwardhana (Field assistants)
- Mr. Nuwan Dhanushka (Field assistants)

Executive Summary

This Faunal assessment of the Galle District was carried out in order to get at the current status of fauna in order to conserve them in a sustainable and scientific manner. A field assessment extending to a period of six months was carried out in selected representative sampling sites in the Galle district. Furthermore, a literature survey was also carried out prior to the field sampling to identify the sampling gaps and critical areas for sampling.

The Major vegetation types that were sampled during this survey were lowland tropical rain forests habitats. Wetland habitats such as Koggala, Wakwella and Maduganga were also sampled as they represent some unique combination of fauna in the Galle district. Rumassala hillock in Galle was also sampled as it is one of the unique natural habitats in Galle. Lowland rain forest habitats namely Kottawa-Kombala, Kottawa, Nakiyadeniya, Haycock, Kanneliya, Beraliya-Elpitiya and the Sinharaja east (Area that falls in the Galle district), lowland forests were sampled in this exercise.

All the vertebrate faunal groups and a few invertebrate groups were assessed in this survey. The Land Snails, Dragonflies, Butterflies and Freshwater crabs are the only invertebrate groups that were sampled in this exercise, and 339 species of vertebrate fauna belonging to 107 families were recorded. This includes 95 endemics and 62 nationally threatened species. Of the invertebrate fauna 208 species belonging to 24 families were recorded. There were 59 endemic and 26 nationally threatened species among them.

The highlight of this survey was record of five unidentified amphibian species and three freshwater fish species from the forest habitats of Galle district. The record of Ormiston's Oakblue (*Arhopala ormistoni*) from the Kanneliya forest was the other significant discovery during this survey. This is the only record since its first record in the year 1917. These findings clearly indicate the importance of assessment and conservation needs of the lowland rain forest habitats in the Galle district.

Major threats for the natural habitats of the Galle district were identified as habitat fragmentations and degradations through encroachments, poaching, illegal brewing of alcohol in the forests, spread of alien invasive species, lack of knowledge of the rain forest habitats, Illegal Gemming, release of captive bred freshwater fish species in to the wild and garbage dumping in to the rain forest habitats. All of these threats are directly related to the expansion of population and townships around the natural areas. Combination of national policy on conservation of wet zone forests, increasing public awareness and strict law enforcement can ensure the existence of the rain forest ecosystem and their inhabitants in the wet zone of Sri Lanka.

1. Introduction

The fauna and flora of Sri Lanka and the Western Ghats Mountain range that borders the western sea coast of the Indian peninsular is said have an outstandingly similar climate, geological features, a similar history of evolution and a strikingly similar biodiversity (Mittermeier et.al 2000). This Western Ghats range of mountains and Sri Lanka considered together has lost more than 70% of its original habitat due to human and other activities but still contains a unique endemism of flora and fauna and still contains the required minimum of the 0.5% of Earth's vascular plant species to qualify as a Global Biodiversity Hotspot.

In Sri Lanka the said unique biodiversity is found to be confined to the South Western wet zone stretching up to the south western side of the central massif covering the peak wilderness and the Horton Plains. Of this south western hill forest of Sri Lanka the remaining natural ecosystem along the Gin Ganga (River) from its origins in the Gongala hills in the Rakwana – Deniyaya mountain range through the southern forests of the Singharaja forest cluster with the Hiniduma and the Kanneliya cluster extending to the Hikkaduwa marine sanctuary situated at the confluence of the Gin Ganga with the Indian Ocean is recommended as a model river basin landscape-seascape conservation area in this biodiversity hotspot (Gunathilake et.al 2005).

The south western wet zone of Sri Lanka falls in the administrative districts of Ratnapura, Kalutara, Galle and Matara. Galle district covers the major land portion and this study is confined to the Galle district. The earliest known biodiversity research work conducted in this area is said to be the Nation Conservation Review Programme (NCR Data) conducted by the Forest Department with the collaboration of International Union for Conservation of Nature (IUCN) in the early 1980. This was a programme covering the whole island which revealed a vast hidden knowledge on our biodiversity and endemic species. However, this was not a comprehensive survey and the findings lead to the need for detailed investigations in identified locations. The Important Bird Area Surveys in Sri Lanka conducted by the Field Ornithology Group in the Colombo University funded by the of the Ministry of Environment and Forestry in the year 2000 has studied the avifaunal diversity in the two districts. Various other programmes have been conducted in isolated patches in the Galle district on amphibians, reptiles, snails, dragonflies etc. Furthermore, due the spike of taxonomic research, especially in the lowland wet zone forests, many new species are being discovered. Hence, these findings call for the immediate requirement for conservation and protection of these valuable lowland forest habitats.

This report comprises the biodiversity status profile of Galle District. as a part of the study on the Faunal Diversity in Galle & Matara Districts of Southern province Sri Lanka by the Wildlife Conservation Society - Galle.

2. Geographical and climatic features of Galle District

Southern Sri Lanka is administratively divided in to three districts, Galle, Matara and Hambantota and is unique by having all the three major climatic zones within the single province. (Figure 1) The Galle district lies in the south-western part of Sri Lanka in the southern province of Sri Lanka, about 120 kilometres from Colombo. Total extent of the district is 1617 sq.km with 18 divisional secretariat administrative divisions. Galle district's terrain consists of steeper hills towards the northern part and low hills and undulating plains in southern coastal part of the district. Main River that originates from Galle district is Gin River which forms a Gin River basin (National Atlas, 1997).

The wet zone of Sri Lanka receives its major precipitation from the South-West monsoon (March-August) and the Galle district gets an annual rain fall between 2000-2500mm. Annual mean temperature of Galle district range from 25-27 °C. Combination of climate, topography and geologic history have resulted in species-rich natural environmental conditions in the Galle district. This wet region with the central forested massif was untouched in the history of

the country providing numerous water ways to the dry zone where Sri Lanka's Hydraulic Civilization developed to world fame.

3. Geology of Galle District

Geology of Gall district underlain by Highland Complex consists of metasediments and orthogneisses. Highland Complex is a Precambrian age crystaline rocks that are part of very ancient and stable part of earth's crust (Arjuna's Atlas, 1997).

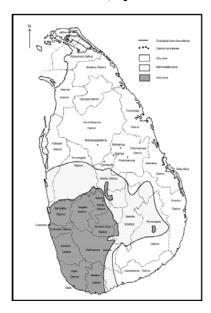


Figure 1: Map of climatic zones of Sri Lanka

4. Major Ecological features

Lowland rain forest is the major ecological feature that is found in the Galle district. Although much of the original extent of the rain forest areas has been reduced, 18,910 acres of this rain forest is existing in the Galle district covering about 11% of the Galle district's land area (Arjuna's Atlas, 1997). Tropical Lowland rain forests are commonly found at elevations below 1000 m above msl. These forests receive an annual rainfall of 2500-5000 mm, free of long dry spells, and are evergreen with no significant seasonal changes. A clear stratification can be observed in these forests. There is a continuous canopy at approximately 30 m above ground level with a few specific trees emerging above the canopy layer. Beneath this layer is an interrupted sub-canopy at around 15 m. A fourth layer of shrubs is located beneath the sub-canopy. Herbaceous plants, ferns and a whole range of seedlings comprise the ground layer.

Many plant communities are found here such as the *Dipterocarpus* community (*Dipterocarpus zeylanicus* and *Dipterocarpus hispidus*), *Mesua-Doona* community, and *Vitex-Dillenia-Anisophyllea* community. Conservation of these tropical forests is crucial as much of Sri Lanka's endemic flora and fauna are found in this valuable ecosystem.

5. Scope of the Project

This survey in Galle District refers to the collection of core information of the faunal diversity in the rain forest habitats of the Galle district to facilitate better management of the lowland forest habitats, including the development of an information base that would be extremely useful in the preparation of management plans for scientific management of these forests. Due to the time and financial constraints, this survey was restricted to focus only on faunal diversity of selected forest habitats in the Galle district. No flora or habitat information was

collected as this study focused only on fauna. Small mammals were not sampled since small mammal traps were not provided by the relevant authorities to us as agreed. Land snails, butterflies, freshwater crabs and dragonflies are the only invertebrate groups that were surveyed during this task. Identification of unique and endangered animal species was also documented in this study.

The present study focused on field level information pertaining to fauna, which is expected to facilitate future planning for wildlife management through appropriate analysis and synthesis of the species inventories. Hence, this is an important study for protected area (PA) management planning in the wet zone of Sri Lanka.

6. Specific Objectives of the study

The present study focussed on the following specific objectives:

- Collection of preliminary data on the existing fauna of the Galle district through a very comprehensive literary survey
- Selection of critical forest habitats for rapid biodiversity sampling
- Preparation of compendium of diversity of fauna and identify species richness of fauna in Galle district.
- Identification of major threats to the forest habitats in the Galle district

7. Methodology

The standardised, scientifically-based sampling methods were used to ensure maximum efficiency in obtaining biological information of the fauna. Aspects such as availability of financial resources, time period, and accessibility to the sampling sites were also taken into consideration, when selecting suitable survey techniques. A literature survey on past work related to ecology of the Galle district was also undertaken to identify specific information gaps.

7.1 Selection of sampling sites and sampling frequency

Sampling sites were selected after considering factors such as geological factors, habitat representative ness, and the total extent. Although a total area of forests in the Galle district covers 19710 ha, there are only 8 forests that exceed more than 500ha. They are namely, Kottawa-Kombala, Kottawa, Nakiyadeniya, Haycock, Kanneliya, Sinharaja east (section falls in the Galle district), and Beraliya-Elpitiya lowland forests. These forests were surveyed in this exercise. Rumassala, Wakwella, Koggala and Maduganga sites were surveyed as they represent unique natural habitats. In order to determine the spatial variation and distribution pattern of fauna in both aquatic and terrestrial habitats, survey was carried out for five months. Each site was surveyed at different times of the day to avoid the time bias when recording fauna. Nocturnal samplings were also made in all sampling sites during each sampling session to record amphibian, reptile and bat species. Audio recording of unusual calls of amphibian species were also conducted to verify their identification. This audio recording will be very helpful in the future as few unidentified amphibian species were found during this exercise. The field sampling was preceded by a two day reconnaissance survey to finalize the sampling methodology and sampling areas for this study.

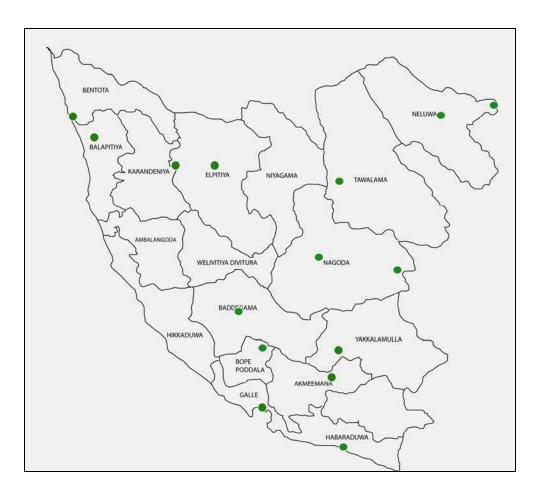


Figure 2: Sampling locations of the faunal assessment of the Galle District.

7.2 Survey Methodology

All groups of vertebrates (freshwater fish, amphibians, reptiles, birds and large mammals) and selected invertebrate groups (butterflies, dragonflies, freshwater crabs and land snails) were identified and documented. Standard scientific sampling techniques were used to survey the different groups of fauna in the project area (Table 1). All efforts were made to document the animals without causing them harm. Opportunistic observations of all the faunal groups were also recorded during the sampling period. In the event of a doubt to confirm identification of a species in the field, a maximum of two samples were collected to verify the identity under laboratory conditions.

Table 1: Summary of faunal sampling techniques

Group/ taxa	Method	Technique
Fish	Direct	Cast-netting, snorkelling & Dip nets
Amphibians	Direct	2mX2m Plots within 100mX5m line transect
Reptiles	Direct	2mX2m Plots within 100mX5m line transect
Birds	Direct and indirect	100mX5m Line Transects
Large Mammals	Direct and indirect	Transects (tracks, footprints faecal matter, feeding signs, & calls etc.)
Butterflies	Direct	Transects; Bait attraction
Dragonflies	Direct	Transect; Banks of the aquatic habitats
Land snails	Direct	Transect
Freshwater crabs	Direct	Transect; Tree hole inspection, turning of logs and rocks

7.3 Species identification, classification and nomenclature

The fauna species were identified and classified using the recently published scientific literature available in Sri Lanka. In addition, some doubtful species specimens that were collected during the current exercise were referred to the relevant authorities for identification. Some of the key references that were used to identify fauna are given in Table 2 below.

Table 2: Some key references used for species identification

Group	Source
Freshwater Fish	Pethiyagoda, R. (1991), Sampath Goonatlake (2007)
Amphibians	Manamendra-Arachchi, K , Pethiyagoda, R (2005 & 2006)
Reptiles	Deraniyagala, P. E. P. (1953), De Silva (1990), De Silva (1996)
Birds	Harrison, J & Worfolk, T (1999), Rassmussen, P.C & Anderton, J.C (2005)
Mammals	Phillips, W. W. A. (1980), Corbet, G.B & Hill, J.E (1992)
Butterflies	D' Abrera, B (1998), Jhon & Judy Banks (1999), Rajika Gamage (2008), W. Ormiston (1924) (reprint 2003)
Dragonflies	Terrance de Fonseka (2000), Matjaz Bedjanic, Karen Conniff, & Gehan de Silva Wijeratne (2007)
Land snails	Dinazarde Raheem & Fred Naggs (2006)
Freshwater crabs	Mohomed M. Bahir & Peter Ng (2005), Mohomed M. Bahir (1999)

8. Fauna of Galle District

Documentation of fauna in the Galle district is vital as most of the faunal species restricted to ever fragmenting rain forest habitats. Furthermore, most of the species that are recorded in the lowland rainforest habitats are endemic to Sri Lanka. Following chapter highlights the information related to the fauna inhabiting in the natural habitats of the Galle district

8.1 Species composition of fauna

A total of 547 faunal species belonging to 132 families were recorded within the Galle district during the survey period. There were 147 endemic and 89 nationally threatened species among them. When considering the proportional representation, birds were the most abundant vertebrate group whereas freshwater crabs were the least abundant taxonomic groups.

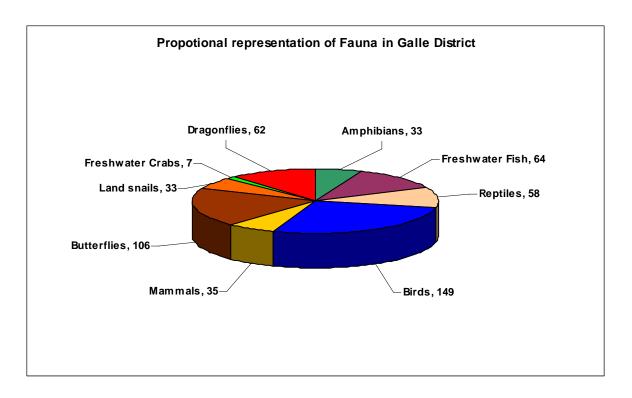


Figure 3: Proportional representation of fauna in Galle District

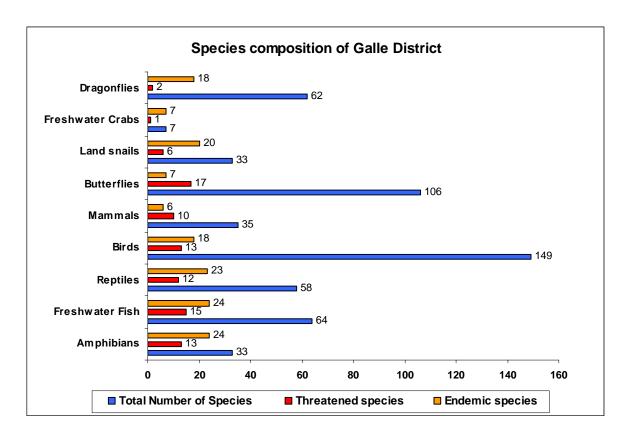


Figure 4: Species composition of fauna in Galle District

8.2 Freshwater Fish

Total of 64 species of freshwater fishes belonging to 24 families were recorded from the aquatic habitats of Galle district. These habitats include natural and manmade systems. Of the total species recorded, 59 were indigenous and four were exotic while 15 of indigenous species listed as threatened (IUCN Sri Lanka, 2007). The number of indigenous species is approximately 75 % of the island's indigenous freshwater fish fauna. This is a significant proportion when considering the current forest cover in the Galle district. The majority of the fish fauna recoded in the stream habitats inside the rainforests and some were recorded in the marshy habitats.

A total of 24 endemic fish species were recorded from the Galle district during this survey. Sinhala Barb (*Puntius sinhala*) & Striped Rasbora (*Rasbora deniconius*) were the most widely distributed fish species in the Galle district. Critically endangered Barred Danio (*Devario pathirana*) was recorded only from Kanneliya Forest Reserve. Exotic species such as Tilapiya (*Oreochromis mossambicus*), and Gappy (*Gambusia affinis*) were sampled in several locations in Galle district. However, they were not found in the streams inside the rain forest habitats. Introduced fish species; the Giant Gouramy (*Osphronemus goramy*) was found in one stream near Nakiyadeniya.

Detail surveying of freshwater fish in the streams of rainforest habitat revealed that three potentially new species of freshwater fish species inhabit in the Galle district and they belong to the Genus *Devario* and *Lepidocephalichthys*. Further taxonomic and molecular studies are in progress to publish scientific papers on these species (Photo catalogue figures: 7, 8 & 9).

8.3 Amphibians

Thirty three (33) species of amphibians belonging to four (4) families were recorded from the Galle district. They represent about 30 % of the island's amphibian fauna and consist of 24 endemic species and 13 nationally threatened species (IUCN Sri Lanka, 2007). Most of the amphibian species that were recoded during this survey belong to Genus *Philatus* and they are strictly rain forest species. Critically endangered and extremely rear Whistling Scrub Frog (*Philautus nemus*) was found during this survey in its type locality, in the Haycock forest (Photo catalogue figure: 21). This finding is very significant as this species was described with only one specimen collected from Haycock forest. Record of the Golden Shrub Frog (*Philautus auratus*) form Kottwa & Kanneliya was important as it was the first record out of its type location. A record of five (5) unidentified amphibian species was noteworthy in this exercise and taxonomic and molecular studies are progressing to conform whether they are new species to the science. (Photo catalogue figures 11, 12, 13, 14 & 15). The most common amphibian species that were recorded in the Galle district was the Common paddy field frog (*Fejervarya limnocharis*) and Common Shrub Frog (*Philatus popularis*).

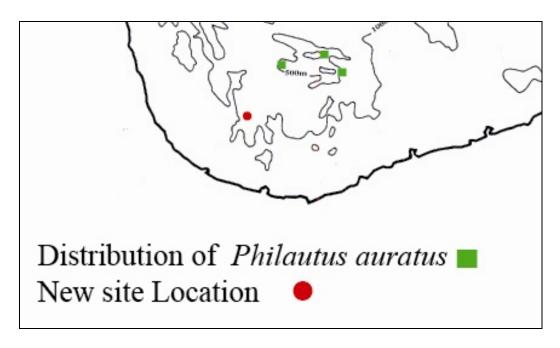


Figure 5: Map of the range extension of Golden Shrub Frog (Philautus auratus)

8.4 Reptiles

Total of fifty eight (58) species of reptiles belonging to 14 families were recorded from the Galle district, which included 23 endemic and 12 nationally threatened species (IUCN Sri Lanka, 2007). One of Sri Lanka's largest reptiles, the Mugger Crocodile (*Crocodylus palustris*) and Python (*Python molurus*) were also recorded from natural habitats of Galle district. Record of Mugger Crocodile nest from Koggala is noteworthy observation in this survey. (Photo catalogue figure: 24) Following table shows the diversity of reptiles during this survey.

Table 3: Summary of reptile species recorded during this survey.

Taxon	No. of families	No. of Genera	No. of Species	No. of Endemic
Crocodiles	1	1	1	0
Tortoises	2	2	2	0
Turtles	1	2	2	0
Snakes	6	24	34	13
Agamid Lizards	1	4	6	4
Monitor Lizards	1	1	2	0
Skinks	1	2	5	4
Geckos	1	4	6	2

8.5 Birds

Total of 149 species of birds belonging to 43 families were recorded, which included 18 endemic and 13 nationally threatened species. There were 10 species of migratory winter visitors. Lowland wet zone forests are home for many endemic species of birds. Record of critically endangered Blue Eared Kingfisher (Alcedo meninting) from Kottawa-Kombala (Hiyare) is very significant since there are very few records of this bird from Sri Lanka. Endemic Black Crested Bulbul (Pycnonotus melanicterus) is the most widespread bird species that was encountered in all the sampling sites.

8.6 Mammals

Thirty five (35) species of mammals belonging to 22 families were recorded from the natural habitats of Galle district. This included 6 endemic and 10 threatened species (IUCN Sri Lanka, 2007). Among the threatened species, endangered Hog Deer (Axis porcinus) recorded from several locations in Elpitiya area. Threatened species of Loris (Loris tardigradus) and Golden Palm Civet (Paradoxurus zeylonensis) were recoded during the night samplings of the survey. Vulnerable Purple Faced Leaf Monkey (Semnopithecus vetulus) and Giant squirrel (Ratufa macroura) were fairly common in the outskirts of the wet zone forest habitats of Galle district. False Vampire Bat (Megaderma lyra) and Long-eared Vampire Bat (Megaderma spasma) bat species were present in the rock caves in the rain forests of Kanneliya. (Photo catalogue figure 17)

8.7 Butterflies

Among the invertebrates, butterflies were the charismatic insects that were sampled. Out of 244 species of butterflies recorded in Sri Lanka, 106 species belonging to 5 families were recorded during this survey. This represents about 43% of the island's butterfly fauna. There were seven (7) endemic and 17 nationally threatened species among them (IUCN Sri Lanka, 2007). Documentation of Ormiston's Oakblue (*Arhopala ormistoni*) from Kanneliya was very significant as it is the first record since 1917 (D'abrera, 1998). (Photo catalogue figure 10) Critically endangered Ceylon Banded Awl (*Hasora badra*) butterfly species was recorded at Kanneliya and Rumassala it is a range extension of its distribution. Rare Brown Onyx (*Horaga albimacula*) and endangered Southern Duffer (*Discophora lepida*) were also recorded from Kanneliya & Kottawa-Kombala forests respectively. Endangered Silver Streak Blue (*Iraota timoleon*) and a newly recorded Orange Migrant (*Catopsilia scylla*) were also recorded from Rumassala area during this survey. White four-ring (*Ypthima ceylonica*), Gladeye Bushbrown (*Nissanga patina*), Glassy Tiger (*Parantica agiea*) and Common Crow (*Euploea core*) were the most commonly encountered species during the field sampling.

8.8 Dragonflies

Out of 120 species of dragonflies recorded in Sri Lanka, 62 species belonging to 12 families were recorded during this survey. This represents about 52% of the island's dragonfly fauna. Out of 62 species recorded from Galle district, 54 of them found in Kottawa-Kombala (Hiyare) forest Reserve. There were eighteen (18) endemic and two (2) nationally threatened species among them (IUCN Sri Lanka, 2007). *Elattoneura caesia* and *Macrogomphus lankensis* are the only nationally threatened species found in this survey. Un-discribed damselfly species belongs to genus *Drepanosticta* was recorded at Kanneliya & Hiyare in this survey and further analysis are on going to conform this finding.

8.9 Land snails

Total of thirty three (33) species of land snails belonging to 7 families were recorded from the Galle district, which included 20 endemic and 6 nationally threatened species (IUCN Sri Lanka, 2007). Newly described and critically endangered *Ratnadvipia karu* was recorded in the forest habitats of Galle district (Photo catalogue figures: 25). *Acavus haemastoma* was the most common land snail species that was encountered in most of the sampling locations in the Galle district. Five exotic species of land snails namely *Allopeas gracile*, *Lissachatina fulica*, *Mariaella dussumieri*, *Laevicaulias altae*, and Gulella *bicolor* were recorded in most of the sampling locations.

8.10 Freshwater Crabs

Total of seven (7) species of freshwater crabs were recorded from the Galle district, which included 7 endemic and 1 nationally threatened species (IUCN Sri Lanka, 2007). Endangered *Pastilla ruhuna* was the only threatened species recorded in this survey. *Ceylonthelphusa kandambyi* was common species in many forest habitas of the Galle district.

9. Highlights of the survey

- Extensive sampling of fish in the wetland habitats of Galle district revealed that there are three (3) potentially new freshwater fish species belongs to genus *Devario* and *Lephdocephalusthus* (Photo catalogue figures: 7,8 & 9). These species could be new to the science. Detail literature survey on freshwater fish taxonomy and personal communications with the freshwater fish experts have also conformed this finding. Further taxonomic and molecular work on these species is on going to prepare the scientific publications in the near future.
- Detail sampling and keen observations in the rainforest habitats of Galle district have resulted in record of five (5) potentially new species of amphibians to the science. This includes, perhaps the smallest amphibian species recorded in Sri Lanka. Further taxonomic and molecular work on these species is on going to prepare the scientific publications in the near future (Photo catalogue figures: 11,12,13,14 &15).
- A record of the Ormiston's Oakblue (*Arhopala ormistoni*) after 90 years from Kanneliya forest reserve was one of the highlights during the field sampling. This species was last recorded in 1917 and has had no conformed record since then. Research team of WCS was also able to make a photographic record of this species as well (Photo catalogue figure: 10). Furthermore, rare Brown onyx (*Horaga albimacula*) and Ceylon Banded Awl (*Hasora badra*) butterfly species were also recorded at Sihharaja and Kanneliya respectively during this survey.
- Golden Shrub Frog (Philautus auratus) was recorded from Kottawa & Kanneliya and it is profound as it was the first record out of its type locality of Rakwana hills. Hollow– snouted Shrub Frog (Philautus cavirostris) was located from Hiyare and it the lowest altitude record of this species.

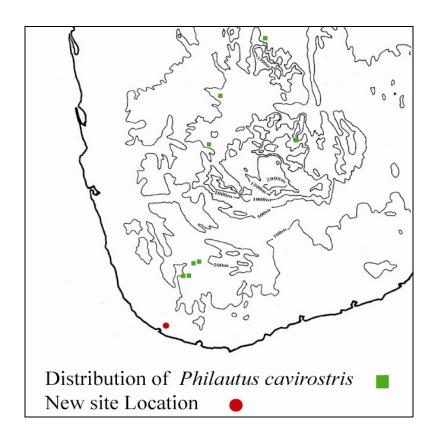


Figure 6: Record of Hollow-snouted Shrub Frog (*Philautus cavirostris*) located from Hiyare and it the lowest altitude record of this species

- New site records of Wilpita Rasbora (Rasbora wilpita) from Hiyare, Kottawa, & Elpitiya and these records are extending its current distribution range.
- New site record of Ornate Narrow-mouthed frog (*Microhyla ornate*) and is the first record in the lowland wet zone of Sri Lanka (Photo catalogue figure: 18).

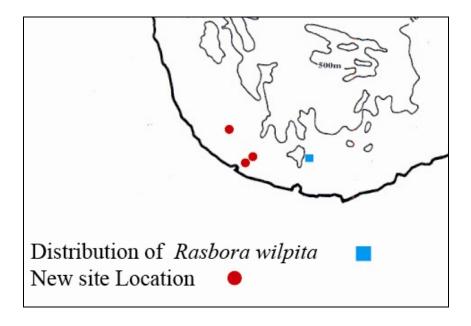


Figure 7: Map of the range extension of Rasbora wilpita

- Many issues and distribution information related to endangerd mammal Hog Deer (Axis porcinus) have been observed and recorded during this exercise.
- Amphibian malformation in the several sites of the rainforests has been recorded in during this survey. Further research and conservation action needed to find the causes for this problem (Photo catalogue figure: 16).
- First record of female dragonfly species of Mortonagrion ceylonicum in the Hiyare rain forest.
- Un-described damselfly species belongs to genus *Drepanosticta* was recorded at Kanneliya & Hiyare in this survey.
- Life cycle of Damselfly species Libellago adami was first recorded in this survey and this is the first record of Laval stage and successful breeding of Libellago genus in Sri Lanka.
- Breeding behaviour of Leaf Dwelling Shurb Frog (Philautus folicola) was recorded during this study and it is the only species that has a litter nesting behaviour in Sri Lanka. This is the very first documentation of litter nesting behaviour of an amphibian species in Sri Lanka.
- Ceylonthelphusa scansor was located from Hiyare forest and it the lowest altitude record of this species.

10. Issues and Threats to Forest Habitats in the Galle district

The wet zone forest habitats can be considered as one of the major ecosystem types to conserve the endemic biodiversity of Sri Lanka. Much of the lowland forest habitats are surrounded with the ever increasing human habitations and townships. Therefore, rain forest habitats are under threat due to the expansion of human habitations around them. Combination of national policy on conservation of wet zone forests, increasing public awareness and strict law enforcement can ensure the existence of the rain forest ecosystem and their inhabitants in the wet zone of Sri Lanka.

10.1 Encroachment and habitat destruction

As many of the forest habitats are surrounding with human habitations, expansion of tea can be identified as a major cause to the forest fragmentations in the wet zone (Photo catalogue figure: 26) Input of agrochemicals in this tea plantations are also polluting stream habitats in the Galle District. Sensitive taxonomic groups such as amphibians, land snails, freshwater crabs, and dragonflies have directly been affected by the forest fragmentations and agrochemical inputs due to the expansion of the tea plantations. Expansion of cinnamon plantations in the Ambalangoda, Balapitiya and Elpitiya area is reducing marshy habitats and this action is threatening the survival of small population of endangered Hog Deer (Axis porcinus).

10.2 Poaching

Poaching is occasionally a problem in the boarders of the forest habitats of Galle District. Sambar (Cervus unicolor), endangered Hog Deer (Axis porcinus), Mouse Deer (Moschiola meminna) and Porcupine (Hystrix indica) are common victims of the poaching activities in the peripheral areas.

10.3 Impact of invasive species

Invasive species such as Hawari-nuga (*Alstomnia macrophylla*), Diyapara (*Dillenia suffruticosa*) and Wel-aththa (*Annona glabra*) were found extensively in the peripheral areas of the rainforest habitats and in the marshy lands. Range extension of alien freshwater species such as Gappy (*Gambusia affinis*) and Tilapiya (*Oreochromis mossambicus*) in the streams of the Galle district is threatening many endangered and endemic freshwater fish spices that inhabit in the streams of the Galle District.

10.4 Illegal brewing of alcohol

Illegal brewing of alcohol in the forest areas near the streams and wetland habitats are common in most of the forest habitats in the Galle District. As this illegal industry is extensively using water in the process of making alcohol, they are threatening important wet zone wetland habitats. Dumping of waste materials directly to the wetland habitats is causing serious threat to the freshwater fish, amphibians, and other freshwater dwelling species as well. (Photo catalogue figure: 28)

10.5 Lack of knowledge on the rain forest habitats

Communities around the rain forest habitats have very little knowledge about species diversity of the rain forest and the microhabitat variations. Consequently, their environmental awareness and sensitivity towards the rain forest habitats are very low. Illegal clearance of land for tea cultivations and other human activities around the forest habitats contributes to accelerated loss of biodiversity due to habitat reduction and degradation. Buffer zone settlers are truly unaware of the uniqueness of the wet zone biodiversity and lack of general environmental consciousness.

10.6 Illegal Gemming

Illegal gemming activities in the Elpitiya and Hiyare areas are threatening freshwater fish species such as *Labuca ruhune* and Wilpita Rasbora (*Rasbora wilpita*) due to the extensive habitat destructions. Change of the water regimes and water pollution from the gemming activities are rapidly changing the micro climate conditions in the freshwater habitats.

10.7 Release of captive bred freshwater fish species in to the wild

There have been few occasions that the releasement of captive bred Barred Danio (*Devario pathirana*) in to the wild locations by National Zoological Gardens where this species is usually not found. Technically, it is not appropriate to release captive bred populations in to new locations without extensive research and pilot program. Unscientific such releasement will change the genetic make up of the original populations and diseases jump from captive fish populations could wipe out the other freshwater fish species as well.

10.8 Garbage dumping in to the rainforest habitats

Garbage dumping in to the Kottwa forest was observed during this assessment. Household and commercial garbage was disposed in the Kottawa forest reserve. This dumping was observed in the stream habitats and some of those streams are home for many endemic and threatened species that are inhabited in the rain forests (Photo catalogue figure: 27)

11. Recommendations

- Further research on taxonomy and conservation is extremely important as there are many unique findings from this faunal diversity assessment. These findings and further taxonomic research will help us to increase our knowledge on rainforest species and bring public attention to the conservation on ever fragmenting rainforest habitats in the south-western part of Sri Lanka.
- Potentially new two species of freshwater fish were recorded from Kottawa & Hiyare forests. Kottawa & Hiyare forests are fragmented and small in extent. It is vital to conserve these fragmented forests as they harbour many endemic species.
- Conservation and management measures should be taken to conserve the endangered Hog Deer (Axis porcinus). Natural habitats of Hog Deer (Axis porcinus) in the Ambalangoda, Elpitiya and Balapitiya area are being replaced by many commercial plantations namely cinnamon and tea. Many accounts of injuries and deaths of Hog deer are on the rise as their population are surrounded with townships.
- Further research and detail survey is recommended to find the cause of malformation of amphibians in the rainforest habitats.
- Haycock forest is very unique when considering its faunal diversity due to its altitude gradient. However, many encroachments and illegal activities have been observed during this survey. Conservation of Haycock is important as it is the only location of critically endangered amphibian species the Whistling Scrub Frog (*Philautus nemus*) and potentially another new species of amphibian discovered in the current survey.
- Out of 84 freshwater fish species recorded in Sri Lanka, 54 species have been recorded (70% of Sri Lanka's freshwater fish species) in the Galle district. Most of these fish species were recorded in the adjoining habitats of rainforests. These wetland habitats are threatened by the expansion of tea and palm oil plantations. Conservation measures should be taken to conserve such critical freshwater fish habitats.
- Random release of captive bred fish species in to the wild should be tightly regulated and such releasements should also be closely monitored by the authorities. Releasements of captive bred species should not be allowed without prior approval from the authorities.
- Garbage dumping in to the Kottawa forest reserve should be stopped immediately and legal actions should also be taken against this action.

12. Constrains of the study

- Lack of small mammal trapping equipments and the non availability of mist nets hindered the small mammal and bat sampling.
- Geo-referenced maps of samplings and species records were not prepared due to budget restrictions.
- Budget restriction has reduced the scope of the project, however in-kind contributions from WCS-Galle were increased to compensate.
- Lack of statistical analysis of data since replications of sampling were not conducted adequately due to the time and resource constrains.

Checklist of Faunal Species recorded during the survey

Sampling site codes- Kottawa Kombala – KK, Kottawa – KO, Kanneliya – KN, Nakiyadeniya – NK, Beraliya-Elpitiya – BE, Rumassala – RU, Haycock – HY, Sinharaja – SN, Maduganga – MA, Koggala – KG, Wakwella – WK)

Endemic Species - *
Threatened Status
Critically Endangered – CR, Endangered – EN, Vulnerable - VU

DRAGONFLIES

Scientific Name	English Name	Threatened Status	KK	ко	KN	NK	BE	RU	НҮ	SN	MA	KG	wĸ
FAMILY: CALOPTERYGIDAE													
Neurobasis chinensis chinensis	Oriental Green-wing				/	/	/		/				
Vestalis apicalis nigrescens *	Black-tipped Flashwing		/	/	/	/	/		/	/			
FAMILY CHLOROCYPHIDAE													
Libellago adami *	Adam's Gem		/	/	/	/	/			/			/
Libellago finalis *	Ultima Gem			/	/	/	/						
FAMILY EUPHAEIDAE													
Euphaea splendens *	Shining Gossamerwing		/		/	/	/		/	/			
FAMILY LESTIDAE													
Lestes elatus	White-tipped Spreadwing		/								/	/	/
Lestes praemorsus decipiens	Scalloped Spreadwing			i									/
FAMILY: COENAGRIONIDAE		•			•								
Agriocnemis pygmaea	Wandering Wisp		/	/	/	/	/	/			/	/	/
Mortonagrion ceylonicum *	Sri Lanka Midget		/										
Onychargia atrocyana	Marsh Dancer		/	/	/	/	/						/
Ischnura aurora aurora	Dawn Bluetail		1	/	1	1	1			/	/	/	/
Ischnura senegalensis	Common Bluetail		1	/	1	1	1		/	/	/	/	/
Ceriagrion cerinorubellum	Painted Waxtail		,	/	/	,	/			/		/	/
Ceriagrion coromandelianum	Yellow Waxtail		,								/	/	
Pseudagrion malabaricum	Malabar Sprite											,	
Pseudagrion microcephalum	Blue Sprite		/								/	/	/
Pseudagrion rubriceps ceylonicum *	Sri Lanka Orange-faced Sprite		1	/	/	/	/	/	/		/	/	/
Archibasis sp. nov. *					/	/				/			
FAMILY: PLATYCNEMIDIDAE													
Copera marginipes	Yellow Featherleg		/	/	/	/	/				/	/	/
FAMILY: PLATYSTICTIDAE													
Drepanosticta lankanensis *	Drooping Shadowdamsel		/	/	/	/	/			/			
Drepanosticta Montana*	Dark Knob-tipped Shadowdamsel												
Drepanosticta nietneri *	Nietner's Shadowdamsel		/	/	/	/	/						
Drepanosticta sp. nov. A *			/		/	/							
Platysticta apicalis *	Dark Forestdamsel				/	/							
Platysticta maculata *	Blurry Forestdamsel		/	/	/	/	/						
FAMILY: PROTONEURIDAE													
Elattoneura bigemmata *	Two-spotted Threadtail		/		/	/				/			
Elattoneura caesia *	Jungle Threadtail	EN	/	/	/	/	/			/			
Elattoneura centralis *	Dark-glittering Threadtail		/	/	/	/	/		/	/		/	
Prodasineura sita *	Stripe-headed Threadtail		/	/	/	/	/			/	/	/	/
SUB-ORDER ANISOPTERA													
FAMILY: AESHNIDAE											•		
Anax immaculifrons	Fiery Emperor		/									/	
Anax indicus	Elephant Emperor		/									/	/
Gynacantha dravida	Indian Duskhawker										/	/	/
FAMILY: GOMPHIDAE		•										•	
Heliogomphus walli *	Wall's Grappletail		/	/	/	/	/						
Macrogomphus lankanensis *	Sri Lanka Forktail	VU	/	/	/	/	/				/		
Ictinogomphus rapax	Rapacious Flangetail		/								/	/	/

FAMILY: CORDULIDAE											
Epophthalmia vittata cyanocephala *	Blue-eyed Pondcruiser	/								/	
FAMILY: LIBELLULIDAE											
Brachydiplax sobrina	Sombre Lieutenant	/	/	/	/	1				/	1
Lathrecista asiatica asiatica	Pruinosed Bloodtail	/			/		/			/	1
Orthetrum chrysis	Spine-tufted Skimmer	/	/	/	/	1	/		/	/	1
Orthetrum glaucum	Asian Skimmer			/	/						
Orthetrum luzonicum	Marsh Skimmer	/	1	1	1	1				/	1
Orthetrum pruinosum neglectum	Pink Skimmer	/	/	/	/	1			/	/	1
Orthetrum sabina Sabina	Green Skimmer	/	/	/	/	1			/	/	1
Orthetrum triangulare triangulare	Triangle Skimmer	/		/	1						
Potamarcha congener	Blue Pursuer	/	/	/	/	1				/	
Acisoma panorpoides panorpoide	Asian Pintail	/	/	/	/	1				/	1
Brachythemis contaminate	Asian Groundling	/							/	/	1
Crocothemis servilia servilia	Oriental Scarlet	/		/	/					/	
Diplacodes nebulosa	Black-tipped Percher	/	/	/	/	1				/	
Diplacodes trivialis	Blue Percher	/				/			/	/	1
Indothemis limbata sita	Restless Demon	/							/	/	
Neurothemis tullia tullia	Pied Parasol	/	/	/	/	1			/	/	1
Trithemis aurora	Crimson Dropwing	1		/	1				/		
Trithemis festiva	Indigo Dropwing	1									
Trithemis pallidinervis	Dancing Dropwing	/	/	/	/	/	/		/	/	/
Rhyothemis triangularis	Sapphire Flutterer	1	/	/	/	1					
Rhyothemis variegata variegate	Variegated Flutterer	1	/	/	/	1			/	/	/
Pantala flavescens	Wandering Glider	/	/	/	/	/	/		/	/	/
Tramea limbata	Sociable Glider	/	/	/	/	/			/		
Tholymis tillarga	Foggy-winged Twister	/	/	/	/	/			/	/	/
Urothemis signata signata	Scarlet Basker	/			/		/		/	/	/
Zygonyx iris ceylonicum *	Sri Lanka Cascader			/	/						

BUTTERFLIES

Scientific Name	English Name	Threatened Status	кк	ко	KN	NK	BE	RU	нү	SIN	MA	KG	wĸ
FAMILY: PAPILPONIDAE													
Troides darsius *	The Ceylon Birdwing		1	1	/	/	/	/	/	/			
Pachliopta hector	The Crimson Rose		1	1	/	/	/	/	/	/	/	/	/
Pachliopta jophon *	The Ceylon Rose	EN	1	/	/	/	/		/	/			
Pachliopta aritolochiae ceylonica	The Common Rose		1	/	/	/	/	/	/	/	/	/	/
Papilio crino	Banded Peacock		1	/	/	/	/	/	/	/			
Papilio demoleus	Lime Butterfly		1	/	/	/	/	/	/	/	/	/	/
Papilio helenus mooreanus	Red Helen				/	/			/	/			
Papilio polytes romulus	Common Mormon		1	/	/	/	/	/	/	/	/	/	/
Papilio polymnester parinda	Blue Mormon		1	/	/	/	/	/	/	/	/	/	/
Chilasa clytia lankeswara	Mime		1	/	/	/	/	/	/	/	/	/	/
Graphium sarpedon teredon	Bluebottle		1	1	/	/	/	/	/	/			
Graphium doson doson	Common Jay				/	/	/		/	/			
Graphium Agamemnon menides	Tailed Jay		1	1	/	/	/	/	/	/	/	/	/
Pathysa antiphates celonicus	Fivebar Swordtail	EN			/	/			/				
FAMILY: PIERIDAE		•											
Leptosia nina nina	Psyche		1	/	/	/	/	/	/	/	/	/	/
Delias eucharis	Jezebel		1	/	/	/	/	/	/	/	/	/	/
Appias gelene	Lesser Albatross		1	1	/	/			/	/			
Catopsilia pyranthe minna	Mottled Immigrant		1	1	/	/	/	/	/	/	/	/	/
Catopcilia pomana	Lemon Migrant		1	1	/	/	/	/	/	/	/	/	/
Eurema hecabe simulate	Common Grass Yellow		1	1	/	/	/	/	/	/	/	/	/
Eurema blanda silhetana	Three-spot Grass Yellow		1	1	/	/	/	/	/	/	/	/	/
Eurema ormistoni	One-spot Grass Yellow	EN	1		/								
	Orange migrant		/	/				/			/	/	/

FAMILY: NYMPHALIDAE

Г	T	1				Τ.							
Idea isonia *	Tree Nymph				/	/			/	/			
Ideopsis similes exprompta	Blue Glassy Tiger		/	/	/	/	/	/	/	/			
Tirumala limniace leopardus	Blue Tiger				/			/		/			
Parantica aglea	Glassy Tiger		/	/	/	/	/	/	/	/	/	/	/
Danaus chrysippus	Plain Tiger		/	/	/	/	/	/	/	/	/	/	/
Danasus genutia	Common Tiger		1	1	/	/	/	/	/	/	/	/	/
Euploea core asela	Common Indian Crow		/	/	/	/	/	/	/	/	/	/	/
Euploea sylvester	Double-banded Crow		1	1	/	/	/	/	/	/	/	/	/
Euploea phaenareta	Great Crow		1	1	/	/	/	/	/	/			/
Eulopea klugii sinhala	Brown King Crow							/			/	/	/
Ariadne ariaadne minorata	Angled Caster		1	1				/					
Ariadne merione taprobana	Common Caster							/					
Cupha erymanthis placida	Rustic		/	/	/	/	/	/	/	/			
Phalanta phalantha	Common Leopard		/	1	/	/	/	/	/	/	/	/	/
Cirrochroa this lanka	Tamil Yeoman		1	1	/	/	/	/	/	/			
Cethosia nietner nietner	Ceylon Lace Wing		1	1	/	/	/	/	/	/			
Junonia iphita pluviatalis	Chocolate Soldier		1	1	/	/	/	1	/	/	/	/	/
Kallima philarchus *	Blue Oakleaf	VU		,	,	,	,	,	,	,	,	,	,
Doleschhallia bisaltidae	Autumn Leaf	EN					Ĺ	,	,	/			
	Common Lascar	LIN								/			
Pantoporia horodonia sinuate			,	,	,	,	,	,	,	,	,	,	,
Nepits hylas varmona	Common Sailor		,	,	,	/	,	,	,	/	/	/	/
Neptis jumbah nalanda	Chestnut-streaked Sailor		1	/	/	/	/	/	,	/			
Limenitis procris calidasa	Commander	-	/	/	/	/	/	/	/	/			
Parthenos sylvia cyaneus	Clipper		/	1	/	/	/	/	/	/			
Dophla evelina evelina	Red Spot Duke		/	/	/	/	/		/	/			
Euthalia lubentina psittacus	Gaudy Baron	EN	/	1	/	/	/	/	/	/			
Euthalia aconthea vasanta	Baron		1	1	/	/	/	/	/	/	/	/	/
Charaxes psaphon	Tawny Rajah		1		/	/	/		/	/			
Acraea violae	Tawny Coster		/	1				/				/	/
Discophora lepida	Southern Duffer	EN	1	1	/	/	/		/	/			
Junonia atlites	Gray Pansy		/	1	/	/	/	/	/	/	/	/	/
Unonia almanac almanec	Peacock Pansy		/	/	/	/	/	/	/	/	/	/	/
Vanessa indica nubicola	Indian red Admiral		/	1	/	/	/	/	/	/			
Abisara echerius prunosa	Plum Judy		/	/	/	/	/	/	/	/			
Melanitis ledac ismene	Common Evening Brown		/	/	/	/	/	/	/	/	/	/	/
Orsotriaena medusmandata	Nigger		/	1	/	/	/	/	/	/	/	/	/
Mycalesis mineus polydecta	Dark-brand Bushbrown				/					/			
Mycalesis perseus typhlus	Common Bushbrown		1	1	/	/	/	/	/	/	/	/	/
Mycalesis rama*	Cingalese Bushbrown	EN			/	/				/			
Nissanga patina patina	Gladeye Bushbrown		/	1	/	/	/	/	/	/	/		/
Ypthima ceylonica ceylonica	White Four-ring		1	1	,	1	/	1	/	/	/	/	/
Elymnias hypermnestra fraternal	Common Palmfly		1	1	,	,	,	1	,	,	,	/	,
FAMILY: LYCENIDAE	Common r anning	1	,	,		_ ′		_ ′	_ ′	_ ′	L '	L '	
Spalgis epeus epeus	Apefly		,	1	/	/	/	/		/			/
Curetis thetis thetis	Indian Sunbeam		,	<u>'</u>	,	<u>'</u>	Ľ	/					
			1	,	,	,	,	,	,	,			
Arhopalaamantes amantes	Large Oakblue		/	/	,	/	/	/	/	/			
Arhopala ormistoni *	Ormiston's Oakblue				/			,					
Iraota timolean nicevillei	Silverstreak Blue	EN	_					/					
Arhopala pseudocentaurus pirama	Centure Oakblue		1	/	/	/	/	/	/	/			
Zesius chrysomallus	Redspot		1	1	/	/	/	/	/	/			
Loxura atymnus arcuata	Yamfly		1	1	/	/	/	/	/	/			
Rathinda amor	Monkey-puzzle		1	1	/	/	/	/	/	/			
Horaga albimacula viola	Brown Onyx									/			
Spindasis schistacea schistacea	Plumbeous Silverline							/					
Cheritra freja pseudojafra	Common Imperial	EN								/			
Tajuria cippus loginus	Peacock Royal		1	1	/	/	/	/	/	/			
Deudoris epijarbas lycaenina	Cornelian	VU	1		/			/		/			
Jamides bochus bochus	Dark Cerulean		1	1	/	/	/	/	/	/	/	/	/
Jamides coruscans*	Ceylon Cerulean	EN	1	1	/	/	/	/	/	/			
Jamides alecto melichius	Metallic Cerulean		1	1	/	/	/	/	/	/			
Jamides celeno tissama	Common Cerulian		,	,	,	/	,	,	/	/			/
Castalius rosimon	Common Pierrot		,	,	,	1	,	/	,	,			/
Gustalius i Usil I I Ul I	JOHNHON FIEHUL	1	_ /		_ /	I '	_ /	I '	/	′			· /

Discolampa ethion ethion	Banded Blue Pierrot		1	1	/	/	/	/	/	/			
Caletadecidia decidia	Angled Pierrot		1	/	/	/	/	/	/	/			
Zizeeria kasandra	Dark Grass Blue		1	/	/	/	/	/	/	/			/
Zizina otis decreta	Lesser Grass Blue		1	1	/	/	/	/	/	/		/	/
Zizula hylax	Tiny Grass blue		1	/	/	/	/	/	/	/	/	/	/
Everes lacturnus parrhasius	Indian Cupid		1	/	/	/	/	/	/	/		/	/
Chilades pandava lanka	Plains Cupid		1	1	/	/	/	/	/	/			
Chilades parrhasius	Small Cupid	VU	1	/	/	/	/	/	/	/			
Actyolepis puspa felderi	Common Hedgblue		1	1	/	/	/	/	/	/			
Megisba maalaya	Malayan		1	/	/	/	/	/	/	/			
Hypolycaena nilgirica	Nilgiritit	VU	1		/					/			
Binadahara plocides morei	The Plane	EN	1		/	/				/			
FAMILY: HESPERIIDAE													
Hasora badra	Ceylon Banded Awl	CR			/								
Tagiades japetus obscurus	Cylon Snow Flat				/					/			
Tagiades litigiosa ceylonica	Water Snow Flat	VU	/	/	/			/		/			
Ampittia dioscoride singa	Bush Hopper		/	/	/		/	/		/		/	/
lambrix salsala luteipalpus	Chestnut Bob		/	/				/	/	/		/	/
Notocrypta paralysos alysia	Common Banded Demon		/	/	/	/							
Spalia galba	Indian Skipper		/	/	/			/		/		/	/
Taractrocera maevius	Common Grass Dart		/	/	/		/			/		/	/
Oriens goloides	Common Dartlet		/	/	/								/
Potanthus pseudomaesa	Common Dart		/	/			/						/

FRESHWATER CRABS

Scientific Name	English Name	Threatened Status	кк	ко	KN	NK	ВЕ	RU	нү	SIN	MA	KG	wĸ
	No English												
Oziothelphusa cylonensis *	Name		/	/									
Ceylonthelphusa scansor *	,,		/		/		/		/	/			
Ceylonthelphusa kandambyi *	"		/		/	/	/						
Ceylonthelphusa sentosa *	,,			/			/						
Perbrinkia nana *	,,			/			/						
Mahatha ornatipes *	,,		/	/	/	/	/						/
Pastilla ruhune *	,,	EN		/									/

LANDS SNAILS

		I							1				
Scientific Name	English Name	Threatened Status	KK	ко	KN	NK	BE	RU	HY	SIN	MA	KG	wĸ
FAMILY: ACAVIDAE													
Acavus haemastoma*	No English Name		/	/	/	/	/	/	/	/	/	/	/
Acavus phoenix *	",		/		/	/	/		/	/			
Acavus superbus*	",		/	/	/	/	/		/	/			
Oligaspira poleii *	",		/	/	/	/	/		/	/			
FAMILY: CAMEANIDAE	,,	•	•		•	•							
Beddomea albizonata*	,,		/	/	/	/	/		/	/			
Beddomea trifasciata*	"		/		/	/				/			
FAMILY: CYCLOPHORIDAE													
Cyclophorus involvulus	,,									/			
Cyclophorus menkeanus*	,,		/	/	/	/			/	/			
Aulopoma itieri*	,,				/	/			/	/			
Theobaldius parma*	"				/	/			/	/			
Theobaldius layardi*	",		/	/	/	/	/		/	1			
Thebaldius sp	",		,	,	/		,						
Leptopoma semiclausum*	,,		/		/	/			/	/			
FAMILY: ARIOPHANTIDAE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
Ratnadvipia irradians*	"		/	/	/	/	/		/	/			
Ratnadvipia karu*	,,	CR	/	/	/	/	/		/	/			

Cryptozona bistrialis	,,							/				/	
Cryptozona chenui*	"		/	/	/	/	/		/	/			
Euplecta travancorica	"		/	/	/	/			/	/			
Euplecta emiliyana*	"		/		/	/			/				
Euplecta hyphasma*	,,	EN	/										
Satiella Sp.*	,,		/	/	/	/	/		/	/			
FAMILY: GLESSULIDAE													
Glessula ceylanica*	,,		/	/	/	/	/		/	/			
FAMILY: CORILLIDAE													
Corilla adamsi*	,,	VU	/	/	/	/		/	/				
Corilla carabinata*	,,	EN	/	/	/	/	/	/	/	/		/	/
FAMILY: PUPINIDAE													
Tortulosa aurea*	,,				/				/				
Tortulosa prestoni*	,,				/	/				/			
Tortulosa haemastoma*	,,	EN			/								
Tortulosa pyramidata*	,,	EN	/	/	/	/	/		/	/			
Exotic Species													
Allopeas gracile	,,			/				/					/
Lissachatina fulica	,,		/	/	/	/		/				/	/
Mariaella dussumieri	,,,		/	/	/			/			/	/	/
Laevicaulias altae	,,,		/	/	/			/			/	/	/
Gulella bicolor	55					/							

FRESHWATER FISHES

Scientific Name	English Name	Threatened Status	кк	ко	KN	NK	BE	RU	нү	SIN	MA	KG	wĸ
FAMILY: ANGUILLIDAE		•	•	•				•		•	•		
Anguilla bicolor bicolor	Indonesian shortfin eel		/						/	/		/	
Anguilla nebulosa	Mottled eel	VU				/							/
FAMILY: CYPRINIDAE		•											
Lubuca ruhune *			/	/	/		/						
Devario malabaricus	Malabar danio		1	/	/	/	/		/	/			
Devario pathirana *	Barred danio	CR			/								
Esomus thermoicos *	Flying barb		/										
Garra ceylonensis *	Stone sucker				/	/			/	/			
Rasboroides atukorali	Horadandiya		/										/
Rasboroides vaterifloris *	Vateria flower Rasbora	EN	1	/	/	/	/						
Puntius bimaculatus	Redside barb				/	/	/						
Puntius chola	Swamp barb												
Puntius kamalika *													/
Puntius cumingii *	Two spot barb	VU			/	/							
Puntius dorsalis	Long snouted barb		/	/			/						/
Puntius kelumi *			/	/	/								
Puntius nigrofasciatus *	Black ruby barb	VU	1	/	/	/	/			/			
Puntius pleuortaenia	Side- striped barb	VU			/					/			
Puntius singhala	Sinhala barb		1	/	/	/	/		/	/			/
Puntius titteya *	Cherry barb	VU	1	/	/	/	/		/	/			
Puntius vittatus	Silver barb		1	/	/	/	/						/
Rasbora caverii	Common Rasbora		1										
Rasbora daniconius	Striped Rasbora		1	/	/	/	/		/			/	/
Rasbora wilpita *	Wilpita Rasbora	EN	1	/	/		/						
Tor khudree	Mahseer				/					/			
FAMILY: BALITORIDAE													
Acanthocobitis urophthalmus *	Tiger loach	VU		/									
Schistura notostigma *	Banded mountain loach		/	/	/	/	/						
FAMILY: COBITIDAE													
Lepidocephalichthys jonklaasi *	Jonklaas' s loach	CR		/						/			

l	1 -	1											
Lepidocephalichthys thermalis	Common spiny loach			/									
FAMILY: BAGRIDAE		1	1	1									
Mystus ankutta			/	/									
Mystus vittatus	Striped dwarf catfish		/	/	/	/	/					/	/
FAMILY: SILURIDAE													
Ompok bimaculatus	Butter catfish		/	/	/	/							
FAMILY: CLARIIDAE													
Clarias brachysoma *	Walking catfish		/	/	/	/	/		/	/	/	/	/
FAMILY: HETEROPNEUSTIDAE													
Heteropneustes fossilis	Stinging catfish		/	/	/	/	/		/	/	/	/	/
FAMILY: BELONIDAE					•		•			•			
Xenentodon cancila	Freshwater gar-fish				/								
FAMILY: ORYZIIDAE		-1											
Oryzias cf.melastigma	Blue eye											/	
FAMILY: APLOCHEILIDAE	,												
Aplocheilus dayi *	Ceylon killifish					,							
Aplocheilus parvus	Dwarf panchax										,	/	1
Aplocheilus werneri *	Werner's killifish	VU	,	,	,	,	,	,	1	,	/	,	,
FAMILY: POECILIIDAE		1	1 /	Ι /	ı /	ı /	/	ı /	/	ı /		/	,
Gambusia allinis	Mosquito fish							,					,
FAMILY: CICHLIDAE	Woodano non							/					/
Etroplus maculates	Orange chromid											,	,
•	Green chromid												/
Etroplus suratensis	Green chromia										/		Oreochromis
												/	mossambicus
FAMILY: ELOEOTRIDIDAE													
Butis butis	Upside down sleeper									_	/	/	/
Eleotris fusca	Dusky sleeper				/								/
FAMILY: ANABANTIDAE		•	•	•		•		•					
Anabas testudineus	Climbing perch		/	/	/	/	/	_		_	_	/	/
	Climbing perch		/	/	/	/	/	_				/	I
Anabas testudineus	Climbing perch Ceylonese combtail		/	/	/	/	/			/		/	/
Anabas testudineus FAMILY: BELONTIIDAE		VU	/	/	/	/	/			/		/	/
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata *	Ceylonese combtail	VU	/ /	/ /	/	/	/ / /			/		/	/
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis	Ceylonese combtail Spotted gourami	VU	/	/ / /	/	/	/ / /			/		1	/ /
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE	Ceylonese combtail Spotted gourami Spiketail paradisefish	VU	/	/ / /	1	1	/ / /			<i>J</i>		1	/ /
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy	Ceylonese combtail Spotted gourami	VU		/ / /	/	/	/ / /			1		1	/ / /
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy	VU	/ /	/ / /	/	/	/ /			1		/	/ / /
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara *	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead	VU	<i>J</i>	/ / / /	/	/	/			1		/	/ / /
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead		/ /	/ / /	/	/	/ / /			/		/	
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara *	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead		/ /	/ / / /	/	/	/			/ /		/	
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead			/ / / /	/	/	/ / / / / / / / / / / / / / / / / / /			/		/	
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis *	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead				/ / / / /	/	/ / / / /						
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead			/ / / / / / /		/ / /						/ / /	
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead			/ / / / / / /		/ / / / / / / / / / / / / / / / / / /				/ / /		1	
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel			/ / / / / / /		/ / / / / / / / / / / / / / / / / / /				/ / /			
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel			/ / / / / / /				/					
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel											1	
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel												
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck	VU											
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE Awaous melanocephalus Sicyopus jonklaasi *	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck Scribbled goby												
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE Awaous melanocephalus Sicyopus jonklaasi * Glossogobius giuris	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck Scribbled goby Red-tailed goby Tank goby	VU									/		
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE Awaous melanocephalus Sicyopus jonklaasi * Glossogobius giuris Sicyopus jonklaasi *	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck Scribbled goby Red-tailed goby	VU						/					
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE Awaous melanocephalus Sicyopus jonklaasi * Glossogobius giuris Sicyopus jonklaasi * FAMILY: MONODACTYLIDAE	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck Scribbled goby Red-tailed goby Lipstick goby	VU											
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE Awaous melanocephalus Sicyopus jonklaasi * Glossogobius giuris Sicyopus jonklaasi * FAMILY: MONODACTYLIDAE Mpnpdactylus argenteus	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck Scribbled goby Red-tailed goby Tank goby	VU											
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE Awaous melanocephalus Sicyopus jonklaasi * Glossogobius giuris Sicyopus jonklaasi * FAMILY: MONODACTYLIDAE Mpnpdactylus argenteus FAMILY: TOXOTIDAE	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck Scribbled goby Red-tailed goby Tank goby Lipstick goby Mono	VU											
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE Awaous melanocephalus Sicyopus jonklaasi * Glossogobius giuris Sicyopus jonklaasi * FAMILY: MONODACTYLIDAE Mpnpdactylus argenteus FAMILY: TOXOTIDAE Toxotes chatareus	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck Scribbled goby Red-tailed goby Lipstick goby	VU											
Anabas testudineus FAMILY: BELONTIIDAE Belontia signata * Malpulutta kretseri * Pseudosphromenus cupanus Trichogaster pectoralis FAMILY: OSPHRONEMIDAE Osphronemus goramy FAMILY: CHANNIDAE Channa ara * Channa gachua Channa orientalis * Channa punctata Channa striata FAMILY: MASTACEMBELIDAE Mastacembelus armatus FAMILY: HEMIRAMPHIDAE Zenarchopterus dispar FAMILY: GOBIIDAE Awaous melanocephalus Sicyopus jonklaasi * Glossogobius giuris Sicyopus jonklaasi * FAMILY: MONODACTYLIDAE Mpnpdactylus argenteus FAMILY: TOXOTIDAE	Ceylonese combtail Spotted gourami Spiketail paradisefish Giant goramy Great snakehead Brown snakehead Walking snakehead Spotted snakehead Snakehead murrel Zig-zag eel Half Beck Scribbled goby Red-tailed goby Tank goby Lipstick goby Mono	VU											

AMPHIBIANS

		Threatened											
Scientific Name	English Name	Status	KK	ко	KN	NK	BE	RU	HY	SI	MA	KG	WK
Family : BUFONIDAE Adinomus kelaartii *	Kelaart's Dwarf Toad	EN											
		EN			/	/			/	/			
Bufo atukoralei *	Atukoralei's Toad		/	/				/					/
Bufo noellerti *	Nollert's Toad	EN			/	/			/	/			
Dutta phrynus	Common Toad		/	/	/	/	/	/	/	/	/	/	/
Family : MICROHYLIDAE													
Kaloula taprobanica	Sri Lankan bullfrog		/	/	/	/		/	/				/
Microhyla ornata	Ornate narrow mouthed frog							/					
Ramanella nagaoi *	Nagao's Ramanella	VU	/		/		/		/				
Family :RANIDAE													
Euphlyctis cyanophlyctis	Indian skipper frog		/	/	/	/	/	/		/	/	/	/
Euphlyctis hexadactylus	Indian green frog		/	/							/	/	/
Frjervarya kirtisinghei *	Kirtisinghe's frog				/				/	/			
Frjervarya limnocharis	Common paddy field frog		/	/	/	/	/	/	/	/	/	/	/
Hoplobatrachus crassus	Jurdon's bullfrog						/					/	/
Lankanectes corrugatus *	Corrugated water frog		/	/	/	/	,		/	/			
Nannophrys ceylonensis *	Sri Lankan rock frog	VU		,	/	/	,		/				
Rana aurantiaca	Golden frog	VU	/	/	/	/	/	/	/	/			/
Rana gracilis *	Sri Lankan wood frog		,	,	/	/	/	,	·			/	,
Rana temporalis *	Bronzed frog		/	,	/	/	/		/	/		·	
Philautus abundus *	Labugama shrub frog				/	/							
Philautus cavirostris *	Hollow-snouted shrub frog	EN	/		/	·			/	/			
Philautus folicola *	Leaf dwelling shrub frog	EN	/	/	/	/	/		/	/			
Philautus hoipolloi *	Anthropogenic shrub frog		/	/	/	/	/		/				
Philautus mittermeieri *	Mittermeir's shrub frog	VU	/	/	/	/							
Philautus nemus *	Whistling shrub frog	CR							/				
Philautus popularis *	Common shrub frog		/	/	/	/	/	/	/	/	/	/	/
Philautus reticulates *	Reticulated thigh shrub frog	EN	/	/	/	/	/		/				
Philautus sordidus *	Grubby shrub frog				/				/	/			
Philautus stictomerus *	Orange canthal shrub frog		/	/	/	/				/			
Philautus auratus *	Golden Shrub frog	EN		/	/								
Polypedates cruciger *	Common hourglass tree frog		/	1	/	/	/	/	/	/	/	/	/
Polypedates longinasus *	Long-snout tree frog	EN			/								
Polypedates maculates	Sptted tree frog			/									
Family : ICHTHYOPHIIDAE													
Ichthyophis glutinosus *	Ceylon caecilian				/					/			
Ichthyophis pseudangularis *	Lesser Yellow banded caecilian	VU	/	,	/				/	/			

REPTILES

Scientific Name	English Name	Threatened Status	KK	ко	KN	NK	BE	RU	нү	SIN	MA	KG	WK
FAMILY: Acrochordidae													
Acrochordus granulatus	Water Snake / Cloth Snake	EN									/	/	
FAMILY: Colubridae													
Aheetulla nasuta	Green Vine Snake		/	/	/	/	/	/	/	/	/	/	/
Aheetulla pulverulenta	Brown Vine Snake		/	/	/	/	/		/	/			
Amphiesma stolatum	Buff Striped Keelback		/	/	/	/	/	/	/	/	/	/	/
Aspidura guentheri *	Gunther's Rough-side		/	/	/	/	/		/	/			
Atretium schistosum	Olive Keelback		/	/	/	/	/	/	/	/	/	/	/
Balanophis ceylonensis *	Sri Lankan Blossom Krait	VU			,	,			,	,			
Boiga barnesi *	Barnes's Cat Snake				/	,				/			
Boiga ceylonensis	Sri Lankan Cat Snake		/	/	/	/	/	/	/	/	/	/	/
Boiga forsteni	Forsten's Cat Snake		/	/	,	,	/		/	/			/
Cerberus rynchops	Dog-Faced Water Snake	VU									/	/	
Cercaspis carinatus *	Sri Lankan Wolf Snake	VU	/	/	/	/	/	/	/	/		,	/
Coelognathus Helena	Trinket Snake		/	/	/	/	/	/	/	/	/	/	/
Dendrelaphis bifrenalis *	Boulenger's Bronze-back		/	/	,	,	/	,	/	/			,
Dendrelaphis caudolineolatu	Striped-tailed Bronze-back	VU	/	/	/	/	/		/	/			
Dendrelaphis tristis	Common Bronze-back		/		/								
Dendrelaphis shicori			/	/	/	/	/	/	/	/	/	/	/

Lycodon aulicus	Common Wolf Snake	1	1 /	I /	Ι.	Ι.	Ι.	Ι.	Ι.	١.	Ι.	Ι.	Ι.
Lycodon osmanhilli *	Flowery Wolf Snake		1	,	/	/	/	/	/	/	/	/	/
Oligodon arnensis	Common Banded Kukri Snake	+	1	/	/	/	/	,	/	/	,	,	/
Oligodon calamarius *	Templeton's Kukri Snake	VU	1	/	,	,	<u>'</u>		,	/	/	/	/
Oligodon sublineatus *	Streaked Kukri Snake		1	/	/	/	/	,	,	/	,	,	,
Ptyas mucosa	Rat Snake		1	/	,	/	/	/	,	/	/	/	/
Sibynophis subpunctatus	Black-headed Snake		' ,	,	,	,	Ė	/	/	/	/	/	/
Xenochrophis asperrimus *	Sri Lankan Keelback		/	/	/	/	/	,	,	,	,	,	,
Xenochrophis piscator	Checkered Keelback		1	,	/	,	/	/	/		/	/	/
	Checkered Nociback				/			/	/	/	/	/	/
FAMILY: Cylindrophiidae Cylindrophis maculates *	Sri Lankan Pipe Snake	1	1	/	Ι,	١,	,		,	,			Ι,
	on auman ipo onano				/	/	/	/	/	/			/
FAMILY: Elapidae Bungarus ceylonicus *	Sri Lankan Krait		/	/	,	,	,		,	,			
Naja naja	Indian Cobra		/	/	,	/	/	,	,	/	,	,	,
	d.ii. Gobiu				/	,		/	/	/	/	/	/
FAMILY: Pythonidae Python molurus	Rock Python		1	/	,	/	/		,	,	,	,	,
					/			/	/	/	/	/	/
FAMILY: VIPERIDAE Daboia russelii russelii	Russell's Viper		1	/	1 .	/	/						
Hypnale hypnale	Merrem's Hupm-nosed Pit Viper		' ,	/	/	,	,	/	/	/	/	/	/
Hypnale neap *	Millard's Hupm-nosed Pit Viper				/	,	Ľ	/	/	/	/	/	/
Trimeresurus trigonocephalus *	Sri Lankan Green Pit Viper		/	/	/				/				
	on Lankan Green in Viper			,	/	/	/		/	/			
FAMILY: AGAMIDAE Calotes calote	Green Forest Lizard		1	/	,	/	/		,	,	,	,	,
Calotes liolepis *	Whistling Lizard		+ '-	<u>'</u>	/	,		/	,	/	/	/	/
Caloes versicolor	Garden lizard	VU	/	/	/	/	/	/	/	/		/	/
Certophora aspera *	Rough-horne Lizard		· .		/	,	,	/	/	/	/	/	/
Lyriocephalus scutatus *	Hump-nosed Lizard	EN	/	/	/	/	/		/	/			
Otocrptis wiegmanni *	Sri Lankan Kangaroo Lizard		/	/	/	/	/		/	/			
	On Edikan Kangaroo Elzara			_ ′	/	,	_ ′	/	/	/	/	/	/
FAMILY: GEKKONIDAE Hemidactylus brookii	Brooke's House Gecko	1	1 /	1 /	ı	1	1	1	ı		ı	ı	1
				,	/	/		/	/	/	/	/	/
Hemidactylus depressus *	Kandian Gecko		/	/	/	/	/	/	/	/			/
Hemidactylus frenatus	Asian House Gecko		/	/	/	/	/	/	/	/	/	/	/
Lepidodactylus lugubris	Mourning Gecko	EN						/					
Gehyra mutilata	Four-clawed Gecko		/	/	/								/
Cnemaspis silvula *			/	/	/	/	/	/	/	/			
FAMILY: SCINCIDAE													
Lankascincus fallax *	Common Supple Skink		/	/	/	/	/	/	/	/			
Lankascincus gansi *	Gans,s Lanka Skink		/	/	/					/			
Lankascincus greeri *			/	/									
Mabuya carinata	Common Skink		/	/	/	/	/	/	/	/	/	/	/
Nessia burtonii *			/	/	/			/		/			/
FAMILY: VARANIDAE													
Varanus bengalensis	Land Monitor		/	/	/	/	/	/	/	/	/	/	/
Varanus salvator	Water Monitor		/	/	/	/	/	/	/	/	/	/	/
FAMILY: CROCODYLIDAE													
Crocodyus porosus	Saltwater Crocodylus											/	
FAMILY: BATAGURIDAE													
Melanochelys trijuga parkeri	parker's black Turtle		/	/	/	/	/	/	/	/	/	/	/
FAMILY: TRIONYCHIDAE													
Lissemys punctata	Flapshell Turtle	VU	/									/	/
FAMILY: CHELONIIDAE													
Chelonia mydas	Green Turtle	EN						/					
	Olive Diellev Coe Truelle	EN						,					
Lepidochelys olivacea	Olive Ridley Sea Turtle	EN						/					

BIRDS

Scientific Name	English Name	Status	KK	ко	KN	NK	BE	RU	НҮ	SIN	MA	KG	wĸ
FAMILY:PHASIANIDAE	Plus broasted Ousil	1	,	1 ,	,		,			,			
Coturnix chinensis Galloperdix bicalcarata *	Blue-breasted Quail Sri Lanka Spurfowl		/	/	/	1	/		,	/			
Gallus lafayetii *	Sri Lanka Junglefowl			/	/	/				1			
Pavo cristatus	Indian Peafowl		/	/		/							/
FAMILY:DENDROCYGNIDAE	maian i saism					,							
Dendrocygna javanica	Lesser Whistling-duck		/									/	/
FAMILY:PICIDAE			•										
Picus chlorolophus	Lesser Yellow-naped Woodpecker		/	/	/		/			/			
Dinopium benghalense	Black-rumped Flameback												
Chrysocolaptes lucidus	Greater Flameback		/	/	/	/	/	/	/	/			/
FAMILY:MAGALAIMIDAE													
Megalaima zeylanica	Brown-headed Barbet		/	/	/	/	/	/	/	/	/	/	/
Megalaima flavifrons *	Sri Lanka Yellow-fronted Barbet		/	/	/	/	/			/			/
Megalaima rubricapilla *	Crimson-fronted Barbet		/	/	/	/	/	/	/	/		/	/
FAMILY:BUCEROTIDAE	Crit andre Constituentill		,	Ι,	,	,	,		,	,			
Ocyceros gingalensis * FAMILY:TROGONIDAE	Sri Lanka Grey Hornbill		/	/	/	/	/		/	/			
Harpactes fasciatus	Malabar Trogon		/	1	1	1	/		/	/			
	Walabai 110gon		,	,	,	/	,		,				
FAMILY:CORACIIDAE													
Coracias benghalensis	Indian Roller												/
FAMILY:ALCEDINIDAE				,									
Alcedo atthis	Common Kingfisher		/	/	/	/	/		/	/	/	/	/
Alcedo meninting	Blue-eared Kingfisher	CR	/										
Ceyx erithacus	Oriental Dwarf Kingfisher		/	/	/	/	/		/	/			
Halcyon capensis	Stork-billed Kingfisher		/	,	,	,	,	,	,	/	/	/	/
Halcyon smyrnensis	White-throated Kingfisher		/	/	/	/	/	/	/	/	/	/	/
FAMILY:CERYLIDAE	Died Vierfieler		,									,	,
Ceryle rudis FAMILY: MEROPIDAE	Pied Kingfisher		/									/	/
Merops philippinus	Blue-tailed Bee-eater		1	1 /	1	1	1	1	1	,	1	,	
Merops leschenaulti	Chestnut-headed Bee-eater		/	/	/	,	/	1				/	-/
FAMILY:CUCULIDAE	Chesthut-headed bee-eater		,	,	,		_ /					/	
Eudynamys scolopacea	Asian Koel		/	1	/	/	/	/	/	/	/	/	/
Phaenicophaeus pyrrhocephalus *	Sri Lanka Red-faced Malkoha	VU	,			,			,	7		,	,
FAMILY: CENTROPODIDAE													
Centropus sinensis	Greater Coucal		/	/	/	/	/	/	/	/	/	/	/
Centropus chlororhynchus *	Sri Lanka Green-billed Coucal	VU	/		/					/			
FAMILY:PSITTACIDAE													
Loriculus beryllinus *	Sri Lanka Hanging Parakeet		/	/	/	/	/	/	/	/		/	/
Psittacula eupatria	Alexandrine Parakeet		/	/	/	/	/	/	/	/	/	/	/
Psittacula krameri	Rose-ringed Parakeet		/	/	/	/	/	/	/	/	/	/	/
Psittacula cyanocephala	Plum-headed Parakeet				/								
Psittacula calthropae *	Sri Lanka Layard's Parakeet									/			
FAMILY:APODIDAE	December 181 of 181 of 181		,										,
Hirundapus giganteus	Brown-backed Needletail		/							,			- /
Apus affinis FAMILY: HEMPIPROCNIDAE	House Swift		/							/			/
Hemiprocne coronata	Crested Treeswift		/										
·	Crested Freeswitt		,										
FAMILY:SRRIGIDAE				1 .				1 .		1 .	1 .		
Otus sunia	Oriental Scops Owl		/	/	/	/	/	/	/	/	/	/	/
Otus bakkamoena Otus thilohofmanni *	Collard Scops Owl Serendib Scops Owl	EN	/	/	/	/	/	/	/		/	/	
Bubo nipalensis	Spot-bellied Eagle Owl	EN	/	,	1	1	/		/	/			
Strix leptogrammica	Brown Wood Owl		/	/	/	/	/		/	/			
Glaucidium castanonotum *	Sri Lanka Chestnut-backed Owlet	EN	/	,	1	,				1			
Ninox scutulata	Brown Hawk Owl		/	/	7	/	/	/	/	1	/	/	/
FAMILY:BATRACHOSTOMIDAE					<u> </u>							<u>'</u>	
Batrachostomus moniliger	Frogmouth		/	/	/	/	/		/	/			
FAMILY:CAPRIMULGIDAE													
Caprimulgus atripennis	Jerdon's Nightjar		/	/	/	/	/		/	/			
FAMILY:COLUMBIDAE													
Columba torringtoni *	Sri Lanka Wood Pigeon	VU								/			
Streptopelia chinensis	Spotted Dove		/	/	/	/	/	/	/	/	/	/	/
Chalcophaps indica	Emerald Dove		/	/	/	/	/	/	/	/			/
Treron bicincta	Orange-breasted Green-pigeon	1	/	/	/	/	/		/	/			
Treron pompadora	Pompadour Green-pigeon	1	/	/	/	/	/	/	/	/		/	/
Ducula aenea	Green Imperial Pigeon	1	/	/	/	/	/	/	/	/	/	/	/
FAMILY:RALLIDAE	1000			Ι.									
Amaurornis phoenicurus	White-breasted Waterhen		/	/	/	/	/	/		/	/	/	/

	T												
Porphyrio porphyrio	Purple Swamphen											/	/
FAMILY:JACANIDAE Hydrophasianus chirurgus	Pheasant-tailed Jacana		1										1
FAMILY:CHARADRIIDAE	Fileasaiit-taileu Jacaila		,									/	/
Himantopus himantopus	Black-winged Stilt		/									/	/
Vanellus indicus	Red-wattled Lapwing		/								/	1	/
FAMILY:LARIDAE	Trou Wattibu Zup Wing												. <u>'</u>
Sterna fuscata	Sooty Tern											/	
Chlidonias hybridus	Whiskered Tern											<i>'</i>	
FAMILY:ACCIPITRIDAE	Trinonara rain												
Pernis ptilorhyncus	Oriental Honey-buzzard		/	/	/	/	/		/	/			
Elanus caeruleus	Black-shouldered Kite		/			,	,		,	,			
Haliastur indus	Brahminy Kite		1	/	/	/	/	/	/	/			/
Haliaeetus leucogaster	White-bellied Sea-eagle		,	,					,		,	,	1
Spilornis cheela	Crested Serpent Eagle		/	/	/	/	/	/	/	/	1	/	/
Circus melonoleucos	Pied Harrier		,	,	,	,	·	,	,	,			,
Accipiter badius	Shikra		/	/	/	/	/	/	/	/	/	/	<i>'</i> ,
Accipiter virgatus	Besra	VU	1	<u> </u>	<u> </u>					<u> </u>			,
Ictinaetus malayensis	Black Eagle		,		/				/	/			
Hieraaetus kienerii	Rufous-bellied Eagle		1										
Spizaetus cirrhatus	Changeable Hawk Eagle		/	/	/	/	/		/	/			/
FAMILY:PODICIPEDIDAE	Onangeable Hawk Lagie		,	,		,	,		,	,			
Tachybaptus ruficollis	Little Grebe	+	/									/	1
FAMILY:ANHINGIDAE			,									. /	, ,
Anhinga melanogaster	Darter		/										
FAMILY:PHALACROCORACIDAE	Juno		,										
Phalacrocorax niger	Little Cormorant	+	/		/					1	/	/	/
	Little Comorant	+										/	/
FAMILY:ARDEIDAE													
Egretta garzetta	Little Egret										/	/	/
Ardea cinerea	Grey Heron											/	/
Ardea purpurea	Purple Heron		/								/	/	/
Casmerodius albus	Great Egret										/	/	/
Mesophoyx intermedia	Intermediate Egret		/								/	/	/
Bubulcus ibis	Cattle Egret		/								/	/	/
Ardeola grayii	Pond Heron		/	/	/	/	/	/		/	/	/	/
Nycticorax nycticorax	Black-crowned Night Heron		/										/
Ixobrychus sinensis	Yellow Bittern												/
Ixobrychus cinnamomeus	Cinnamon Bittern											/	/
Dupetor flavicollis	Black Bittern		/	/									/
FAMILY:THRESKIORNITHIDAE													
Threskiornis melanocephalus	Black-headed Ibis											/	/
FAMILY:CICONIIDAE												<u> </u>	
Anastomus oscitans	Asian Openbill											/	/
FAMILY:PITTIDAE											<u> </u>		
Pitta brachyura	Indian Pitta		/	/	/	/	/	/	/	/	/	/	/
FAMILY:IRENIDAE													
FAMILY:IRENIDAE Chloropsis cochinchinensis	Blue-winged Leafbird		/	/	/	/	/		/	/			
	Blue-winged Leafbird Golden-fronted Leafbird		/	/	/	/	/		/	/			
Chloropsis cochinchinensis	Golden-fronted Leafbird		/	/	/	1	/		/	/			
Chloropsis cochinchinensis Chloropsis aurifrons	-		/ /	/	/	/	/	/	/	/	/	/	/
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE	Golden-fronted Leafbird		/	/	/	/	/	/	/	/	/	/	/
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus	Golden-fronted Leafbird	VU	/ /	/	/	/	/	/	/	/ / /		/	/
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens	Brown Shrike Sri Lanka Blue Magpie House Crow	VU	/ /	/ / /	/	/	/	/	/ /	/ / / /	/	/	/
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos	Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow	VU	/ / /	1	/ /	/	/ /	/	/ /	/ / / / /	/ /	/	<i>I</i> //
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus	Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow	VU	/ / / / /	/ / /	/ / /	/ / /	/ / /	/	/ /	/ / / / / /	/ / / /	/ /	,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus	Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole	VU		/ / /		/ / /	/ / /	/ / /	/ / / / /		/ / / /	/ / /	/
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike	VU		/ / /			/ / / / /	/ / / /	/ / / / / /		/ / / /		,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera	Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike	VU		/ / /		/ / / / / /	/ / / / /	/ / / /	/ / / / / / /			/ / / / /	,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet	VU		/ / /			/ / / / / / /	/ / / /	/ / / / / / / /			/ / / / /	,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus flammeus Pericrocotus flammeus	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet	VU		/ / /				/ / / /	/ / / / / / / / /		/	/ / / /	,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus Pericrocotus flammeus Hemipus picatus	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet Bar-winged Flycatcher-shrike	VU		/ / /				/ / /	/ / / / / / / / / / / / / / / / / / /		/	/	,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus Pericrocotus flammeus Hemipus picatus Rhipidura aureola	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet Bar-winged Flycatcher-shrike White-browed Fantail	VU		/ / /					/ / / / / / / / / / / / / / / / / / /		/		,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus Pericrocotus flammeus Hemipus picatus Rhipidura aureola Dicrurus leucophaeus	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet Bar-winged Flycatcher-shrike White-browed Fantail Ashy Drongo	VU		/ / /									,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus Pericrocotus flammeus Hemipus picatus Rhipidura aureola Dicrurus leucophaeus Dicrurus caerulescens	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet Bar-winged Flycatcher-shrike White-browed Fantail Ashy Drongo White-bellied Drongo	VU		/ / /									,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus Pericrocotus flammeus Hemipus picatus Rhipidura aureola Dicrurus leucophaeus Dicrurus lophorinus	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet Bar-winged Flycatcher-shrike White-browed Fantail Ashy Drongo White-bellied Drongo Crested Drongo	VU		/ / /									,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus Pericrocotus flammeus Hemipus picatus Rhipidura aureola Dicrurus leucophaeus Dicrurus lophorinus Hypothymis azurea	Golden-fronted Leafbird Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet Bar-winged Flycatcher-shrike White-browed Fantail Ashy Drongo White-bellied Drongo Crested Drongo Black-naped Monarch	VU		/ / /									,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus Pericrocotus flammeus Hemipus picatus Rhipidura aureola Dicrurus leucophaeus Dicrurus caerulescens Dicrurus lophorinus Hypothymis azurea Terpsiphone paradisi	Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet Bar-winged Flycatcher-shrike White-browed Fantail Ashy Drongo White-bellied Drongo Crested Drongo Black-naped Monarch Asian Paradise- flycatcher	VU											,
Chloropsis cochinchinensis Chloropsis aurifrons FAMILY:LANIIDAE Lanius cristatus FAMILY:CORVIDAE Urocissa ornata * Corvus splendens Corvus macrorhynchos Artamus fuscus Oriolus xanthornus Coracina macei Coracina melanoptera Pericrocotus cinnamomeus Pericrocotus flammeus Hemipus picatus Rhipidura aureola Dicrurus leucophaeus Dicrurus caerulescens Dicrurus lophorinus Hypothymis azurea Terpsiphone paradisi Aegithina tiphia	Brown Shrike Sri Lanka Blue Magpie House Crow Large-billed Crow Ashy Woodswallow Black-hooded Oriole Large Cuckooshrike Black-headed Cuckooshrike Small Minivet Scarlet Minivet Bar-winged Flycatcher-shrike White-browed Fantail Ashy Drongo White-bellied Drongo Crested Drongo Black-naped Monarch Asian Paradise- flycathcher Common lora	VU		/ / /									,
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Acridotheres tristis	Common Myna		/	/	/	/	/	/	/	/	/	/	/
Gracula ptilogenys *	Sri Lanka Myna	EN	,		,	ŕ	ŕ			,		,	,
Gracula religiosa	Hill Myna		/	/	/	/	/		/	/			
FAMILY: SITTIDAE		L											
Sitta frontalis	Velvet-fronted Nuthatch		1	/	/	/	/		/	/			
FAMILY: HIRUNDINIDAE	Torret memora manatem	ı	<u>'</u>		,	,							
Hirundo rustica	Barn Swallow		/	/	/	/	/	/	/	/		/	/
Hirundo daurica	Red-rumped Swallow		/	/	/	/	/	/	/	/		/	/
FAMILY: PYCONONOTIDAE													
Pycnonotus melanicterus *	Black-crested Bulbul		/	/	/	/	/		/	/			
Pycnonotus cafer	Red-vented Bulbul		/	/	/	/	/	/	/	/	/	/	/
Pycnonotus luteolus	White-browed Bulbul		/	/	/	/	/	/	/	/	/	/	/
lole indica	Yellow-browed Bulbul		/	/	/	/	/		/	/			
Hypsipetes leucocephalus	Black Bulbul		/	/	/	/	/		/	/			
FAMILY: CISTICOLIDAE													
Prinia socialis	Ashy Prinia											/	
Prinia inornata	Plain Prinia												/
FAMILY: ZOSTEROPIDAE													
Zosterops palpebrosus	Oriental White-eye		/	/	/	/	/	/	/	/	/	/	/
FAMILY: SYLVIIDAE													<u>.</u>
Acrocephalus stentoreus	Clamorous Reed Warbler											/	
Orthotomus sutorius	Common Tailorbird		/	/	/	/	/	/	/	/	/	/	/
Phylloscopus trochiloides	Greenish Warbler											/	
Garrulax cinereifrons *	Ashy-headed Laughing -thrush	EN								/			
Pellorneum fuscocapillum *	Sri Lanka Brown-capped Babbler		/	/	/	/	/		/	/			
Pomatorhinus horsfieldii	Scimitar Babbler		/	/	/	/	/		/	/			
Dumetia hyperythra	Tawny-bellied Babbler									/			
Rhopocichla atriceps	Dark-fronted Babbler		/	/	/	/	/		/	/	/		
Turdoides rufescens *	Sri Lanka Orange-billed Babbler	VU								/			
Turdoides affinis	Yellow-billed Babbler		/	/	/	/	/	/	/	/	/	/	/
FAMILY: NECTARINIDAE													
Dicaeum vincens *	Sri Lanka Legge's Flowerpecker	VU	/	/	/	/	/		/	/			
Dicaeum erythrorhynchos	Pale-billed Flowerpecker		/	/	/	/	/	/	/	/	/	/	/
Nectarina zeylonica	Purple-rumped Sunbird		/	/	/	/	/	/	/	/	/	/	/
Nectarina asiatica	Purple Sunbird		/	/	/	/	/	/	/	/	/	/	/
Nectarina lotenia	Loten's Sunbird		/	/	/	/	/	/	/	/			/
FAMILY:PASSERIDAE													
Passer domesticus	House Sparrow		/	/				/			/	/	/
Dendronanthus indicus	Forest Wagtail		/	/	/	/	/	/	/	/			/
Motacilla flava	Yellow Wagtail		/		/								
Motacilla cinerea	Grey Wagtail						/						
Anthus rufulus	Paddyfield Pipit											/	/
Ploceus manyar	Streaked Weaver		/										
Ploceus philippinus	Baya Weaver		/										/
Lonchura striata	White-rumped Munia		/	/	/	/	/	/	/	/		/	/
Lonchura punctulata	Scaly-breasted Munia		/	/	/	/	/	/	/	/		/	/

MAMMALS

Out of the Name	F. P.I. M	Threatened	1414		1/21	NIIZ		ъ.,	1107	O.N.		140	14/1/
Scientific Name	English Name	Status	KK	KO	KN	NK	BE	RU	HY	SIN	MA	KG	WK
FAMILY: MANIDAE													
Manis crassicaudata	Pangolin		/	/	/	/	/	/	/	/			/
FAMILY: SORICIDAE													
Suncus murinus	Common musk shrew											/	/
FAMILY: RHINOOPHIDAE													
Rhinolophus beddomei	Great horse-shoe bat		/	/	/		/	/		/			/
Rhinolophus rouxii	Rufous horse-shoe bat		/	/	/		/			/			
FAMILY: PTEROPODIDAE													
Rousettus leschenaulti	Fulvous fruit bat		/	/	/			/					
FAMILY: HIPPOSIDEROSIDAE													
Hipposideros galeritus	Dekhan leaf-nosed bat									/			
Hipposideros ater	bicoloured leaf-nosed bat		/	/				/					
FAMILY: MEGADERMATIDAE													
Megaderma spasma	Long-eared vampire bat				/		/						
Megaderma lyra	False vampire bat		/		/					/			
FAMILY: VESPERTILLIONIDADE													
Kerivoula picta	Painted bat		/										/
FAMILY: LORISIDAE													
Loris tardigradus *	Sri Lanka red slender loris	EN	/	/	/	/	/		/	/			
FAMILY: LEPORIDAE		•											
Lepus nigricollis	Black-naped hare		/	/	/	/	/			/		/	/
FAMILY: SCURIDAE													

Ratufa macroura	Giant squirrel	VU	/	/	/	/	/		/	/			
Funambuls layardi *	Sri Lanka flame-striped jungle squirrel	EN	,	/	,	/	/		,	/			
Funambuls palmarum	Palm squirrel		/	/	1	,	,	/	,	,	/	/	/
FAMILY: HYSTERICIDAE	· ami squiis	I.	1	'	,	<u> </u>					,	<u> </u>	
Hystrix indica	Porcupine		/	/	/	/	/	/	/	/	/	/	/
FAMILY: MUSTELIDAE	Тотобрито	l			'	<u>'</u>	<u>'</u>	<u>'</u>	<u> </u>		,	<u>'</u>	
Lutra lutra	Otter	EN	/	/	/	/	/	/	/	/	/	/	/
FAMILY: CANIDAE					<u> </u>	<u> </u>	<u> </u>	1	<u> </u>			<u> </u>	
Canis aureus	Jakal		/	/	/	/	/			/		/	
FAMILY: VIVERRIDAE													
Paradoxurus hermaphoditus	Palm-cat		/	/	/	/	/	/	/	/	/	/	/
Paradoxurus zelonensis	Sri Lanka golden palm-cat	VU	/		/					/			
Viverricula indica	Ring-tailed civet		/	/	/	/	/	/	/	/	/	/	/
FAMILY: HERPESTINAE					1								
Herpestes brachyurus	Brown mongoose		/	/	/	/	/	/	/	/		/	/
Herpest edwardsii	Grey mongoose		/	/	/	/	/	/	/	/		/	/
FAMILY: FELIDAE	, ,				1								
Prionailurus rubuginosus	Rusty-spotted cat	VU	/	/	/	/	/	/	/	/	/	/	/
Prionailurus viverrinus	Fishing cat	VU	/	/	/	/	/		/	/	/	/	/
FAMILY: CERVIDAE			•							•		•	
Axis porcinus	Hog deer	EN					/						
Cervus unicolor	Sambur		/	/	/	/	/		/	/			
FAMILY: SUIDAE													
Sus scrofa	Wild boar		/	/	/	/	/		/	/			
FAMILY: TRAGULIDAE													
Moschiola meminna *	Mouse-deer		/	/	/	/	/	/	/	/		/	/
FAMILY: MURIDAE													
Bandicota indica	Malabar bandicoot		/	/	/	/	/	/	/	/	/	/	/
	Sri Lanka bicoloured spiny												
Mus mayori *	mouse	VU	/										
Mus musculus	Indian house mouse		/	/	/	/	/	/	/	/	/	/	/
Rattus rattus	Common rat		/	/	/	/	/	/	/	/	/	/	/
FAMILY: COLOBINAE		1	1		1								
Semnopithecus vetulus *	Purple-faced leaf monkey	VU	/	/	/	/	/	/	/	/	/	/	/
FAMILY: CERCOPITHECINAE		1	1										
Macaca sinica *	Sri Lanka toque monkey		/	/	/	/	/			/			

Photo catalogue: Visual aspects of the faunal diversity of Galle District



Figure 1: Lowland tropical rain forests are the major habitat type that were sampled in the survey



Figure 2: Haycock forest is the highest peak in Galle district that shows altitude gradient of fauna diversity. It represents lowland forest and sub-montane forest habitats as well.



Figure 3: Rumassala sea cliff was sampled during this survey as it shows a very unique habitat variation.



Figure 4: Vateria flower Rasbora (*Rasboroides vaterifloris*) one of the sensitive freshwater species inhabits in the streams adjoining rainforest habitats. Water pollution due to gemming, and use of agrochemicals are threatening many freshwater fish species.



Figure 5: Endangered Wilpita Rasbora *(Rasbora wilpita)* recorded out side of its original range of Wipita in Matara district.



Figure 6: Newly described *Labuca ruhuna* recorded in Elpitiya area and its habitats are under threat from illegal gemming activities.



Figure 7



Figure 8



Figure 9

Three potentially new species of freshwater fish species recorded during the current survey (Figure 7 & 8 belongs to Genus *Devario* and Figure 9 belongs to Genus *Lepidocephalichthys*). Further taxonomic and molecular studies are progressing to publish scientific papers on these species.



Figure 10: Ormiston's Oakblue (*Arhopala ormistoni*) recorded from Kanneliya forest reserve during the field sampling. This species was recorded after 90 years from its last record.



Figure 11: Unidentified amphibian species recorded from Kanneliya Forest Reserve.



Figure 12: Unidentified amphibian species recorded from Haycock Forest Reserve.



Figure 13: Unidentified amphibian species recorded from Hiyare Forest Reserve.



Figure 14: Unidentified amphibian species recorded from Kottawa Forest Reserve.



Figure 15: Unidentified amphibian species recorded from Kottawa-Kombala Forest Reserve (Hiyare). This species could become the smallest amphibian species in Sri Lanka with average length just about 14mm.





Figure 16: Malformation of amphibian species observed in the Kanneliya, Kottwa & Hiyare rainforest habitats of the Galle district

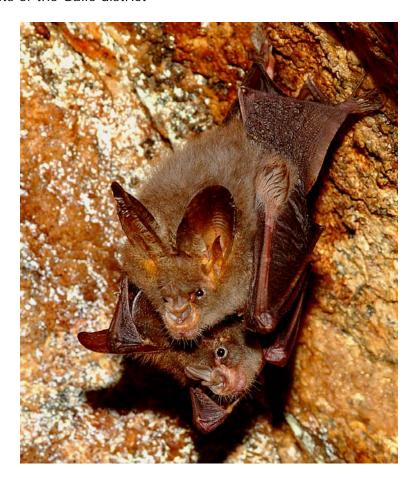


Figure 17: Long Eared Vampire Bat *(Megaderma spasma)* is one of the mammal species recorded from Kanneliya Forest Reserve.



Figure 18: Record of Ornate Narrow-mouthed frog *(Microhyla ornate)* is the first record in the lowland wet zone of Sri Lanka.



Figure 19: Golden Shrub Frog *(Philatus auratus)* recorded in the Kanneliya & Kottawa forests in this survey. This is the first record after its type locality of Sinharaja World Heritage site (Rakwana Hills).



Figure 20: Hollow Snouted Shrub Frog *(Philatus cavirostrist)* recorded in the Kottawa Kombala (Hiyare) forests in this survey. Located from Hiyare is the lowest altitude record of this species.



Figure 21: Conservation of Haycock forest is important as it is the only location of critically endangered amphibian species the Whistling Scrub Frog (*Philautus nemus*)



Figure 22: Rare and endangered Southern Duffer *(Discophora lepida)* recorded in Kottwa-Kombala (Hiyare) Forest Reserve



Figure 23: Natural habitats of endangered Hog Deer *(Axis porcinus)* in the Ambalangoda, Elpitiya and Balapitiya area are being replaced by many commercial plantations namely cinnamon and tea.



Figure 24: Female Mugger Crocodile guarding her nest in Koggala sampling site.



Figure 25: *Ratnadvipia karu* is a newly described and critically endangered land snail species that was recorded in the forest habitats of Galle district.



Figure 26: Aerial view of encroachment of tea plantations in the Galle district is a common sight. Expansion of tea plantations and chemical inputs from these plantations are threatening many species in the lowland rain forest habitats.



Figure 27: Garbage dumping in the Kottawa forest reserve





Figure 28: Illegal brewing of alcohol in the forest areas surrounding in the streams and wetland habitats are common in most of the forest habitats in the Galle District. Dumping of waste materials directly to the wetland habitats is common and it is causing serious threat to the freshwater dwelling species.

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