

# ATLAS OF ENDEMIC AMPHIBIANS OF WESTERN GHATS



K. A. Subramanian  
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ZOOLOGICAL SURVEY OF INDIA



**Atlas of  
Endemic Amphibians  
of  
Western Ghats**

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## **Preface**

Amphibians comprising of frogs, toads and caecilians are important vertebrates of terrestrial and aquatic ecosystems. They play significant role in various ecosystem functions such as predators of invertebrates and as prey of large vertebrates. Further, due to their diverse habitat use they are reliable indicators of ecosystem and landscape health.

Western Ghats of the India is one of the global hotspots for amphibian diversity. Out of 181 species recorded from this region, 159 are endemic. This high level of endemism is attributed to its unique geography, bioclimatic conditions and past biogeographic events. The continued discovery of new species from this hotspot highlights the global importance of the Western Ghats in amphibian diversity and conservation.

The current volume provides an overview of distribution of 159 endemic amphibians of the Western Ghats. Each species is briefly described with photograph, colour distribution map and current IUCN status. The aim of the volume is to provide an overview of amphibian diversity of the Western Ghats and highlight information gaps in distribution. We hope that our efforts will encourage more field biologists in further exploration of the region and document the diversity of amphibians to mitigate taxonomic and geographic information gaps.

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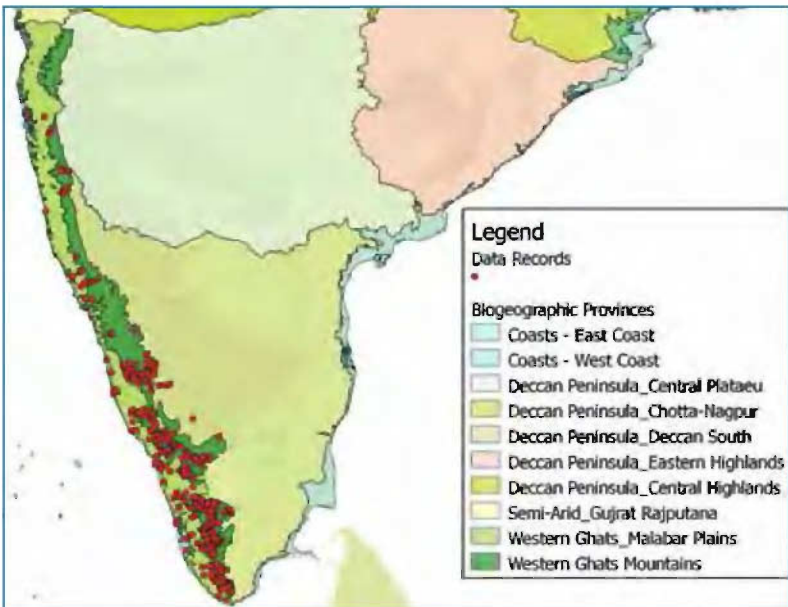
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## INTRODUCTION

The Western Ghats (WG), also known by the name 'The Sahyadris', constitute a 1600 km long mountain chain along the west coast of India, originating from south of the Tapi River (near the border of Gujarat and Maharashtra), and extending upto Kanyakumari, at the southernmost tip of the Indian peninsula (between 21°N latitude to 8°N latitude – Map-01). Covering an area of about 1,60,000 sq km, the Ghats traverses the five states of Gujarat, Maharashtra, Goa, Karnataka, Tamil Nadu and Kerala. The northern hills with an average elevation 1,220 m are generally lower and gentler than the southern hills, the taller parts of the hill ranges. Anaimudi peak rising to a height of 2,695 metres (8,842 ft), at the southern part of the range, towards the Anaimalai Hills in Tamil Nadu and Kerala is the highest peak in WG as well as in peninsular India. The 2637 m high



Map-01

Dodabetta in Nilgiris in Tamil Nadu is ranked the second highest peak in WG. The lower parts of the ghats experience a humid and tropical type of climate and the elevated regions have a more temperate climate. The western side of the WG is on the threshold of southwest monsoon and receives very high rainfall, while the eastern side lies in the rain shadow area of the peninsula (Daniels and Vencatesan, 2008).

The massive mountain chain is interrupted by a few gaps/passes, the most prominent one being the Palghat gap, at the Tamil Nadu/Kerala border between the Nilgiri Hills and the Anaimalai Hills. The gap is 32 km at its widest and 13 km at its narrowest. The southern part of the WG harbours the Nilgiri Hills (the word Nilgiri meaning “Blue Mountains”) which is the meeting point of the Western with Eastern Ghats. The narrow coastal plain between the WG and the Arabian Sea is known as the Konkan Coast in the north and the Malabar Coast in the south.

The Western Ghats, an area of rich biodiversity and also exhibiting high degrees of endemism, comprises the major portion of the Western Ghats - Sri Lanka Hotspot, one of the 34 global biodiversity hotspots for conservation by the Conservation International (Myers *et al.*, 2000). The area is also one of the world’s eight “Hottest biodiversity hotspots”. Of the Global 200 priority ecoregions of World Wide Fund for Nature (WWF), Southwestern Ghats Moist Forests and Western Ghats Rivers and Streams fall under the Critically Endangered Category (<http://worldwildlife.org>).

## **Amphibians of Western Ghats**

Globally there are 5,966 species of Anurans, 619 species of salamandrids (Caudata) and 186 species of Gymnophiona totaling to 6,771 species (Frost, 2011). In India there are 305 species of Anurans, one species of Salamander and 36 species of Gymnophiona totaling to 342 species (Dinesh *et al.*, 2012). A total of 183 species of amphibians are known within the

limits of Western Ghats falling in the political boundaries of Gujarat, Maharashtra, Goa, Karnataka, Kerala and Tamil Nadu states, of which 157 species of frogs/toads and 26 species of caecilians (Gymnophiona) are endemic to Western Ghats (unpublished data).

The discovery of amphibians in Western Ghats was initiated during the year 1799 by Schneider and it continued at a regular pace till 2000. However, the last decade of the 20<sup>th</sup> century marked the spurge in amphibian systematics. Over 30 new species and a new family, the Nasikabatrachidae, were discovered (Dinesh *et al.*, 2009).

The amphibian fauna of Western Ghats is represented by 11 families and 30 genera (Table-1). Three families, Micrixalidae, Nasikabatrachidae and Ranixalidae; ten genera, *Ghatophryne*, *Xanthophryne*, *Micrixalus*, *Melanobatrachus*, *Nasikabatrachus*, *Nyctibatrachus*, *Indirana*, *Ghatixalus*, *Indotyphlus*, *Uraeotyphlus* and 159 species of amphibians are endemic to this region (Dinesh *et al.*, 2009). Genera such as *Raorchestes* (Rhacophoridae), *Nyctibatrachus* (Nyctibatrachidae), *Micrixalus* (Micrixalidae) and *Indirana* (Ranixalidae) have high diversity and endemism (Table-2).

**Table-1.** Diversity of amphibians in India and Western Ghats (till December, 2011)

	India			Western Ghats			
	Family	Genera	Species	Family	Genera	Species	No. of endemic species
Anura	11	49	303	09	25	156	134
Caudata	01	01	01	0	0	0	0
Gymnophiona	02	04	35	02	04	25	25
Total	14	54	339	11	29	181	159

**Table-2.** Amphibian Diversity of the Western Ghats  
(till December, 2011)

Family	Genus	No. of species in Western Ghats	No. of species endemic to Western Ghats
Bufonidae	<i>Duttaphrynus</i>	8	4
	<i>Ghatophryne</i> <sup>®</sup>	2	2
	<i>Pedostibes</i>	1	1
	<i>Xanthophryne</i> <sup>®</sup>	2	2
Dicroglossidae	<i>Euphlyctis</i>	4	2
	<i>Fejervarya</i>	14	12
	<i>Hoplobatrachus</i>	2	0
	<i>Minervarya</i>	1	1
	<i>Sphaerotheca</i>	4	2
Micrixalidae*	<i>Micrixalus</i> <sup>®</sup>	11	11
Microhylidae	<i>Melanobatrachus</i> <sup>®</sup>	1	1
	<i>Kaloula</i>	1	0
	<i>Microhyla</i>	3	1
	<i>Ramanella</i>	6	5
	<i>Uperodon</i>	2	0
Nasikabatrachidae*	<i>Nasikabatrachus</i> <sup>®</sup>	1	1
Nyctibatrachidae <sup>#</sup>	<i>Nyctibatrachus</i> <sup>®</sup>	27	27

Family	Genus	No. of species in Western Ghats	No. of species endemic to Western Ghats
Ranidae	<i>Clinotarsus</i>	1	1
	<i>Hylarana</i>	3	0
Ranixalidae*	<i>Indirana</i> <sup>@</sup>	10	10
Rhacophoridae	<i>Ghatixalus</i> <sup>@</sup>	2	2
	<i>Polypedates</i>	3	2
	<i>Beddomixalus</i>	1	1
	<i>Pseudophilautus</i>	3	3
	<i>Raorchestes</i>	39	39
	<i>Rhacophorus</i>	4	4
Indotyphlidae	<i>Gegeneophis</i>	10	10
	<i>Indotyphlus</i> <sup>@</sup>	2	2
Ichthyophiidae	<i>Ichthyophis</i>	6	6
	<i>Uraeotyphlus</i> <sup>@</sup>	7	7
	<b>Total</b>	<b>181</b>	<b>159</b>

\* Families endemic to Western Ghats;

<sup>@</sup> genera endemic to Western Ghats;

<sup>#</sup> family restricted to Western Ghats and Sri Lanka.

Of the so far known 181 species of amphibians in Western Ghats, 87% of the species (159) are endemic to this region (Table-2) , highlighting the global importance of the Western Ghats in Amphibian diversity.

## Conservation Status

As per the IUCN threat assessment, 54% of the endemic species of the Western Ghats are Data Deficient; 18% are Endangered; 10% are Critically Endangered and Vulnerable; 2% are Near Threatened and 6% are Least Concerned (<http://www.iucnredlist.org>). The data deficiency of over fifty percent of species are largely due to limited field studies and emphasizes the importance of gathering more data for assessing their threat status. A recent study (Dinesh *et al.*, 2009; <http://lostspeciesindia.org>) suggests that 28 species of amphibians from Western Ghats are feared to be lost and another 19 species from the rest of India.

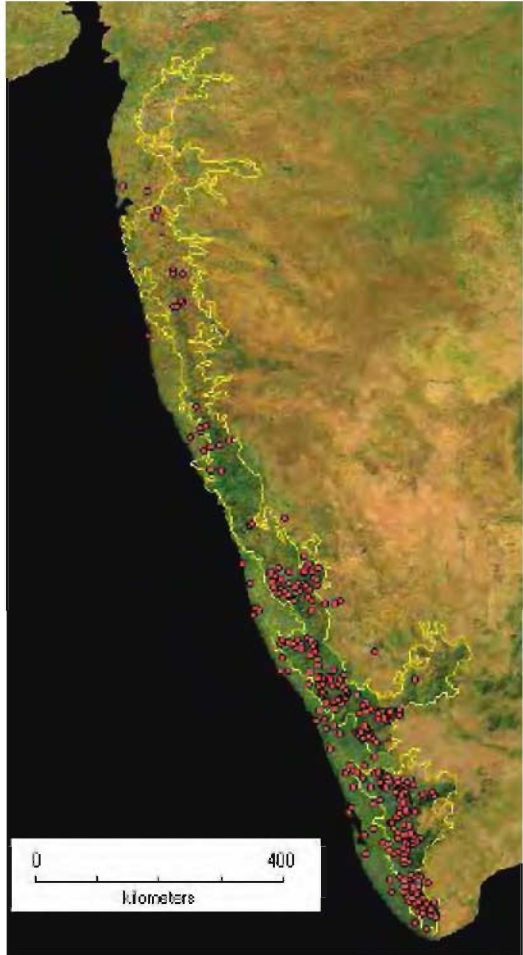
**Table-3:** IUCN Redlist Status of Endemic Amphibians of Western Ghats (Updated October, 2011)

Family	Number of Species						Total
	DD	LC	NT	VU	EN	CR	
Bufonidae	2	-	-	2	4	1	<b>09</b>
Dicroglossidae	13	1	-	-	2	1	<b>17</b>
Micrixalidae	5	-	1	3	1	1	<b>11</b>
Microhylidae	2	-	1	1	3	-	<b>07</b>
Nasikabatrachidae	-	-	-	-	1	-	<b>01</b>
Nyctibatrachidae	17	1	-	3	6	-	<b>27</b>
Ranidae	-	-	1	-	-	-	<b>01</b>
Ranixalidae	2	2	-	1	3	2	<b>10</b>
Rhacophoridae	24	3	-	5	8	11	<b>51</b>
Indotyphlidae	11	1	-	-	-	-	<b>12</b>
Ichthyophiidae	11	2	-	-	-	-	<b>13</b>
<b>Total</b>	<b>87</b>	<b>10</b>	<b>3</b>	<b>15</b>	<b>28</b>	<b>16</b>	<b>159</b>

*Legend:* DD - Data Deficient, LC - Least Concerned, NT - Near Threatened, VU - Vulnerable, EN - Endangered, CR - Critically Endangered

## Methods

The Amphibian species with distribution known exclusively from the Western Ghats (Map-1) are only considered for this work. Distribution records for each of the 159 species were compiled from registered museum collections of Western Ghats Regional Centre (WGRC), ZSI, Kozhikode; Southern Regional Centre (SRC), ZSI, Chennai, and from published scientific literature. A total of 1040 records were computerized (Map-02). The localities were identified with the help of state and district atlases, Survey of India toposheets and Google Earth. Each species record was georeferenced into a database. Distribution maps were plotted and the geospatial analysis was carried out with DIVA-GIS 5.7 and Quantum GIS. Species richness across the Western Ghats was analyzed with DIVA-GIS 5.7 at grid size of 0.125 degrees (~14 km × 14 km).



**Map-02:** The study area showing sampling locations

## Results and Discussions

Current study documents the diversity and distribution of 159 endemic amphibians of the Western Ghats. All the species of Families such as Micrixalidae, Nyctibatrachidae, Ranixalidae, Indotyphlidae and Ichthyophiidae are endemic to the Western Ghats and the family Rhacophoridae has nearly 98% endemism (Table-4). There is a higher diversity and endemism in subterranean habitats, streams, canopy and shrubs (Table-5). Majority of the endemic species have direct development and a large number of species use streams, pools and marshes as breeding habitats (Fig. 01). Family, genera and species diversity is high in Agasthyamalai, Anamalai, Nilgiri, Wayanad and Coorg regions (Maps-03, 04 and 05).

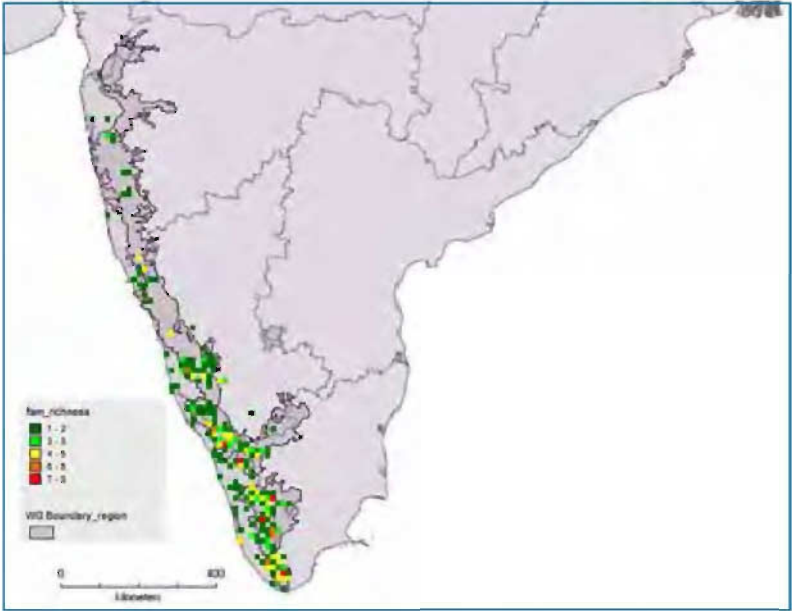
**Table-4:** Diversity of Endemic Amphibians (till 2011 December)

Family	No. Genera	Endemic Genera	No. Species	Endemic Species	%Endemism
Bufo	4	2	13	9	69
Dicroglossidae	5	0	25	17	68
Micrixalidae	1	1	11	11	100
Microhylidae	5	1	13	7	54
Nasikabatrachidae	1	1	1	1	100
Nyctibatrachidae	1	1	27	27	100
Ranidae	2	0	4	1	25

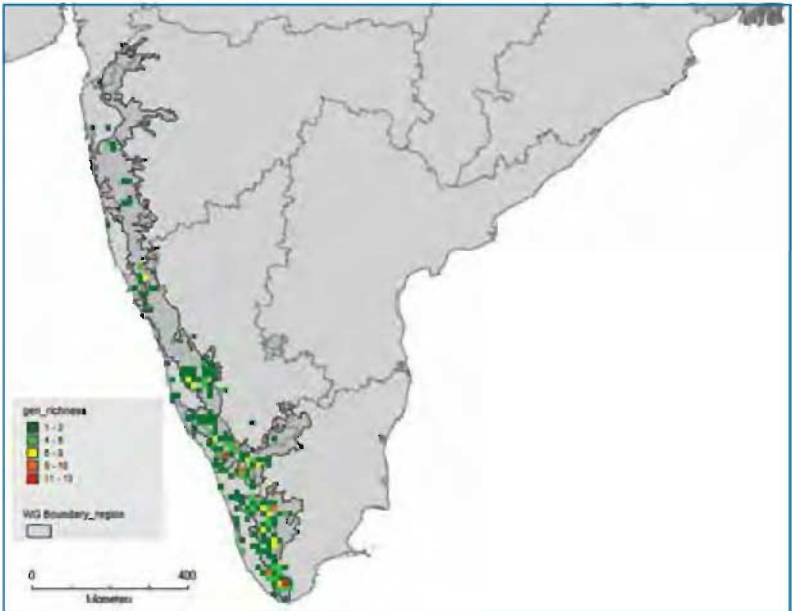
Family	No. Genera	Endemic Genera	No. Species	Endemic Species	%Endemism
Ranixalidae	1	1	10	10	100
Rhacophoridae	6	1	52	51	98
Indotyphlidae	2	1	12	12	100
Ichthyophiidae	2	1	13	13	100
<b>Total</b>	<b>29</b>	<b>10</b>	<b>181</b>	<b>159</b>	<b>88</b>

**Table: 5** Adult Habitats of Endemic Amphibians

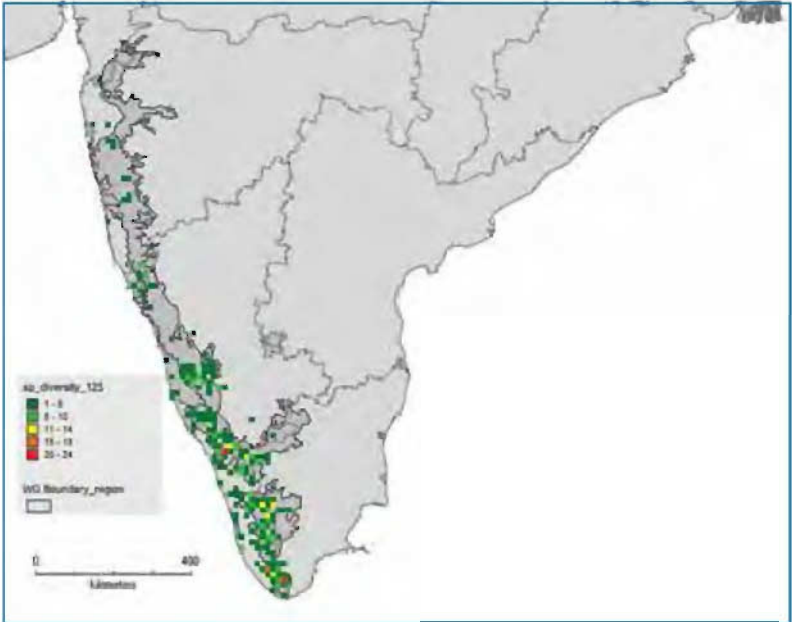
Adult Habitat	Endemic Species
Tree Holes	1
Pools	2
Shrubs/Trees	3
Semi Arboreal	5
Shrubs	5
Forest Floor/Terrestrial	7
Marshes	13
Forest Floor	14
Subterranean	26
Hill Streams	40
Shrub/Canopy	43



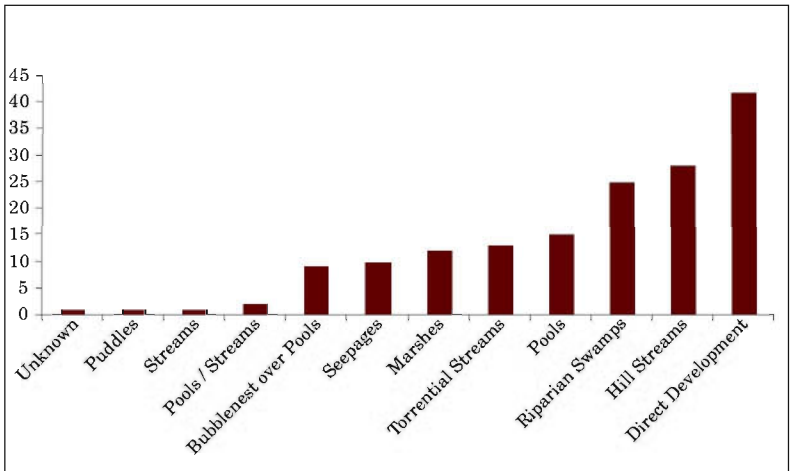
**Map-03:** Diversity of families in the Western Ghats



**Map-04:** Genera Diversity in the Western Ghats



**Map-05:** Species diversity in the Western Ghats



**Figure-01:** Larval Habitats of Endemic Amphibians

Principal Component Analysis of endemic amphibian species richness and five key bioclimatic variables shows that high endemic species diversity is positively correlated with precipitation seasonality, mean annual precipitation, temperature seasonality and mean annual temperature. However, endemic species diversity is negatively correlated with altitude (Fig. 02). Precipitation seasonality and average annual precipitation explains nearly eighty one percentage of variation. Temperature seasonality and average annual temperature explains eighteen percentages of variation and remaining residual variation is explained by altitude (Fig. 03 and Table-06). Since the temperature seasonality and average annual temperature are negatively correlated with altitude in the Western Ghats, the observed pattern of low diversity of endemic species in high altitudes are actually related to temperature per se in the Western Ghats.

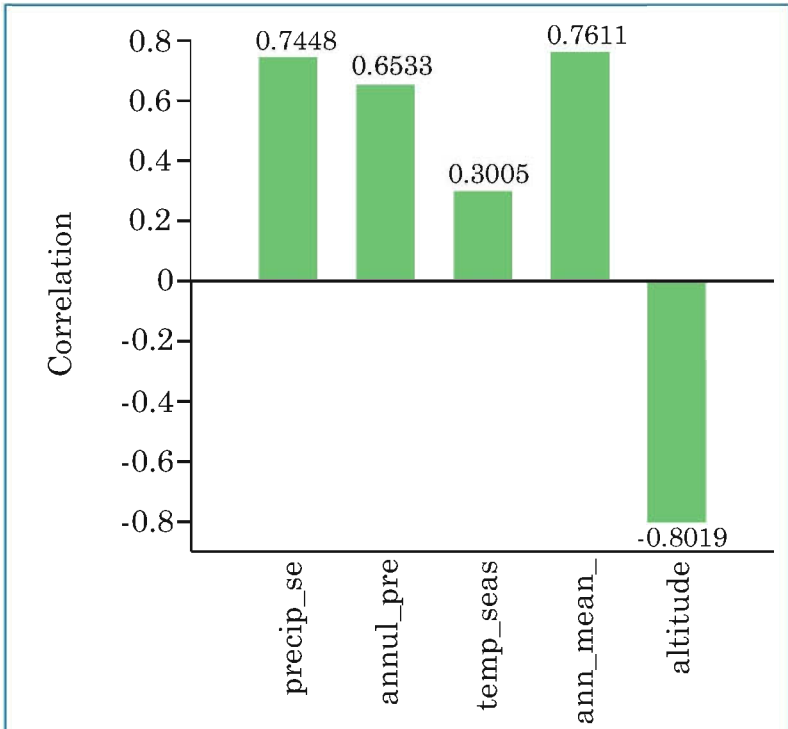
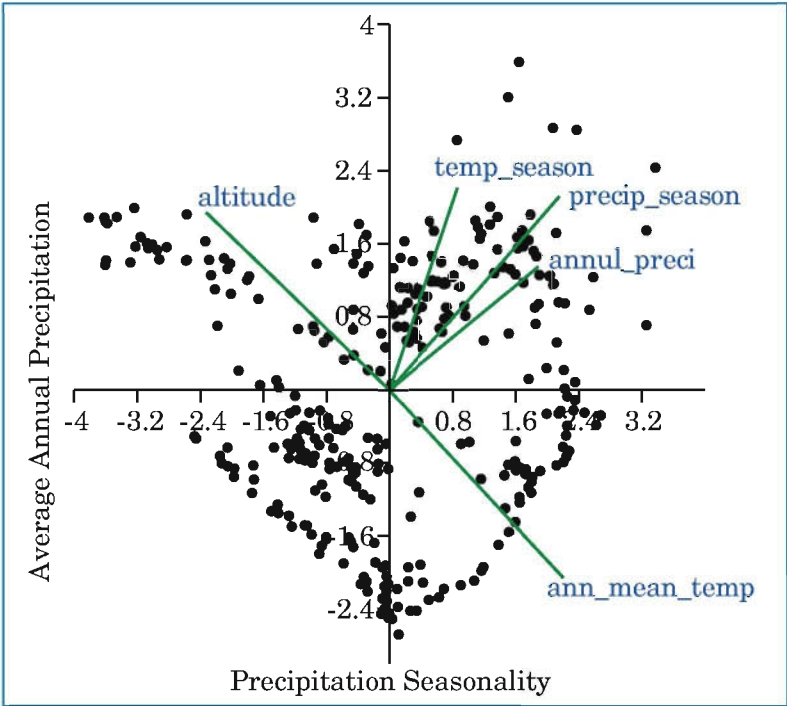


Figure-02: Bioclimatic Correlates of Endemic Species Diversity



**Figure-03:** Scatter Plot of Principal Component Analysis of Bioclimatic variables.

**Table-06:** Principal Component Analysis of Bioclimatic variables

PC Axis	Eigen value	% variance
Precipitation Seasonality	2.29416	45.883
Average Annual Precipitation	1.75063	35.013
Temperature Seasonality	0.88128	17.626
Annual Mean Temperature	0.0709222	1.4184
Altitude	0.00300126	0.0600

## Checklist of Amphibians of Western Ghats

Sl. No.	Description of Species	Status
<b>Family: Bufonidae</b>		
1	<i>Duttaphrynus beddomii</i> (Gunther, 1875)	Endemic
2	<i>Duttaphrynus brevirostris</i> (Rao, 1937)	Endemic
3	<i>Duttaphrynus microtympanum</i> (Boulenger 1882)	Endemic
4	<i>Duttaphrynus silentvalleyensis</i> (Pillai, 1982)	Endemic
5	<i>Duttaphrynus melanostictus</i> (Schneider 1799)	Non endemic
6	<i>Duttaphrynus parietalis</i> Boulenger, 1882	Non endemic
7	<i>Duttaphrynus scaber</i> Schneider, 1799	Non endemic
8	<i>Duttaphrynus stomaticus</i> (Lutken 1862)	Non endemic
9	<i>Ghatophryne ornata</i> (Gunther, 1876)	Endemic
10	<i>Ghatophryne rubigina</i> (Pillai and Pattabiraman, 1981)	Endemic
11	<i>Pedostibes tuberculosus</i> Gunther 1875	Endemic

Sl. No.	Description of Species	Status
12	<i>Xanthophryne koynayensis</i> (Soman, 1963)	Endemic
13	<i>Xanthophryne tigrinus</i> Biju, Bocxlaer, Giri, Loader and Bossuyt, 2009	Endemic
<b>Family: DICROGLOSSIDAE</b>		
14	<i>Euphlyctis aloysii</i> Joshy, Alam, Kurabayashi, Sumida and Kuramoto, 2009	Endemic
15	<i>Euphlyctis mudigere</i> Joshy, Alam, Kurabayashi, Sumida and Kuramoto, 2009	Endemic
16	<i>Euphlyctis cyanophlyctis</i> (Schneider, 1799)	Non endemic
17	<i>Euphlyctis hexadactylus</i> (Lesson, 1834)	Non endemic
18	<i>Fejervarya brevipalmata</i> (Peters, 1871)	Endemic
19	<i>Fejervarya caperata</i> Kuramoto, Joshy, Kurabayashi and Sumida, 2007	Endemic
20	<i>Fejervarya granosa</i> Kuramoto, Joshy, Kurabayashi and Sumida, 2007	Endemic
21	<i>Fejervarya keralensis</i> (Dubois, 1980)	Non endemic

Sl. No.	Description of Species	Status
22	<i>Fejervarya kudremukhensis</i> Kuramoto, Joshy, Kurabayashi and Sumida, 2007	Endemic
23	<i>Fejervarya modestus</i> (Rao, 1920)	Endemic
24	<i>Fejervarya mudduraja</i> Kuramoto, Joshy, Kurabayashi and Sumida, 2007	Endemic
25	<i>Fejervarya murthii</i> (Pillai, 1979)	Endemic
26	<i>Fejervarya mysorensis</i> (Rao, 1922)	Endemic
27	<i>Fejervarya nilagirica</i> (Jerdon, 1853)	Endemic
28	<i>Fejervarya parambikulamana</i> (Rao, 1937)	Endemic
29	<i>Fejervarya rufescens</i> (Jerdon, 1853)	Endemic
30	<i>Fejervarya sauriceps</i> (Rao, 1937)	Endemic
31	<i>Fejervarya syhadrensis</i> (Annandale, 1919)	Non endemic
32	<i>Hoplobatrachus crassus</i> (Jerdon, 1853)	Non endemic

Sl. No.	Description of Species	Status
33	<i>Hoplobatrachus tigerinus</i> (Daudin, 1803)	Non endemic
34	<i>Minervarya sahyadris</i> Dubois, Ohler and Biju, 2001	Endemic
35	<i>Sphaerotheca breviceps</i> (Schneider, 1799)	Non endemic
36	<i>Sphaerotheca dobsonii</i> (Boulenger, 1882)	Endemic
37	<i>Sphaerotheca leucorhynchus</i> (Rao, 1937)	Endemic
38	<i>Sphaerotheca rolandae</i> (Dubois, 1983)	Non endemic
<b>Family: MICRIXALIDAE</b>		
39	<i>Micrixalus elegans</i> (Rao, 1937)	Endemic
40	<i>Micrixalus fuscus</i> (Boulenger, 1882)	Endemic
41	<i>Micrixalus gadgili</i> Pillai and Pattabiraman, 1990	Endemic
42	<i>Micrixalus kottigeharensis</i> (Rao, 1937)	Endemic
43	<i>Micrixalus narainensis</i> (Rao, 1937)	Endemic

Sl. No.	Description of Species	Status
44	<i>Micrixalus nudis</i> Pillai, 1978	Endemic
45	<i>Micrixalus phyllophilus</i> (Jerdon, 1853)	Endemic
46	<i>Micrixalus saxicola</i> (Jerdon, 1853)	Endemic
47	<i>Micrixalus silvaticus</i> (Boulenger, 1882)	Endemic
48	<i>Micrixalus swamianus</i> (Rao, 1937)	Endemic
49	<i>Micrixalus thampii</i> Pillai, 1981	Endemic
<b>Family: MICROHYLIDAE</b>		
50	<i>Kaloula taprobanica</i> Parker, 1934	Non endemic
51	<i>Melanobatrachus indicus</i> Beddome, 1878	Endemic
52	<i>Microhyla ornata</i> (Dumeril and Bibron, 1841)	Non endemic
53	<i>Microhyla rubra</i> (Jerdon, 1854)	Non endemic
54	<i>Microhyla sholigari</i> Dutta and Ray, 2000	Endemic
55	<i>Ramanella anamalaiensis</i> Rao, 1937	Endemic

Sl. No.	Description of Species	Status
56	<i>Ramanella minor</i> Rao, 1937	Endemic
57	<i>Ramanella montana</i> (Jerdon, 1854)	Endemic
58	<i>Ramanella marmorata</i> Rao, 1937	Endemic
59	<i>Ramanella triangularis</i> (Gunther, 1875)	Endemic
60	<i>Ramanella variegata</i> (Stoliczka, 1872)	Non endemic
61	<i>Uperodon globulosus</i> (Gunther, 1864)	Non endemic
62	<i>Uperodon systoma</i> (Schneider, 1799)	Non endemic
<b>Family: NASIKABATRACHIDAE</b>		
63	<i>Nasikabatrachus sahyadrensis</i> Biju and Bossuyt, 2003	Endemic
<b>Family: NYCTIBATRACHIDAE</b>		
64	<i>Nyctibatrachus acanthodermis</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011	Endemic
65	<i>Nyctibatrachus aliciae</i> Inger, Shaffer, Koshy and Bakde, 1984	Endemic

Sl. No.	Description of Species	Status
66	<i>Nyctibatrachus anamallaiensis</i> (Myers, 1942)	Endemic
67	<i>Nyctibatrachus beddomii</i> (Boulenger, 1882)	Endemic
68	<i>Nyctibatrachus danieli</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011	Endemic
69	<i>Nyctibatrachus dattatreyaensis</i> Dinesh, Radhakrishnan and Bhatta, 2008	Endemic
70	<i>Nyctibatrachus deccanensis</i> Dubois, 1984	Endemic
71	<i>Nyctibatrachus deveni</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011	Endemic
72	<i>Nyctibatrachus gavi</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011	Endemic
73	<i>Nyctibatrachus grandis</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011	Endemic
74	<i>Nyctibatrachus humayuni</i> Bhaduri and Kripalani, 1955	Endemic

Sl. No.	Description of Species	Status
75	<i>Nyctibatrachus indraneili</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011	Endemic
76	<i>Nyctibatrachus jog</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011	Endemic
77	<i>Nyctibatrachus karnatakaensis</i> Dinesh, Radhakrishnan, Reddy and Gururaja, 2007	Endemic
78	<i>Nyctibatrachus kempholeyensis</i> (Rao, 1937)	Endemic
79	<i>Nyctibatrachus major</i> Boulenger, 1882	Endemic
80	<i>Nyctibatrachus minimus</i> Biju, Bocxlaer, Giri, Roelants, Nagaraju and Bossuyt, 2007	Endemic
81	<i>Nyctibatrachus minor</i> Inger, Shaffer, Koshy and Bakde, 1984	Endemic
82	<i>Nyctibatrachus periyar</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011	Endemic
83	<i>Nyctibatrachus petraeus</i> Das and Kunte, 2005	Endemic

Sl. No.	Description of Species	Status
84	<i>Nyctibatrachus pillaii</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011	Endemic
85	<i>Nyctibatrachus poocha</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011	Endemic
86	<i>Nyctibatrachus sanctipalustris</i> Rao, 1920	Endemic
87	<i>Nyctibatrachus shiradi</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011	Endemic
88	<i>Nyctibatrachus sylvaticus</i> Rao, 1937	Endemic
89	<i>Nyctibatrachus vasanthi</i> Ravichandran, 1997	Endemic
90	<i>Nyctibatrachus vrijeuni</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011	Endemic
<b>Family: RANIDAE</b>		
91	<i>Clinotarsus curtipes</i> (Jerdon, 1853)	Endemic
92	<i>Hylarana aurantiaca</i> (Boulenger, 1904)	Non endemic

Sl. No.	Description of Species	Status
93	<i>Hylarana malabarica</i> (Tschudi, 1838)	Non endemic
94	<i>Hylarana temporalis</i> (Gunther, 1864)	Non endemic
<b>Family: RANIXALIDAE</b>		
95	<i>Indirana beddomii</i> (Gunther, 1875)	Endemic
96	<i>Indirana brachytarsus</i> (Gunther, 1875)	Endemic
97	<i>Indirana diplosticta</i> (Gunther, 1875)	Endemic
98	<i>Indirana gundia</i> (Dubois, 1986)	Endemic
99	<i>Indirana leithii</i> (Boulenger, 1888)	Endemic
100	<i>Indirana leptodactyla</i> (Boulenger, 1882)	Endemic
101	<i>Indirana longicrus</i> (Rao, 1937)	Endemic
102	<i>Indirana phrynoderma</i> (Boulenger, 1882)	Endemic
103	<i>Indirana semipalmata</i> (Boulenger, 1882)	Endemic
104	<i>Indirana tenuilingua</i> (Rao, 1937)	Endemic

Sl. No.	Description of Species	Status
<b>Family: RHACOPHORIDAE</b>		
105	<i>Ghatixalus asterops</i> Biju, Roelants and Bossuyt, 2008	Endemic
106	<i>Ghatixalus variabilis</i> (Jerdon, 1853)	Endemic
107	<i>Beddomixalus bijui</i> Zachariah, Dinesh, Radhakrishnan, Kunhikrishnan, Palot and Vishnudas, 2011	Endemic
108	<i>Polypedates maculatus</i> (Gray, 1834)	Non endemic
109	<i>Polypedates occidentalis</i> Das and Dutta, 2006	Endemic
110	<i>Polypedates pseudocruciger</i> Das and Ravichandran, 1998	Endemic
111	<i>Pseudophilautus amboli</i> (Biju and Bossuyt, 2009)	Endemic
112	<i>Pseudophilautus kani</i> (Biju and Bossuyt, 2009)	Endemic
113	<i>Pseudophilautus wynaadensis</i> (Jerdon, 1853)	Endemic
114	<i>Raorchestes agasthyaensis</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic

Sl. No.	Description of Species	Status
115	<i>Raorchestes akroparallagi</i> (Biju and Bossuyt, 2009)	Endemic
116	<i>Raorchestes anili</i> (Biju and Bossuyt, 2006)	Endemic
117	<i>Raorchestes beddomii</i> (Gunther, 1876)	Endemic
118	<i>Raorchestes bobingeri</i> (Biju and Bossuyt, 2005)	Endemic
119	<i>Raorchestes bombayensis</i> (Annandale, 1919)	Endemic
120	<i>Raorchestes chalazodes</i> (Gunther, 1876)	Endemic
121	<i>Raorchestes charius</i> (Rao, 1937)	Endemic
122	<i>Raorchestes chlorosomma</i> (Biju and Bossuyt, 2009)	Endemic
123	<i>Raorchestes chotta</i> (Biju and Bossuyt, 2009)	Endemic
124	<i>Raorchestes chromasynchysi</i> (Biju and Bossuyt, 2009)	Endemic
125	<i>Raorchestes coonoorensis</i> (Biju and Bossuyt, 2009)	Endemic

Sl. No.	Description of Species	Status
126	<i>Raorchestes crustai</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic
127	<i>Raorchestes dubois</i> (Biju and Bossuyt, 2006)	Endemic
128	<i>Raorchestes flaviventris</i> (Boulenger, 1882)	Endemic
129	<i>Raorchestes glandulosus</i> (Jerdon, 1853)	Endemic
130	<i>Raorchestes graminirupes</i> (Biju and Bossuyt, 2005)	Endemic
131	<i>Raorchestes griet</i> (Bossuyt, 2002)	Endemic
132	<i>Raorchestes jayarami</i> (Biju and Bossuyt, 2009)	Endemic
133	<i>Raorchestes johnceei</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic
134	<i>Raorchestes kadalarensis</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic

Sl. No.	Description of Species	Status
135	<i>Raorchestes kaikatti</i> (Biju and Bossuyt, 2009)	Endemic
136	<i>Raorchestes luteolus</i> (Kuramoto and Joshy, 2003)	Endemic
137	<i>Raorchestes manohari</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic
138	<i>Raorchestes marki</i> (Biju and Bossuyt, 2009)	Endemic
139	<i>Raorchestes munnarensis</i> (Biju and Bossuyt, 2009)	Endemic
140	<i>Raorchestes nerostagona</i> (Biju and Bossuyt, 2005)	Endemic
141	<i>Raorchestes ochlandrae</i> (Gururaja, Dinesh, Palot, Radhakrishnan and Ramachandra, 2007)	Endemic
142	<i>Raorchestes ponmudi</i> (Biju and Bossuyt, 2005)	Endemic
143	<i>Raorchestes ravii</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic

Sl. No.	Description of Species	Status
144	<i>Raorchestes resplendens</i> Biju, Shouche, Dubois, Dutta and Bossuyt, 2010	Endemic
145	<i>Raorchestes signatus</i> (Boulenger, 1882)	Endemic
146	<i>Raorchestes sushili</i> (Biju and Bossuyt, 2009)	Endemic
147	<i>Raorchestes theuerkaufi</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic
148	<i>Raorchestes thodai</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic
149	<i>Raorchestes tinniens</i> (Jerdon, 1853)	Endemic
150	<i>Raorchestes travancoricus</i> (Boulenger, 1891)	Endemic
151	<i>Raorchestes tubero humerus</i> (Kuramoto and Joshy, 2003)	Endemic
152	<i>Raorchestes uthamani</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011	Endemic

Sl. No.	Description of Species	Status
153	<i>Rhacophorus calcadensis</i> Ahl, 1927	Endemic
154	<i>Rhacophorus lateralis</i> Boulenger, 1883	Endemic
155	<i>Rhacophorus malabaricus</i> Jerdon, 1870	Endemic
156	<i>Rhacophorus pseudomalabaricus</i> Vasudevan and Dutta, 2000	Endemic
<b>Family: INDOTYPHLIIDAE</b>		
157	<i>Gegeneophis carnosus</i> (Beddome, 1870)	Endemic
158	<i>Gegeneophis danieli</i> Giri, Wilkinson and Gower, 2003	Endemic
159	<i>Gegeneophis goaensis</i> Bhatta, Dinesh, Prashanth and Kulkarni, 2007	Endemic
160	<i>Gegeneophis krishni</i> Pillai and Ravichandran, 1999	Endemic
161	<i>Gegeneophis madhavai</i> Bhatta and Srinivasa, 2004	Endemic
162	<i>Gegeneophis mhadeiensis</i> Bhatta, Dinesh, Prashanth and Kulkarni, 2007	Endemic
163	<i>Gegeneophis nadkarnii</i> Bhatta and Prashanth, 2004	Endemic

Sl. No.	Description of Species	Status
164	<i>Gegeneophis pareshi</i> Giri, Gower, Gaikwad and Wilkinson, 2011	Endemic
165	<i>Gegeneophis ramaswamii</i> Taylor, 1964	Endemic
166	<i>Gegeneophis seshachari</i> Ravichandran, Gower and Wilkinson, 2003	Endemic
167	<i>Indotyphlus battersbyi</i> Taylor, 1960	Endemic
168	<i>Indotyphlus maharashtraensis</i> Giri, Gower and Wilkinson, 2004	Endemic
<b>Family: ICHTHYOPHIIDAE</b>		
169	<i>Ichthyophis beddomei</i> Peters 1879	Endemic
170	<i>Ichthyophis bombayensis</i> Taylor, 1960	Endemic
171	<i>Ichthyophis davidi</i> Bhatta, Dinesh, Prashanth, Kulkarni and Radhakrishan, 2011	Endemic
172	<i>Ichthyophis kodaguensis</i> Wilkinson, Gower, Govindappa and Venkatachalaiah, 2007	Endemic
173	<i>Ichthyophis longicephalus</i> Pillai, 1986	Endemic

Sl. No.	Description of Species	Status
174	<i>Ichthyophis tricolor</i> Annandale, 1909	Endemic
175	<i>Uraeotyphlus gansi</i> Gower, Rajendran, Nassbaum and Wilkinson, 2008	Endemic
176	<i>Uraeotyphlus interruptus</i> Pillai and Ravichandran, 1999	Endemic
177	<i>Uraeotyphlus malabaricus</i> (Beddome, 1870)	Endemic
178	<i>Uraeotyphlus menoni</i> Annandale, 1913	Endemic
179	<i>Uraeotyphlus narayani</i> Seshachar, 1939	Endemic
180	<i>Uraeotyphlus oommeni</i> Gower and Wilkinson, 2007	Endemic
181	<i>Uraeotyphlus oxyurus</i> (Dumeril and Bibron, 1841)	Endemic

## Species Descriptions

### Adult size

Very small: less than 25 mm SVL



Small: 25 to 50 mm SVL



Medium: 50 to 80 mm SVL



Large: more than 80 mm SVL



**IUCN Criteria: As on 05 October, 2011.**

<div style="display: flex; justify-content: space-around;"> <span>CR</span> <span>EN</span> <span>VU</span> <span>NT</span> <span>LC</span> <span style="background-color: #666; color: white; border-radius: 50%; padding: 2px;">DD</span> </div>	Data Deficient
<div style="display: flex; justify-content: space-around;"> <span>CR</span> <span>EN</span> <span>VU</span> <span>NT</span> <span style="background-color: #6aa84f; color: white; border-radius: 50%; padding: 2px;">LC</span> <span>DD</span> </div>	Least concerned
<div style="display: flex; justify-content: space-around;"> <span>CR</span> <span>EN</span> <span>VU</span> <span style="background-color: #2e8b57; color: white; border-radius: 50%; padding: 2px;">NT</span> <span>LC</span> <span>DD</span> </div>	Near Threatened
<div style="display: flex; justify-content: space-around;"> <span>CR</span> <span>EN</span> <span style="background-color: #c4a000; color: white; border-radius: 50%; padding: 2px;">VU</span> <span>NT</span> <span>LC</span> <span>DD</span> </div>	Vulnerable
<div style="display: flex; justify-content: space-around;"> <span>CR</span> <span style="background-color: #e67e22; color: white; border-radius: 50%; padding: 2px;">EN</span> <span>VU</span> <span>NT</span> <span>LC</span> <span>DD</span> </div>	Endangered
<div style="display: flex; justify-content: space-around;"> <span style="background-color: #c0392b; color: white; border-radius: 50%; padding: 2px;">CR</span> <span>EN</span> <span>VU</span> <span>NT</span> <span>LC</span> <span>DD</span> </div>	Critically Endangered

Family: BUFONIDAE

Genus : *Duttaphrynus*

IUCN Status

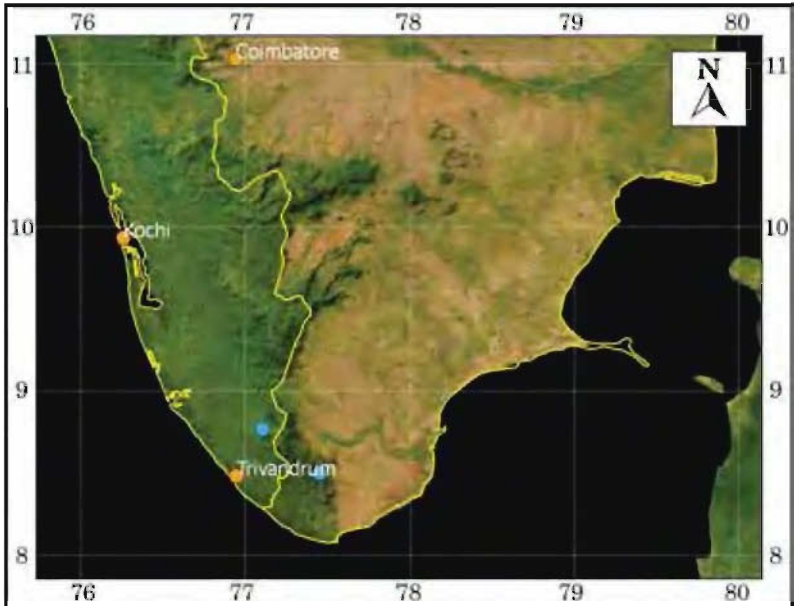
(CR) (EN) (VU) (NT) (LC) (DD)

### 1. *Duttaphrynus beddomii* Günther, 1876

**Description:** A medium sized frog, dorsum with brown indistinct black spots, limbs marbled with carmine colour.



**Distribution:** Kerala and Tamil Nadu part of the Western Ghats.

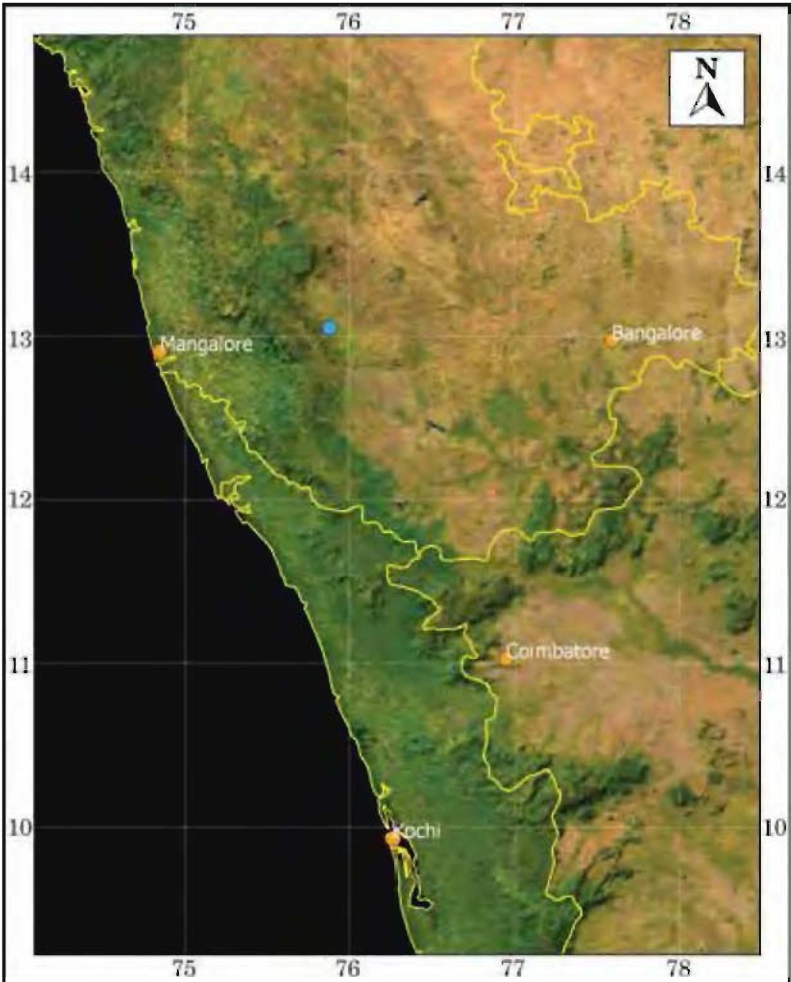


IUCN Status					
CR	EN	VU	NT	LC	DD

## 2. *Duttaphrynus brevirostris* Rao, 1937

**Description:** A small toad, dorsum brown with a network of dark lines, sides of the body lightly colour with marblings. Ventral surface dirty white with dark blotches.

**Distribution:** Karnataka part of Western Ghats.

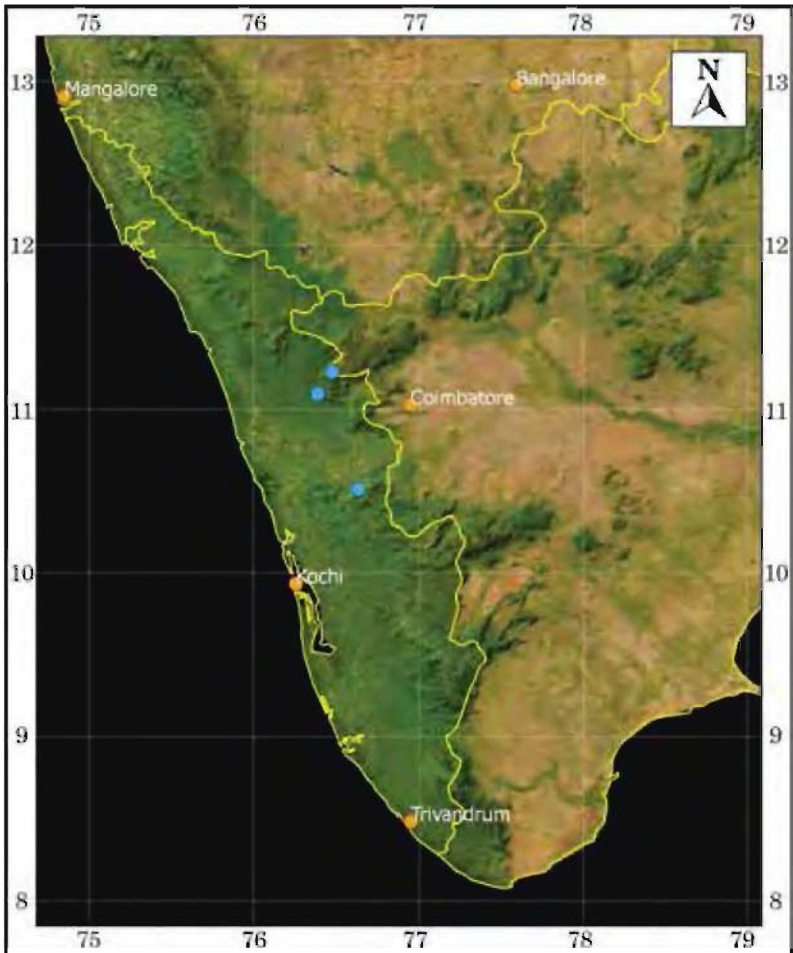


IUCN Status					
CR	EN	VU	NT	LC	DD

### 3. *Duttaphrynus silentvalleyensis* Pillai, 1981

**Description:** A large sized toad dorsum is uniformly brownish with white ventral colour. Flanks and dorsal parts of the limbs uniform without any markings.

**Distribution:** Silent Valley NP and Nelliampathi hills.



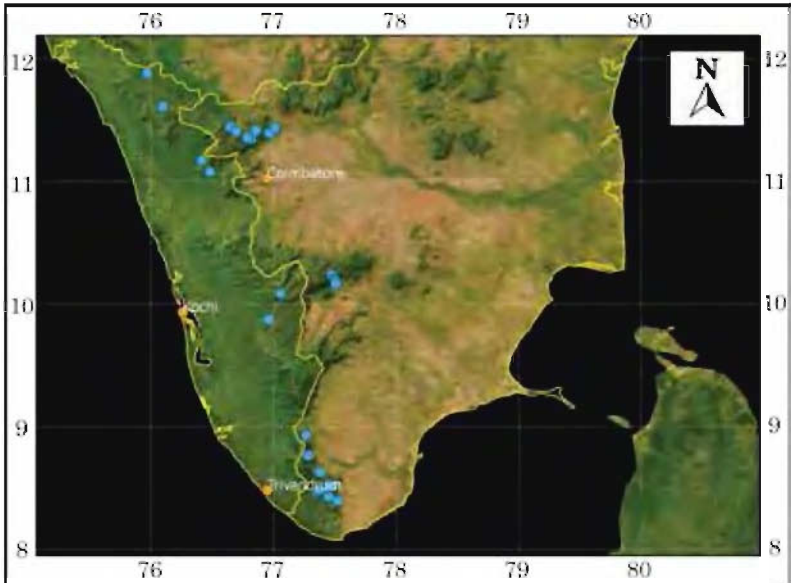
IUCN Status					
CR	EN	VU	NT	LC	DD

#### 4. *Duttaphrynus microtympanum* Boulenger, 1882

**Description:** A medium to large sized toad, dorsum brownish in colour and ventral surface yellowish. The species is characterized by very small indistinct tympanum.



**Distribution:** Kerala and Tamil Nadu part of Western Ghats.



Genus : *Ghatophryne*

IUCN Status

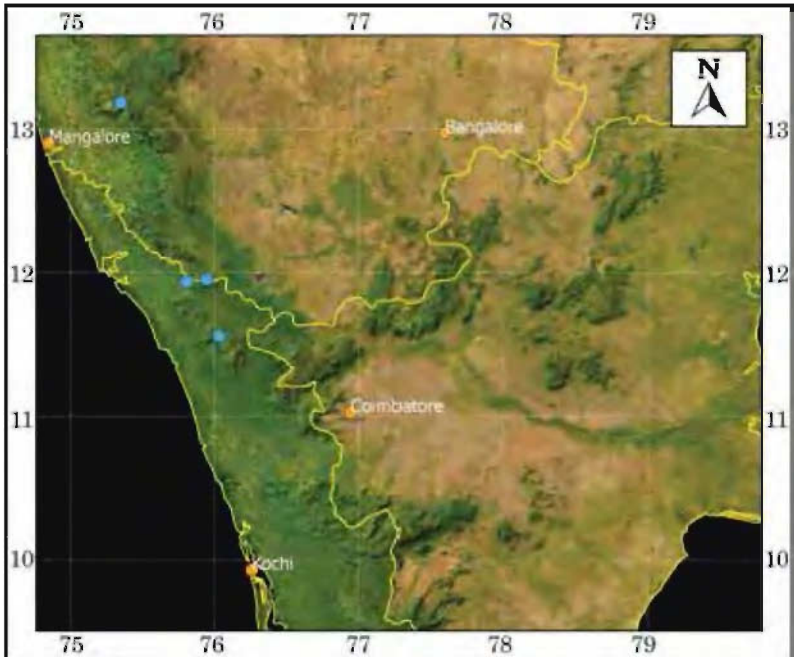
CR EN VU NT LC DD

### 5. *Ghatophryne ornata* Gunther, 1876

**Description:** A medium sized torrent toad. Dorsum black with grayish spots and patches on the head. Ventral surface black with bright yellowish spots. Head without any bony ridges, skin finely tuberculated.



**Distribution:** Karnataka and Kerala parts of Western Ghats.



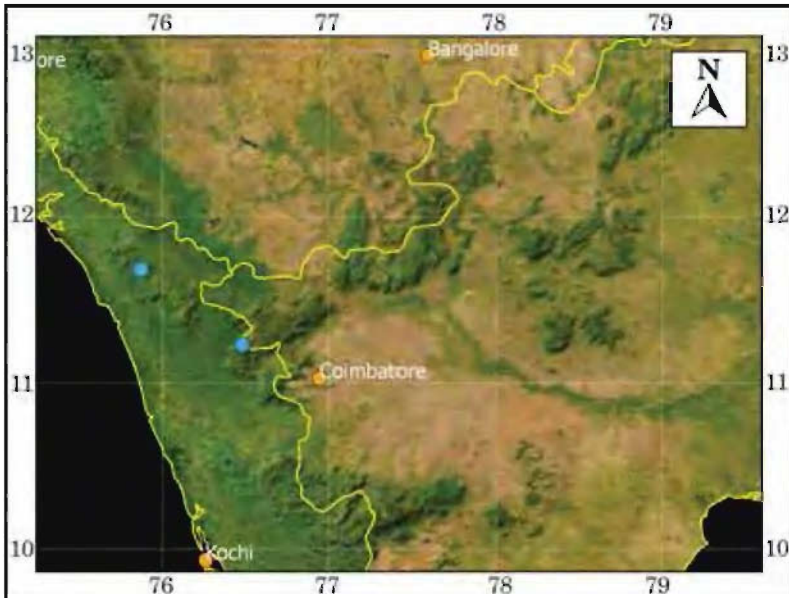
IUCN Status					
CR	EN	VU	NT	LC	DD

**6. *Ghatophryne rubigina***  
Pillai and Pattabiraman, 1981

**Description:** A medium sized bright reddish torrent toad. Dorsum blackish with brick red pigments, ventral surface brownish black, throat bright orange.



**Distribution:** Kerala part of Western Ghats.



Genus : *Pedostibes*

IUCN Status

CR EN VU NT LC DD

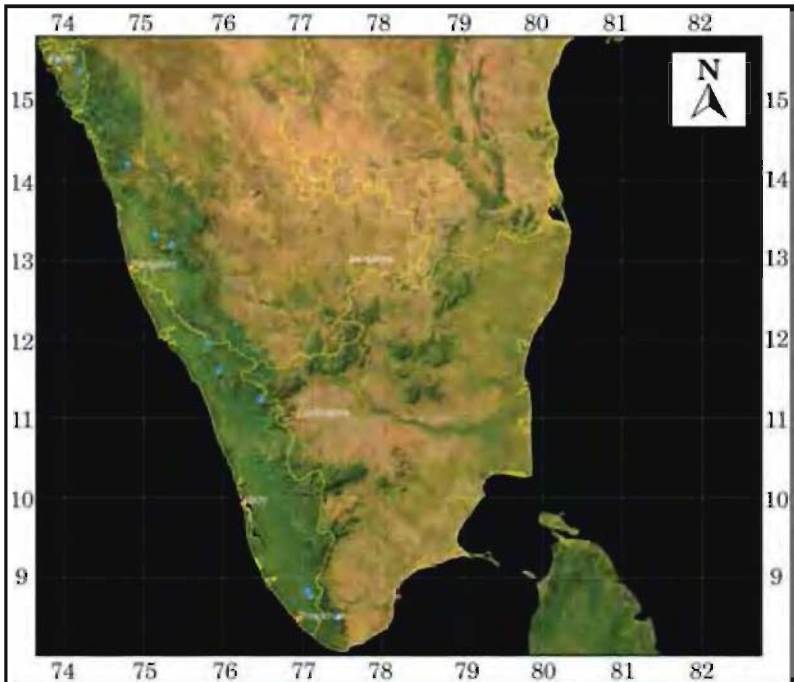
### 7. *Pedostibes tuberculosus* Gunther, 1875

#### **Description:**

A medium sized phytotelmatic toad with tips of toes and fingers dilated into truncated discs for arboreal life. Dorsum variegated brown with tubercles. Breeds in small forest streams.



**Distribution:** Maharashtra, Goa, Karnataka, Kerala and Tamil Nadu part of Western Ghats.



Genus : *Xanthophryne*

IUCN Status

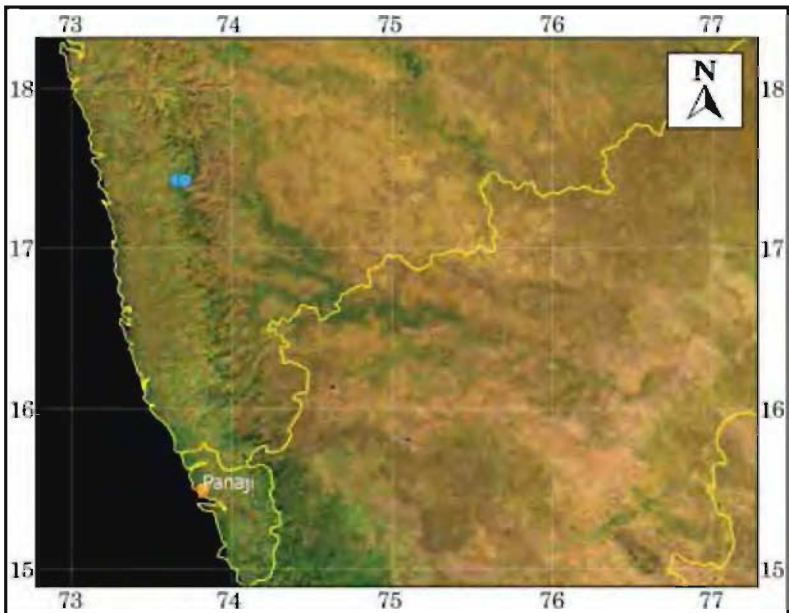
CR EN VU NT LC DD

### 8. *Xanthophryne koynayensis* Soman, 1963

**Description:** A medium sized toad, dorsal surface dominated by brown colour with a suffusion of chrome yellow. Sides of the body with yellow patches.



**Distribution:** Koyna, Maharashtra.



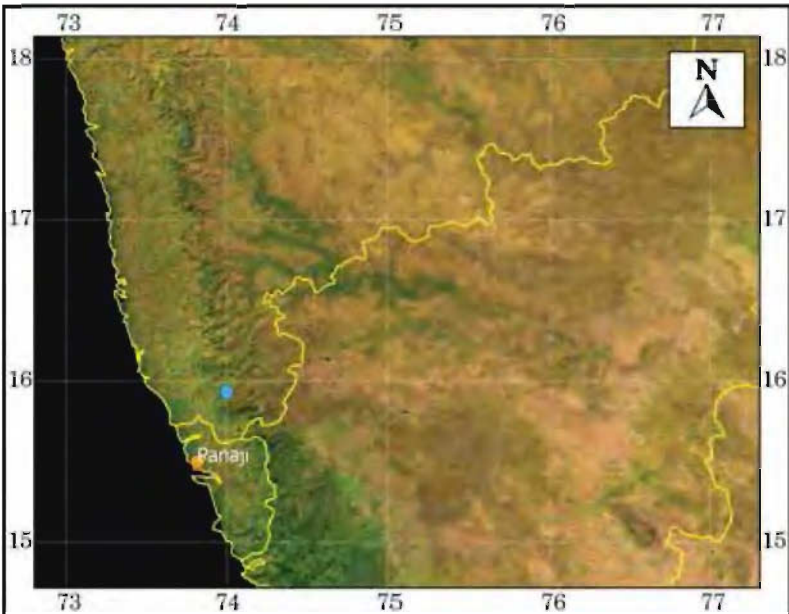
IUCN Status					
CR	EN	VU	NT	LC	DD

9. *Xanthophryne tigrinus* Biju, Van Bocxlaer, Giri, Loader, and Bossuyt, 2009

**Description:** A medium sized toad with dominant brown dorsum, black and yellow stripes on lateral and dorsal sides of the body. No webbing between fingers and toes.



**Distribution:** Amboli, Maharashtra.



Family: DICROGLOSSIDAE

Genus : *Euphlyctis*

IUCN Status

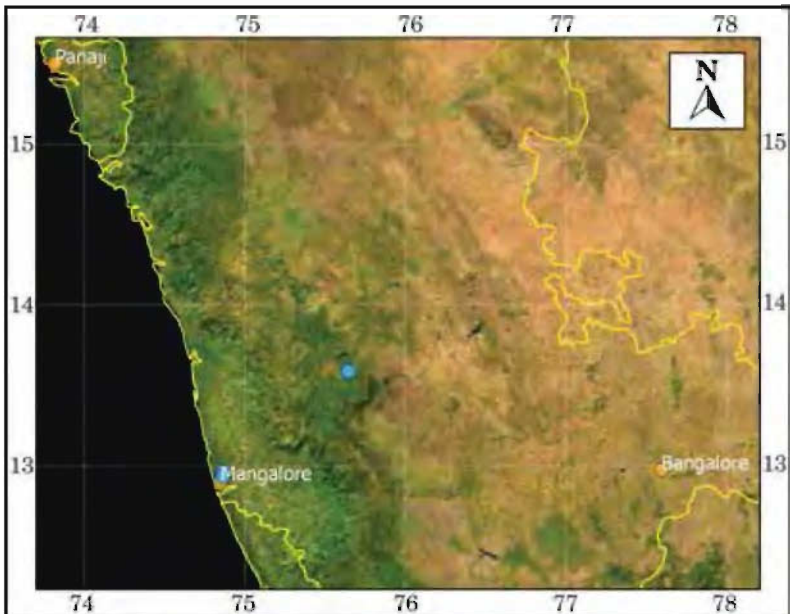


10. *Euphlyctis aloysii* Joshy, Alam,  
Kurabayashi, Sumida and Kuramoto, 2009

**Description:** A medium sized frog, dorsum with brown indistinct black spots, limbs marbled with carmine colour.



**Distribution:** Kerala and Tamil Nadu part of the Western Ghats.



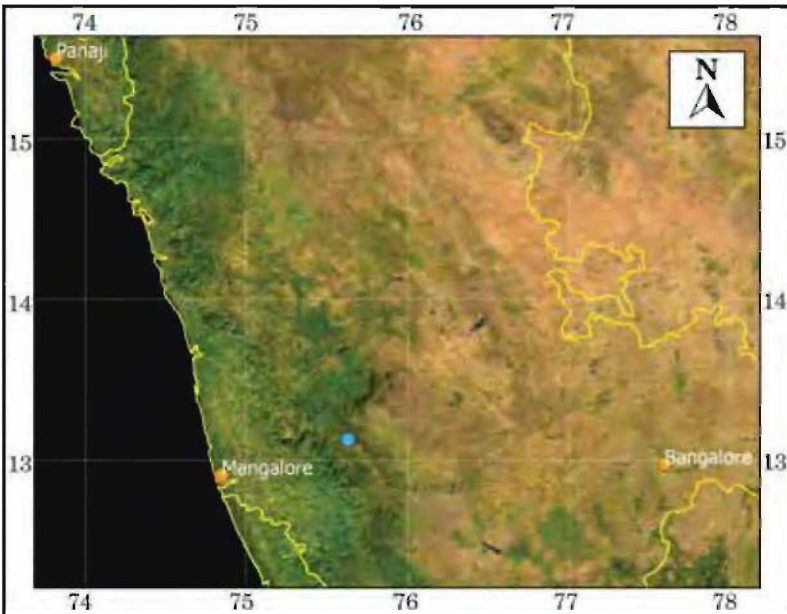
IUCN Status					
CR	EN	VU	NT	LC	DD

11. *Euphlyctis mudigere* Joshy, Alam, Kurabayashi, Sumida and Kuramoto, 2009

**Description:** Medium to large sized skittering frog, dorsum dark brown with indistinct small patches. Irregular markings on the upper side of hindlimb; a conspicuous white band on posterior side of thigh, accompanied with a thin black stripe on ventro-posterior side.



**Distribution:** Karnataka part of Western Ghats.



Genus : *Fejervarya*

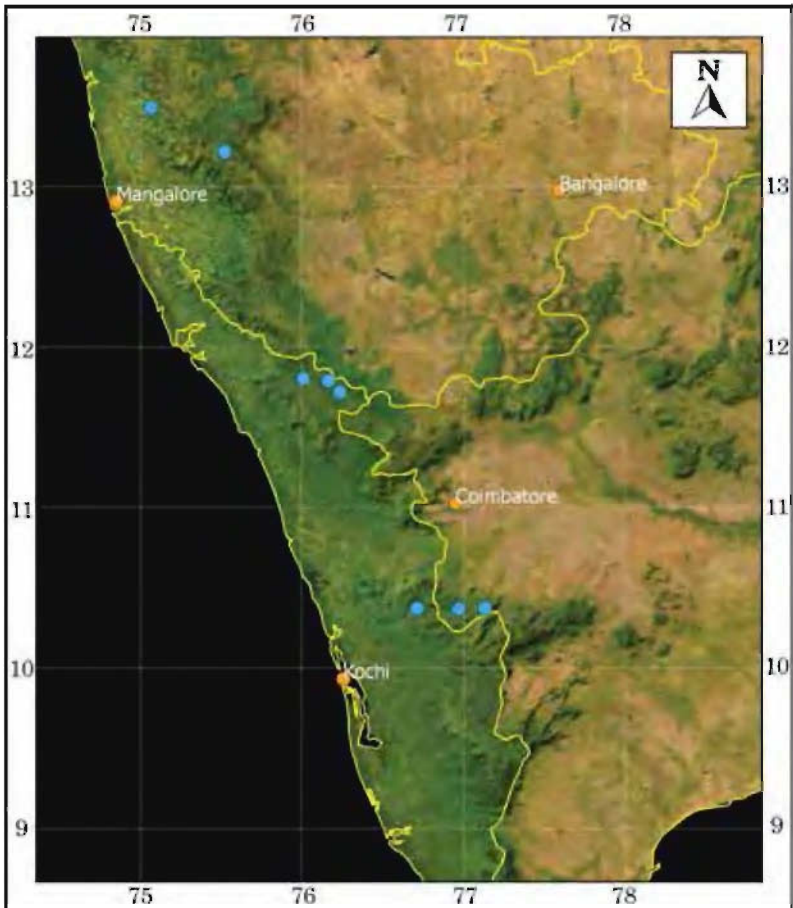
IUCN Status



## 12. *Fejervarya brevipalmata* (Peters, 1871)

**Description:** A medium sized fejerveryan frog; dorsal surface is reddish brown with blackish dots and a yellowish vertebral band. Toes webbed.

**Distribution:** Karnataka, Kerala and Tamil Nadu part of Western Ghats.



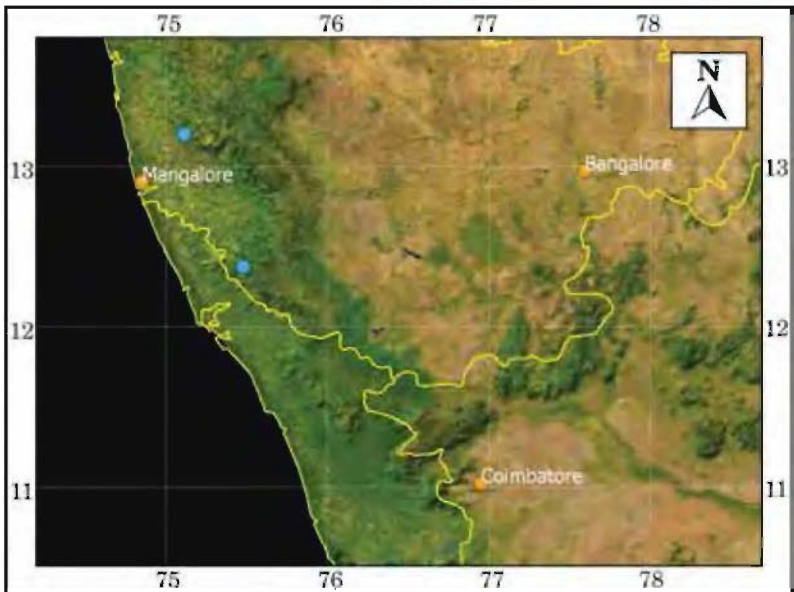
IUCN Status					
CR	EN	VU	NT	LC	DD

13. *Fejervarya caperata* Kuramoto, Joshy, Kurabayashi and Sumida, 2007

**Description:** A small species of fejevryan frog. Snout and upper eyelid smooth; dorsum with many longitudinal ridges roughly forming four longitudinal series, mid-dorsal stripe present. This is a cryptic species of the earlier *F. limnocharis* species group in Western Ghats.



**Distribution:** Karnataka part of Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

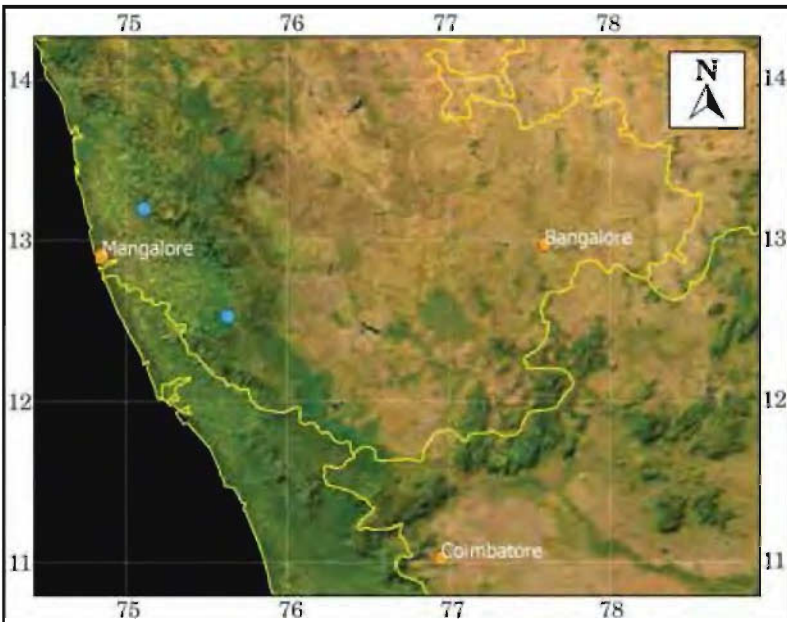
14. *Fejervarya granosa* Kuramoto, Joshy, Kurabayashi and Sumida, 2007

**Description:**

A small species of fejevryan frog, dorsum with large rounded or elliptical ridges interrupted inverse V-shaped ridge on the middle of dorsum at the level of forelimb. This is a cryptic species of the earlier *F. limnocharis* species group in Western Ghats.



**Distribution:** Karnataka part of Western Ghats.



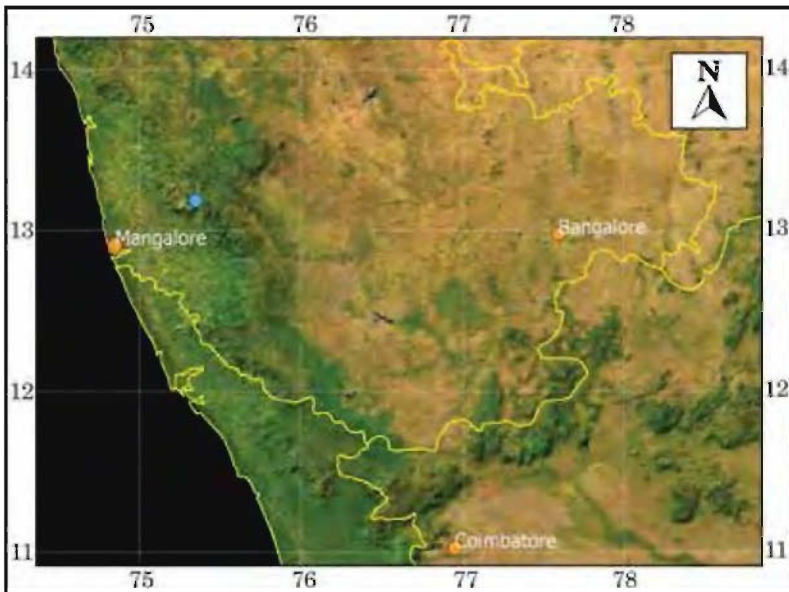
IUCN Status					
CR	EN	VU	NT	LC	DD

15. *Fejervarya kudremukhensis* Kuramoto,  
 Joshy, Kurabayashi and Sumida, 2007

**Description:** A large fejervaryan frog with few and small dermal ridges on the dorsum, webbing half. This is a cryptic species of the earlier *F. limnocharis* species group in Western Ghats.



**Distribution:** Karnataka part of Western Ghats.



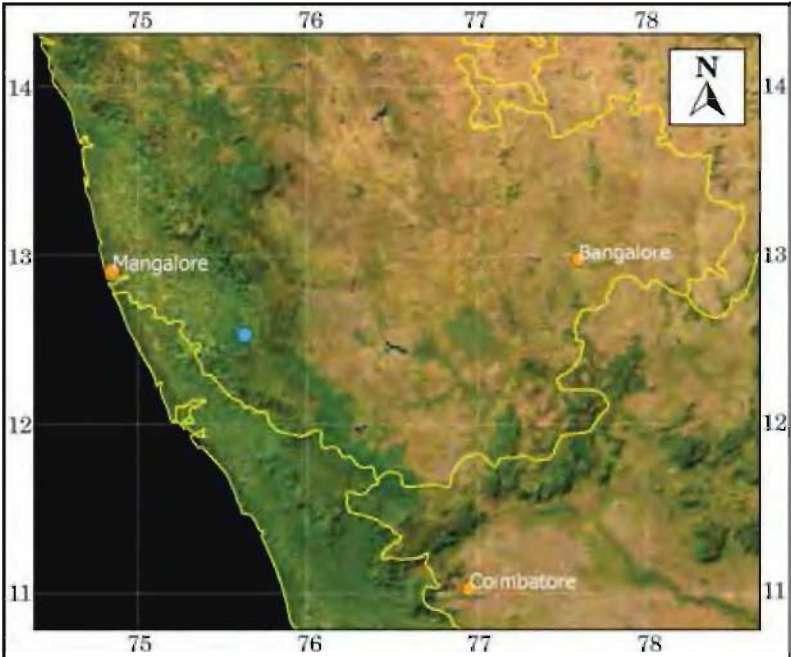
IUCN Status					
CR	EN	VU	NT	LC	DD

16. *Fejervarya mudduraja* Kuramoto, Joshy, Kurabayashi and Sumida, 2007

**Description:** A large sized fejervarya with relatively long longitudinal ridges that tend to arrange in to four rows on the dorsum. This is a cryptic species of the earlier *F. limnocharis* species group in Western Ghats.



**Distribution:** Karnataka part of Western Ghats.



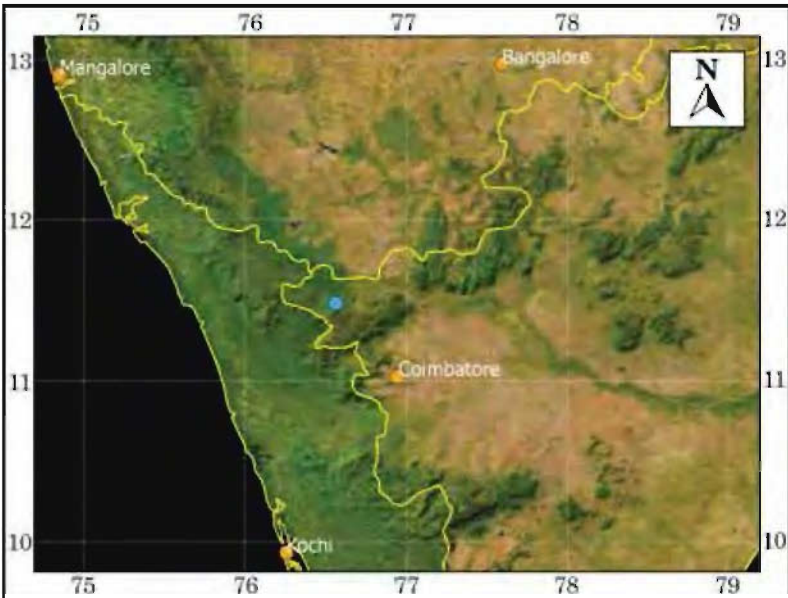


17. *Fejervarya murthii* (Pillai, 1979)

**Description:** A small sized fejevryan frog, dorsal skin tough with moderate glandular tubercles. Closely related to *Fejervarya brevipalmata* and earlier *F. limnocharis* species group.



**Distribution :** Tamil Nadu part of Western Ghats.

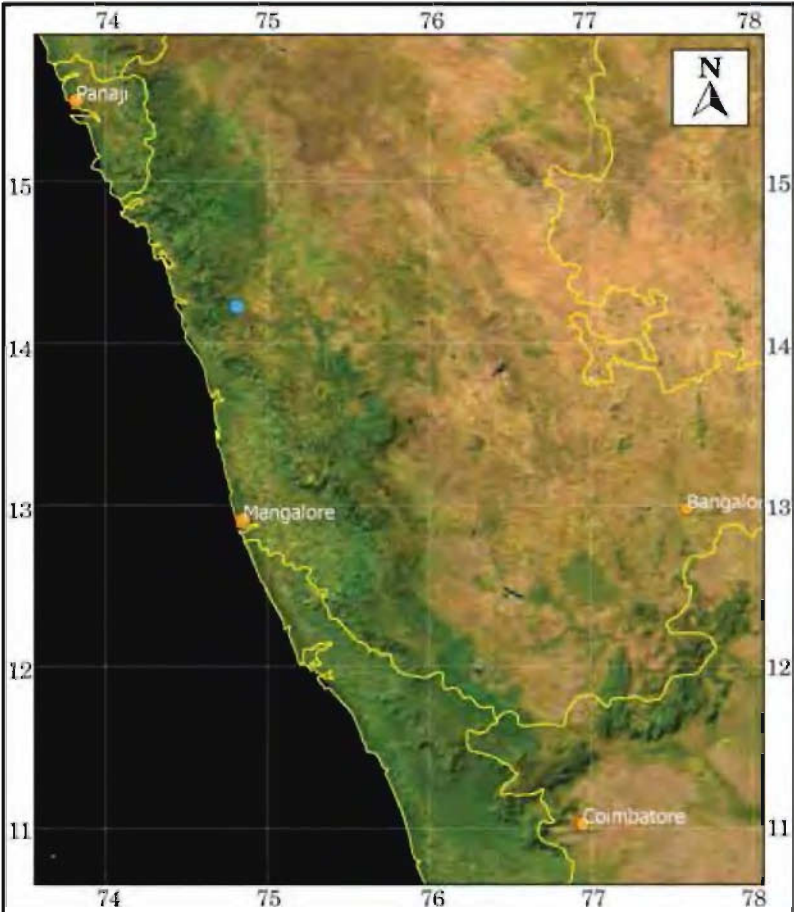


IUCN Status					
CR	EN	VU	NT	LC	DD

### 18. *Fejervarya mysorensis* (Rao, 1922)

**Description:** A medium sized fejervaryan frog, dorsum olive brown or a green with a distinct narrow or broad yellow vertebral band; the upper surface is blotched; a V shaped dark band between the eyes; abdomen is yellow. Throat and chest beautifully marbled or powdered black.

**Distribution :** Karnataka part of Western Ghats.



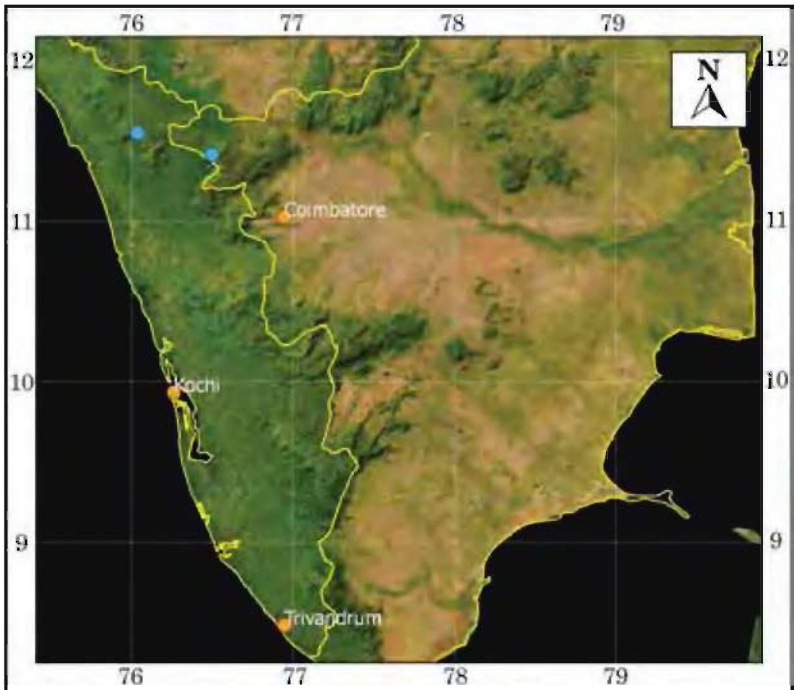
IUCN Status					
CR	EN	VU	NT	LC	DD

19. *Fejervarya nilagirica* (Jerdon, 1853)

**Description:** A medium to large sized slender frog found in forest patches of Western Ghats. Third toe in this frog is long when compared to other related species.



**Distribution:** Kerala and Tamil Nadu part of Western Ghats.



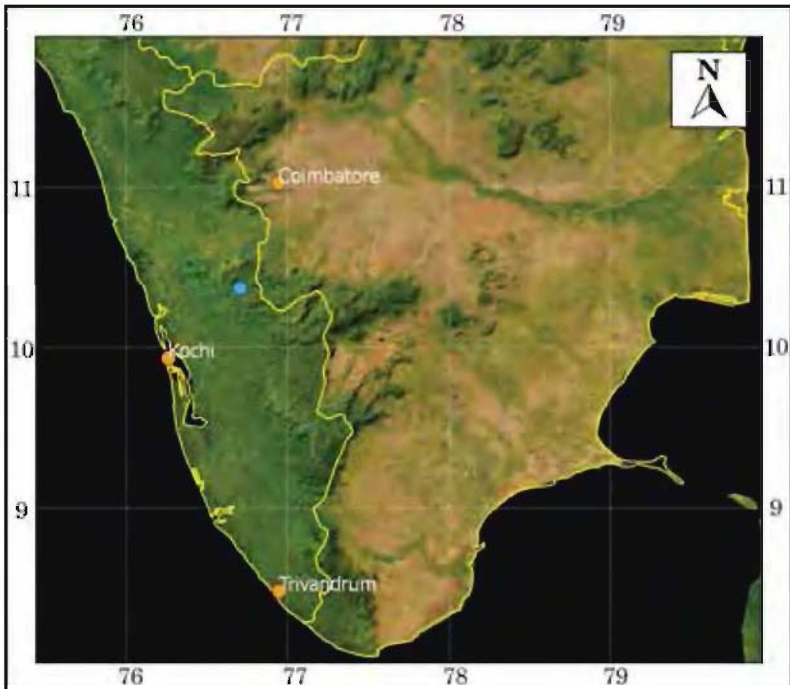
IUCN Status					
CR	EN	VU	NT	LC	DD

20. *Fejervarya parambukulamana*  
(Rao, 1937)

**Description :** A medium to large sized fejerveryan frog, dorsum yellowish brown with a light vertebral band, sides and ventral surface of the body white with crossed forearm and hind arm.



**Distribution:** Kerala part of Western Ghats.



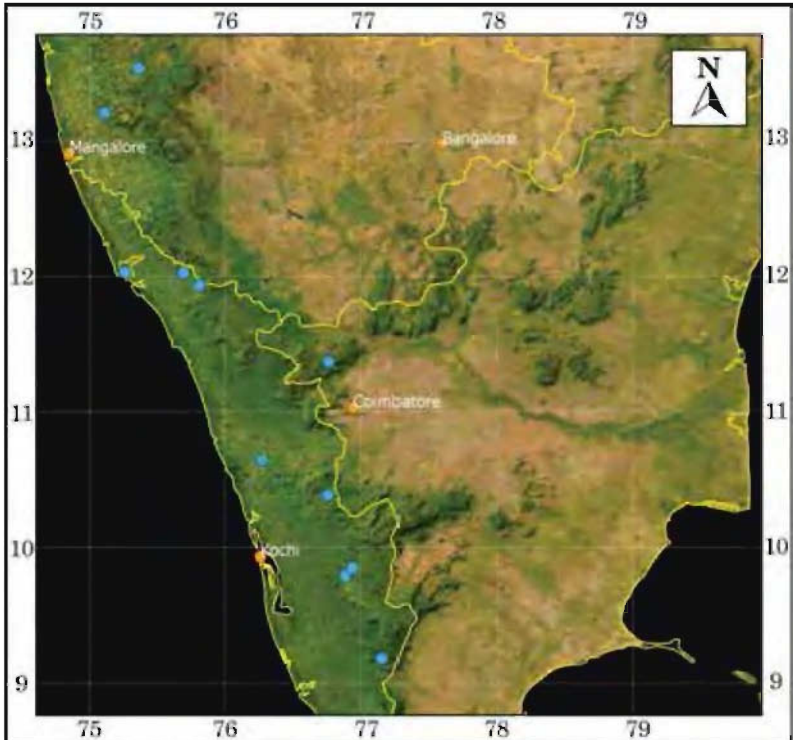
IUCN Status					
CR	EN	VU	NT	LC	DD

## 21. *Fejervarya rufescens* (Jerdon, 1853)

**Description:** A medium sized fejervaryan frog, skin with numerous warts above and two glandular ridges forming an inverted open 'V' between the shoulders. Brown above with patches of varying shades of red and brick red.



**Distribution:** Karnataka and Kerala part of Western Ghats.

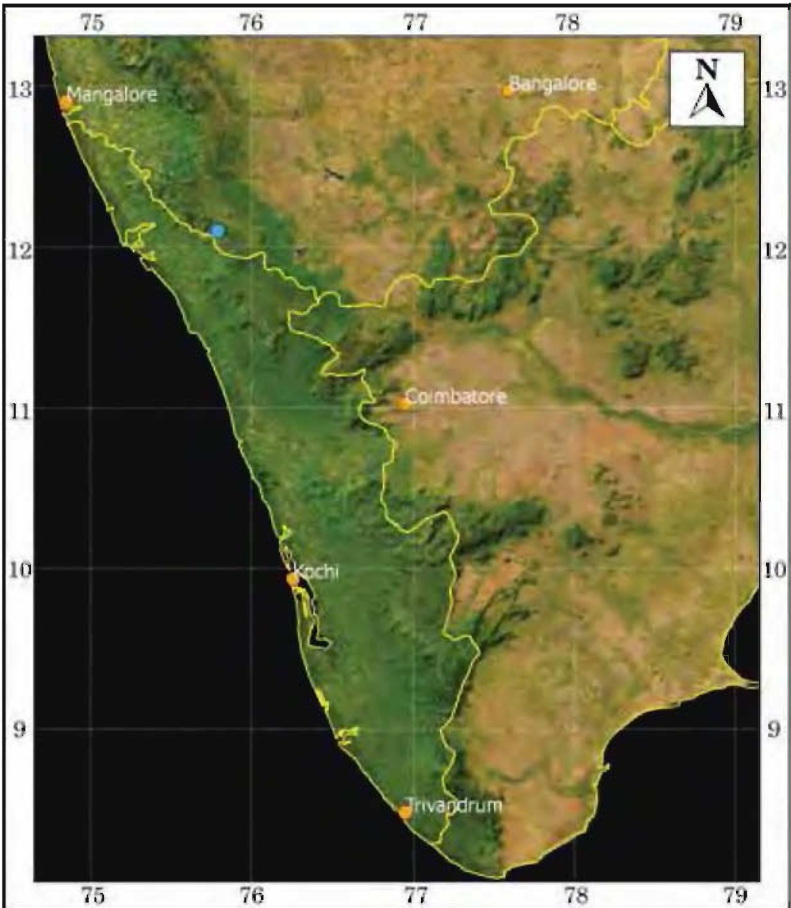


IUCN Status					
CR	EN	VU	NT	LC	DD

## 22. *Fejervarya sauriceps* (Rao, 1937)

**Description:** A small to medium sized fejevryan frog, dorsal surface chocolate red with darker sides, throat and chest yellowish, abdomen brown and underside of thighs orange.

**Distribution:** Karnataka part of Western Ghats.



Genus : *Minervarya*

IUCN Status

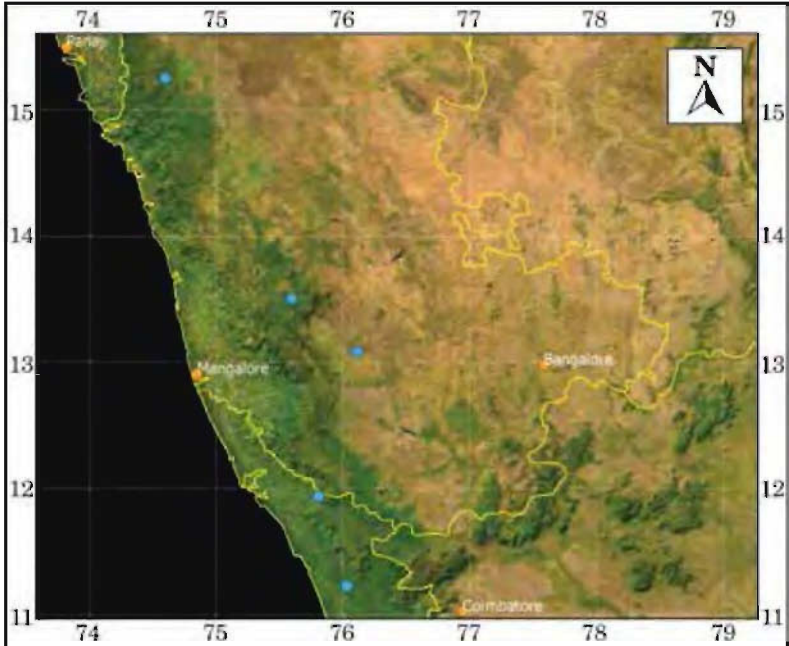
CR EN VU NT LC DD

23. *Minervarya sahyadris*  
(Dubois, Ohler and Biju, 2001)

**Description:** A small frog with fejeveryan lines on the belly and rectal glands the mouth commissure. Dorsal skin with small longitudinal folds; sides of head brownish, darker in tympanic region; mid dorsum brown to brick red; upper arm brick red; upper lip white colored; venter yellowish white.



**Distribution:** Karnataka and Kerala part of Western Ghats.



Genus: *Sphaerotheca*

IUCN Status

CR EN VU NT LC DD

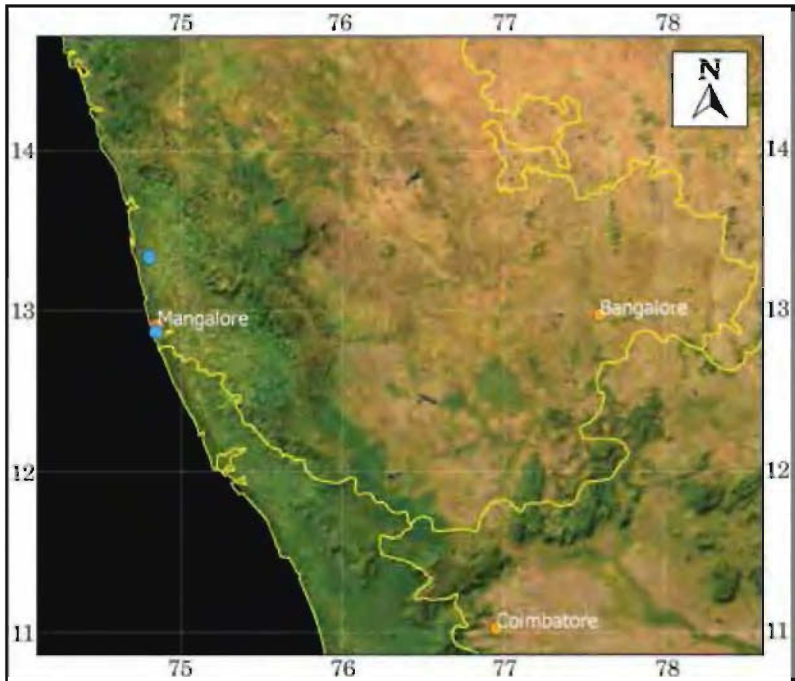
#### 24. *Sphaerotheca dobsoni* (Boulenger, 1882)

**Description:**

A medium sized burrowing frog, dorsum gray, indistinctly marbled with brown and ventrally yellowish. Toes moderately long and webbed at the base, a shovel shaped inner metatarsal tubercle absent.



**Distribution:** Maharashtra and Karnataka part of Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

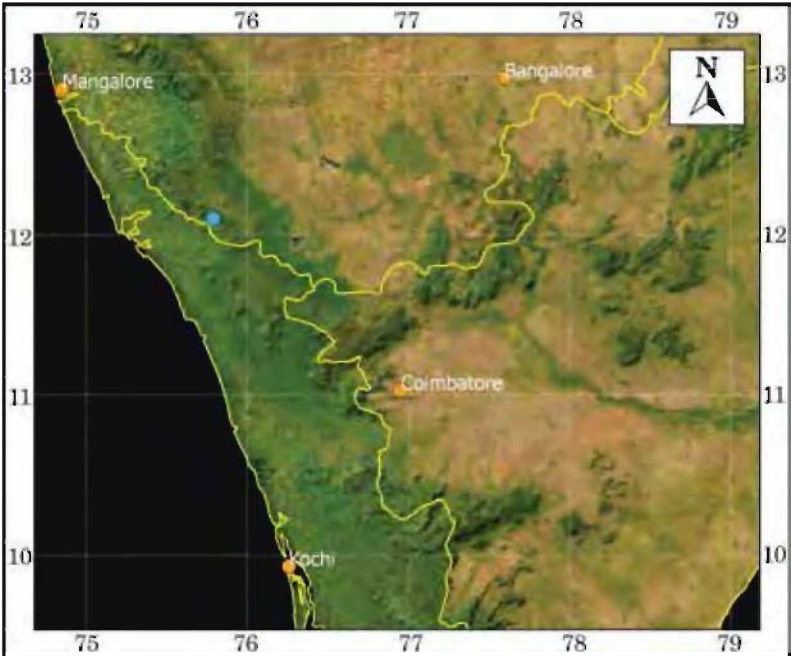
## 25. *Sphaerotheca leucorhynchus* (Rao, 1937)

### Description:

A medium sized borrowing frog, dorsum pale brown, dorsal skin smooth, upper surface of the snout and the anterior third of the eyelid having a distinct broad white band. Thighs yellowish, ventrally.



**Distribution :** Karnataka part of Western Ghats.



Family : MICRIXALIDAE

Genus : *Micrixalus*

IUCN Status

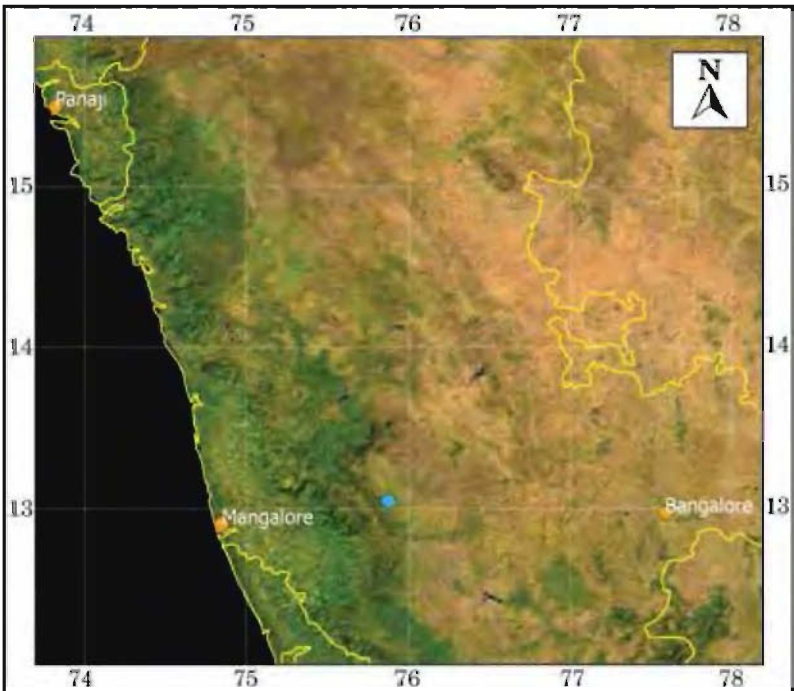
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## 26. *Micrixalus elegans* (Rao, 1937)

**Description :** A small sized torrent frog, dorsum crimson, ventrum yellowish colour. Dorsal and ventral surface smooth. Lateral region up to the posterior border of the eyes black. Upper jaw whitish, lower jaw with a number of black spots.



**Distribution :** Karnataka part of the Western Ghats.



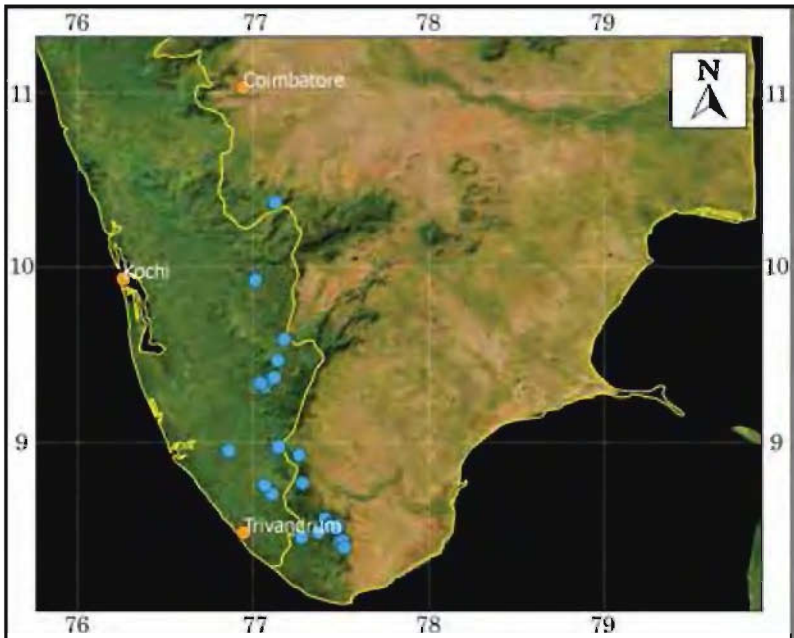
IUCN Status					
CR	EN	VU	NT	LC	DD

## 27. *Micrixalus fuscus* (Boulenger, 1882)

**Description :** A small sized torrent frog, skin smooth above and beneath; a narrow glandular lateral fold and a fold from the eye to the shoulder present. Brown or pinkish above; whitish beneath, marbled with brown. Hinder side of thighs dark brown, with a more or less accentuated light median stripe.



**Distribution :** Karnataka, Kerala and Tamil Nadu part of the Western Ghats.



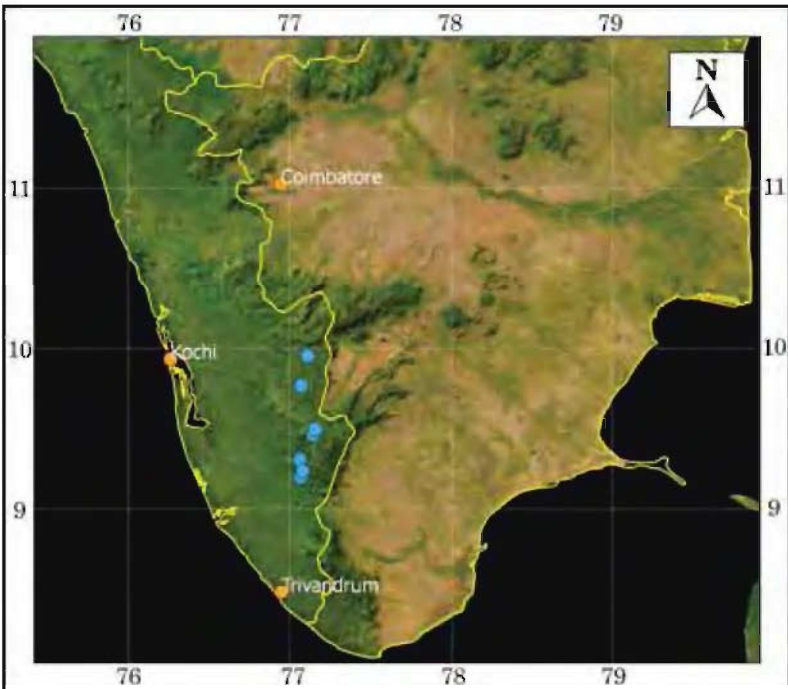
IUCN Status					
CR	EN	VU	NT	LC	DD

28. *Micrixalus gadgili*  
Pillai and Pattabiraman, 1990

**Description:** A small sized torrent frog, dorsum light grayish with irregular markings, ventrally throat marbled with sepia. A dark band on either side of the eyes to groin.



**Distribution :** Kerala part of the Western Ghats.



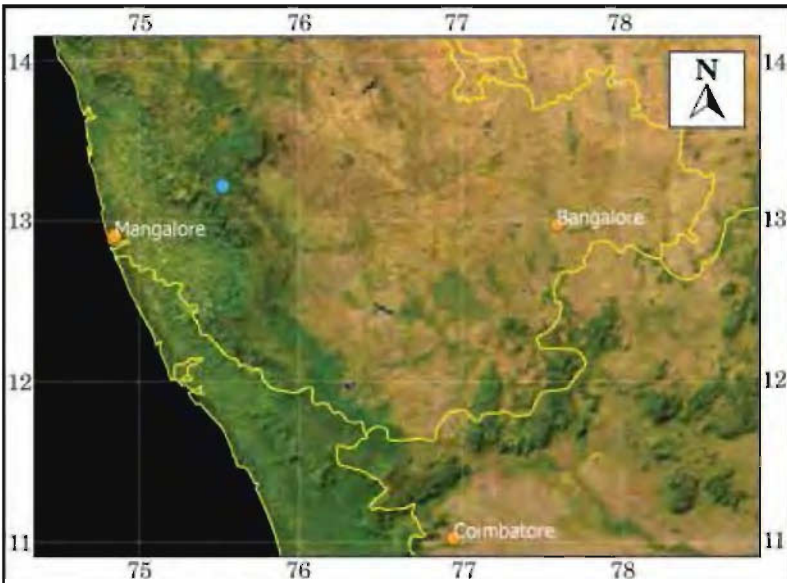
IUCN Status					
CR	EN	VU	NT	LC	DD

29. *Micrixalus kottigeharensis* (Rao, 1937)

**Description :** A medium sized torrent frog, dorsum deep bronze, ventrum smooth. Sides of the head, body and limbs banded by deeper brown strips. Undersurface of the thighs red. Dorsal surface minutely tuberculated.



**Distribution :** Karnataka part of the Western Ghats.

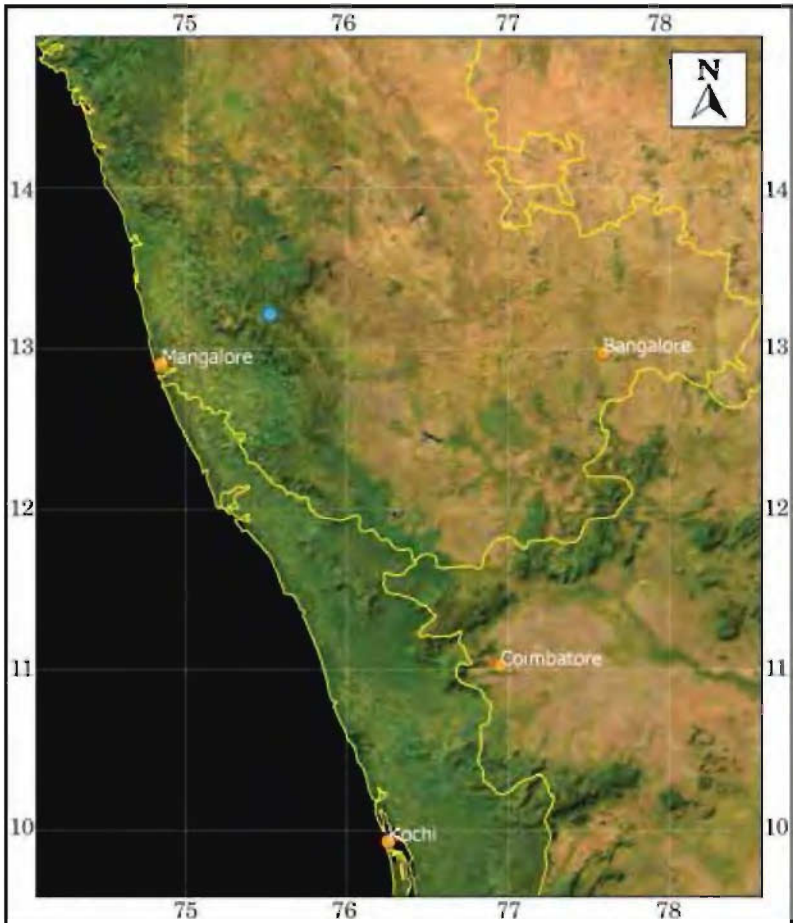


IUCN Status					
CR	EN	VU	NT	LC	DD

### 30. *Micrixalus narainensis* (Rao, 1937)

**Description :** A medium sized torrent frog, skin smooth, dorsum brownish, ventral side dirty white. A number of faint bands present on the anterior border of thighs as well as on the upper region of tibia.

**Distribution :** Karnataka part of the Western Ghats.



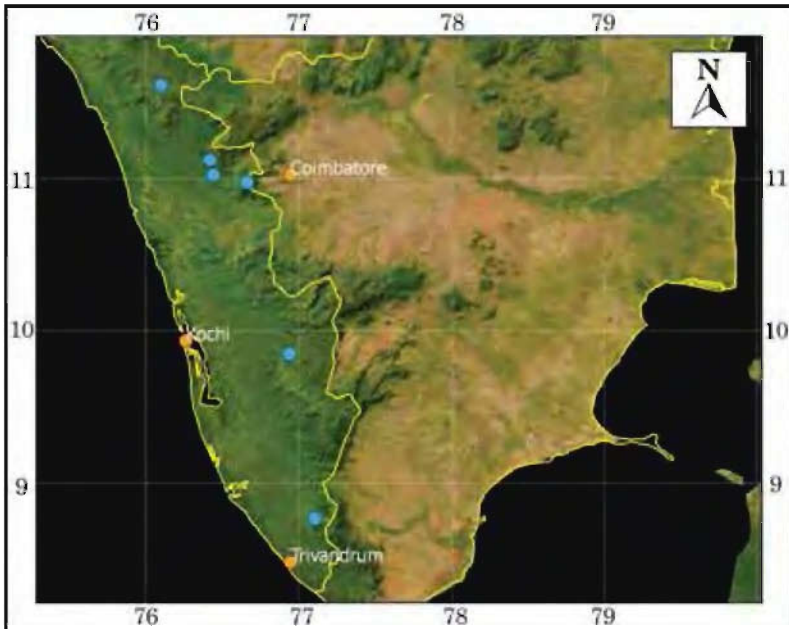
IUCN Status					
CR	EN	VU	NT	LC	DD

### 31. *Micrixalus nudis* Pillai, 1978

**Description :** A medium sized torrent frog, dorsal surface greyish brown to dark, ventrally throat and breast region mottled with brown. A chocolate brown band on either side of the eyes to flank. Arms cross barred with black patches.



**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

### 32. *Micrixalus phyllophilus* (Jerdon, 1853)

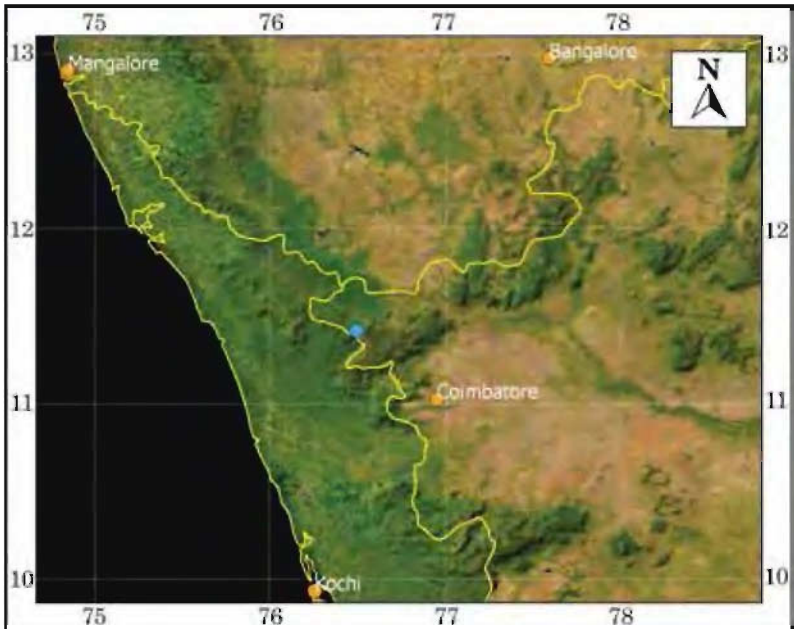
**Description :** A medium sized torrent frog, dorsum brown, ventral side yellow with a series of dark mottled markings which are dense over the throat. The lower surface of the hind limbs are rose colour, anal region black. A strong narrow glandular lateral fold and another cutaneous fold extending from the eye to shoulder.



© Anil Zachariah

A strong narrow glandular lateral fold and another cutaneous fold extending from the eye to shoulder.

**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



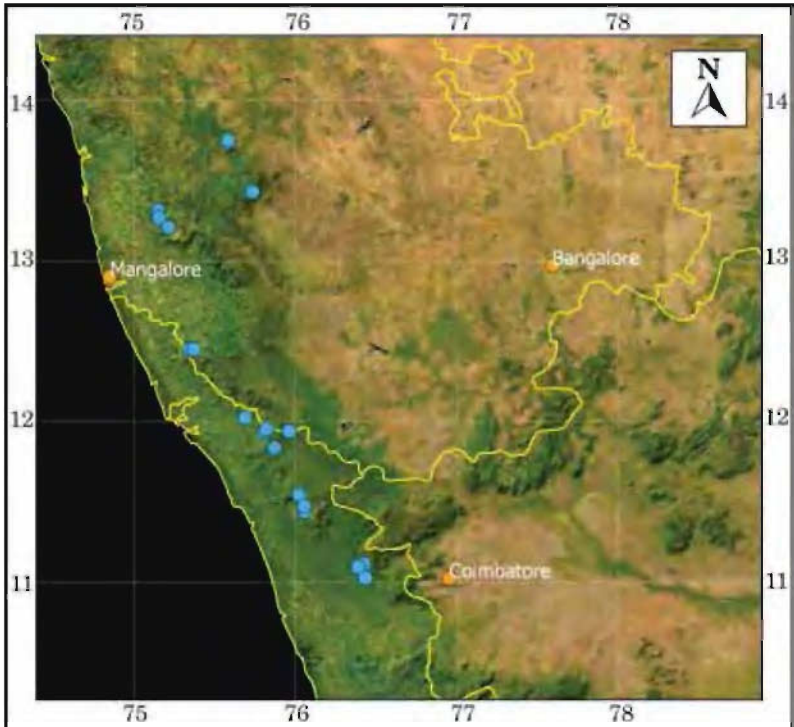
IUCN Status					
CR	EN	VU	NT	LC	DD

### 33. *Micrixalus saxicola* (Jerdon, 1853)

**Description :** A medium sized torrent frog. Skin smooth above, with more or less distinct darker reticulations; limbs with dark cross bands; throat and breast often marbled with brown.



**Distribution :** Karnataka and Kerala part of the Western Ghats.

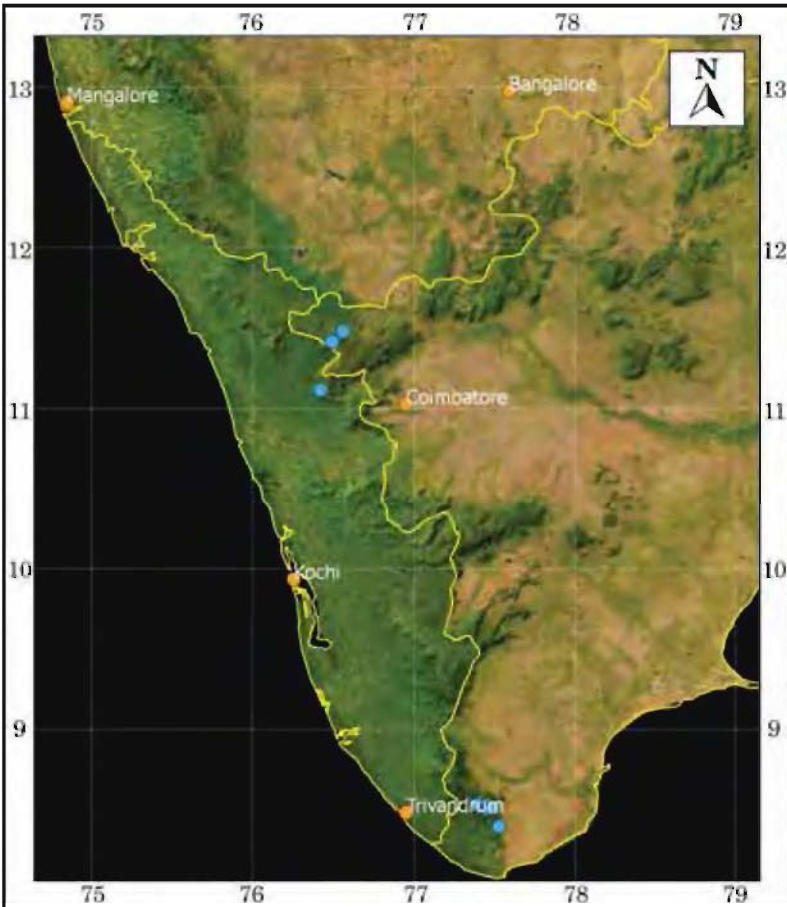


IUCN Status					
CR	EN	VU	NT	LC	DD

### 34. *Micrixalus silvaticus* (Boulenger, 1882)

**Description :** A medium sized torrent frog, dorsal surface of the body with brown faint darker markings with a chevron shaped mark between the eyes, ventrally chest and throat spotted with brown. Limbs cross barred.

**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.

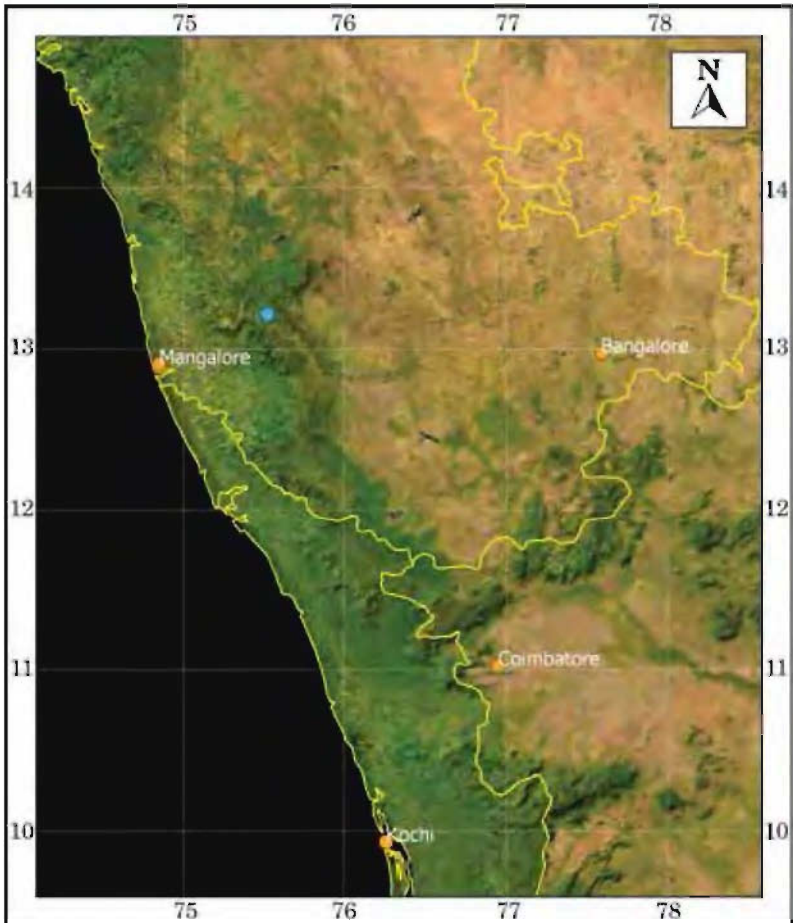


IUCN Status					
CR	EN	VU	NT	LC	DD

### 35. *Micrixalus swamianus* (Rao, 1937)

**Description :** A small sized torrent frog, skin smooth, dorsum deep bluish, ventral surface of the thighs pinkish. A Dorso-lateral fold extends from behind the posterior corner of the eyes to groin.

**Distribution :** Karnataka part of the Western Ghats.



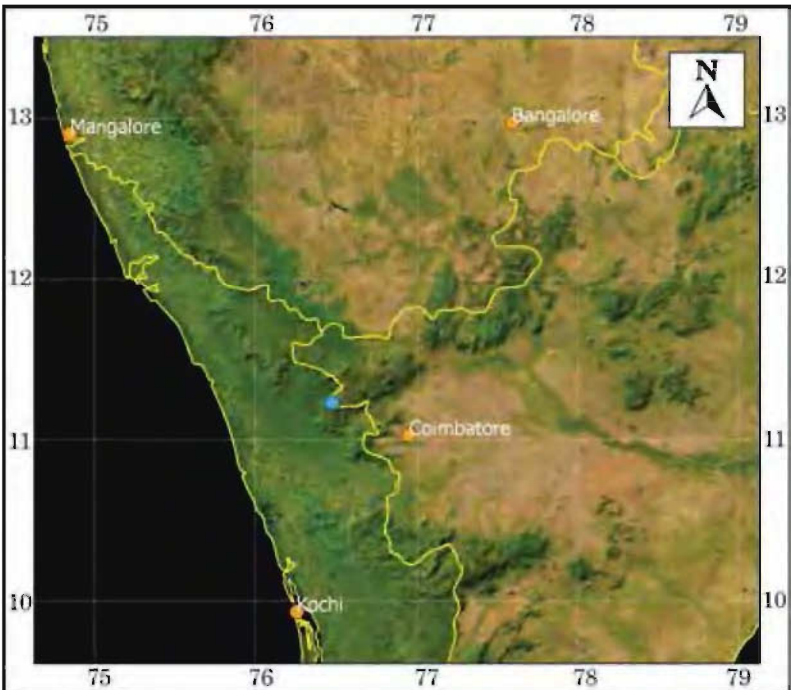
IUCN Status					
CR	EN	VU	NT	LC	DD

### 36. *Micrixalus thampii* Pillai, 1981

**Description :** A small sized torrent frog, skin smooth, dorsal surface grayish brown, ventrally white, chest and throat spotted with brown. An incomplete dorsolateral gland from shoulder to groin. Limbs cross barred.



**Distribution :** Kerala part of the Western Ghats.



Family: MICROHYLIDAE

Genus : *Melanobatrachus*

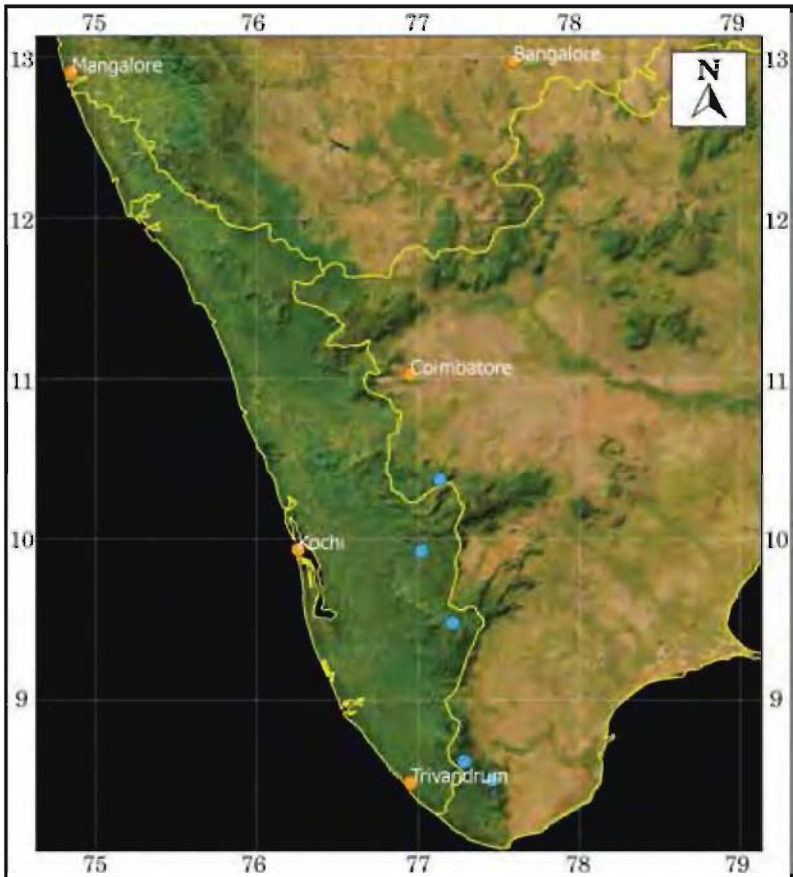
IUCN Status



### 37. *Melanobatrachus indicus* Beddome, 1878

**Description :** A medium sized black tubercled Indian Microhylid frog. Dorsally black in colour with tubercles. Thigh with a continuous or interrupted broad scarlet band near the groin. A few scarlet blotches present on the chest, between the forelegs and on the lower portion of hind legs.

**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



Genus : *Microhyla*

IUCN Status

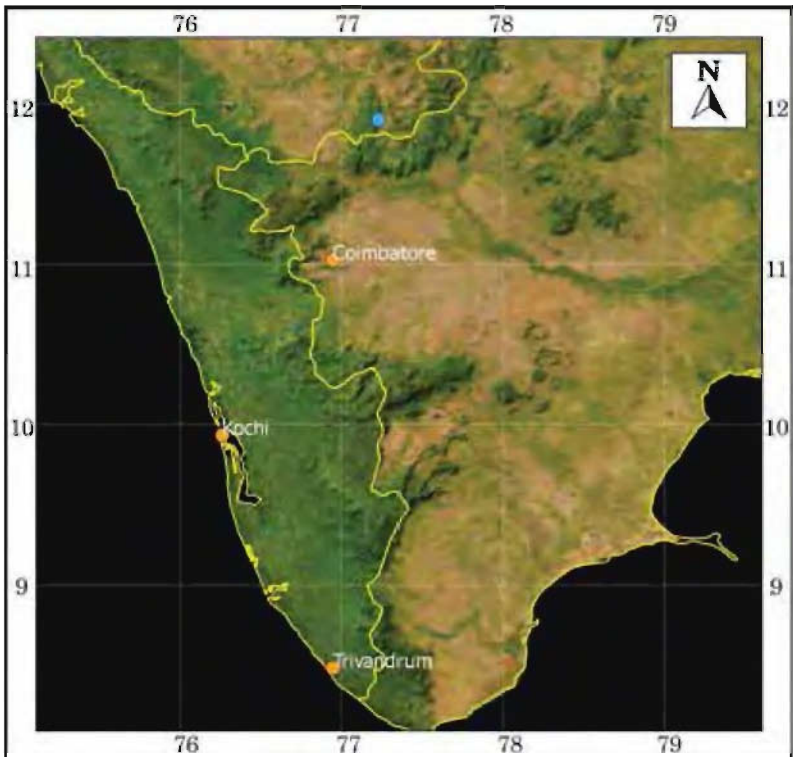
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38. *Microhyla sholigari* Dutta and Ray, 2000

**Description :** A small sized microhylid frog. A light brown mid dorsal marking starting between eyes widens at mid body, narrow on abdomen.



**Distribution :** Karnataka part of the Western Ghats.



Genus : *Ramanella*

IUCN Status

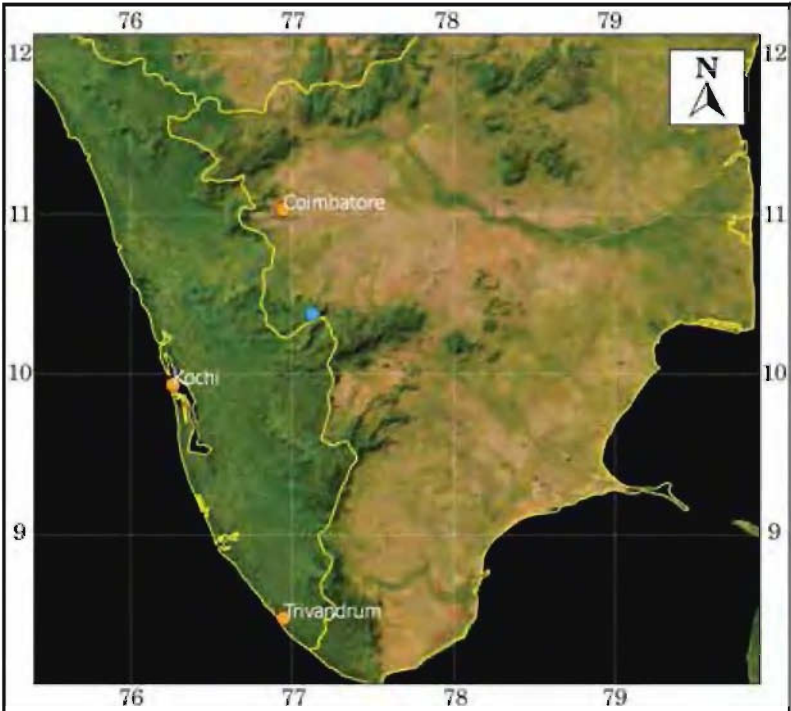
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### 39. *Ramanella anamalaiensis* Rao, 1937

**Description :** A small sized ramanella frog. Dorsally reddish brown to olive in colour with loreal and thigh region reddish brown. Forelimbs, thighs and shanks dorsally reddish brown, throat, abdomen and ventral surface smooth.



**Distribution :** Tamil Nadu part of the Western Ghats.



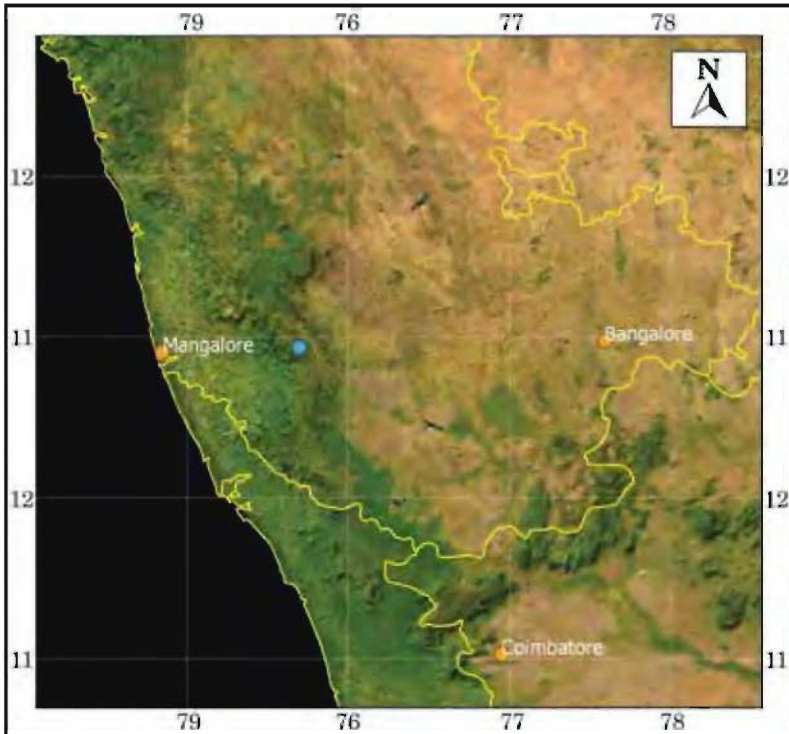
IUCN Status					
CR	EN	VU	NT	LC	DD

#### 40. *Ramanella minor* Rao, 1937

**Description :** A small sized *Ramanella* frog. Dorsum olive with a dark median band extending posterior to the inter orbital space. A dark spot present in between the eyes. Skin smooth, dorsum with dark olive band. Olive bands also present on the flank.



**Distribution :** Karnataka part of the Western Ghats.



IUCN Status

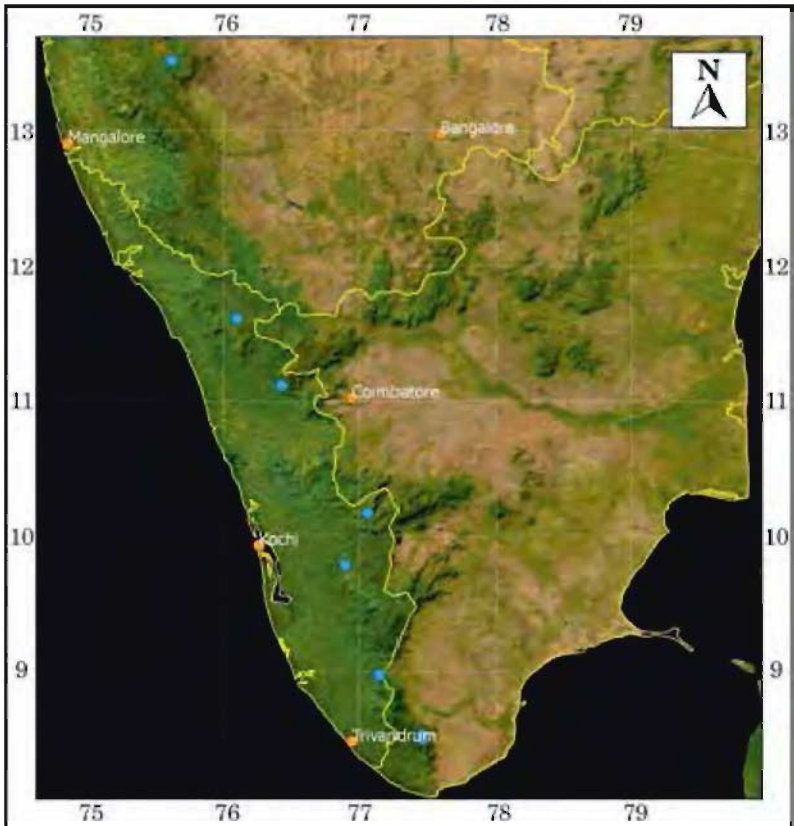
CR EN VU **NT** LC DD

41. *Ramanella montana* (Jerdon, 1854)

**Description :** A small sized Jerdons Ramanella frog. Skin smooth, coloration on the dorsum brown with varying shades. Below dark brown, almost blackish with white spots or blotches.



**Distribution :** Kerala and Karnataka part of the Western Ghats.



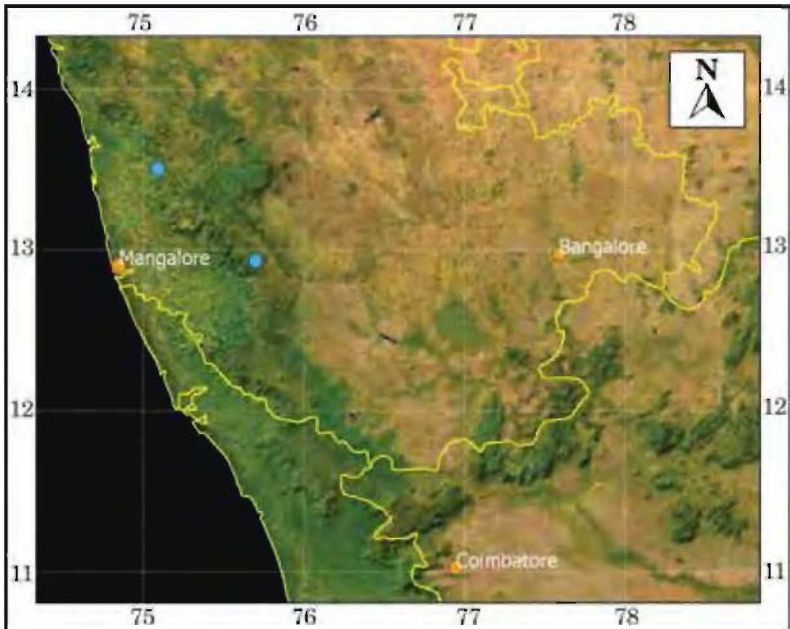
IUCN Status					
CR	EN	VU	NT	LC	DD

#### 42. *Ramanella marmorata* Rao, 1937

**Description :** A small sized Marbled Ramanella frog. Dorsum pale olive with darker bands between eyes and with scattered darker blotches on skin; venter pale yellowish, variegated with dark brown.



**Distribution :** Goa and Karnataka part of the Western Ghats.



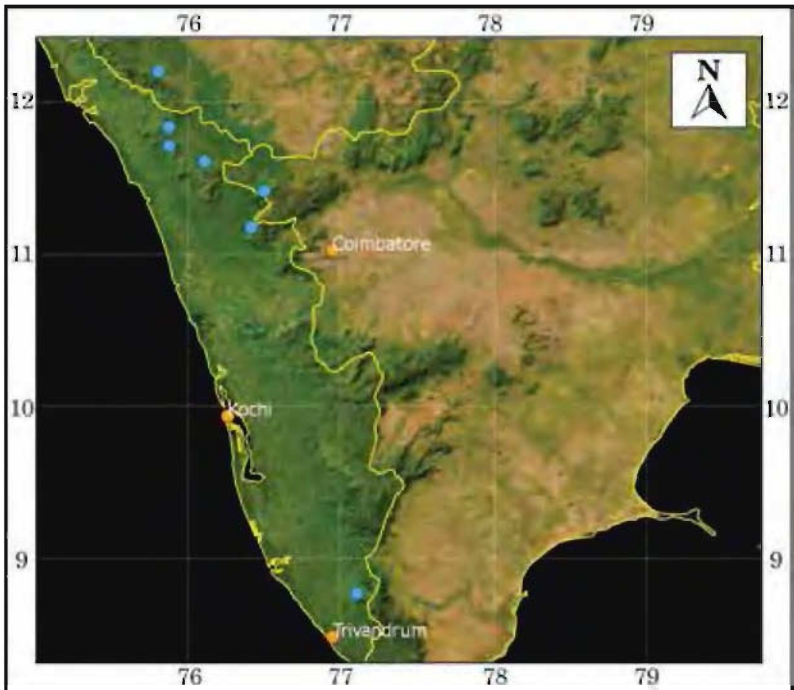
IUCN Status					
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### 43. *Ramanella triangularis* (Gunther, 1876)

**Description:** A small sized ramanella frog. Dorsum olive brown with prominent triangular spots or markings covering nearly the entire length of the back. Lateral sides blackish brown. A numbers of white dots present on the entire ventral surface of body. Limbs blackish brown with pale olive brown patches.



**Distribution:** Karnataka, Kerala and Tamil Nadu part of Western Ghats.



Family: NASIKABATRACHIDAE

Genus : *Nasikabatrachus*

IUCN Status

CR EN VU NT LC DD

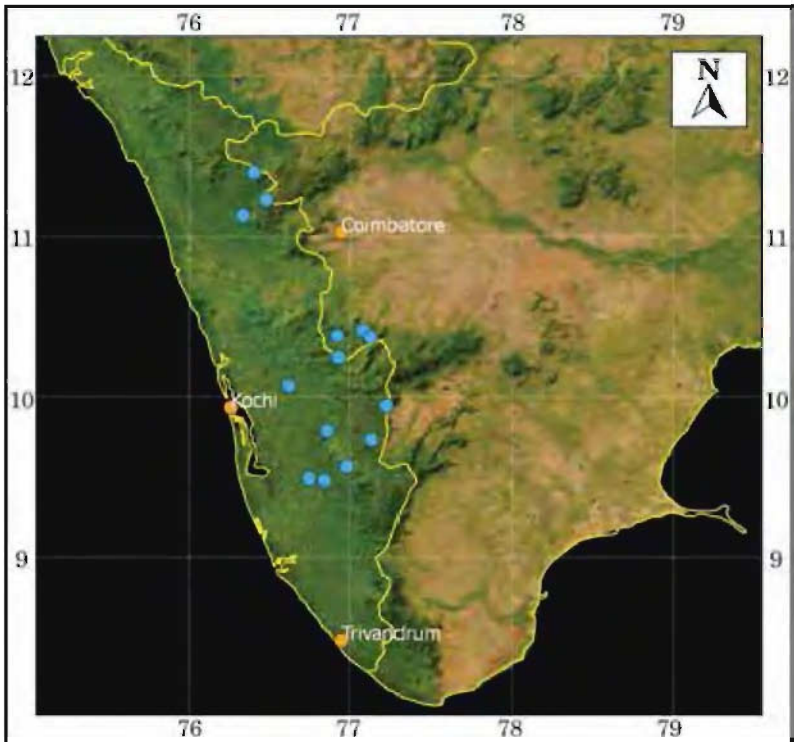
#### 44. *Nasikabatrachus sahyadrensis*

Biju and Bossuyt, 2003

**Description** : A large sized living fossil frog found only in Kerala and Tamil Nadu parts of Western Ghats. Body stone black in colour with small eyes and pointed nose.



**Distribution** : Kerala and Tamil Nadu part of Western Ghats.



Family: NYCTIBATRACHIDAE

Genus : *Nyctibatrachus*

IUCN Status

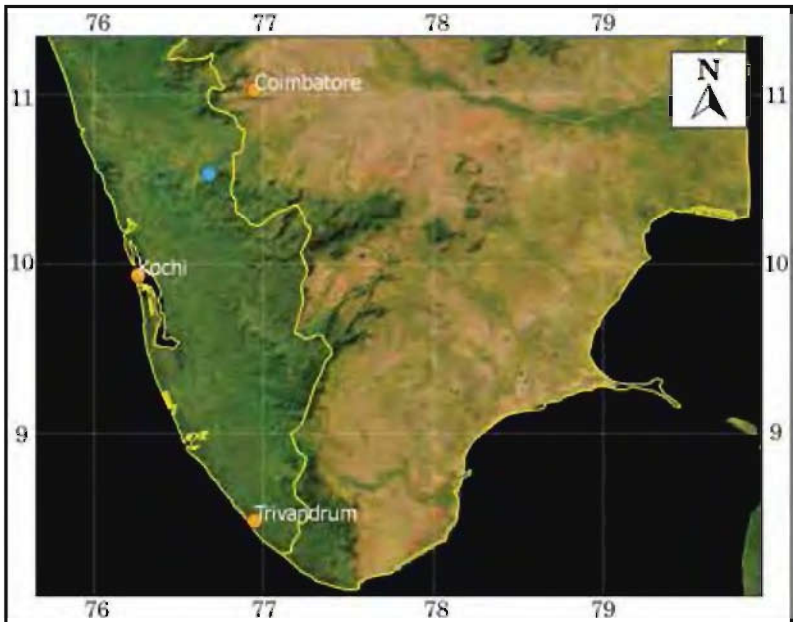
CR EN VU NT LC DD

45. *Nyctibatrachus acanthodermis* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011

**Description :** A large sized night frog. Dorsal skin with prominent spinular projections. Third finger disc without groove, fourth toe disc with dorso-terminal groove, cover rounded distally. Femoral glands present.



**Distribution :** Nelliampathi hills in Kerala.



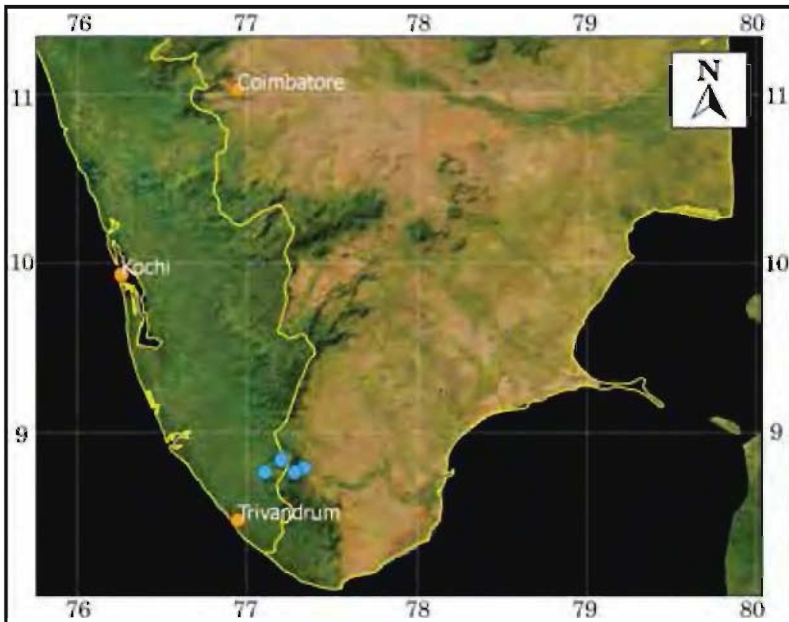


46. *Nyctibatrachus aliciae* Inger, Shaffer, Koshy and Bakde, 1984

**Description :** A small sized night Frog. Dorsal surface of the body generally dark brown with light cream colored blotches. Third finger disc with dorso-terminal groove, cover notched distally, fourth toe disc with dorso-terminal groove cover bifurcate distally. Femoral gland present.



**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
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47. *Nyctibatrachus anamallaiensis* (Myers,1942)

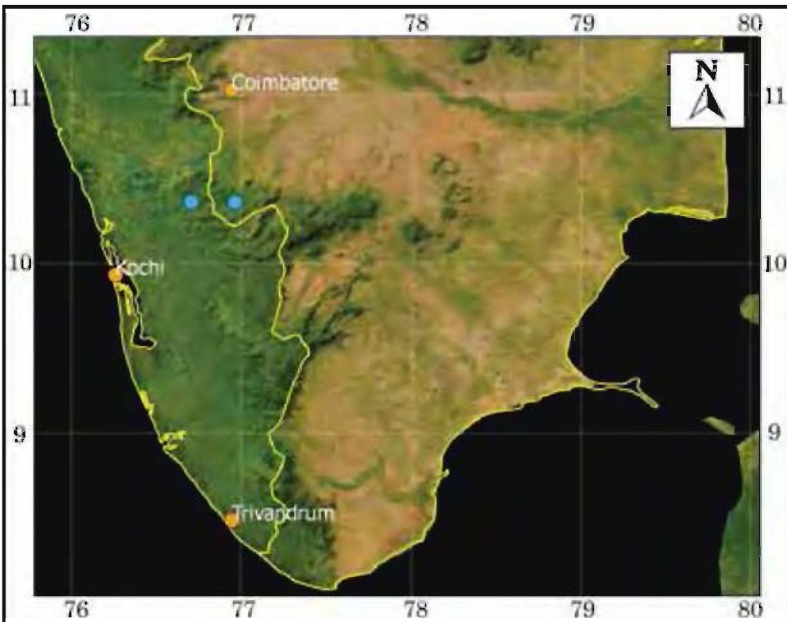
**Description :**

A small sized night frog. Whole of dorsum corrugated with several transverse folds, the anterior three folds very prominent and with a longitudinal dorsolateral fold on either side; lateral part of the body



with two longitudinal folds. Third finger and fourth toe discs with dorso-terminal groove cover bifurcate distally. Femoral glands prominent.

**Distribution :** Tamil Nadu part of the Western Ghats.



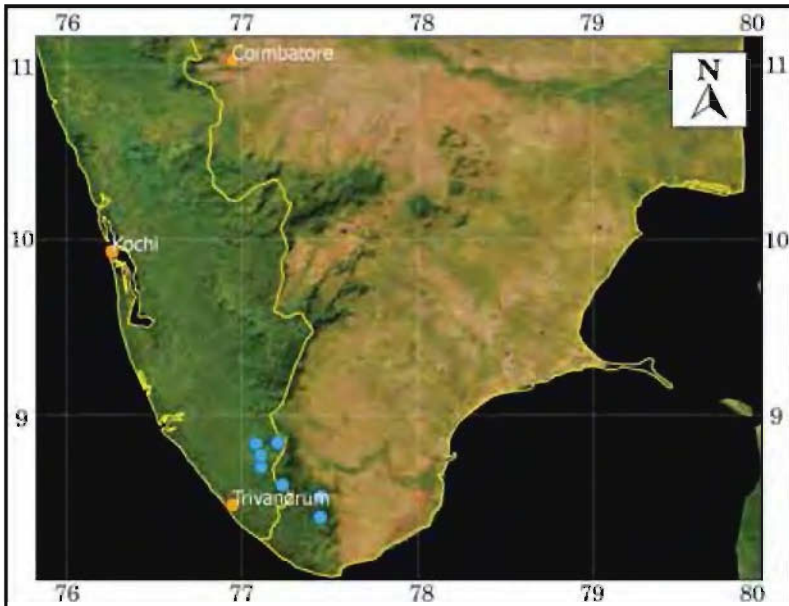
IUCN Status					
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48. *Nyctibatrachus beddomii* (Boulenger, 1882)

**Description :** A small sized night Frog. Skin smooth, dorsum brown with variegated markings, a light band present on either side of the back. Webbing absent in toes. Third finger and fourth toe discs with dorso-terminal groove cover bifurcate distally. Femoral glands present.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



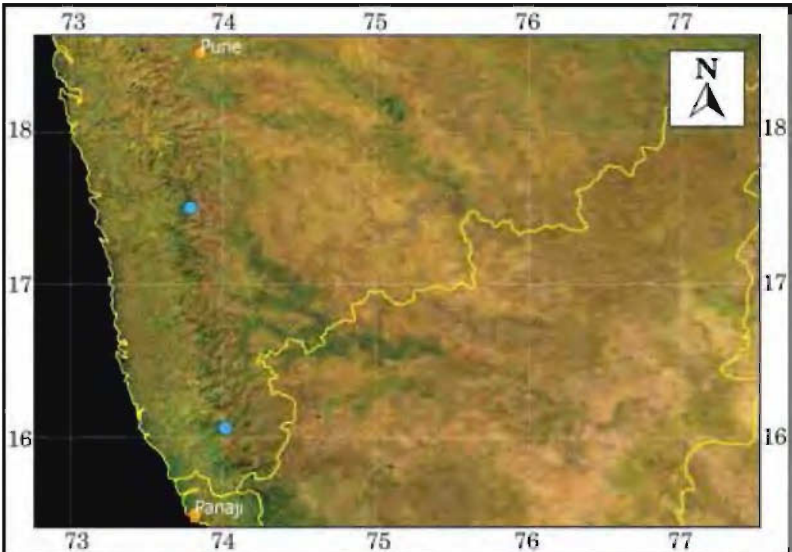
IUCN Status					
CR	EN	VU	NT	LC	DD

49. *Nyctibatrachus danieli* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011

**Description :** A medium sized night Frog. Dorsum uniform light reddish-brown; ventral side white, thigh light grey with dark grey marbling, hand, feet and webbing dark grey. Third finger and fourth toe discs with dorso-terminal groove cover rounded distally. Femoral glands absent.



**Distribution :** Koyna and Amboli part of Western Ghats.



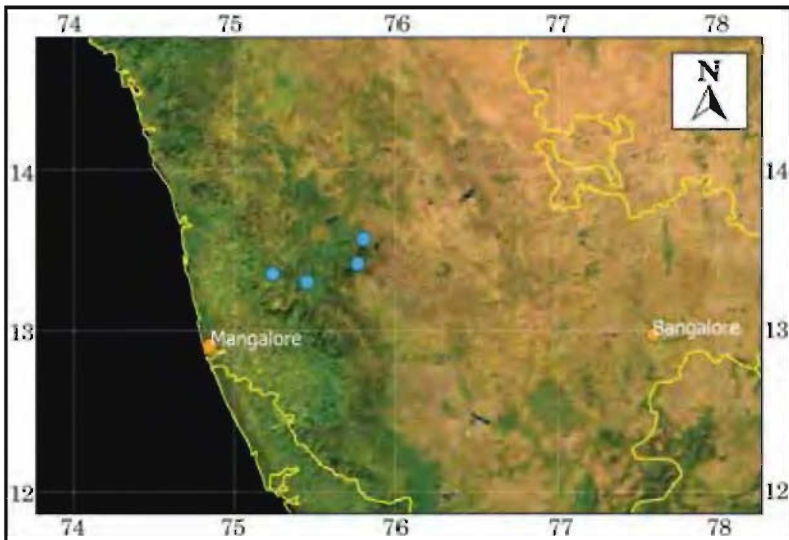
IUCN Status					
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**50. *Nyctibatrachus dattatreyaensis***  
Dinesh, Radhakrishnan and Bhatta, 2008

**Description :** A medium sized night frog. Dorsum with three prominent folds and a longitudinal dorsolateral fold on either side; lateral part of the body with two longitudinal folds. Third finger disc without dorso-terminal groove, fourth toe disc with dorso-terminal groove, cover notched distally. Femoral glands and thumb pad prominent.



**Distribution :** Chandradrona hill ranges of Chikkamagaluru, Karnataka.



IUCN Status					
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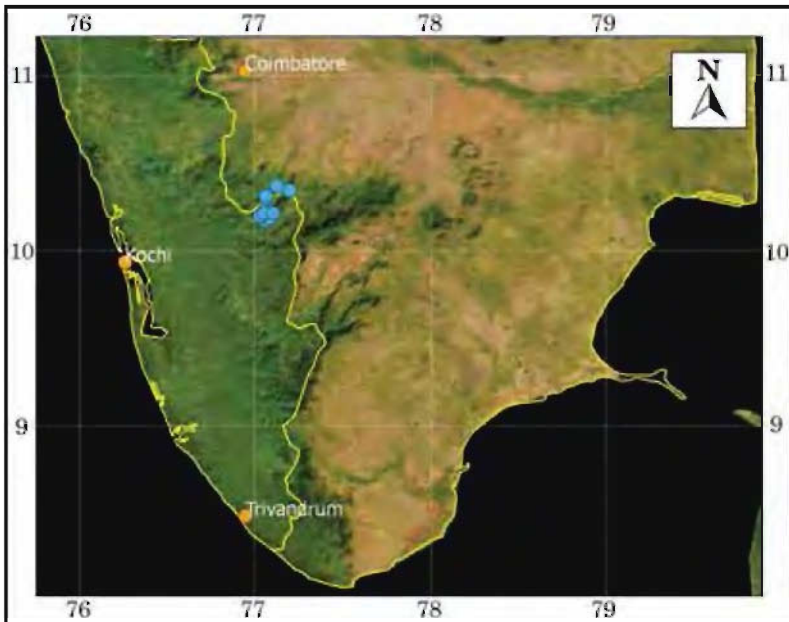
### 51. *Nyctibatrachus deccanensis*

Dubois, 1984

**Description :** A medium sized night Frog. Dorsal skin smooth with glandular folds on the head. Dorsum brown with indistinct blackish markings. Third finger disc without groove, fourth toe disc with dorso-terminal groove, cover bifurcate distally. Femoral glands present.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



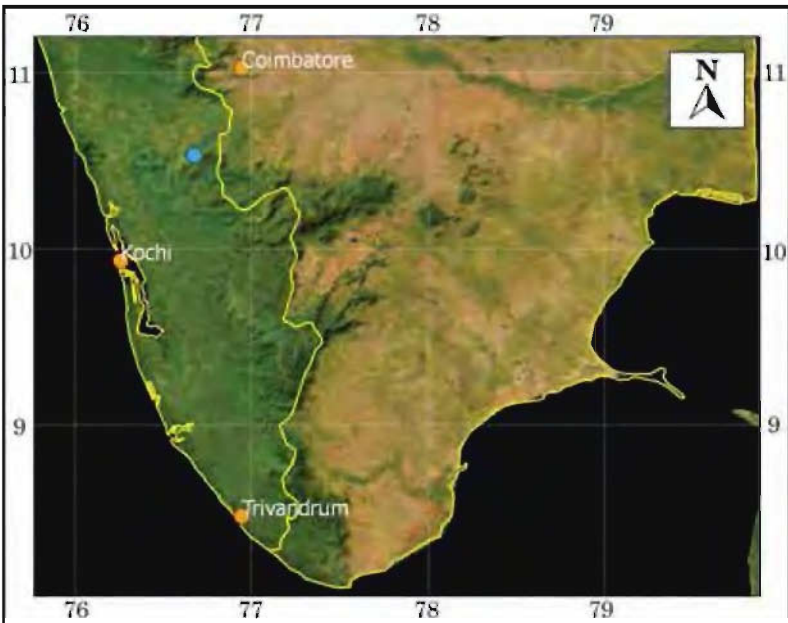
IUCN Status					
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52. *Nyctibatrachus deveni* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011

**Description :** A small sized night Frog. Dorsum yellowish orange with brownish patches and dorsal skin with prominent granular projections. Third finger disc with dorso-terminal groove, cover notched distally, fourth toe disc with dorso-terminal groove, cover bifurcate distally. Webbing medium. Femoral glands absent.



**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
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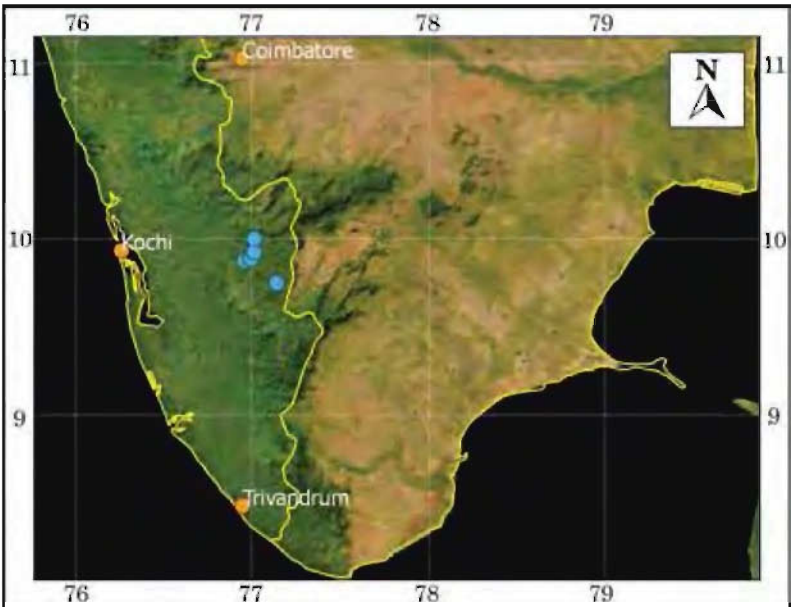
### 53. *Nyctibatrachus gavi*

Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011

**Description :** A large sized night Frog. Dorsum uniform light brown; ventrally mauvish with light brown patches. Wrinkled dorsal skin with granular projections. Third finger disc without groove, fourth toe disc with dorso-terminal groove, cover rounded distally. Webbing medium.



**Distribution :** Kerala part of the Western Ghats.



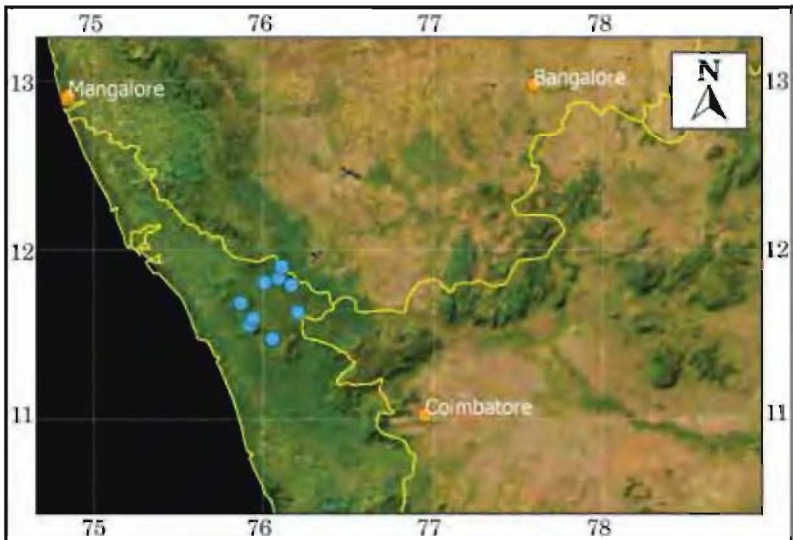
IUCN Status					
CR	EN	VU	NT	LC	DD

54. *Nyctibatrachus grandis* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011

**Description :** A large sized night Frog. Dorsum uniform dark grey with light grey patches, ventral side uniform grey, throat light reddish brown. Third finger disc without groove, fourth toe disc with dorso-terminal groove, cover rounded distally Webbing medium and dark grey. Femoral glands present.



**Distribution :** Karnataka and Kerala part of the Western Ghats.



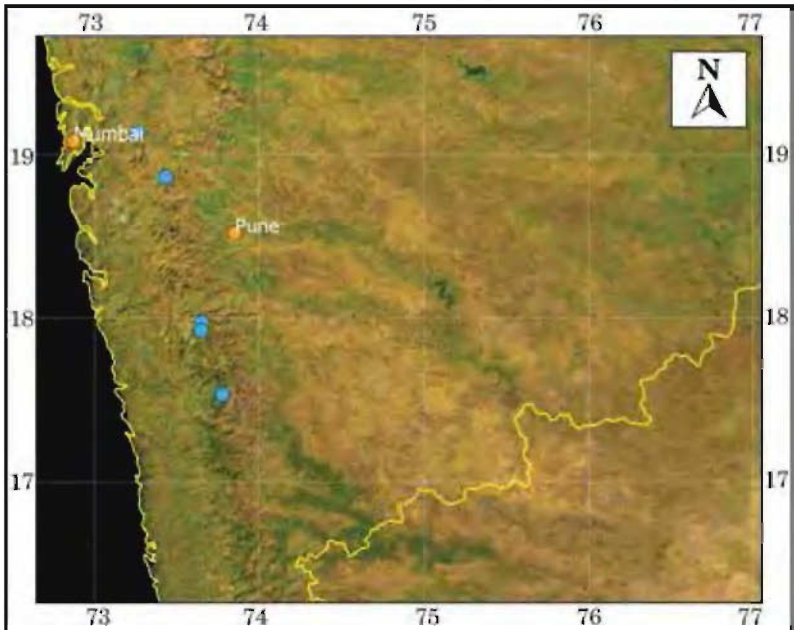
IUCN Status					
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**55. *Nyctibatrachus humayuni***  
 Bhaduri and Kripalani, 1955

**Description:** A large sized night Frog. Dorsum grayish to brownish, black with irregular darker markings. Ventral side pale yellow. Third finger and fourth toe discs with dorso-terminal groove cover rounded distally. Webbing medium. Femoral glands present.



**Distribution :** Maharashtra part of the Western Ghats.



IUCN Status

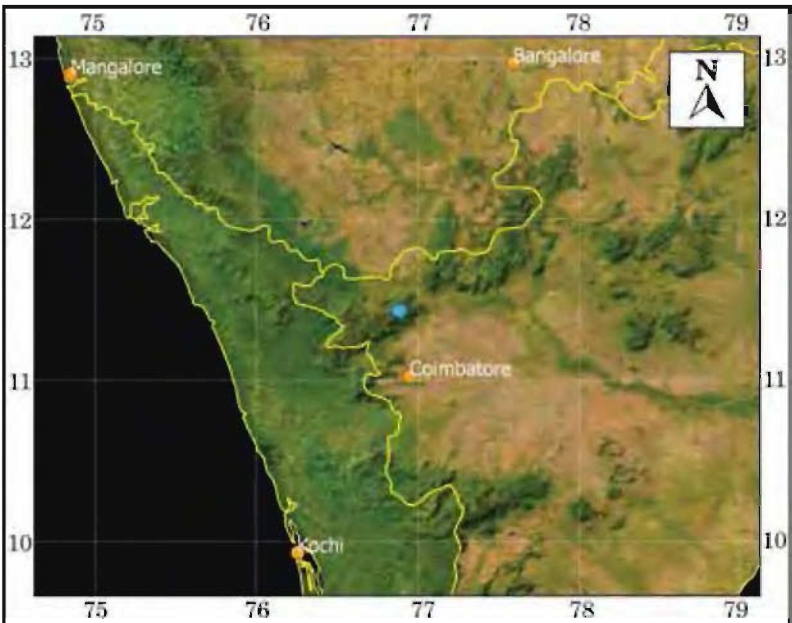
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56. *Nyctibatrachus indraneili* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011

**Description :** A large sized night Frog. Dorsum uniform dark greyish-brown with yellowish patches, ventral side uniform greyish-brown with light spots on throat and lateral side of belly, feet and webbing dark grey. Third finger and fourth toe discs without groove. Webbing medium. Femoral glands present.



**Distribution :** Tamil Nadu part of the Western Ghats.



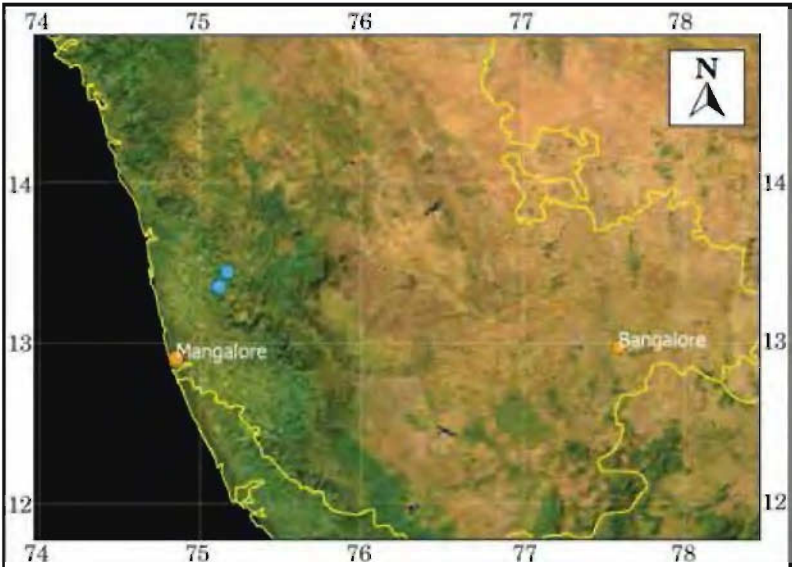
IUCN Status					
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57. *Nyctibatrachus jog* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011

**Description :** A medium sized night Frog. Dorsum uniform black with light grey patches, ventral side uniform grey, throat reddish-brown. Third finger and fourth toe discs with dorso-terminal groove cover rounded distally. Webbing medium. Femoral glands present.



**Distribution :** Karnataka part of the Western Ghats.



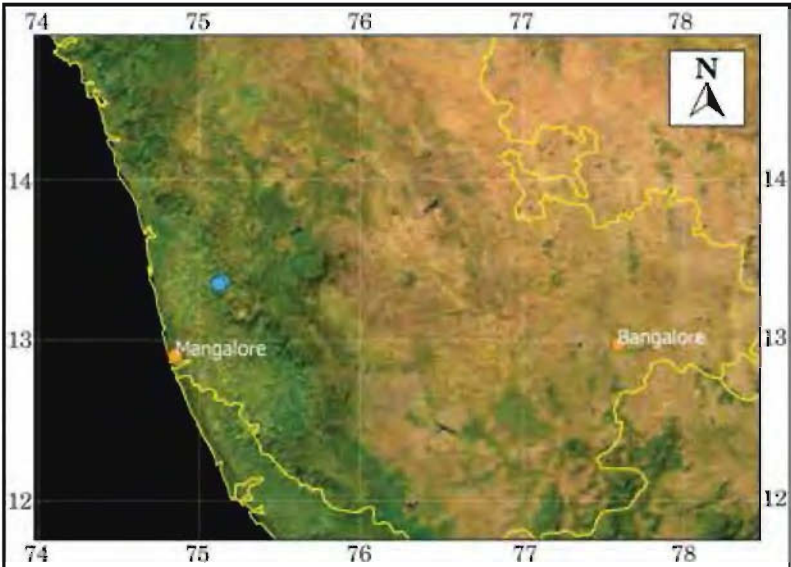
IUCN Status					
CR	EN	VU	NT	LC	DD

58. *Nyctibatrachus karnatakaensis* Dinesh, Radhakrishnan, Reddy and Gururaja, 2007

**Description :** A large sized night Frog. Dorsum blackish brown mottled with yellow spots. Throat granular with fine longitudinal folds; rest of venter glandular, colored light creamish brown and with fine folds. Third finger and fourth toe discs with dorso-terminal groove cover rounded distally. Webbing medium. Femoral Glands present.



**Distribution :** Karnataka part of the Western Ghats.



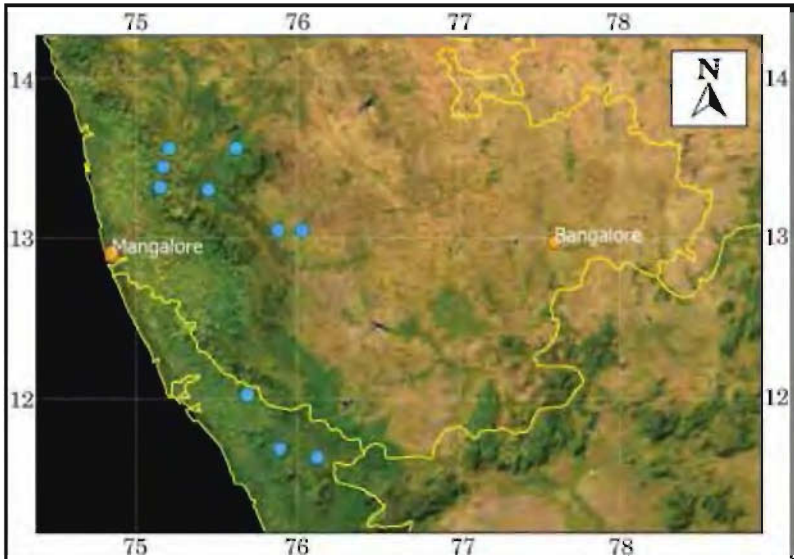
IUCN Status					
CR	EN	VU	NT	LC	DD

59. *Nyctibatrachus kempholeyensis* (Rao, 1937)

**Description :** A small sized night Frog. Dorsum uniform light brownish-grey, lateral side lighter than dorsum, ventral side white with grey spots on throat and thigh, white glandular projections on throat margin. Third finger and fourth toe discs with dorso-terminal groove, cover rounded distally. Webbing medium. Femoral glands present.



**Distribution :** Karnataka and Kerala part of the Western Ghats.



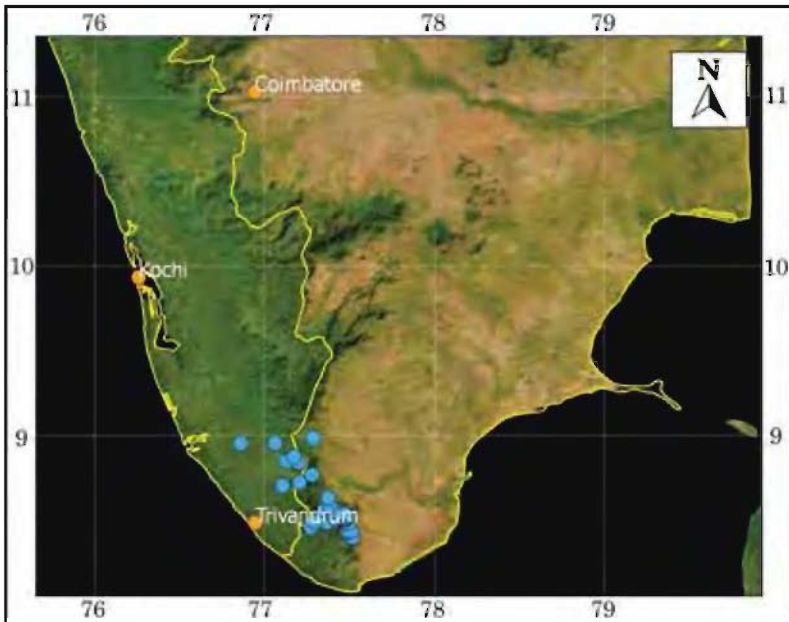
IUCN Status					
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## 60. *Nyctibatrachus major* Boulenger, 1882

**Description:** A medium sized night Frog. Dorsum dark greyish-brown with irregular light grey and dark brown blotches, ventral side greyish-white. Third finger disc without groove, and fourth toe disc with dorso-terminal groove, covers rounded distally. Webbing medium. Femoral glands present.



**Distribution :** Kerala and Tamil Nadu part of Western Ghats.



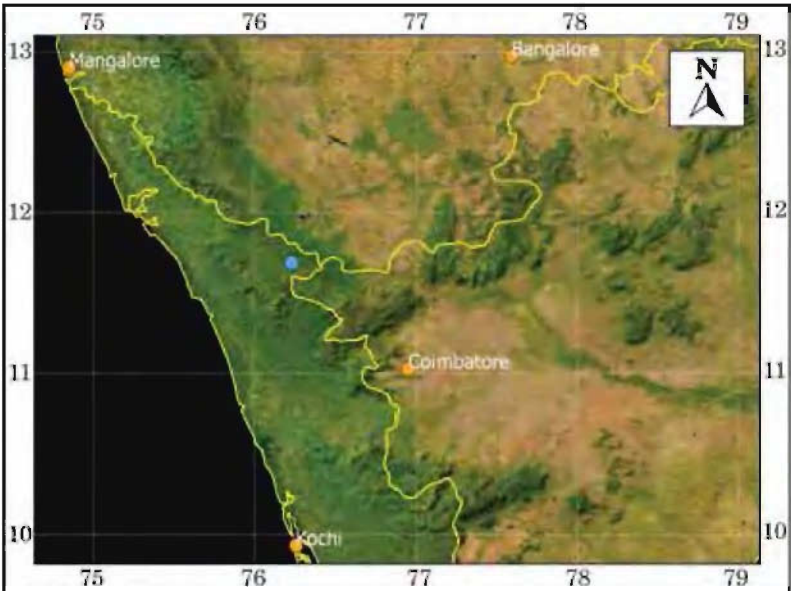
IUCN Status					
CR	EN	VU	NT	LC	DD

61. *Nyctibatrachus minimus* Biju, Bocxlaer, Giri, Roelants, Nagaraju and Bossuyt, 2007

**Description :** A small sized night frog. A light tanned dorsum without prominent patterns, except for a few dark brown markings between the eyes. Ventrally light reddish-grey, forelimbs and hind limbs with grey spots with vermiculations. Third finger and fourth toe discs with dorso-terminal groove, cover bifurcate distally. Webbing absent. Femoral glands present, orange.



**Distribution :** Kerala part of the Western Ghats.



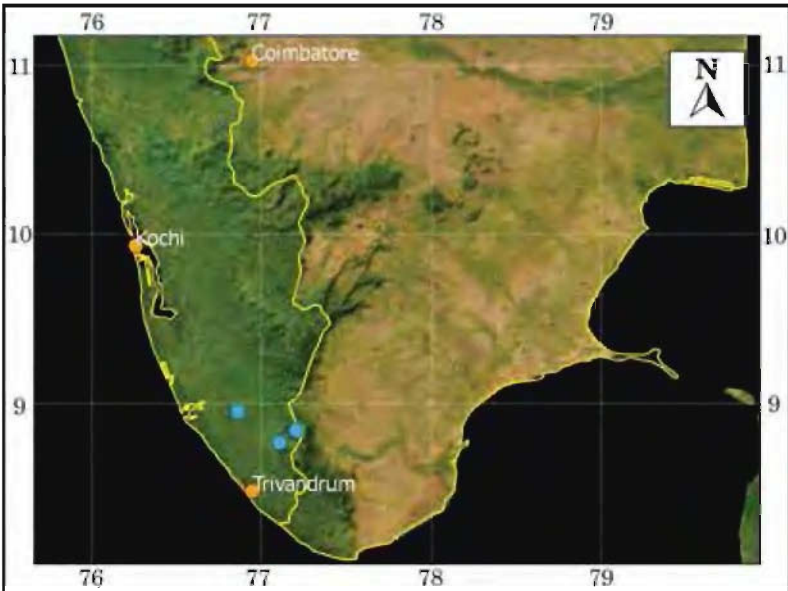
IUCN Status					
CR	EN	VU	NT	LC	DD

62. *Nyctibatrachus minor* Inger, Shaffer, Koshy and Bakde, 1984

**Description :** A small sized night Frog. Dorsum of the body light tan with dark brown markings surrounding most of the longitudinal folds. A brown 'X' shaped marking present on the anterior half of the body. Ventrally immaculate with white. Third finger and fourth toe discs with dorso-terminal groove cover bifurcate distally. Webbing and femoral glands absent.



**Distribution :** Kerala part of Western Ghats.



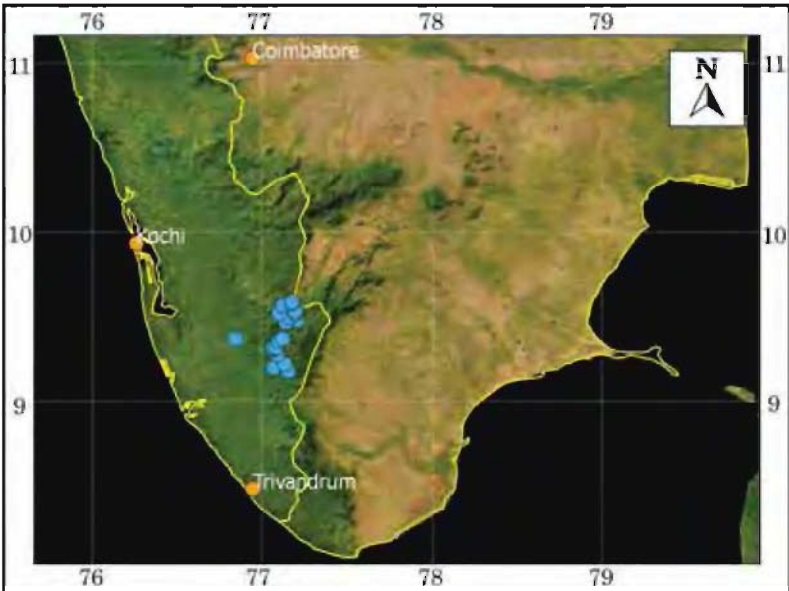
IUCN Status					
CR	EN	VU	NT	LC	DD

63. *Nyctibatrachus periyar* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011

**Description :** A medium sized night Frog. Dorsum uniform brown with light orange spots, ventral side of throat blackish-brown, belly and thigh light mauve, hand, feet and webbing dark grey. Third finger disc with dorso-terminal groove, cover notched distally, fourth toe disc with dorsoterminal groove, cover bifurcate distally. Webbing medium. Femoral glands present.



**Distribution :** Kerala part of Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

## 64. *Nyctibatrachus petraeus*

Das and Kunte, 2005

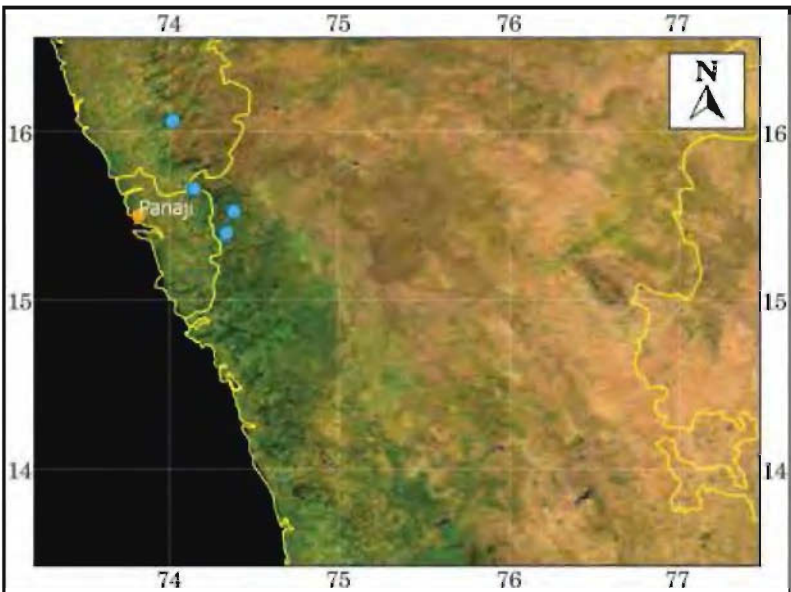
### Description:

A medium sized night frog. Brown above, with small dark spots; limbs with dark transverse bands; lower parts white, throat mottled with brown. Waist constricted, adult males with femoral



glands. Webbing medium. Third finger and fourth toe discs with dorso-terminal groove cover rounded distally.

**Distribution :** Karnataka part of Western Ghats.



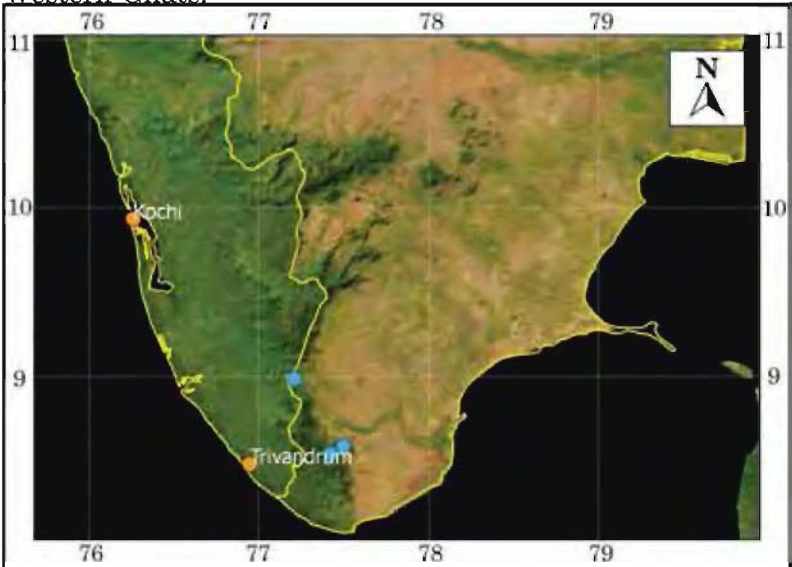
IUCN Status					
CR	EN	VU	NT	LC	DD

65. *Nyctibatrachus pillaii* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011

**Description :** A small sized night Frog. Dorsum uniform greyish-brown with a reddish-brown stripe between the eyes, ventral side white and webbing dark greyish. Third finger and fourth toe discs with dorso-terminal groove cover bifurcate distally. Webbing more. Femoral glands absent.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



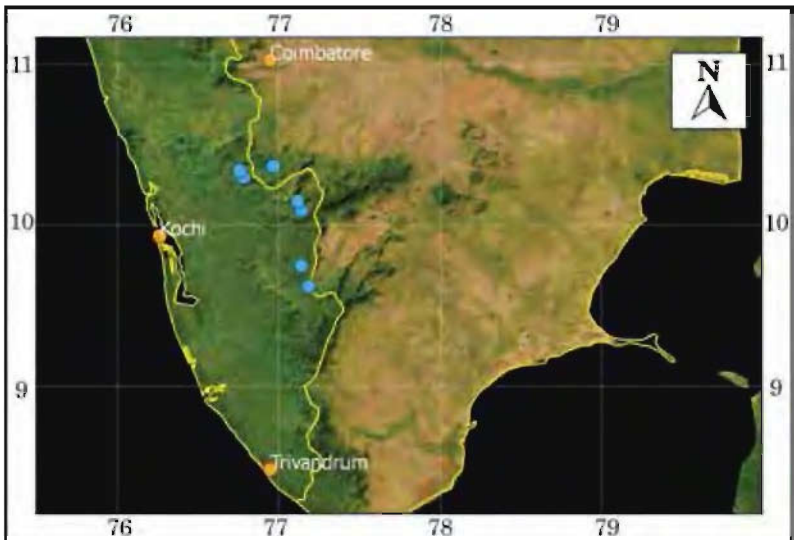
IUCN Status					
CR	EN	VU	NT	LC	DD

66. *Nyctibatrachus poocha* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011

**Description :** A medium sized night Frog. Dorsum uniform dark greyish-brown and ventral side light grey. Third finger and fourth toe discs with dorso-terminal groove cover bifurcate distally. Webbing medium. Femoral glands present.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



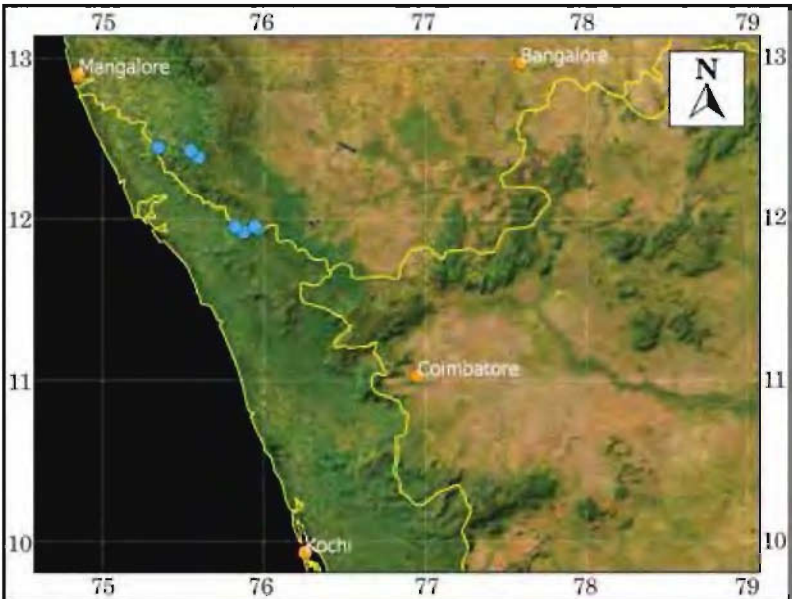
IUCN Status					
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67. *Nyctibatrachus sanctipalustris* Rao, 1920

**Description :** A medium sized night Frog. Dorsum uniform light brown with scattered black patches, ventral side light grey. Third finger disc without groove, fourth toe disc with dorso-terminal groove, cover notched distally. Webbing medium. Femoral glands present.



**Distribution :** Karnataka part of the Western Ghats.



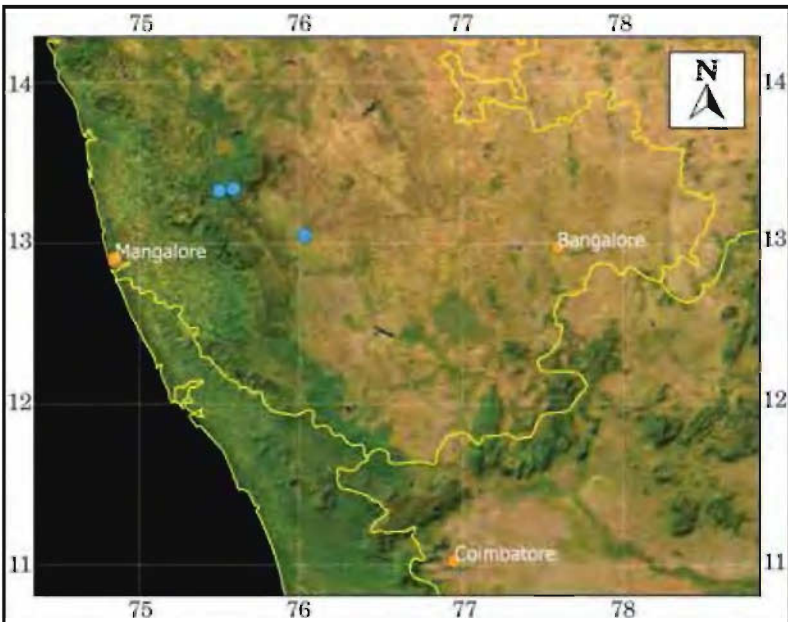
IUCN Status					
CR	EN	VU	NT	LC	DD

68. *Nyctibatrachus shiradi* Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011

**Description :**  
 A small sized night Frog. Dorsum uniform light brown with white granular projections; ventral side white with light spots. Third finger and fourth toe discs with dorso-terminal groove cover notched distally. Webbing medium. Femoral glands present.



**Distribution :** Karnataka part of the Western Ghats.



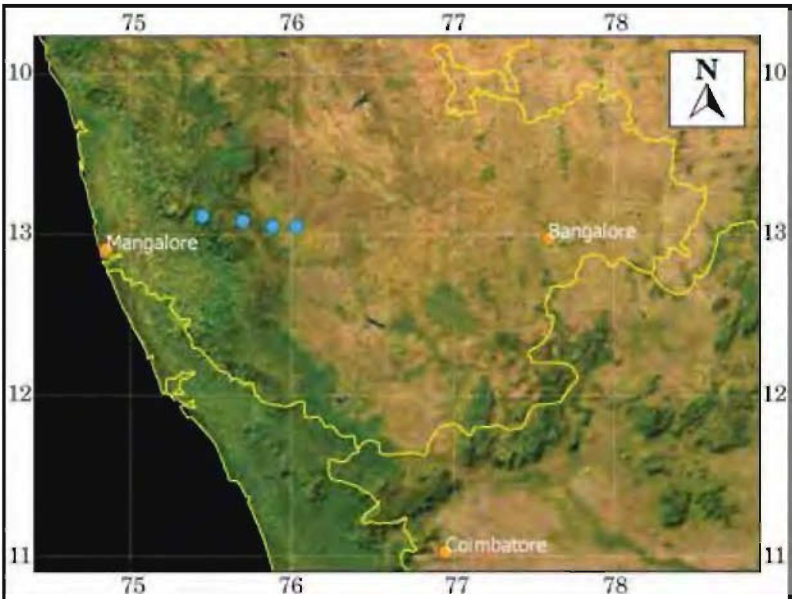
IUCN Status					
CR	EN	VU	NT	LC	DD

69. *Nyctibatrachus sylvaticus* Rao, 1937

**Description :** A medium sized night Frog. Dorsum uniform dark grey; ventral side light brownish-grey with grey speckling. Third finger and fourth toe discs with dorso-terminal groove cover rounded distally. Webbing medium. Femoral glands present.



**Distribution :** Karnataka part of the Western Ghats.



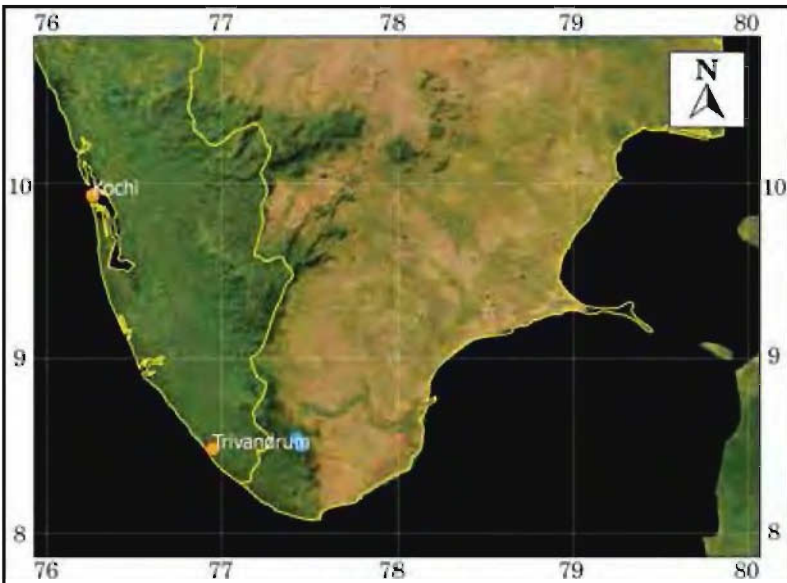
IUCN Status					
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70. *Nyctibatrachus vasanthi*  
Ravichandran, 1997

**Description :** A medium sized night frog. Dorsum light tan with irregular dark brown blotches, ventrally dull yellow. Third finger and fourth toe discs with dorso-terminal groove cover bifurcate distally. Webbing medium. Femoral glands present.



**Distribution :** Tamil Nadu part of Western Ghats.



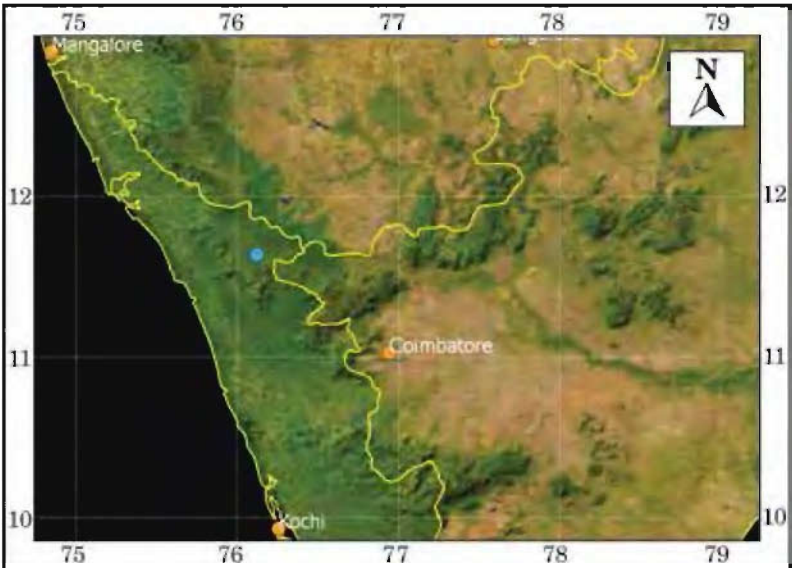
IUCN Status					
CR	EN	VU	NT	LC	DD

71. *Nyctibatrachus vrijeuni* Biju, Boclaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011

**Description :** A medium sized night Frog. Dorsum uniform reddish-brown; ventrally brown with white spots. Third finger disc without groove, fourth toe disc with dorso-terminal groove, cover notched distally. Webbing medium. Femoral glands present.



**Distribution :** Kerala part of the Western Ghats.



Family: RANIDAE  
Genus : *Clinotarsus*

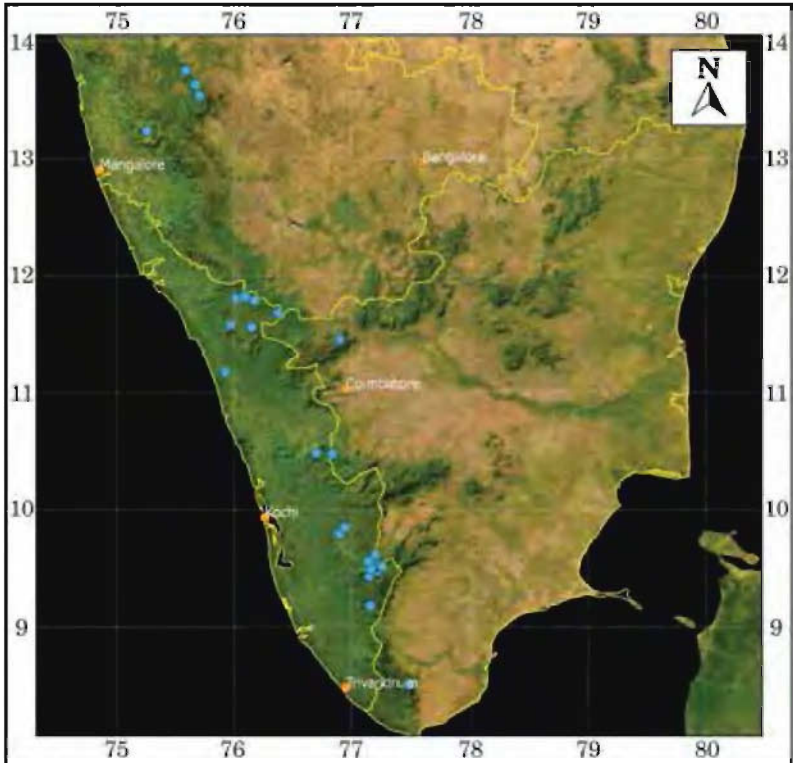


## 72. *Clinotarsus curtipes* (Jerdon, 1853)

**Description :** A medium sized bicoloured frog. Dorsum cream yellow to brown, lateral sides dark brown. This species of frog is known for its synchronized mass emergence from tadpole stage to young ones and they move into forest from the breeding pool in groups by a phenomenon known as ‘frog marching’.



**Distribution :** Karnataka and Kerala part of the Western Ghats.



Family : RANIXALIDAE  
Genus : *Indirana*

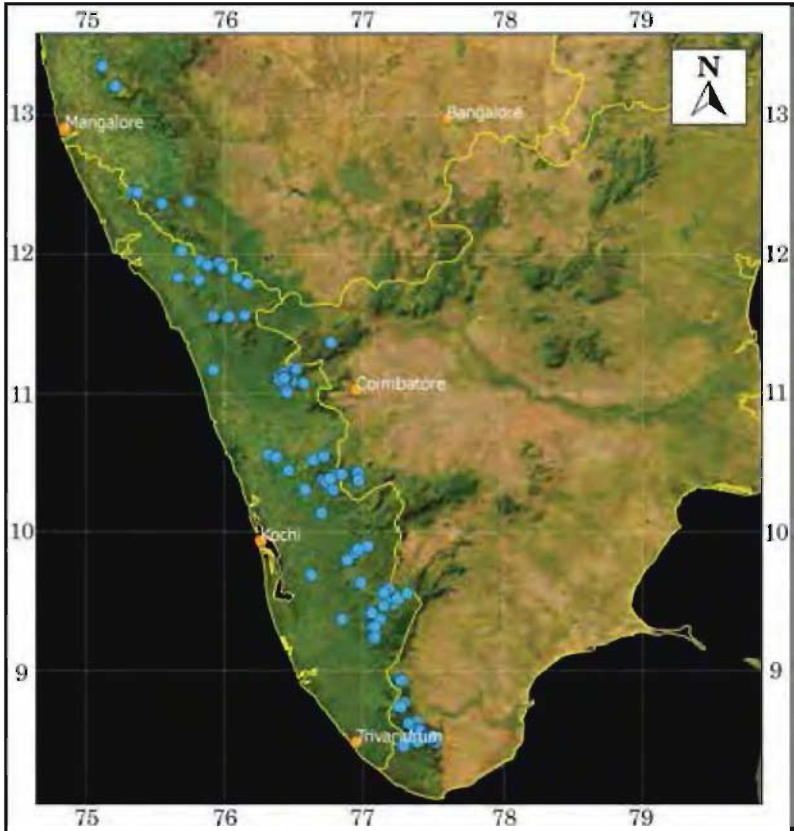


### 73. *Indirana beddomii* (Günther, 1875)

**Description:** A medium sized *Indirana* frog. Dorsum creamish, interspersed with small short longitudinal glandular folds; tympanum region with dark brown spot.



**Distribution :** Kerala, Karnataka and Tamil Nadu part of the Western Ghats.

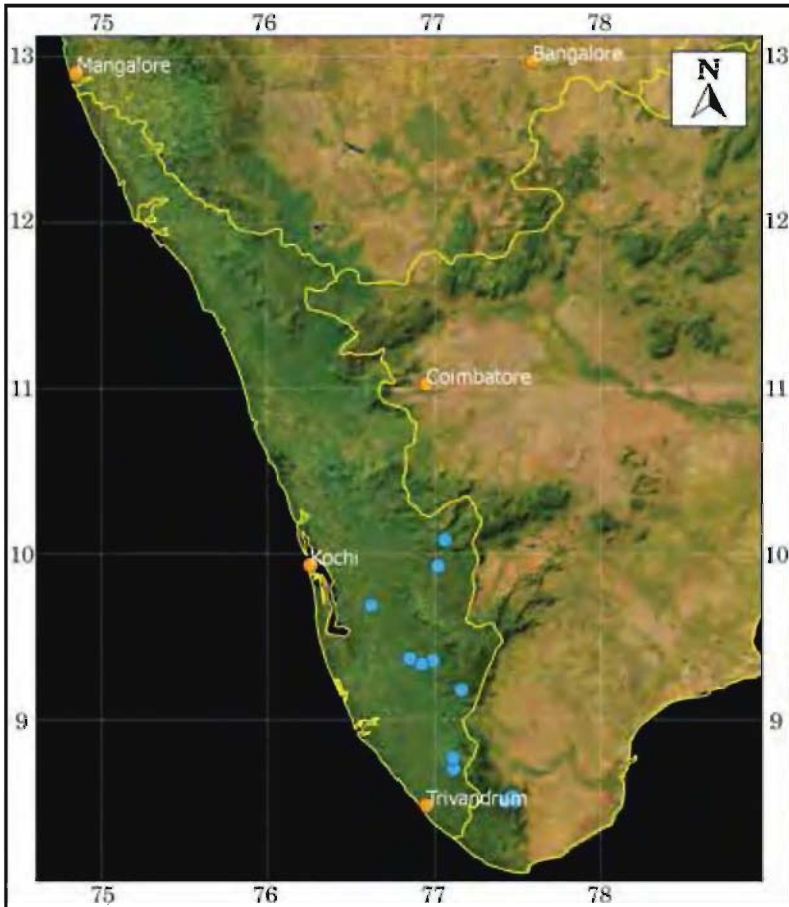


IUCN Status					
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74. *Indirana brachytarsus* (Günther, 1875)

**Description :** A medium sized Indirana frog. Dorsum creamish interspersed with small short longitudinal glandular folds with or without shade of dark grey. Some individuals with distinct pale vertebral stripe on the back. Back and front of thighs yellow.

**Distribution :** Kerala part of the Western Ghats.



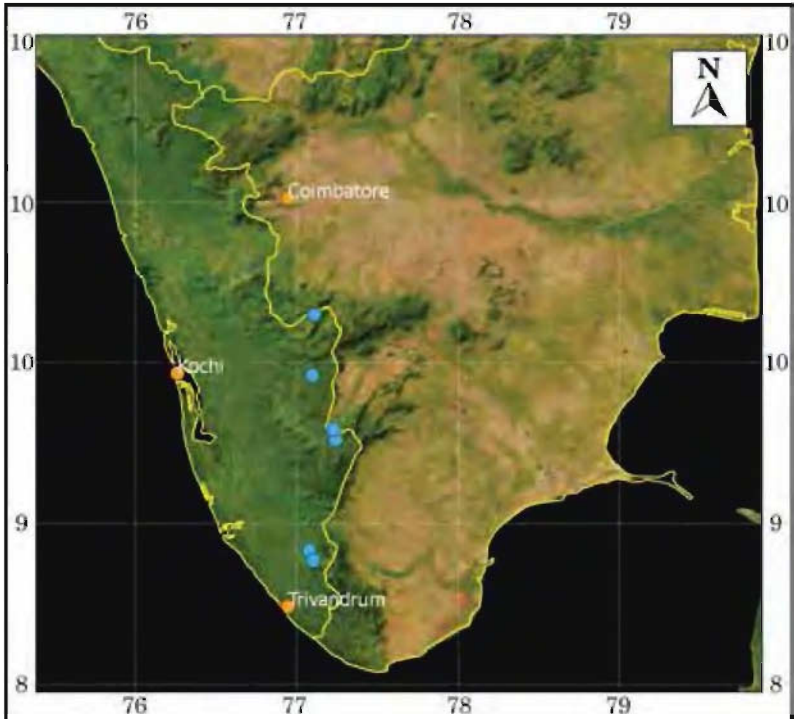
IUCN Status					
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**75. *Indirana diplosticta*** (Günther, 1876)

**Description:** A medium sized *Indirana* frog. Upper surface grey pink to reddish brown with a dark cross bar between the eyes. Large black spots on the sides of the body, always present in the groin.



**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
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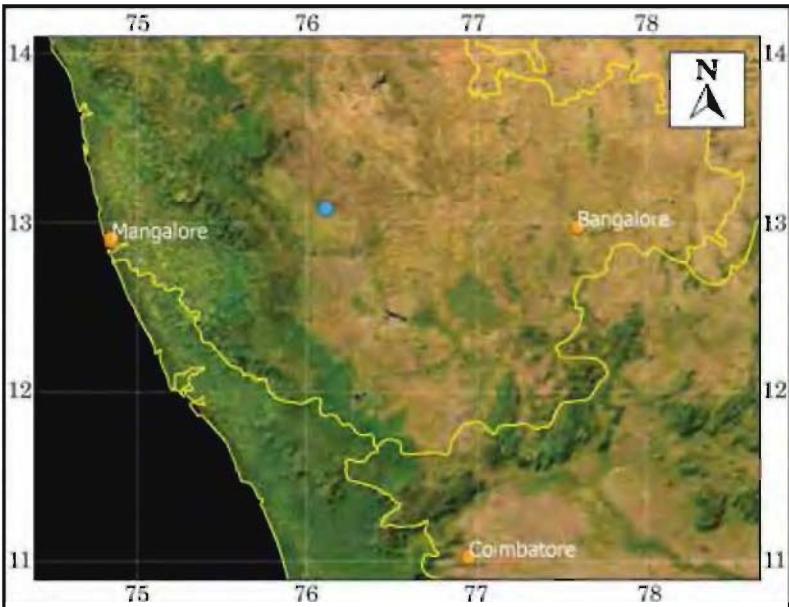
76. *Indirana gundia* (Dubois, 1986)

**Description:**

A medium sized Indirana Frog. Dorsum varies from brown to yellowish, golden, cream, pinkish, reddish, more or less maroon spotted. Some times with a median dorsal band, which is yellowish, cream, golden or orange. Breast and belly yellowish, occasionally golden underside, femur translucent, yellowish or pinkish.



**Distribution :** Karnataka part of Western Ghats.



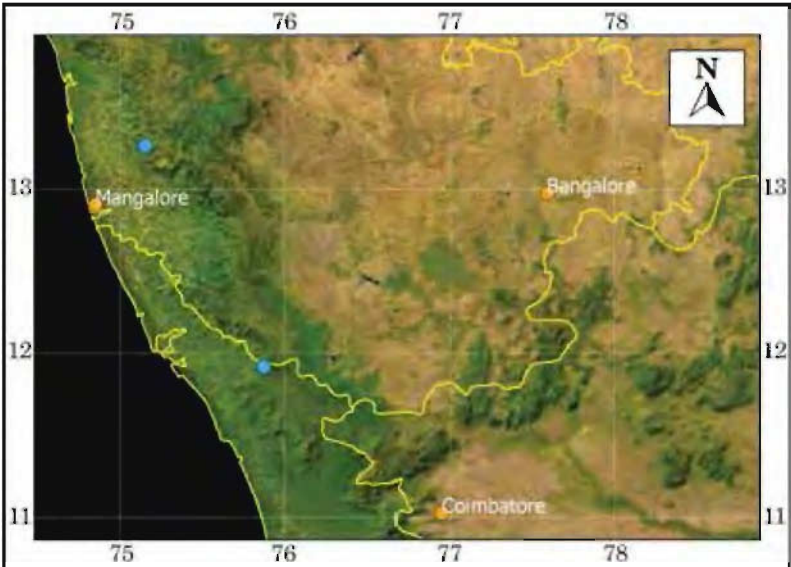
IUCN Status					
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77. *Indirana leithii* (Boulenger, 1888)

**Description :** A small sized Indirana frog. Skin of dorsum with small scattered longitudinal warts. Brown above with small dark spots; limbs with dark transverse bands, lower parts white; throat mottled with brown.



**Distribution :** Maharashtra and Karnataka part of the Western Ghats.

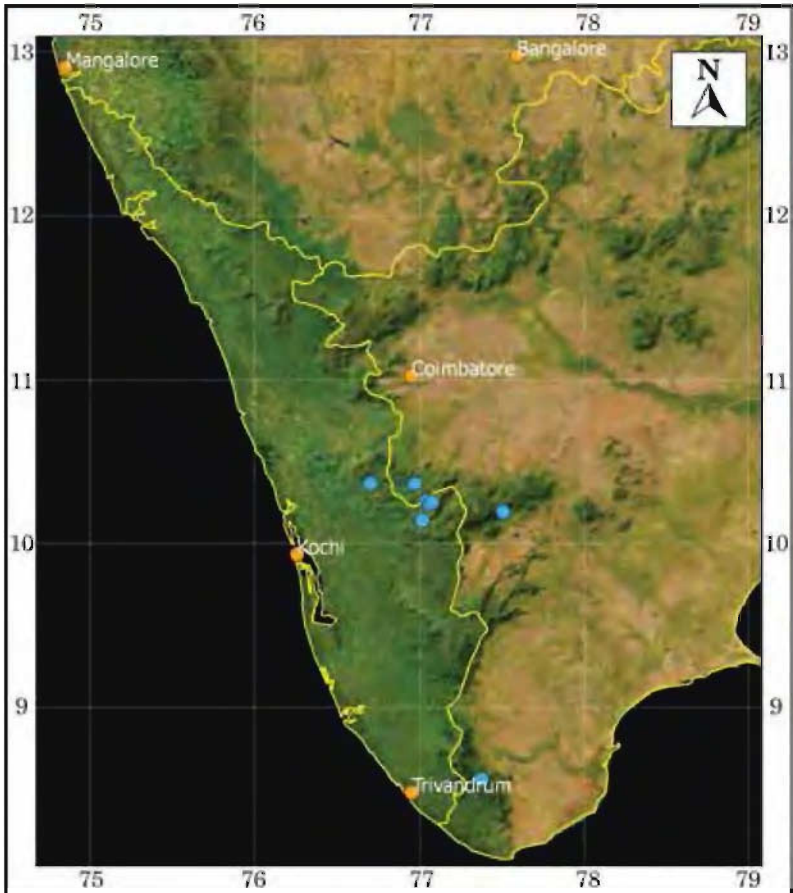


IUCN Status					
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78. *Indirana leptodactyla* (Boulenger, 1882)

**Description :** A small sized indirana frog. Dorsum brown or olive brown, mottled with darker brown markings, a triangle shaped dark spot between the eyes. A pale vertebral spot sometimes present. Underside white or spotted with brown.

**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.

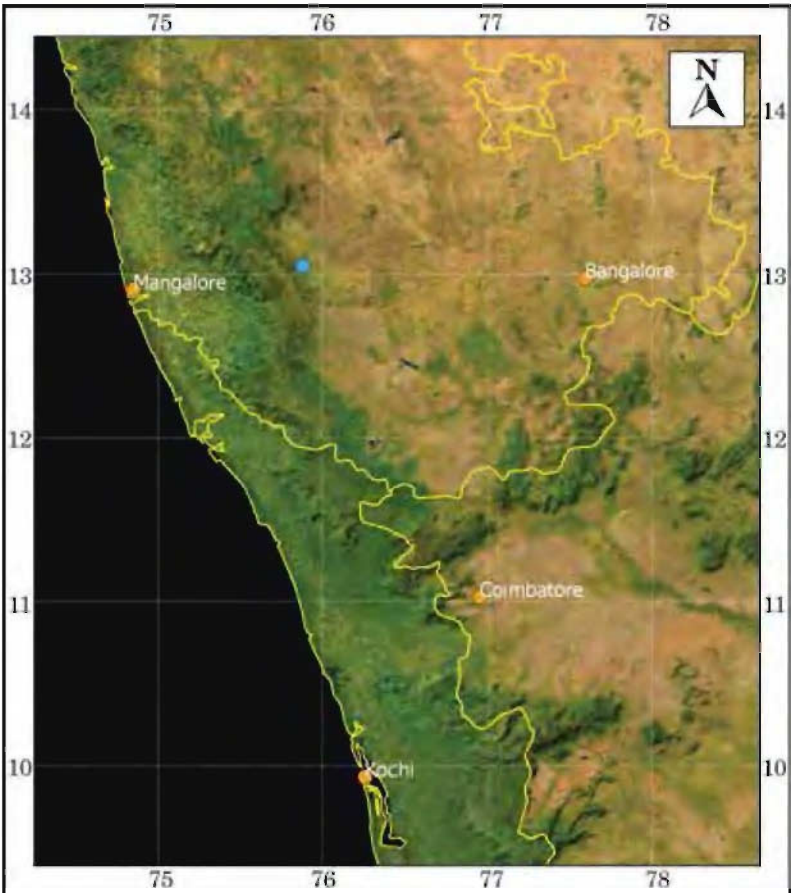


IUCN Status					
CR	EN	VU	NT	LC	DD

79. *Indirana longicrus* (Rao, 1937)

**Description :** A medium sized Indirana frog. Upper surface of the dorsum with faint small folds, ventral surface smooth. Toes half webbed; a minute elongate inner metatarsal tubercle; subarticular tubercles fairly developed; a faint outer metatarsal tubercle.

**Distribution :** Karnataka part of Western Ghats.



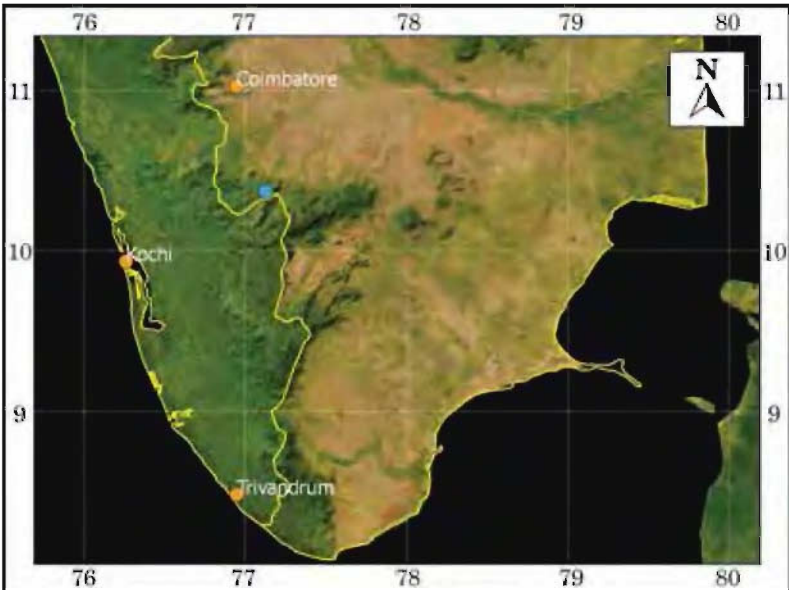
IUCN Status					
CR	EN	VU	NT	LC	DD

80. *Indirana phrynoderma* (Boulenger, 1882)

**Description :** A medium sized Indirana Frog. Dorsal surface grayish brown with darker spots. Ventral surface brown with whitish markings. Skin with prominent glandular warts and tubercles of variable size.



**Distribution :** Tamil Nadu part of Western Ghats.



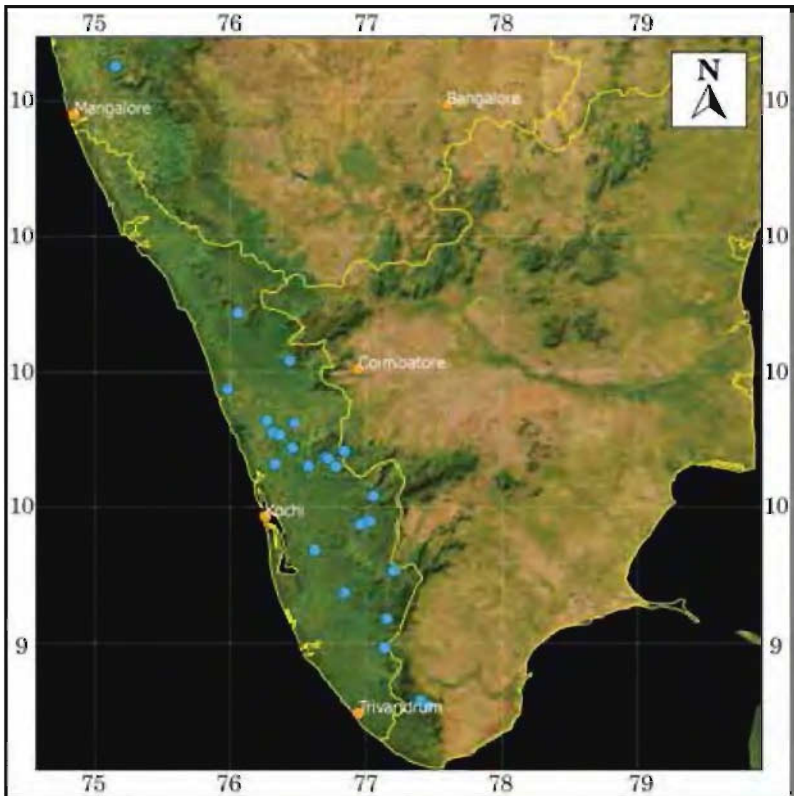
IUCN Status					
CR	EN	VU	NT	LC	DD

81. *Indirana semipalmata* (Boulenger, 1882)

**Description :** A medium sized Indirana Frog. Dorsal surface brown with darker shades on the sides. Lateral and temporal region blackish. Throat and breast mottled with brown rest of the venter white.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.

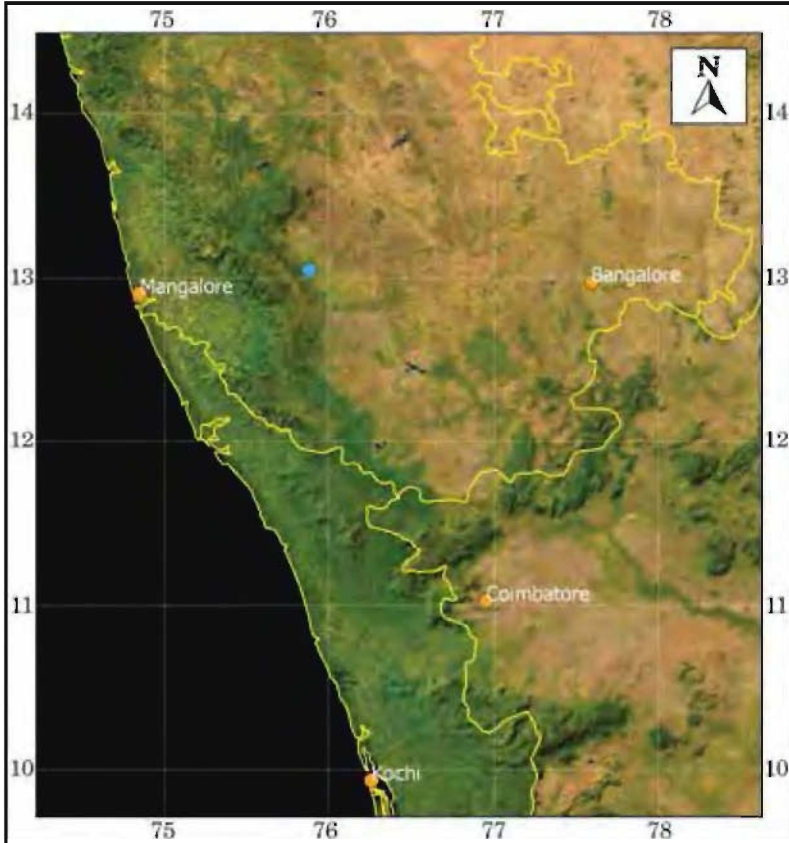


IUCN Status					
CR	EN	VU	NT	LC	DD

## 82. *Indirana tenuilingua* (Rao, 1937)

**Description :** A medium sized Indirana Frog. Dorsum pale brown and the lateral sides dark in colour, upper surface of the snout is white. A dark band from the tip of the snout to the loreal region, another from tympanum to shoulder. Lower jaw bears dark and white longitudinal bands. Dorsal surface covered with fine cutaneous folds. Ventral surface smooth.

**Distribution :** Karnataka part of Western Ghats.



Family: RHACOPHORIDAE

Genus : *Ghatixalus*

IUCN Status

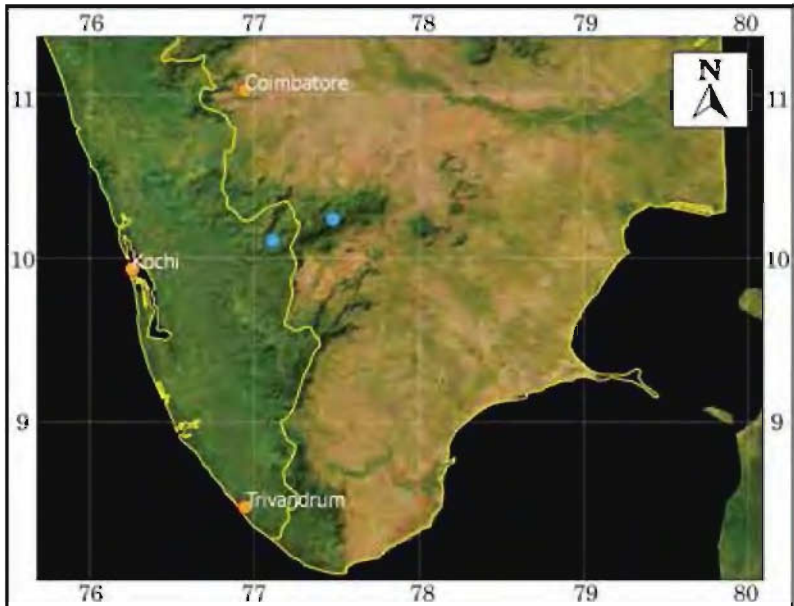


83. *Ghatixalus asterops* Biju, Roelants and Bossuyt, 2008

**Description** : A medium sized tree frog. Dorsally dark grey with brown irregular blotches, loreal and tympanic region light grey with brown spots, lateral side yellow with numerous brown patches; iris brownish, with golden yellow vertical stripes, surrounded by a thin golden ring.



**Distribution** : Kerala and Tamil Nadu part of the Western Ghats.



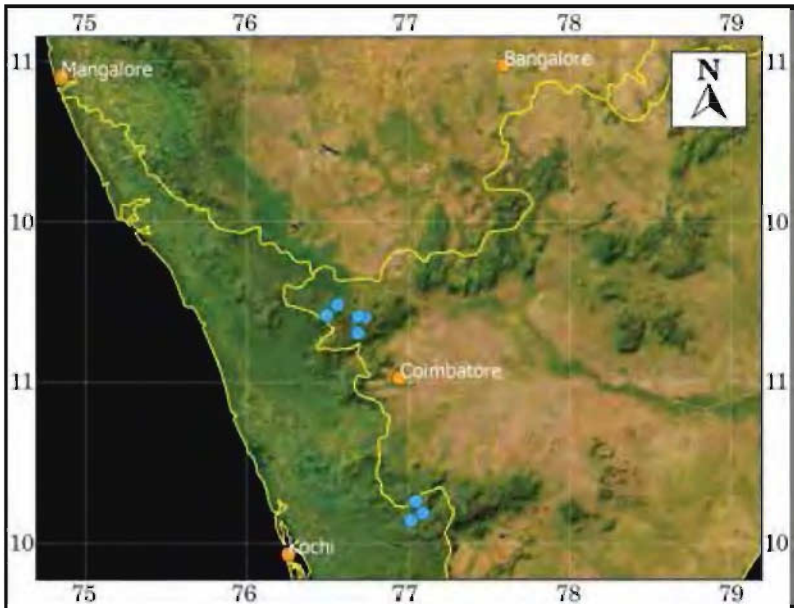
IUCN Status					
CR	EN	VU	NT	LC	DD

#### 84. *Ghatixalus variabilis* (Jerdon, 1853)

**Description :** A medium sized green tree Frog. Dorsally brownish grey to brownish green with irregular dark green or brownish blotches, loreal and tympanic region dark grey with brown spots, lateral side light yellowish brown with dark reticulation; iris brownish, encircled by a golden ring.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



Genus : *Beddomixalus*

IUCN Status



85. *Beddomixalus bijui* Zachariah, Dinesh, Radhakrishnan, Kunhikrishnan, Palot and Vishnudas, 2011

**Description** : A medium sized tree frog. Dorsum yellowish buff coloured with distinct two cream coloured parallel longitudinal stripes; ventral region pale coloured with fine faint black granulations; iris golden brown coloured with fine black reticulations.

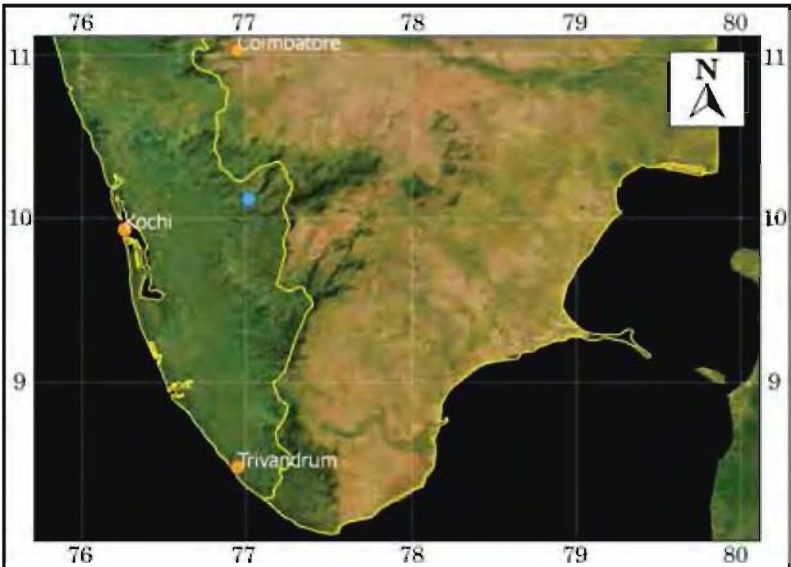


Male



Female

**Distribution** : Kadalar tea estate at Idukki, Kerala.



Genus : *Polypedates*

IUCN Status

CR EN VU NT LC DD

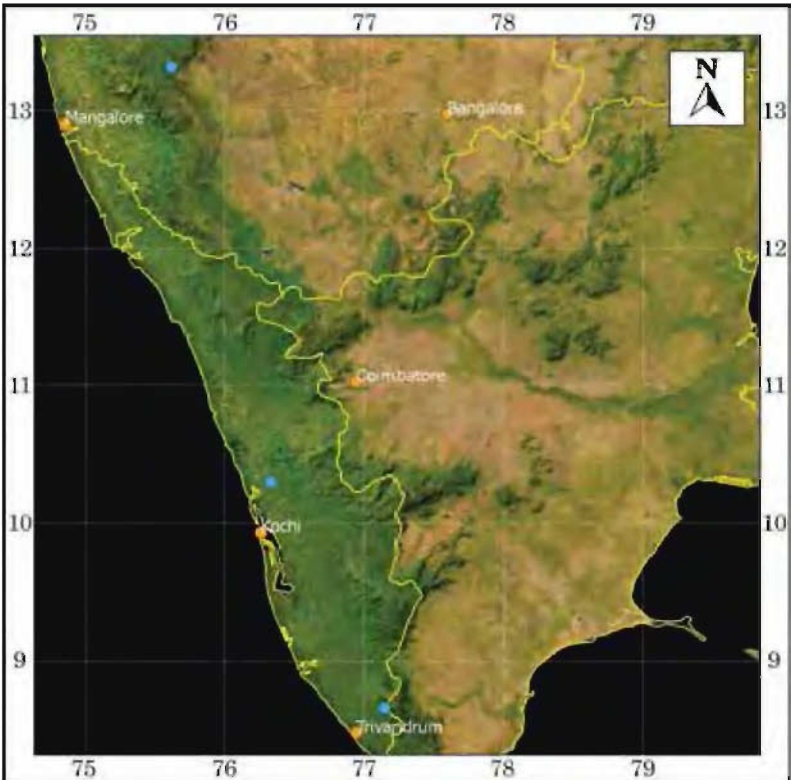
86. *Polypedates occidentalis*

Das and Dutta, 2006

**Description** : A medium to large sized tree Frog. Dorsally cream coloured frog with a dark hourglass shaped marking present on dorsum.



**Distribution** : Karnataka part of the Western Ghats.



IUCN Status					
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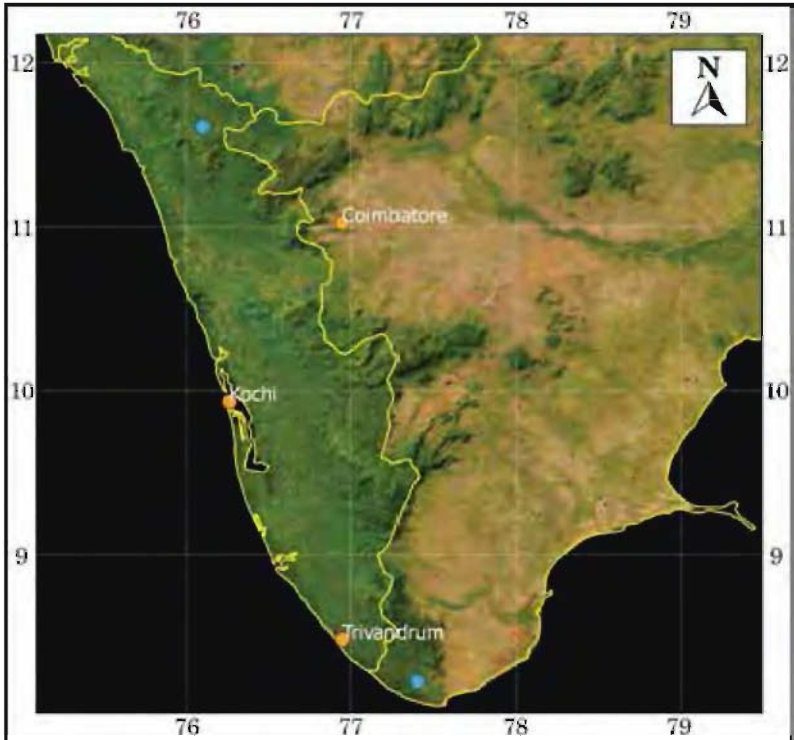
### 87. *Polypedates pseudocruciger*

Das and Ravichandran, 1998

**Description :** A medium sized tree frog. Dorsum yellowish gray with hourglass shaped marking; snout with scattered dark brown spots and fine scattered tubercles. Ventral side un-patterned pale yellow.



**Distribution :** Kerala and Tamil Nadu parts of Western Ghats.



Genus : *Pseudophilautus*

IUCN Status

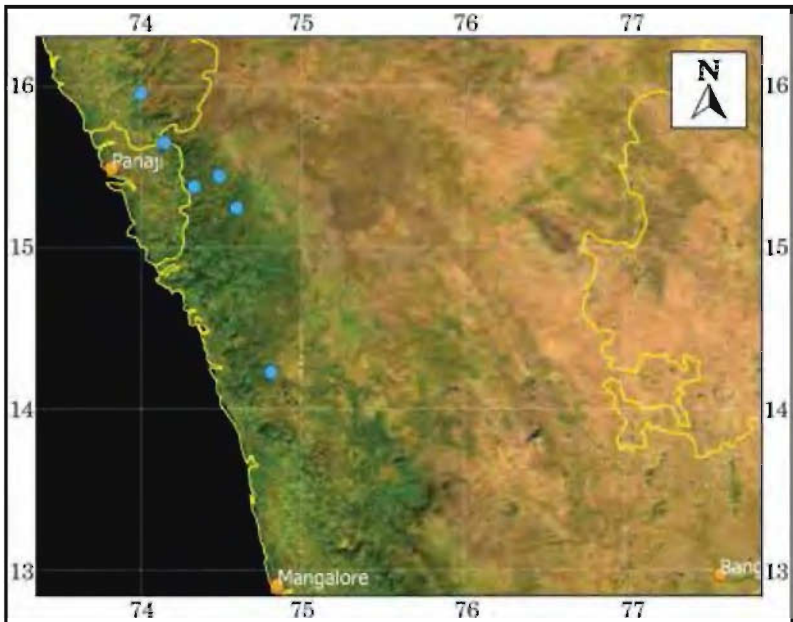


88. *Pseudophilautus amboli*  
(Biju and Bossuyt, 2009)

**Description :** A small sized bush frog. Dorsum uniform blackish brown. Throat distinctly lemon yellow with blackish specks, foot and hand grayish, webbing grayish forelimbs and hind limb with obscure brownish black cross bands.



**Distribution :** Maharashtra, Goa and Karnataka part of the Western Ghats.



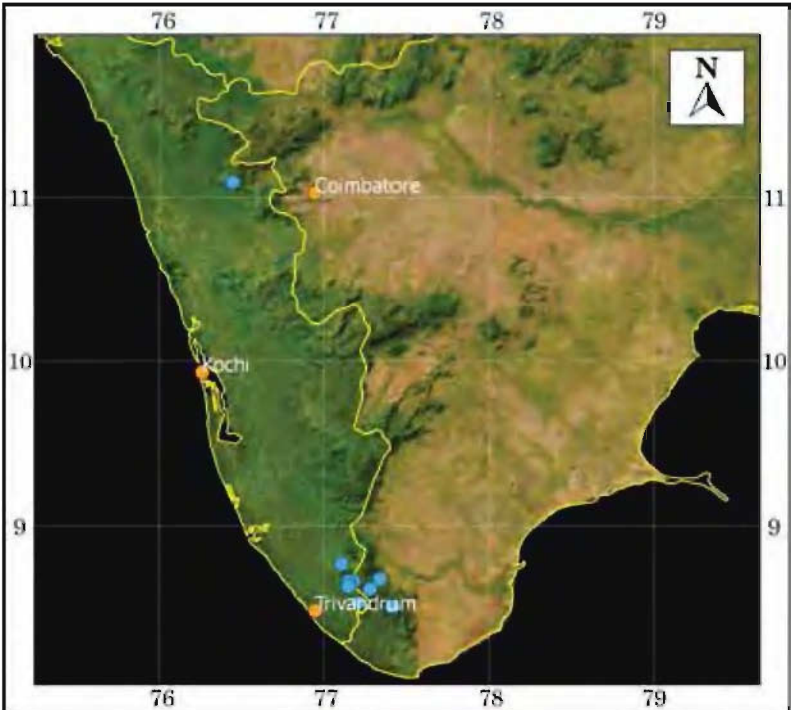
IUCN Status					
CR	EN	VU	NT	LC	DD

89. *Pseudophilautus kani*  
(Biju and Bossuyt, 2009)

**Description :** A small sized bush frog. Dorsally light brownish grey, a pair of dark-brown concave stripes from behind the eye to the level of the hind limb, an inverted triangular dark-brown patch in between the eyes, upper two-thirds of tympanum dark black. Throat grey, belly light grey, limbs with light grey cross bands.



**Distribution :** Kerala part of the Western Ghats.



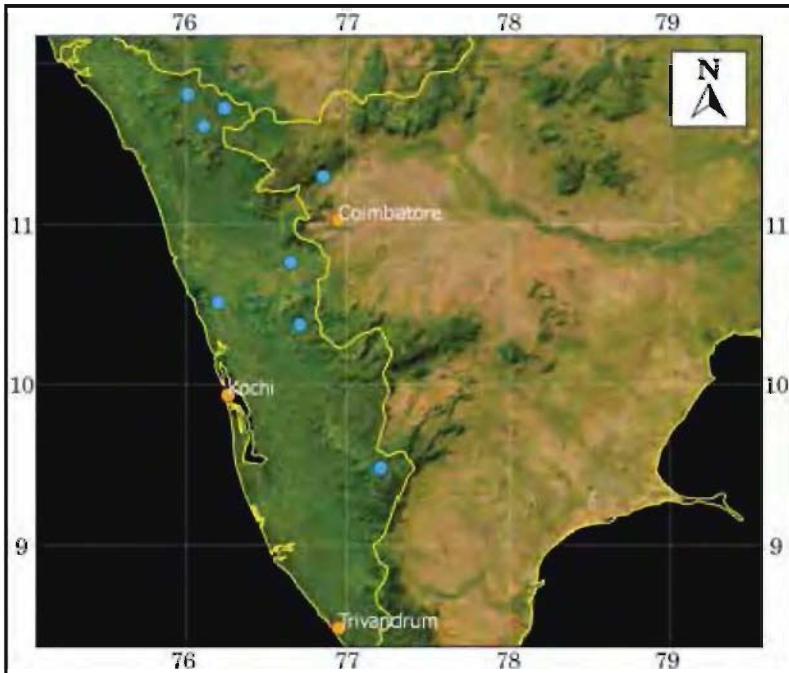
IUCN Status					
CR	EN	VU	NT	LC	DD

90. *Pseudophilautus wynaadensis*  
(Jerdon, 1854)

**Description :** A small sized bush Frog. Dorsum grey brown, a dark-brown band from the half portion of upper eyelid to vent. Snout grey brown, upper two-thirds of tympanum dark black. Either side of snout including loreal and tympanic regions dark brownish black. Limbs light brown with dark cross bands.



**Distribution :** Kerala part of Western Ghats.



Genus : *Raorchestes*

IUCN Status

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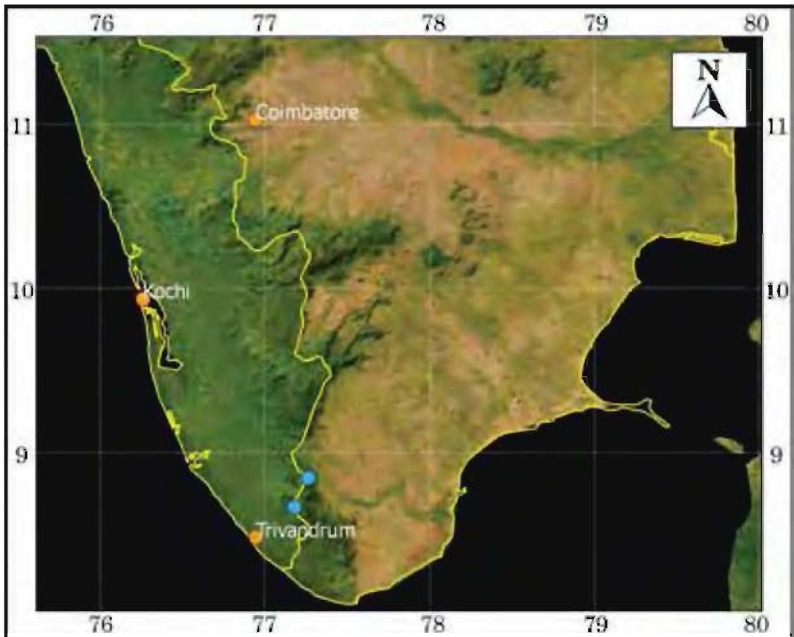
91. *Raorchestes agasthyaensis*

Zachariah, Dinesh, Kunhikrishnan, Das, Raju,  
Radhakrishnan, Palot and Kalesh, 2011

**Description :** A small sized bush Frog. Dorsum light greyish brown with an inverted 'V' shaped prominent broad dark brown mark. Ventral side, whitish with brown granular fine spots on chin, forelimbs and hind limbs; throat and chest paler; belly with whitish glands and brown blotches.



**Distribution :** Bonacaud estate of Thiruvananthapuram, Kerala.



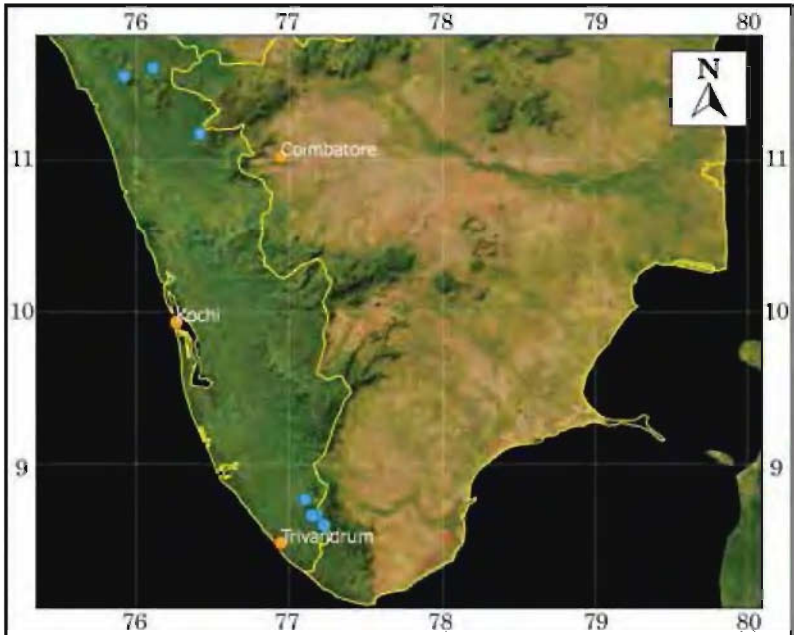
IUCN Status					
CR	EN	VU	NT	LC	DD

**92. *Raorchestes akroparallagi***  
(Biju and Bossuyt, 2009)

**Description :** A small sized variable bush frog. Dorsum uniformly light green with a few scattered grey spots. Lateral region light yellowish, groin light yellowish, forelimbs brownish, thigh with a green line extending from near vent to knee, anterior and posterior margins of thigh light yellow, without markings; shank completely green.



**Distribution :** Karnataka and Kerala part of the Western Ghats.



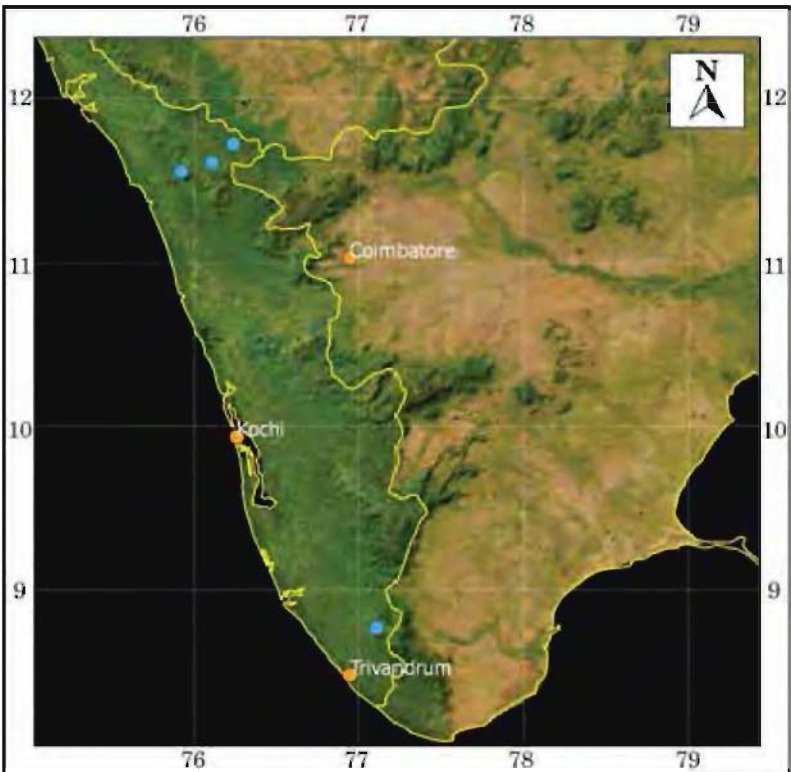
IUCN Status					
CR	EN	VU	NT	LC	DD

93. *Raorchestes anili* (Biju and Bossuyt, 2006)

**Description :** A small sized bush frog. Dorsum light brown with numerous minute blackish brown spots throughout, a triangular grey spot at snout. A broad dark brown inverted 'V' on the back. Ventrally grey with variable sized dark brown specks, forming a vermiculated belly.



**Distribution :** Kerala part of Western Ghats.



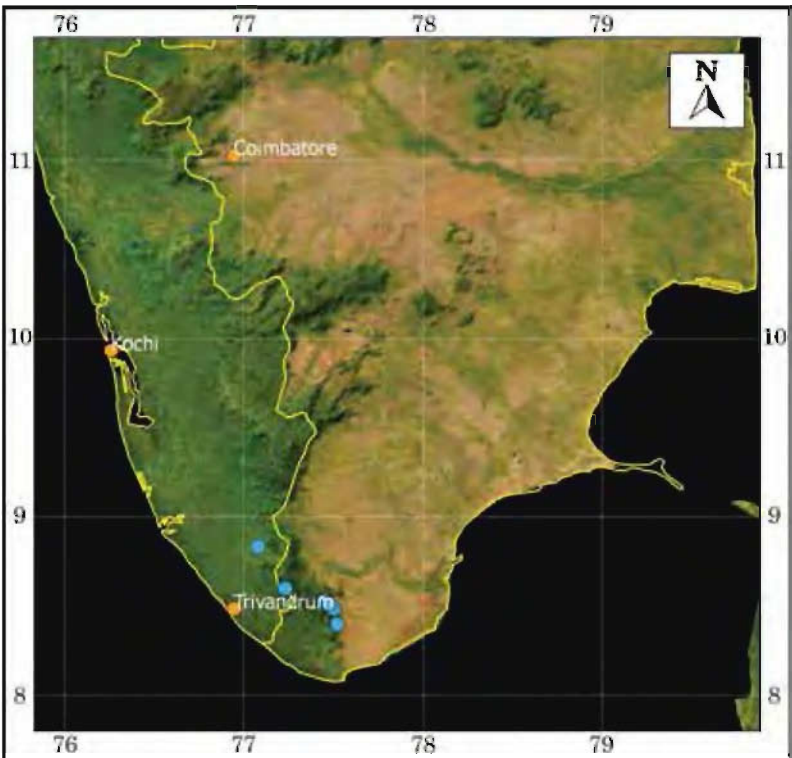
IUCN Status					
CR	EN	VU	NT	LC	DD

94. *Raorchestes beddomii* (Günther, 1876)

**Description:**  
 A small sized bush frog. Dorsum, shagreened to granular; chest, belly, and posterior surface of thighs granular.



**Distribution :**  
 Kerala part of the Western Ghats.



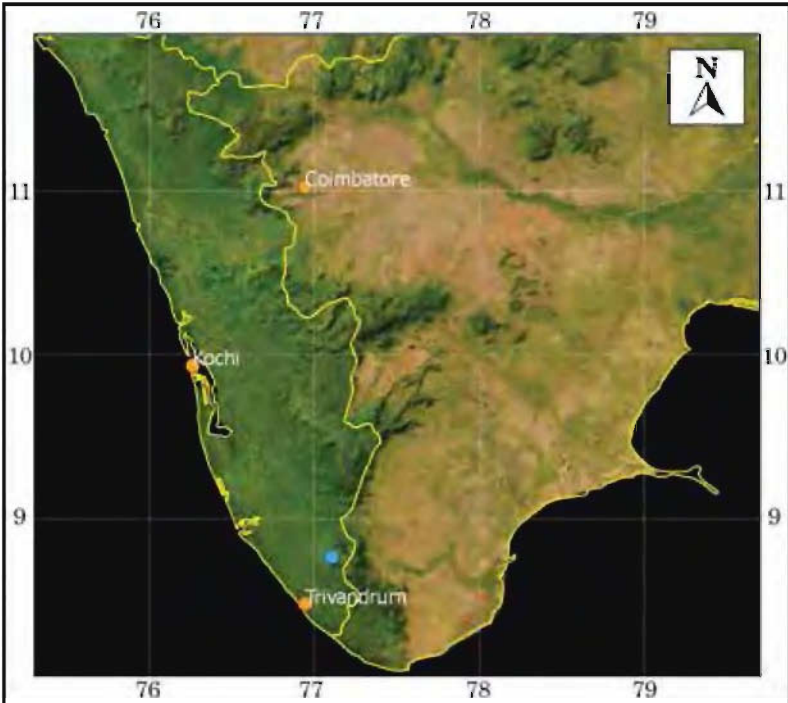
IUCN Status					
CR	EN	VU	NT	LC	DD

95. *Raorchestes bobingeri*  
(Biju and Bossuyt, 2005)

**Description :** A small sized bush Frog. Dorsum uniform leaf green without any markings, lateral sides red without any markings, upper arm yellowish, hand yellow-red, finger tips light red; ventrally white or slightly light yellow, throat, and hands and feet light yellow.



**Distribution :** Kerala part of the Western Ghats.

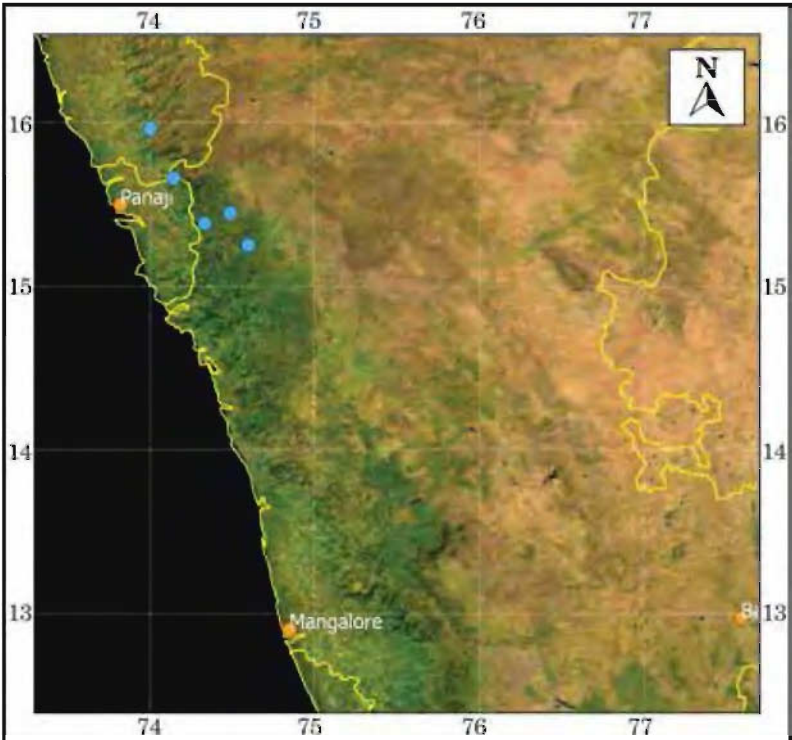


IUCN Status					
CR	EN	VU	NT	LC	DD

96. *Raorchestes bombayensis* (Annandale, 1919)

**Description :** A small sized bush Frog. Dorsum dark brown; venter greenish yellow; skin more or less rough with small-scattered warts.

**Distribution :** Maharashtra, Goa and Karnataka part of the Western Ghats.



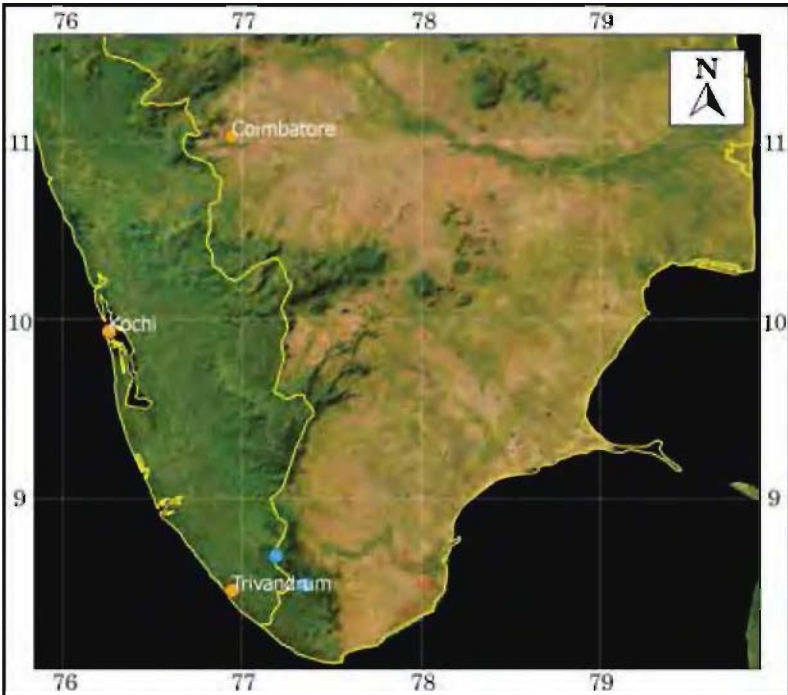
IUCN Status					
CR	EN	VU	NT	LC	DD

97. *Raorchestes chalazodes* (Günther , 1876)

**Description :** A small sized bush frog. Dorsum uniform greenish grey, scattered white tubercles on posterior half of dorsum, loreal and tympanic regions bluish grey, forelimbs and hind limbs bluish grey with white tubercles; ventral side greyish.



**Distribution :** Kerala part of the Western Ghats.



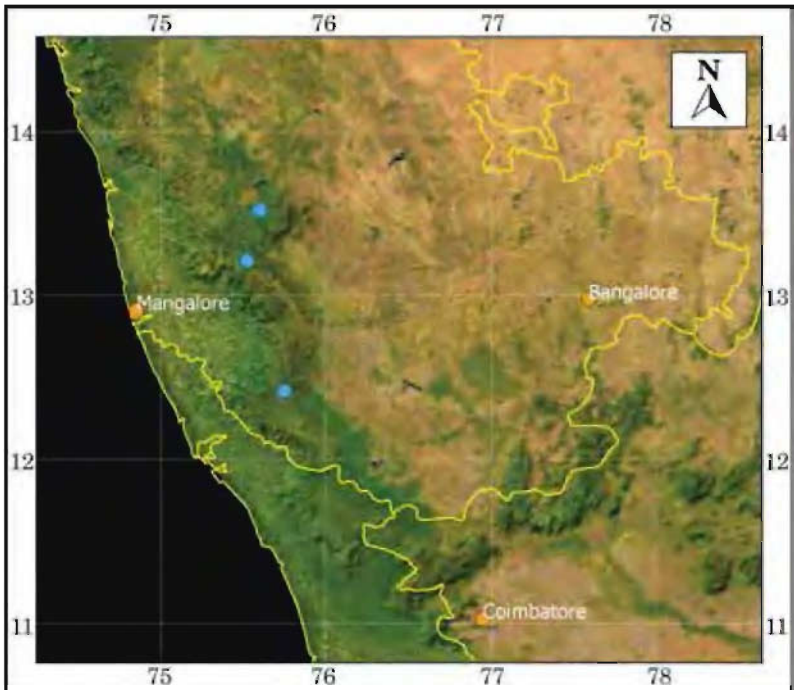
IUCN Status					
CR	EN	VU	NT	LC	DD

98. *Raorchestes charius*( Rao, 1937)

**Description** : A small sized bush frog. Dorsum usually light brown with various numbers of deep-brown irregular patches, ventral part of thighs and webbing whitish. Groin and posterior part of the thighs are invariably uniform brownish black with large yellow blotches.



**Distribution** : Karnataka and Kerala part of the Western Ghats.



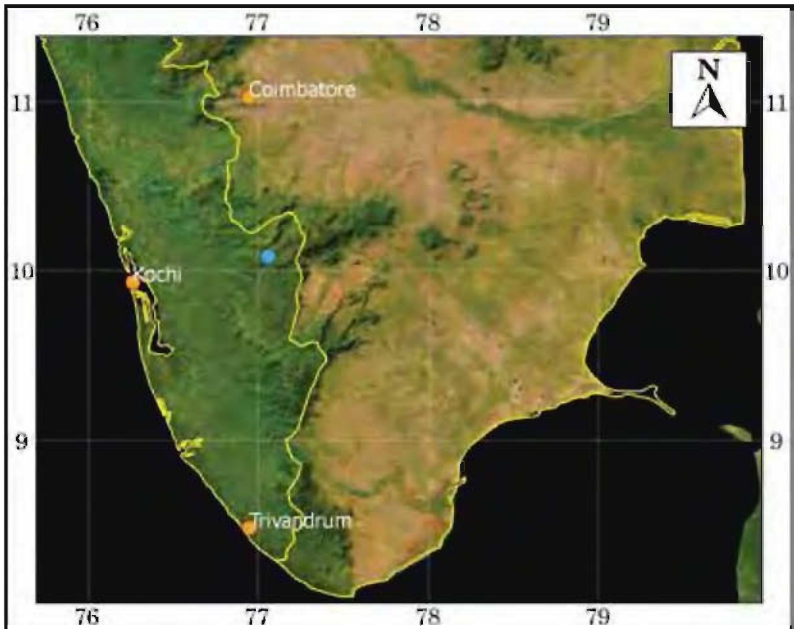
IUCN Status					
CR	EN	VU	NT	LC	DD

**99. *Raorchestes chlorosomma***  
(Biju and Bossuyt, 2009)

**Description :**  
A small sized green eyed bush frog. Dorsum light grey to brown with irregular spots. Groin and posterior surface of thigh light grey to brown, lateral side brown with light grey spots. Ventral side whitish, throat light grey with minute greyish spots.



**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

100. *Raorchestes chotta* (Biju and Bossuyt, 2009)

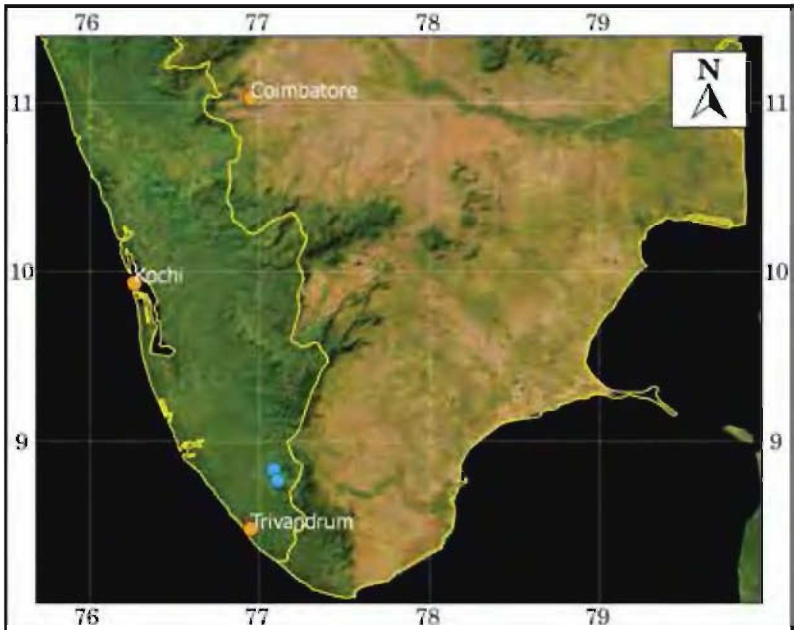
**Description :**

A minute bush frog. Dorsum yellowish grey with various numbers of light-brown, tan, and brown markings. Ventral side off white, with various numbers of brown, light-grey and pale-yellow spots forming a vermiculated pattern, throat dark brownish yellow, margins with dark bands interrupted with white bands, foot and hand light grey.



throat dark brownish yellow, margins with dark bands interrupted with white bands, foot and hand light grey.

**Distribution :** Kerala part of the Western Ghats.



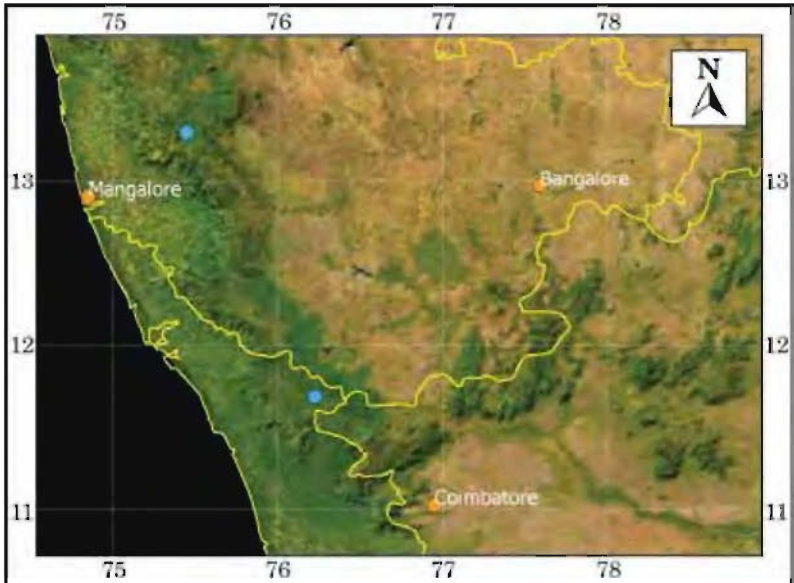
IUCN Status					
CR	EN	VU	NT	LC	DD

101. *Raorchestes chromasynchronsi*  
(Biju and Bossuyt, 2009)

**Description** : A small sized green bush frog. Dorsum uniform dark green, completely extended to lateral side of snout, and loreal and tympanic regions, groin light yellow with brown blotches, posterior surface of thighs dark brown, and anterior surface of thighs and groins dark brown with yellow blotches, lateral side light yellowish green, ventral side light yellow, hands and feet greyish brown.



**Distribution** : Karnataka and Kerala part of the Western Ghats.

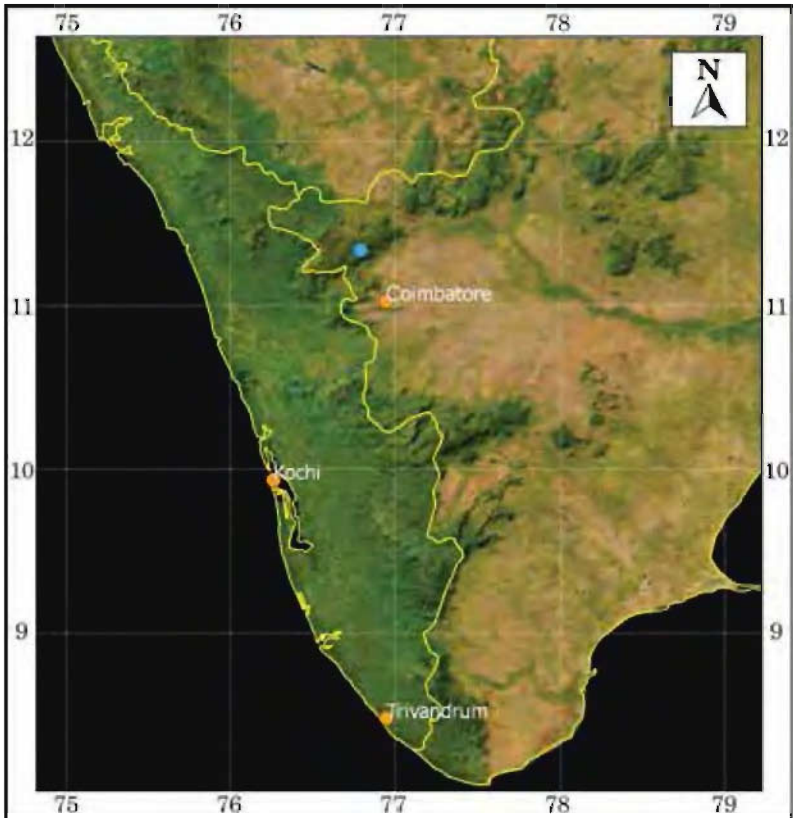


IUCN Status					
CR	EN	VU	NT	LC	DD

102. *Raorchestes coonoorensis*  
(Biju and Bossuyt, 2009)

**Description :** A small sized bush frog. Dorsum light reddish brown, a light black stripe between the eyes forming a triangular grey coloured snout with blackish spots. A pair of brown concave stripes running from behind the eye to the vent, sparsely uniting at the top, a light brown inverted triangular marking between the eyes. Ventral side grey with variable sized dark brown specks.

**Distribution :** Tamil Nadu part of the Western Ghats.



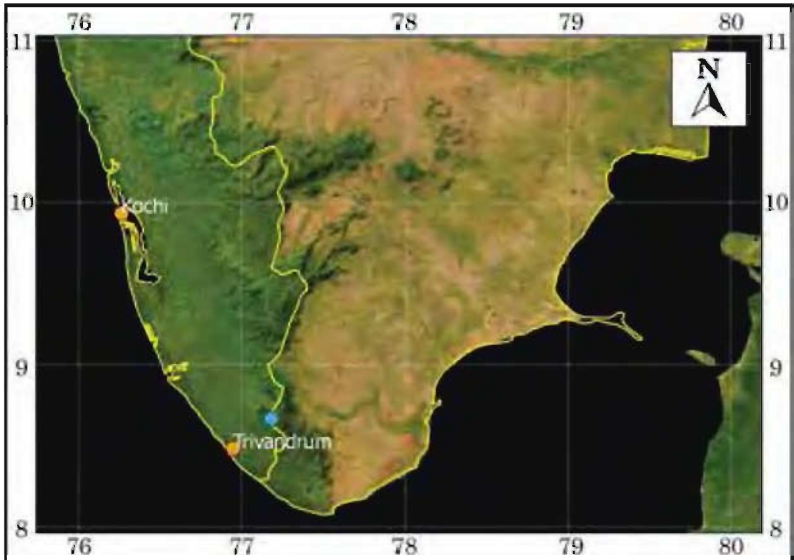
IUCN Status					
CR	EN	VU	NT	LC	DD

103. *Raorchestes crustai* Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011

**Description** : A small sized canopy bush frog. Dorsum brown to green with inverted 'V' shaped prominent broad dark brown mark. Ventral part of the head brownish with fine glandular spots, light orange colour on the throat, chest brownish glandular spots; belly dark orange extending to forelimbs, palm and the thighs; disc on forelimbs yellowish.



**Distribution:** Bonacaud Estate of Thiruvananthapuram, Western Ghats.



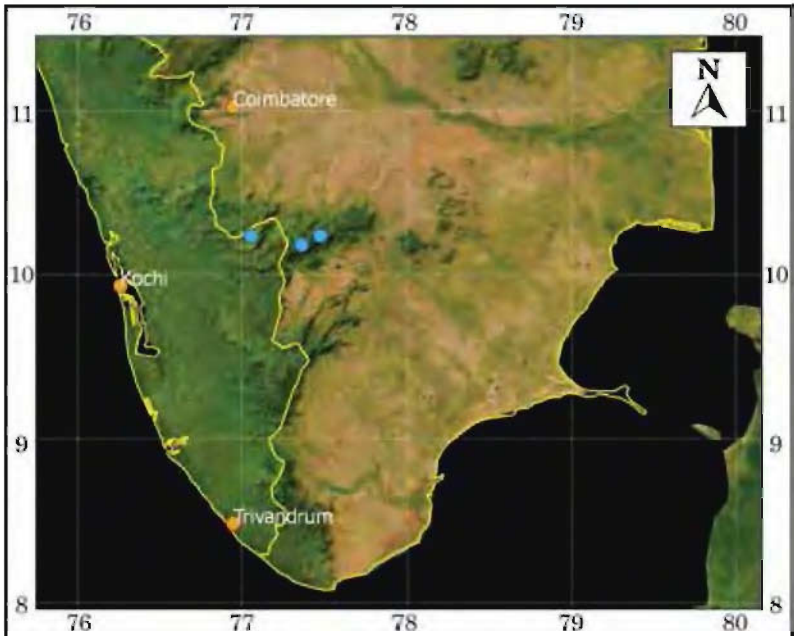
IUCN Status					
CR	EN	VU	NT	LC	DD

104. *Raorchestes dubois*  
(Biju and Bossuyt, 2006)

**Description :** A small sized bush frog. Dorsally pale grayish green tinged with shining silver and cobalt violet, a dark grey inverted 'V' on the dorsum. Ventrally with dark and light patches and spots; side of the belly with light yellowish brown blotches.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.





105. *Raorchestes flaviventris*  
Boulenger, 1882

**Description :** A medium sized bush frog. Dorsal parts of head and dorsum, and flanks brown with cream dots. Upper lip cream-coloured. Forelimb, dorsal part of thigh, tibia and foot, and posterior part of thigh brown with cream dots. Throat and chest dark brown, margin of throat cream-coloured, belly and ventral part of thigh brown marbled with cream, webbing dark brown.

**Distribution :** Known from an imprecise locality 'Malabar' of Western Ghats.

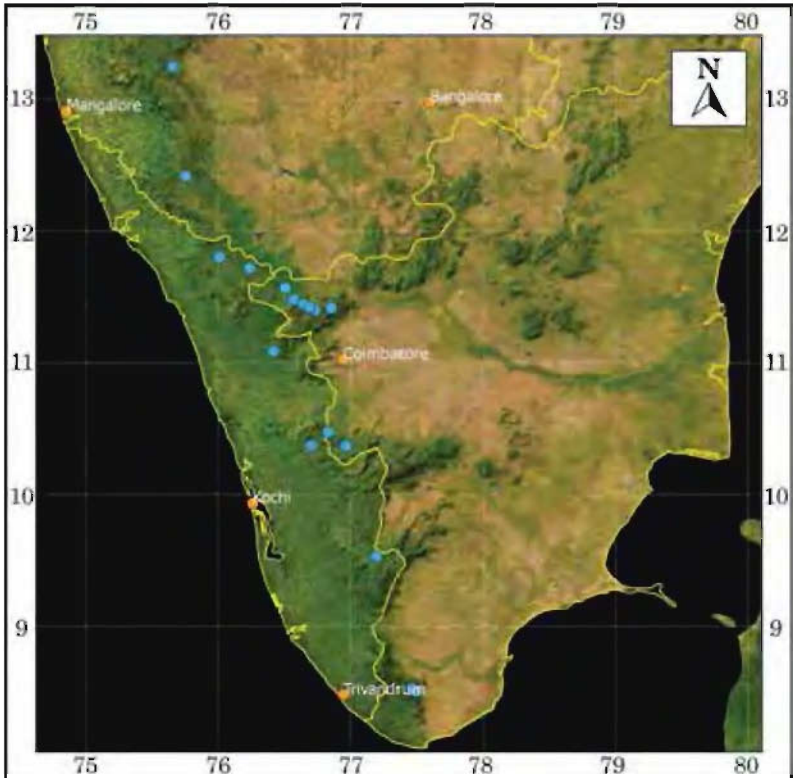
IUCN Status					
CR	EN	VU	NT	LC	DD

106. *Raorchestes glandulosus* (Jerdon, 1854)

**Description :** A small sized bush Frog. Dorsal skin is smooth with green color rarely with scattered light-brown spots. Lateral sides of the body generally granular with metallic yellow shades. Ventral surface immaculate more or less spotted.



**Distribution :** Karnataka, Kerala and Tamil Nadu part of the Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

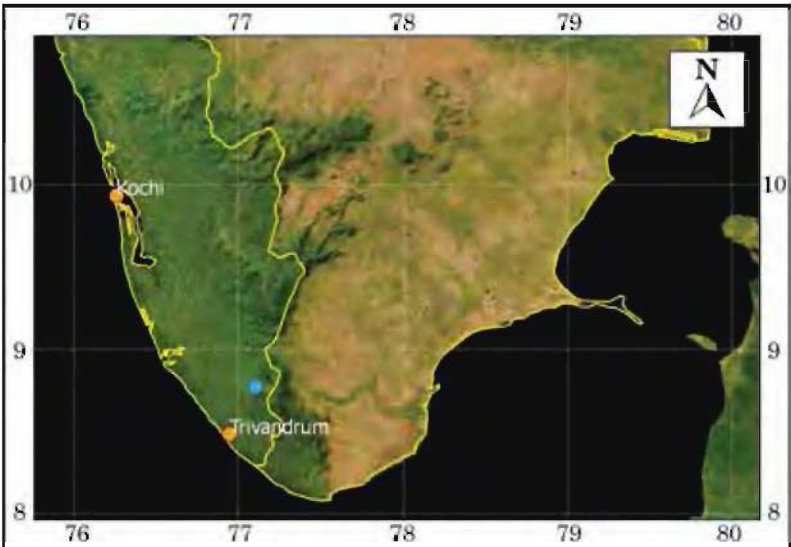
107. *Raorchestes graminirupes*  
(Biju and Bossuyt, 2005)

**Description :** A small sized canopy bush Frog. Dorsum grayish brown with various amounts of irregular black patches, a brownish-black band between the eyes, loreal and tympanic regions



dark brown; inguinal region vermiculated with brown-yellow, tinted with bluish green. Ventrally light gray with dark brown specks of variable size, forming a vermiculated belly; feet and hands light gray with dark brownish black margins.

**Distribution :** Kerala part of the Western Ghats.

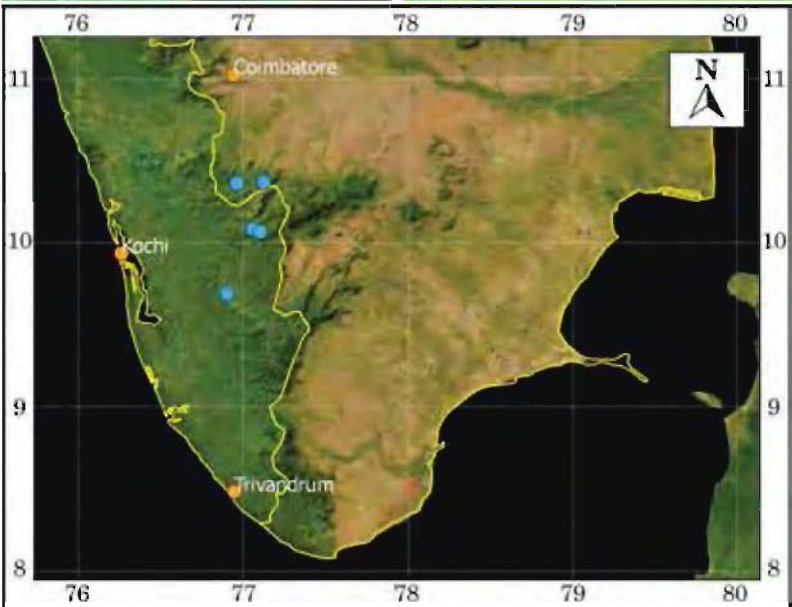


IUCN Status					
CR	EN	VU	NT	LC	DD

108. *Raorchestes griet* (Bossuyt, 2002)

**Description :** A small sized bush frog. Dorsum light greyish brown dorsum with various numbers of irregular black patches. A pair of light-brown concave stripes running from behind the eye to the vent. Ventrally granular.

**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

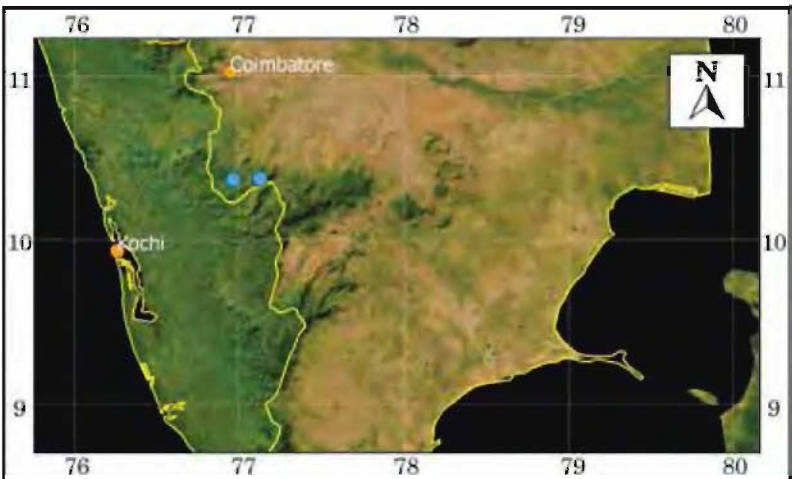
109. *Raorchestes jayarami*  
(Biju and Bossuyt, 2009)

**Description:** A small sized bush frog. Dorsum uniform light green, without markings, lateral side white with bluish black blotches, loreal and tympanic regions light green. Lower arm light green, upper arm and hand yellowish,



thigh with a green line extending from dorsum to knee.

**Distribution:** Tamil Nadu part of the Western Ghats.



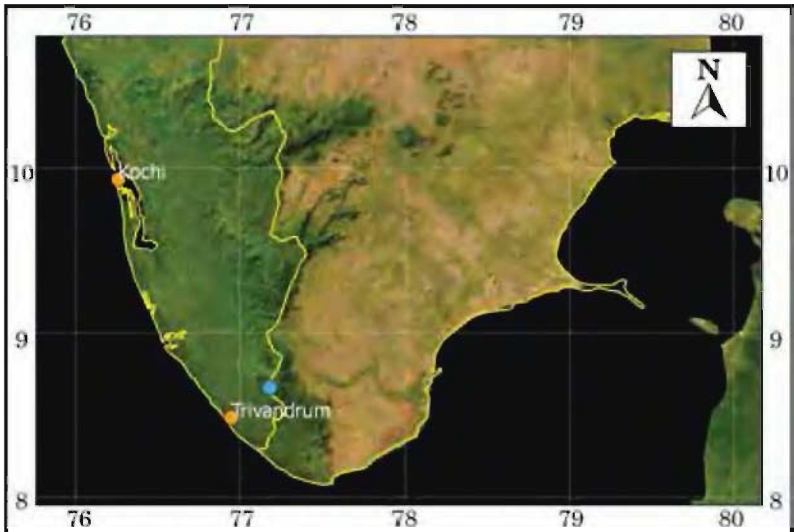
IUCN Status					
CR	EN	VU	NT	LC	DD

110. *Raorchestes johnceei*  
 Zachariah, Dinesh, Kunhikrishnan,  
 Das, Raju, Radhakrishnan,  
 Palot and Kalesh, 2011

**Description :** A small sized bush Frog. Dorsum bicoloured with two lateral orange yellow stripes with a middle black stripe from back of orbit to vent. Ventral side of the head pale white with granular brown spots, chest and belly white with dark brown blotches. Fore limb pale with slight yellow colour in the II, III and IV finger.



**Distribution :** Bonacaud estate of Thiruvananthapuram, Western Ghats.



## IUCN Status

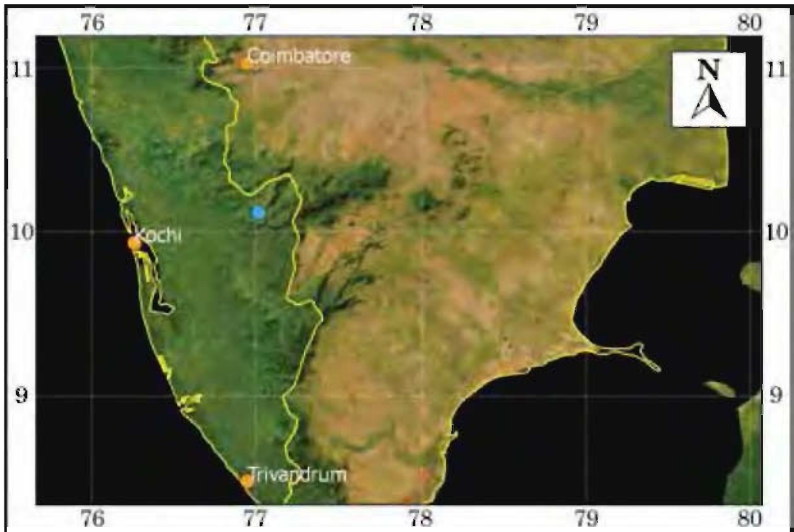


111. *Raorchestes kadalarensis*  
 Zachariah, Dinesh, Kunhikrishnan,  
 Das, Raju, Radhakrishnan,  
 Palot and Kalesh, 2011

**Description :** A small sized bush Frog. Dorsum grey brown with dark brown hour-glass shaped mark in occipital region; lower end of the hour-glass shaped mark extending as two lateral dark brown stripes to groin region. Ventral side light brown; belly pale with irregular brown blotches.



**Distribution :** Kadalar tea estate, Idukki, Kerala, Western Ghats.



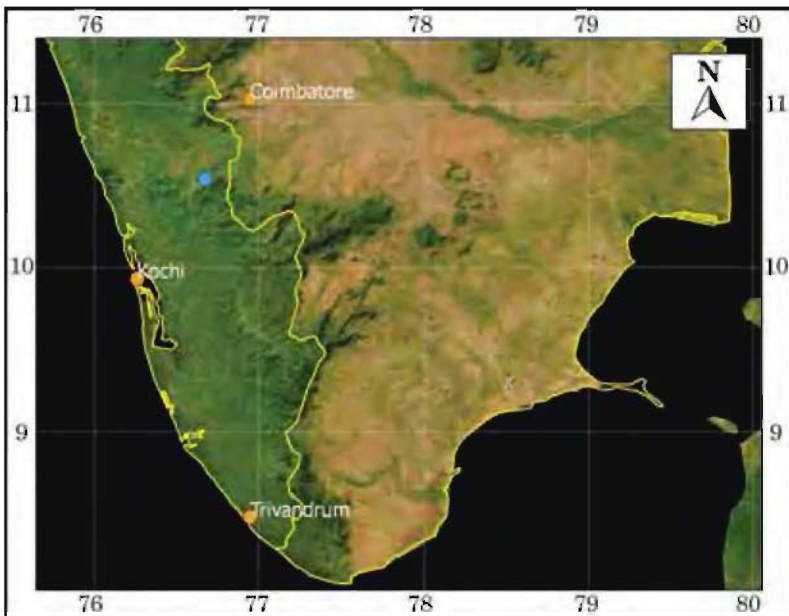
IUCN Status					
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**112. *Raorchestes kaikatti***  
(Biju and Bossuyt, 2009)

**Description :** A small sized bush frog. Dorsum dark greyish brown with irregular light-grey and dark-brown blotches, dark horizontal grey band in between the eyes. Loreal and tympanic regions dark brown, lateral abdominal area light grey with white and dark grey spots, groin and margin of thighs dark brown. Ventrally white.



**Distribution :** Kerala part of the Western Ghats.



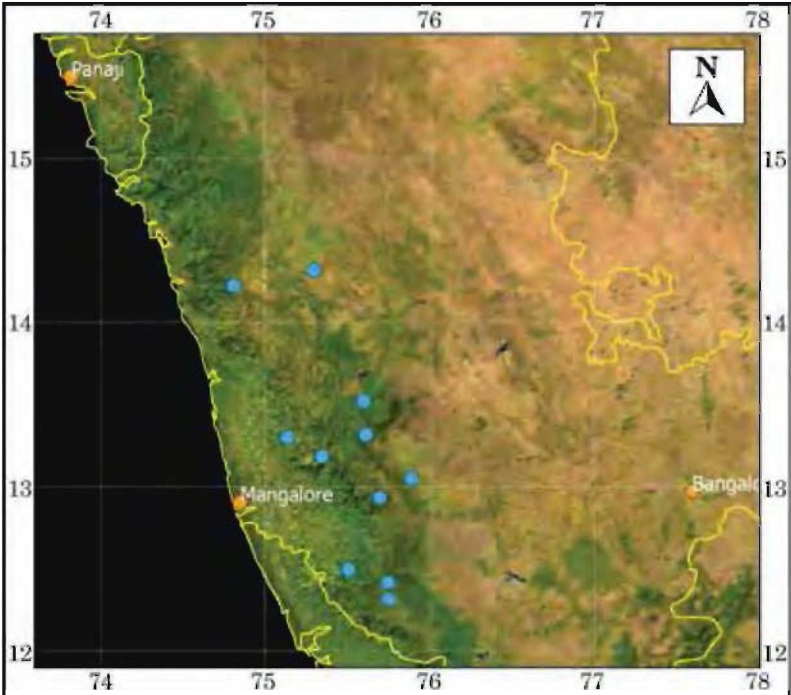
IUCN Status					
CR	EN	VU	NT	LC	DD

113. *Raorchestes luteolus*  
(Kuramoto and Joshy, 2003)

**Description :** A small sized bush frog. Dorsum yellowish to creamish white with or without fine brown spots, ventral granulations intensive and round. Iris colour light brown encircled with a bluish green outer ring.



**Distribution :** Karnataka part of the Western Ghats.



IUCN Status					
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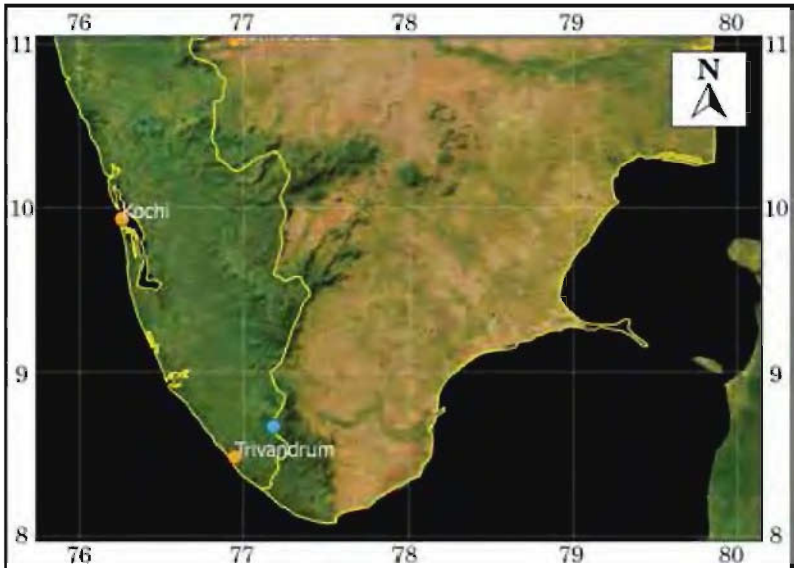
114. *Raorchestes manohari*

Zachariah, Dinesh, Kunhikrishnan, Das, Raju,  
Radhakrishnan, Palot and Kalesh, 2011

**Description :** A small sized bush frog. Dorsal skin glandular with bright yellow granules interspersed with fine brown spots. Upper half of the dorsum dark brown with prominent granular spots. Limbs and digits uniform without any cross bars. Iris, silvery blue with fine black reticulations. Ventral part of the throat, body and limbs whitish.



**Distribution :** Bonacaud estate of Thiruvananthapuram, Western Ghats.



IUCN Status					
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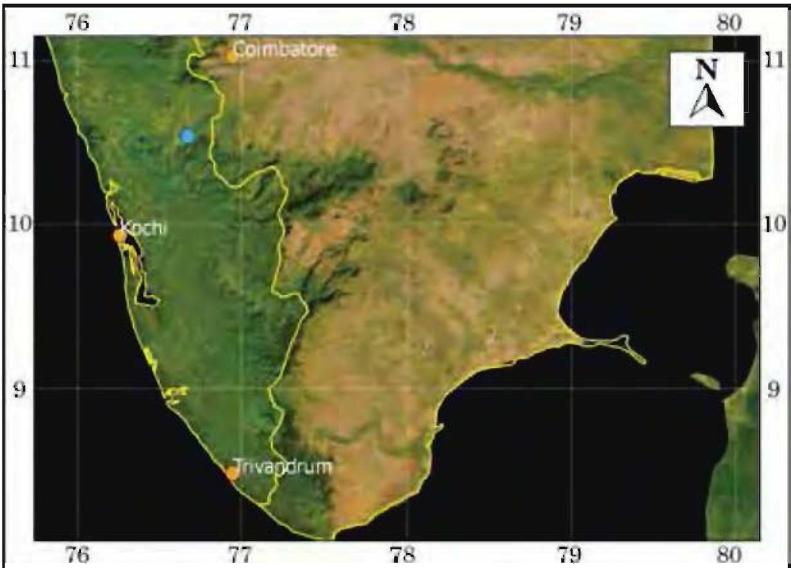
**115. *Raorchestes marki***  
(Biju and Bossuyt, 2009)

**Description :** A small sized bush frog. Dorsum dark grey, with a brownish concave stripe running from behind the eye. A brownish stripe between the eyes, upper eyelids light



grey, loreal and tympanic regions light greyish brown. Groin light grey, minutely marbled with white. Limbs light brown with light brown cross bands. Ventrally light grey.

**Distribution :** Kerala part of the Western Ghats.



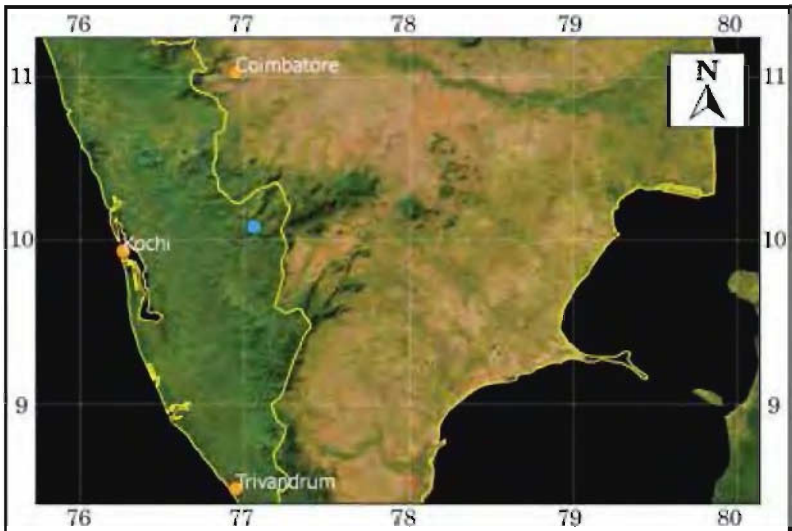


116. *Raorchestes munnarensis*  
Biju and Bossuyt, 2009

**Description** : A small sized bush frog. Dorsum light grey, with a dark brownish grey inverted 'V' from the snout to the middle of the body and minute black spots. Groin light brownish yellow, marbled with brown. Ventrally dark brownish black, margin of the lower jaw golden yellow; throat light-brownish yellow, lateral side yellowish brown marbled with dark-brown spots.



**Distribution** : Distributed in Kerala part of the Western Ghats.



IUCN Status					
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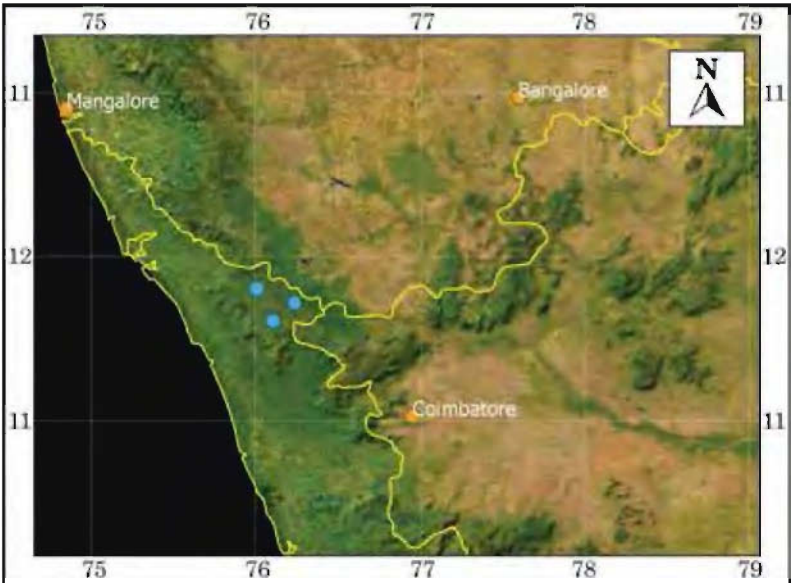
117. *Raorchestes nerostagona*  
(Biju and Bossuyt, 2005)

**Description :** A small sized canopy bush frog. Dorsum and dorsal side of limbs light brown with dark green and reddish brown irregular patches of varying size,



laterally bluish black vermiculated with brown patches; Ventrally off white with various amounts of brown, light grey and light yellow spots forming a vermiculated pattern; throat grey; lips white with dark bands.

**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
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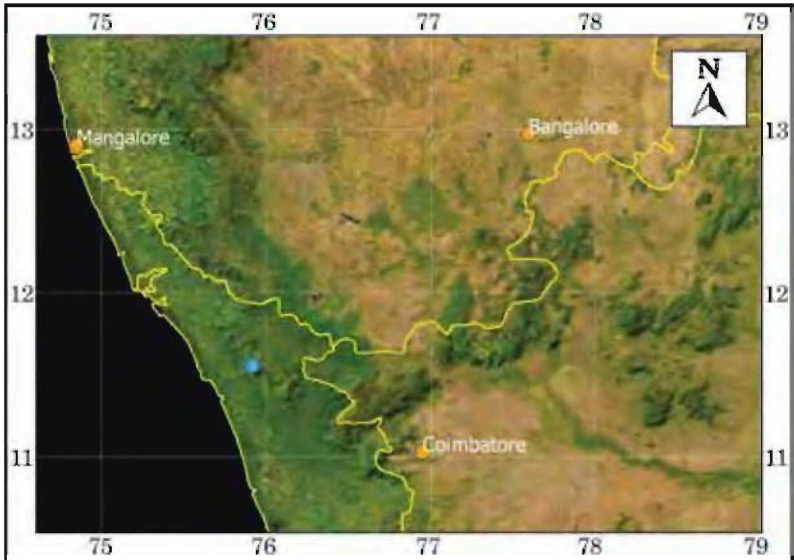
**118. *Raorchestes ochlandrae***  
 (Gururaja, Dinesh, Palot,  
 Radhakrishnan and Ramachandra, 2007)

**Description :** A small sized reed bush frog. Dorsum fleshy brown with two lateral golden yellow bands bordered by dark brown from upper eyelid to the posterior part of the flanks.



Venter granular and uniform cream. Granulation on femur, tibia, tarsus and entire foot, brown ventrally. Eyes with horizontal black pupil surrounded by golden yellow dentition like marks interspersed with black.

**Distribution :** Kerala part of the Western Ghats.



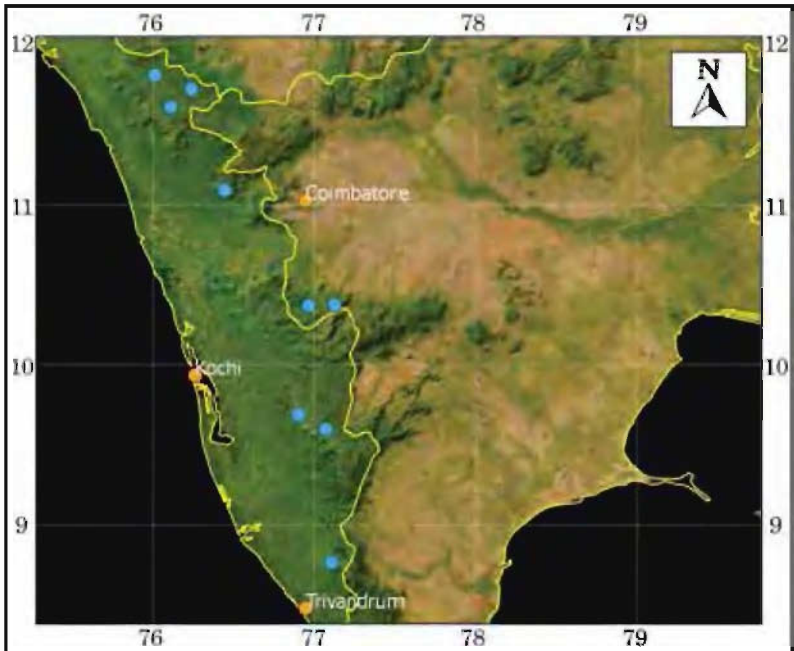
IUCN Status					
CR	EN	VU	NT	LC	DD

**119. *Raorchestes ponmudi***  
(Biju and Bossuyt, 2005)

**Description :** A small sized canopy bush frog. Dorsum light gray yellow with a few scattered white blotches and minute black spots, with a faint “X” mark on the back. Ventrally light gray, throat gray with dark brown specks of variable size.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



IUCN Status					
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120. *Raorchestes ravii*

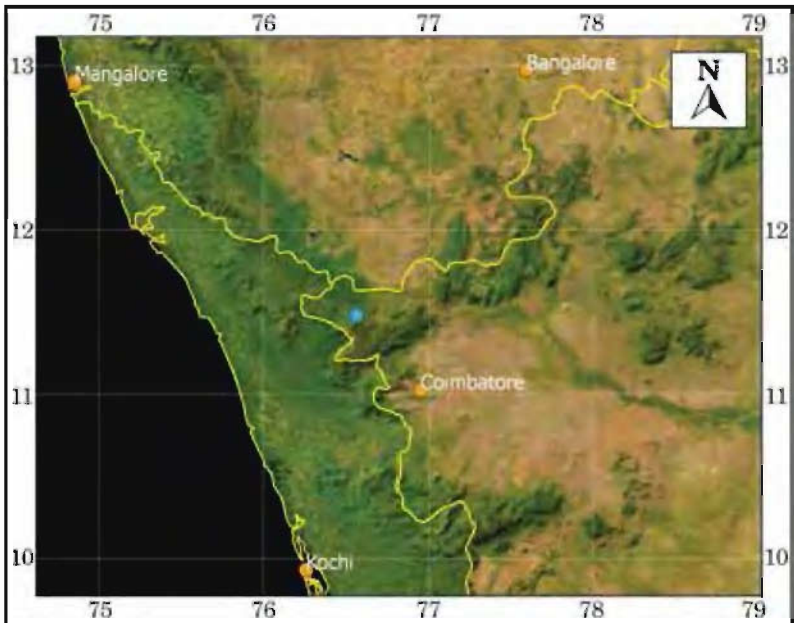
Zachariah, Dinesh, Kunhikrishnan, Das, Raju,  
Radhakrishnan, Palot and Kalesh, 2011

**Description :** A small sized bush frog. Dorsum light brown, with a faint 'H' shaped brown mark having upper two short arms; limbs and digits irregularly cross



barred; narrow brown line connecting the eyelids. Throat blackish and rest of the ventral side smooth whitish.

**Distribution :** Naduvattam, Nilgiri of Western Ghats.



IUCN Status					
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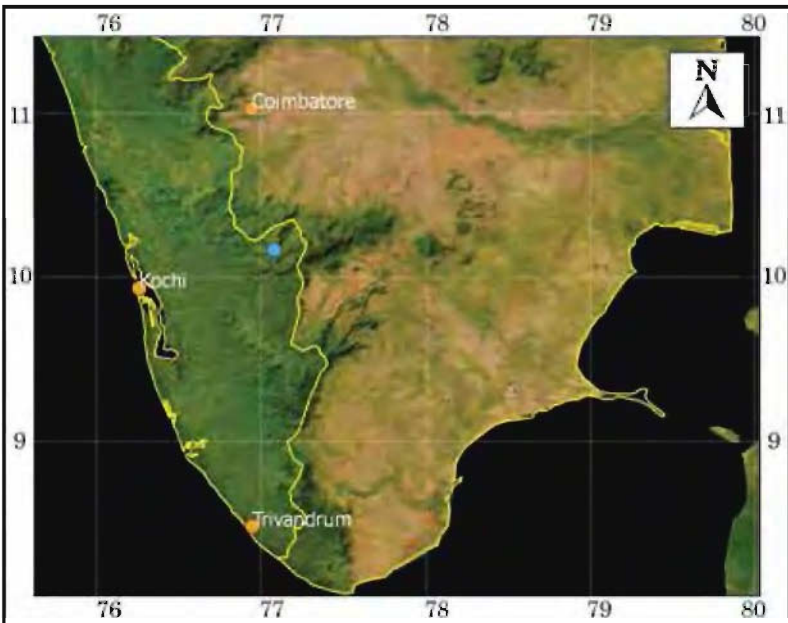
121. *Raorchestes resplendens* Biju, Shouche, Dubois, Dutta and Bossuyt, 2010

**Description :** A medium sized ground dwelling bush frog. Dorsum deep brick red, which sharply contrasts with the black filling irregular furrows on the dorsum. Dorsal parts of limbs, with glandular swellings surrounded with black patches.



Ventrally light yellow, with irregular oval to hexagonal granulations.

**Distribution :** Kerala part of the Western Ghats.



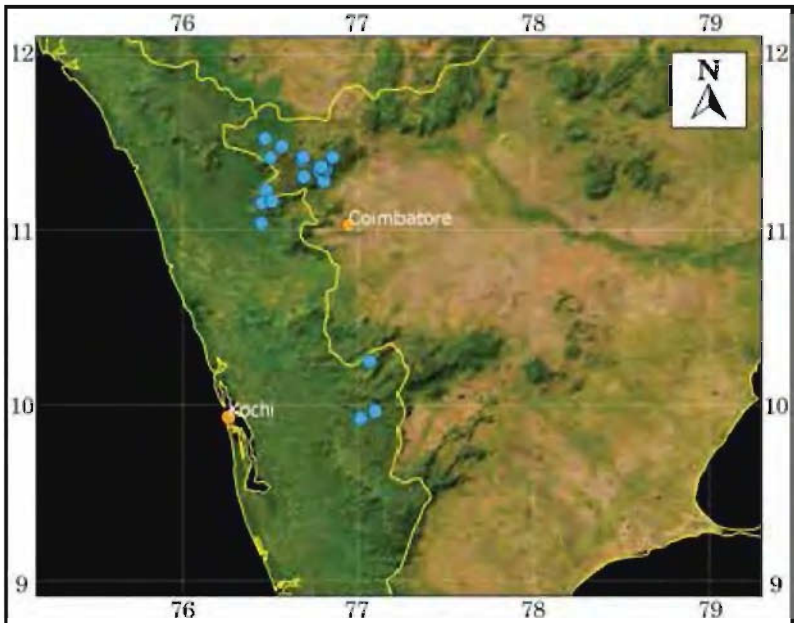
IUCN Status					
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122. *Raorchestes signatus* (Boulenger, 1882)

**Description :** A small sized bush frog. Dorsal color varies from light-greyish brown to dark red. Eye markings vary from dark reddish brown iris with radiating golden stripes to light brown iris without stripes. Lateral side greyish white with light brown patches, ventral side light grey with irregular light-brown spots.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



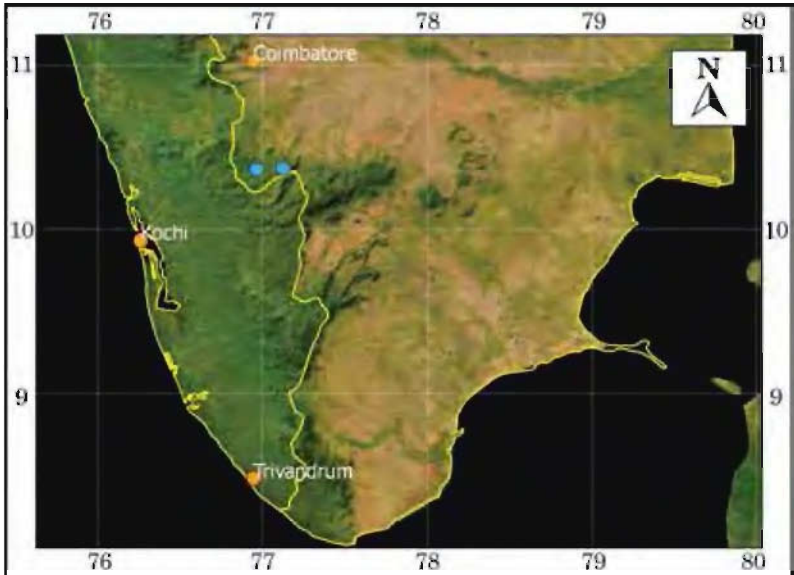
IUCN Status					
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123. *Raorchestes sushili*  
(Biju and Bossuyt, 2009)

**Description :** A small sized bush frog. Dorsum brown with various numbers of deep brown irregular spots, a dark-grey stripe between the eyes forming a triangular grey snout. A broad dark brown inverted 'V' on the back, from the level of the forelimb, reaching to the level of the hind limb, numerous minute blackish brown spots throughout the dorsum. Ventrally greyish white.



**Distribution :** Tamil Nadu part of the Western Ghats.



IUCN Status					
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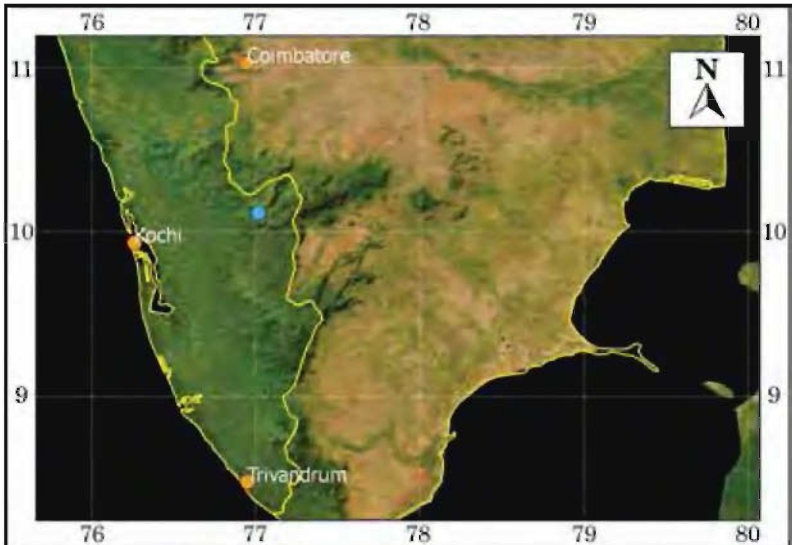
124. *Raorchestes theuerkaufi*

Zachariah, Dinesh, Kunhikrishnan, Das, Raju,  
Radhakrishnan, Palot and Kalesh, 2011

**Description :** A small sized bush frog. Dorsum brick red with irregular dark markings including limbs; a bright orange coloured line from the tip of snout to supratympanic folds on either sides; lateral sides glandular, blotched; iris copper coloured; tips of digits white and ventral side white.



**Distribution :** Kadalar tea estate, Idukki, Western Ghats.



## IUCN Status

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125. *Raorchestes thodai*

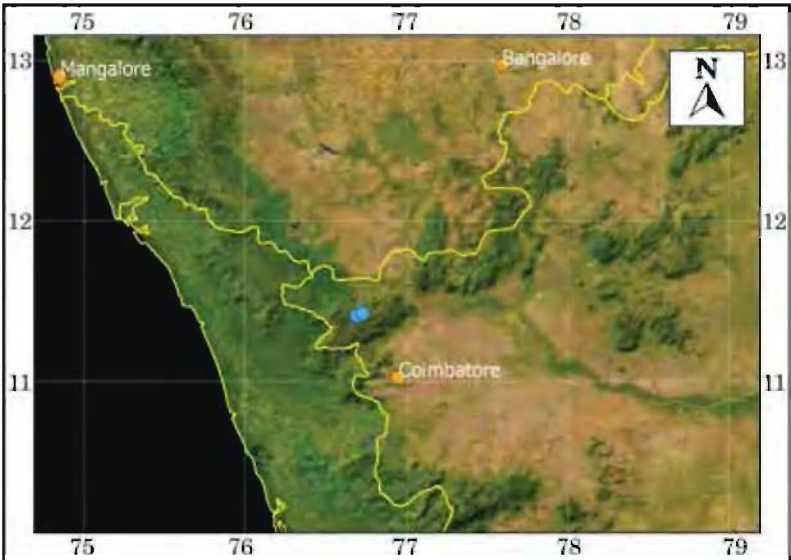
Zachariah, Dinesh, Kunhikrishnan, Das, Raju,  
Radhakrishnan, Palot and Kalesh, 2011

**Description** : A small sized bush frog. Dorsum golden yellow colour with light greenish tinge, a pair of faint thin dorsolateral brown bands behind the orbit to hind limbs; irregular glandular blotches on the dorsum;



upper eyelid bordered by orange colour; lateral side golden yellow with blotched thicker glands. Ventral side, light yellow coloured with dark spots; discs buff coloured.

**Distribution** : Ooty, Nilagiri of Western Ghats.



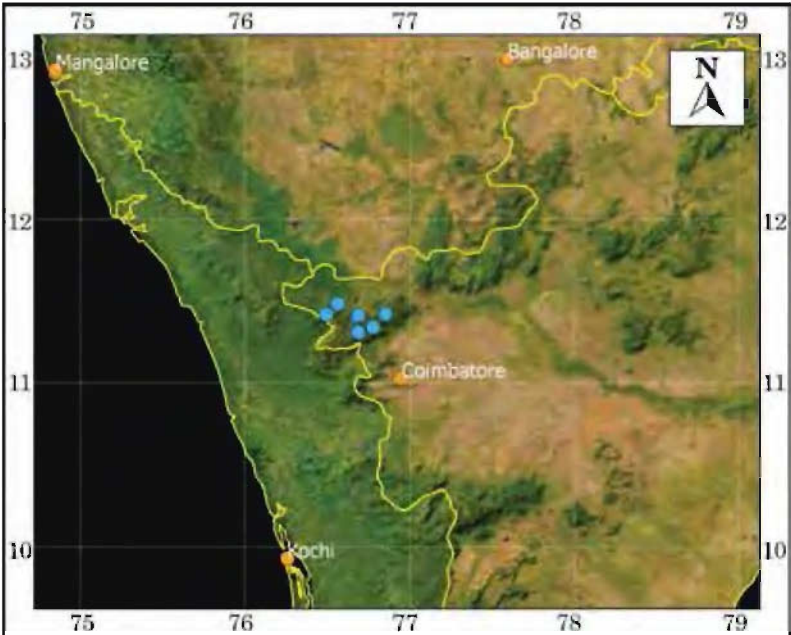
IUCN Status					
CR	EN	VU	NT	LC	DD

126. *Raorchestes tinniens* (Jerdon, 1853)

**Description :** A small sized bush frog. Dorsum dark brown, flanks and groin yellowish brown, lateral side coarsely granular. Throat margin of throat, chest, belly, ventral part of thighs and webbing yellowish, with small darker spots. First two fingers yellow in life. Ventral side light-whitish yellow with dark spots.



**Distribution :** Tamil Nadu part of the Western Ghats.



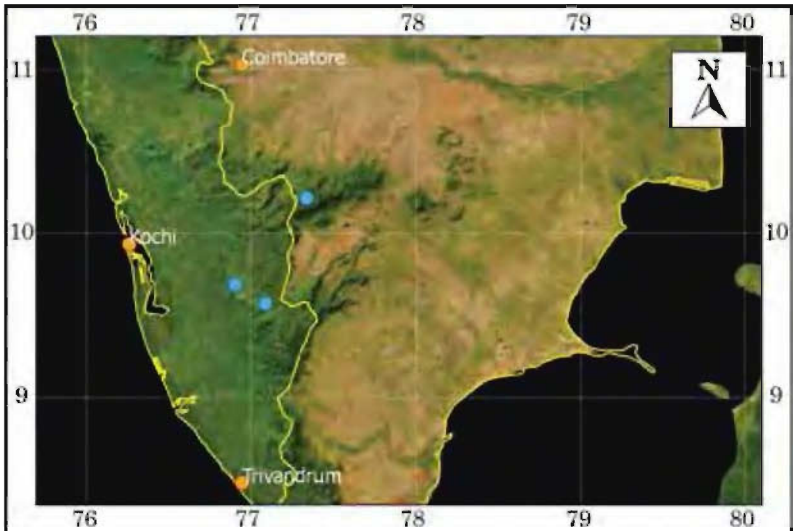
IUCN Status					
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**127. *Raorchestes travancoricus***  
(Boulenger, 1891)

**Description :** A small sized bush frog. Dorsal skin of snout, between eyes, upper eyelids, side of head, and anterior and posterior parts of back shagreened with yellow. Loreal and tympanic regions light brown with a prominent streak on each side of the snout, from the extreme tip of the snout to the lower level of the supra tympanic fold.



**Distribution :** Tamil Nadu part of the Western Ghats.



IUCN Status					
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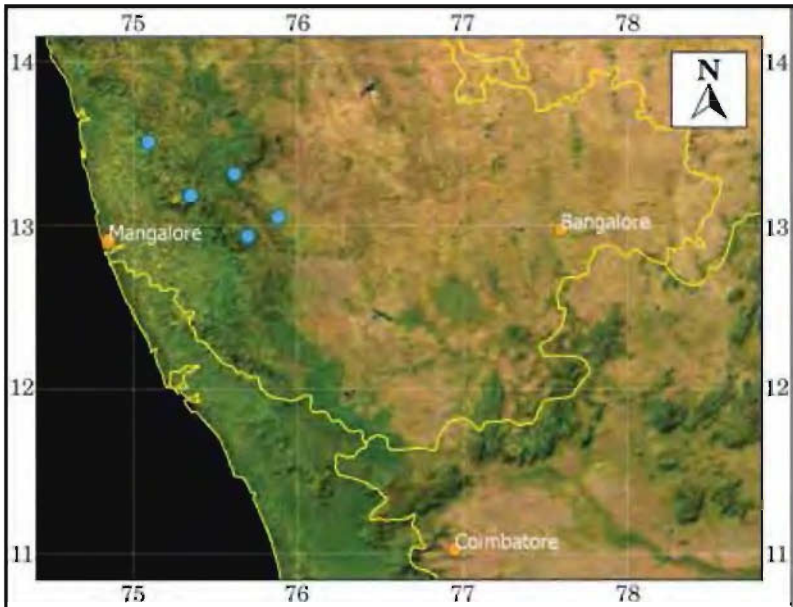
128. *Raorchestes tuberochumerus*  
(Kuramoto and Joshy, 2003)

**Description :** A small sized bush frog. Total skin texture is slightly variable from typically shagreened to sparsely granular. Dorsally light brown with a faint grey stripe in between the eyes, faint grey 'X' behind the eye to vent. Flank and groin with yellow patches in a brown background; ventral side greyish white, minute black spots on the throat, thigh light bluish with light-grey spots.



Flank and groin with yellow patches in a brown background; ventral side greyish white, minute black spots on the throat, thigh light bluish with light-grey spots.

**Distribution :** Karnataka part of the Western Ghats.



IUCN Status					
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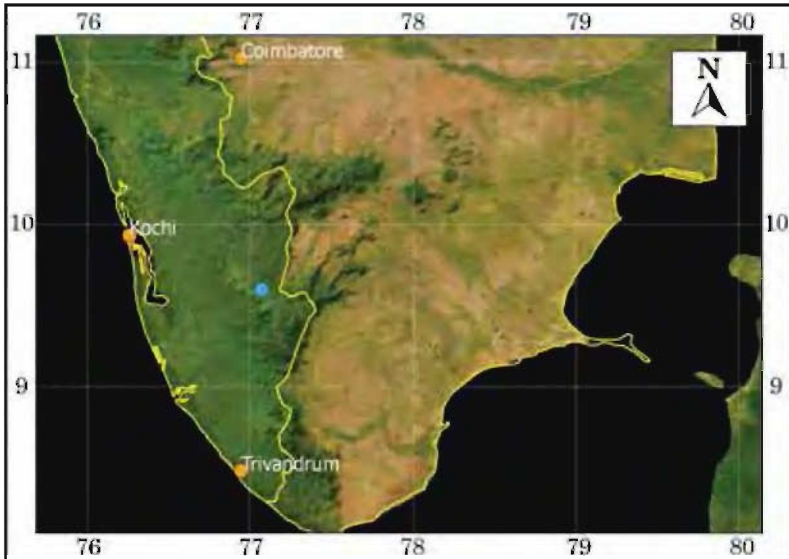
129. *Raorchestes uthamani*

Zachariah, Dinesh, Kunhikrishnan, Das, Raju,  
Radhakrishnan, Palot and Kalesh, 2011

**Description :** A small sized bush frog. Dorsum pinkish yellow, skin minutely granular; no specific markings on the dorsum; lateral sides flesh coloured; ventral sides whitish; tip of disc brown coloured; iris silvery white with fine black reticulations.



**Distribution :** Gavi, Pathanamthitta of Western Ghats.



Genus : *Rhacophorus*

IUCN Status

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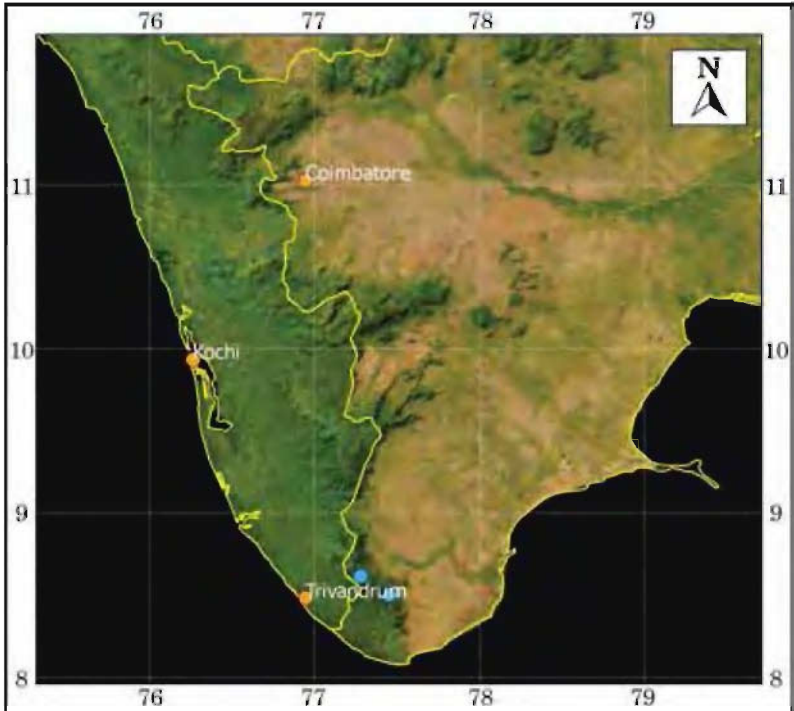
130. *Rhacophorus calcadensis* Ahl, 1927

**Description :** A medium sized tree frog. Dorsum light reddish brown, indistinctly variegated with grey. Hind limbs faintly cross barred with grey. A glandular fold from eye to shoulder.



© Sandeep Das

**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



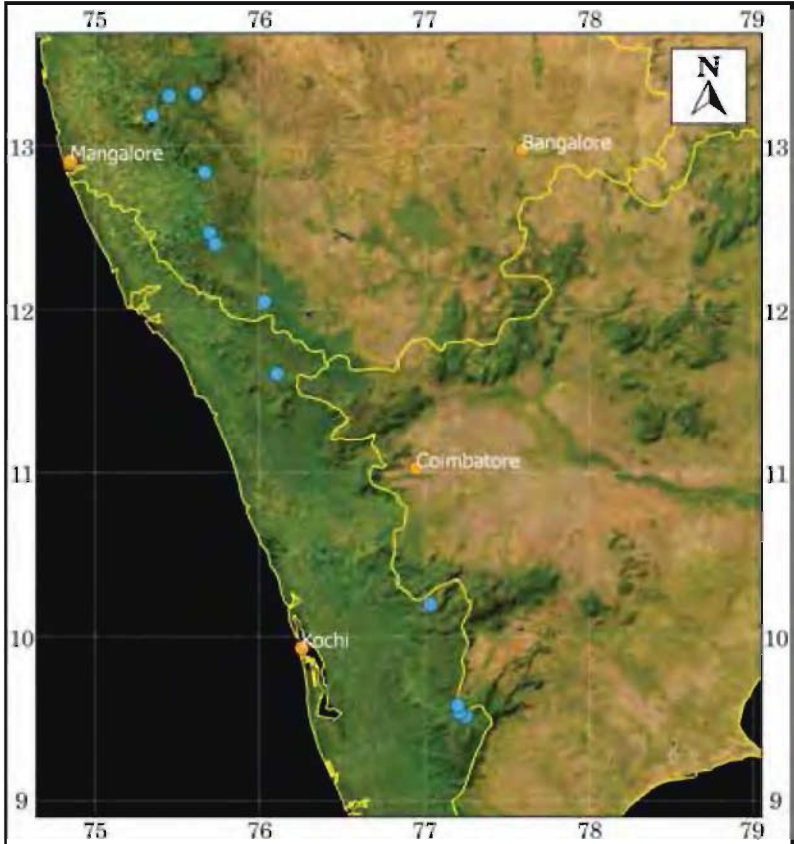
IUCN Status					
CR	EN	VU	NT	LC	DD

131. *Rhacophorus lateralis* Boulenger, 1883

**Description:** A small sized tree frog. Dorsum green with two yellow lateral lines bordered by blue from the tip of snout to venter.



**Distribution:** Kerala and Karnataka part of the Western Ghats.



## IUCN Status

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132. *Rhacophorus malabaricus* Jerdon, 1870

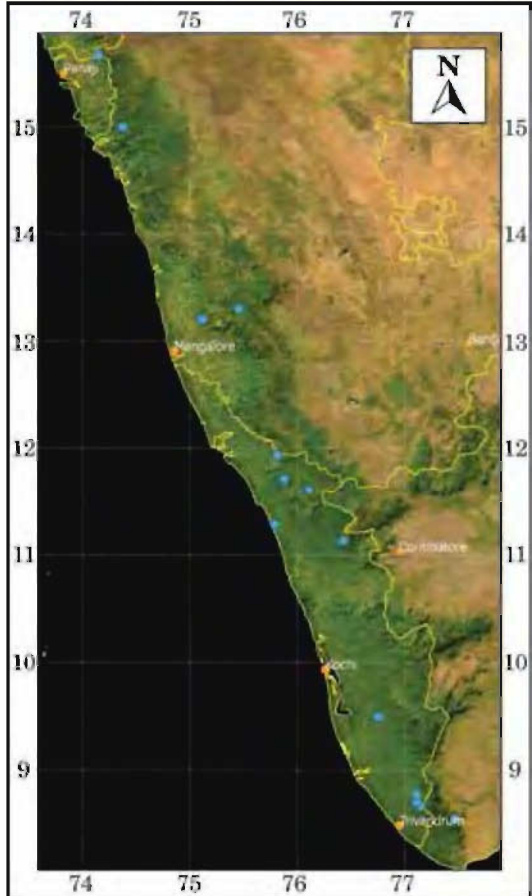
**Description:**

A medium sized gliding tree frog. Dorsum green with reddish webbing between the fingers and toes.



**Distribution:**

Goa, Karnataka, Kerala and Tamil Nadu part of the Western Ghats.



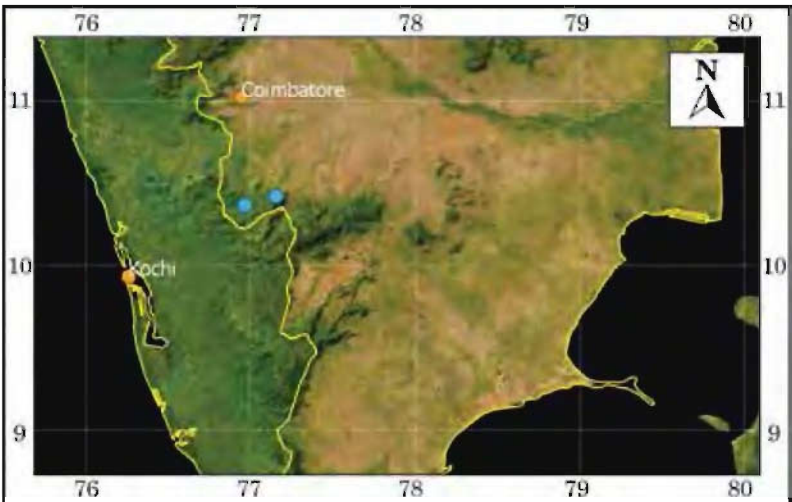
IUCN Status					
CR	EN	VU	NT	LC	DD

133. *Rhacophorus pseudo malabaricus*  
 Vasudevan and Dutta, 2000

**Description :** A medium sized gliding frog. Dorsum green with faint black lines radiating from vertebral region and upper surface of limbs. Skin smooth with small scattered white spots. Sides and under surface of limbs yellowish cream, finger and toe tips orange.



**Distribution :** Tamil Nadu part of the Western Ghats.



Family : CAECILIIDAE

Genus : *Gegeneophis*

IUCN Status

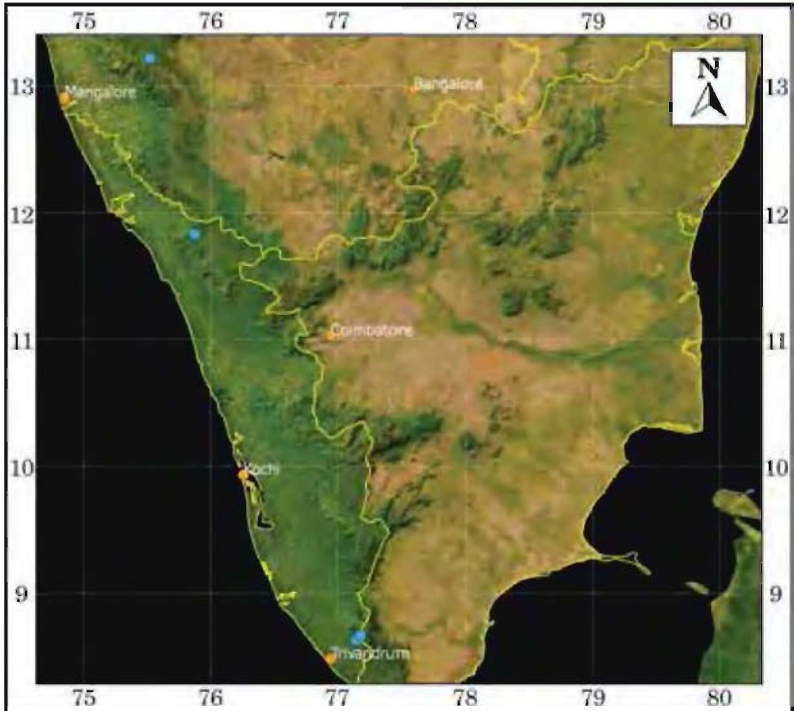


134. *Gegeneophis carnosus* (Beddome, 1870)

**Description** : A small worm like tailless caecilian. Eyes are too small to notice in live individuals with a blunt tail. Body circular, with dominant pink colour dorsally and light brown in ventral side. It is having primary annuli ranging from 105 to 112 with 7 secondary annuli.



**Distribution** : Kerala and Karnataka part of the Western Ghats.



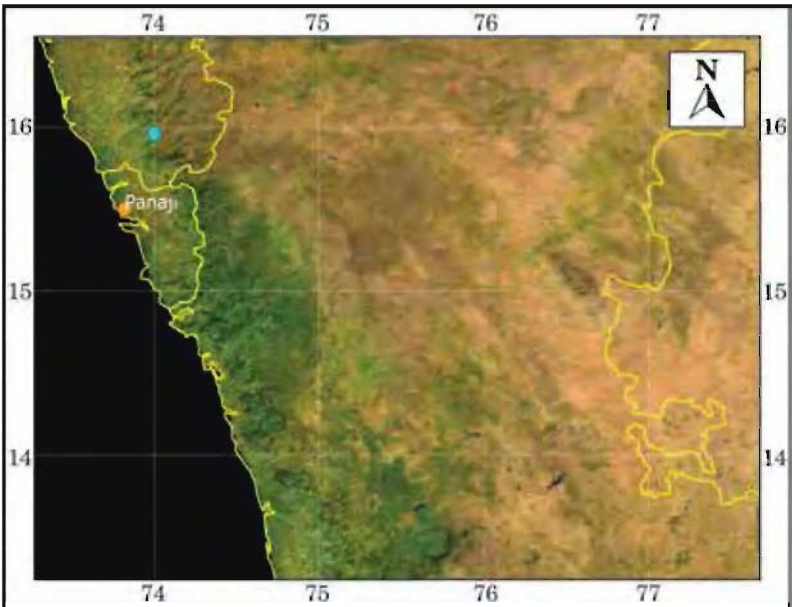
IUCN Status					
CR	EN	VU	NT	LC	DD

135. *Gegeneophis danieli*  
Giri, Wilkinson and Gower, 2003

**Description :** A medium sized worm like tailless caecilian. The colour of the specimen is generally steel grey; dorsal surface is darker lavender in colour, ventrally lighter in colour. Secondary annular grooves present on both anterior and posterior halves of the body with 112 primary annuli.



**Distribution :** Maharashtra part of the Western Ghats.



IUCN Status					
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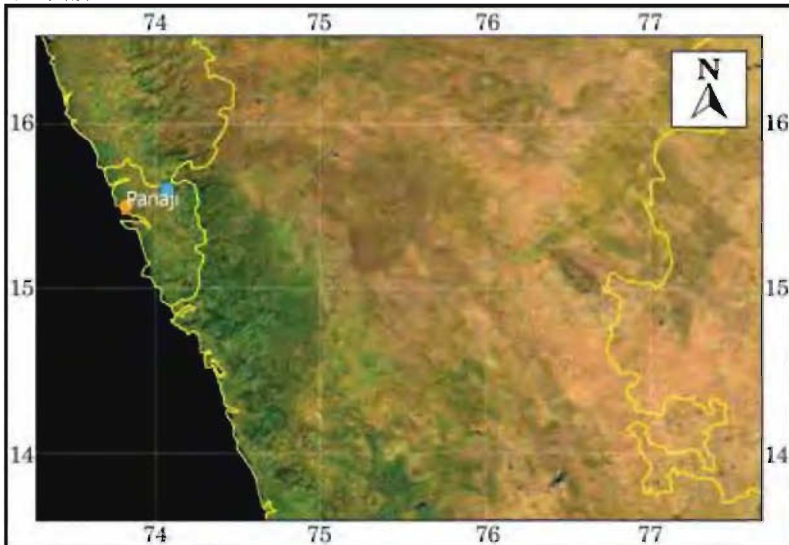
136. *Gegeneophis goaensis*

Bhatta, Dinesh, Prashanth and Kulkarni, 2007

**Description** : A slender long species of tailless caecilian. Body is sub-cylindrical and slightly dorsoventrally compressed and is uniform in its width throughout the length with a terminal shield. The colour of the body is fleshy-brown and is uniform on both dorsal and ventral surfaces, head is pinkish brown in colour. Primary annuli ranging from 124 to 126 and secondary annuli 77 to 83.



**Distribution** : Goa and Karnataka part of the Western Ghats.



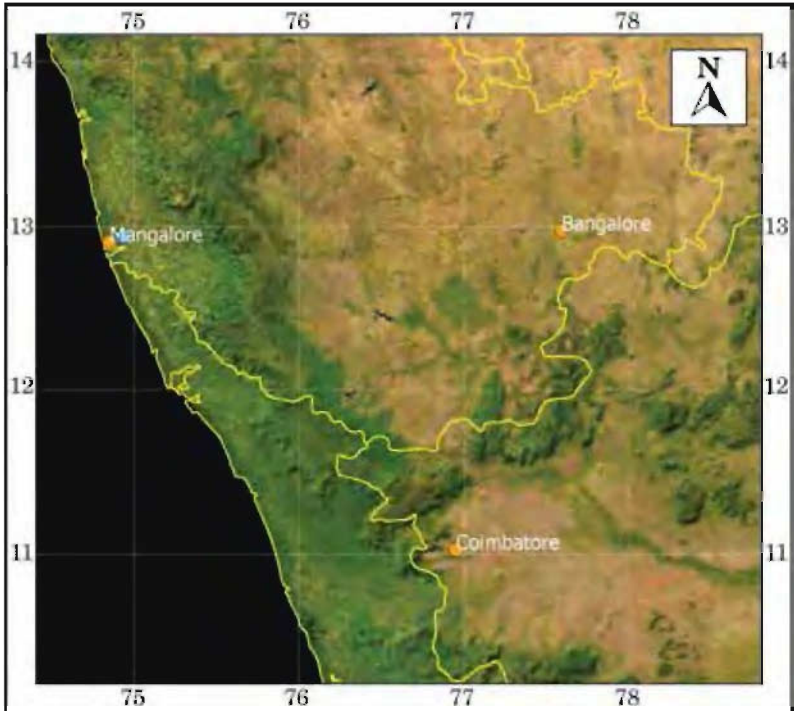
IUCN Status					
CR	EN	VU	NT	LC	DD

137. *Gegeneophis krishni*  
Pillai and Ravichandran, 2005

**Description :** A slender worm like tailless caecilian. Dorsally brownish with steel blue, ventrally light brown. Primary annuli ranges from 125 to 127 and secondary annuli 13-15.



**Distribution :** Karnataka part of the Western Ghats.



IUCN Status					
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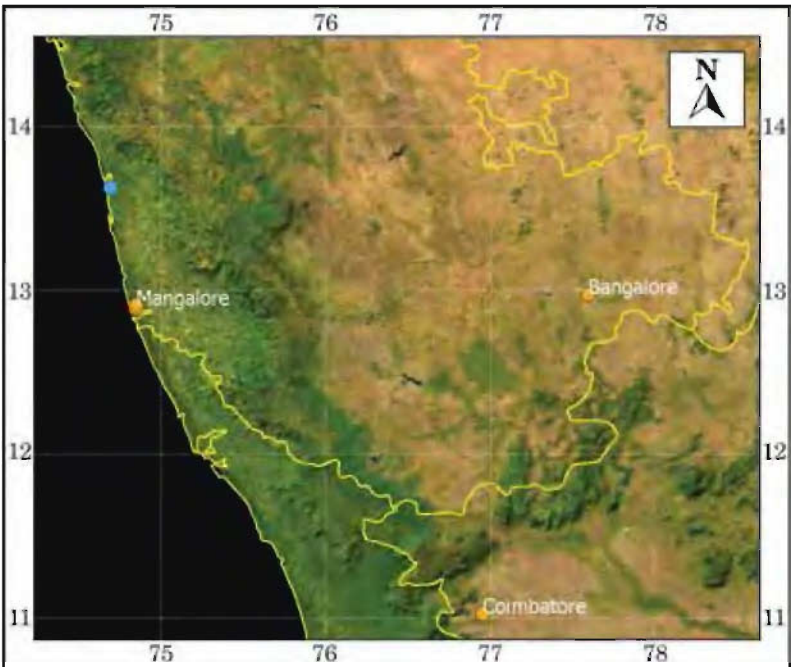
138. *Gegeneophis madhavai*  
Bhatta and Srinivasa, 2004

**Description :** A medium sized worm like tailless caecilian. Dorsally anterior one third is pinkish grey, which gradually merged with the dark grey of the posterior



two thirds of the body, ventral surface pinkish grey. Skin contains whitish glands throughout the body. Primary annuli ranges from 96 to 97 and secondary annuli 27 to 35.

**Distribution :** Karnataka part of the Western Ghats.



IUCN Status					
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### 139. *Gegeneophis mhadeiensis*

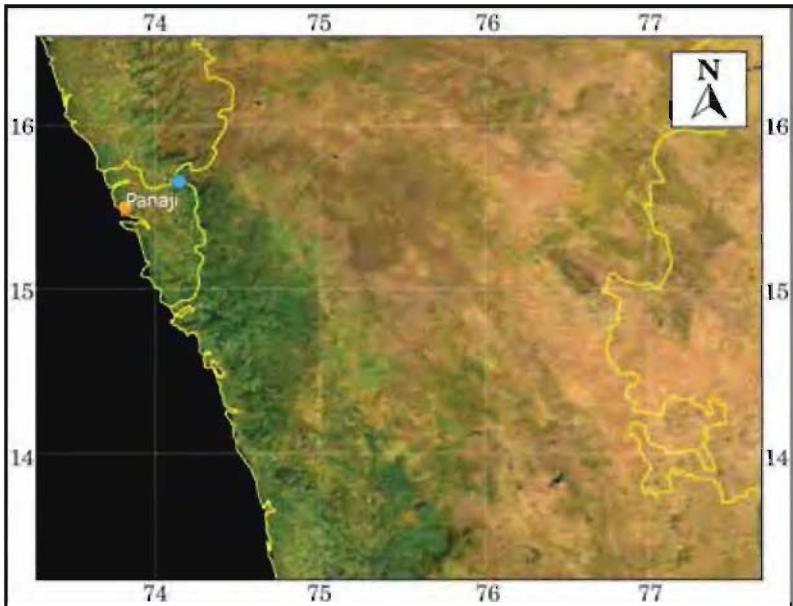
Bhatta, Dinesh, Prashanth and Kulkarni, 2007

**Description :** A slender long species of tailless caecilian. Dorsally dark brown throughout with the exception of the whitish annular grooves and the head is pinkish-



brown with a cream eye-tentacle stripe. The skin contains whitish glands throughout the body. Primary annuli ranges from 118 to 124 and secondary annuli from 29 to 31.

**Distribution :** Goa and Karnataka part of the Western Ghats.



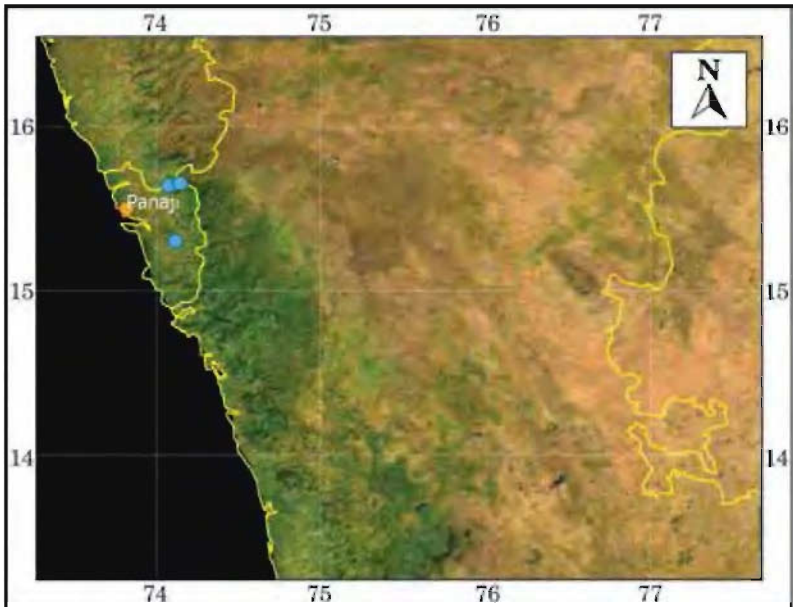
IUCN Status					
CR	EN	VU	NT	LC	DD

140. *Gegeneophis nadakarnii*  
Bhatta and Prashanth, 2004

**Description :** A large sized tailless caecilian. Body colour uniform dark, slaty-grey coloured on the dorsal surface and light grey on the ventral surface without any stripes. Skin is profusely glandular. Primary annuli 114 and secondary annuli 86.



**Distribution :** Goa part of the Western Ghats.



IUCN Status					
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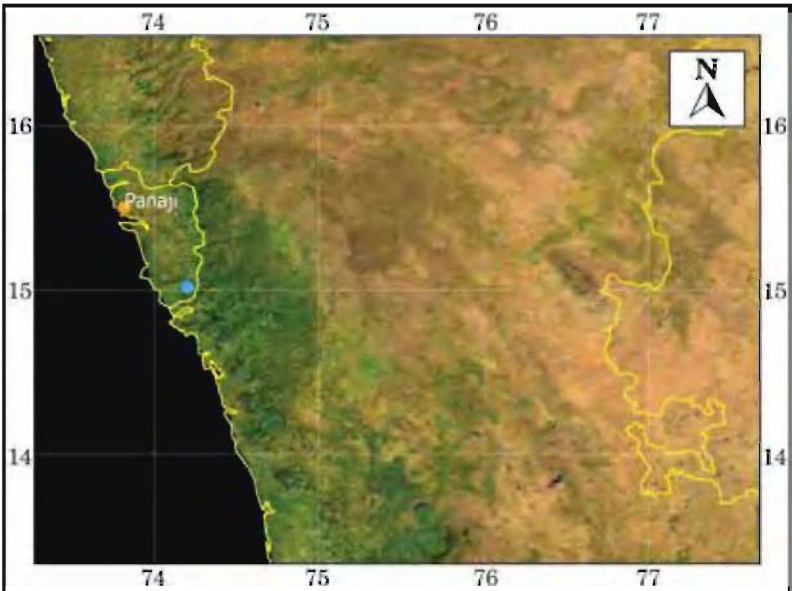
141. *Gegeneophis pareshi*

Giri, Gower, Gaikwad and Wilkinson, 2011

**Description** : A slender long species of tailless caecilian. Body colour dark pink anteriorly and darker to purple posteriorly above and lighter below. Skin glandular. Secondary annuli and annular grooves absent. Primary folds 145 to 150.



**Distribution** : Goa part of the Western Ghats.



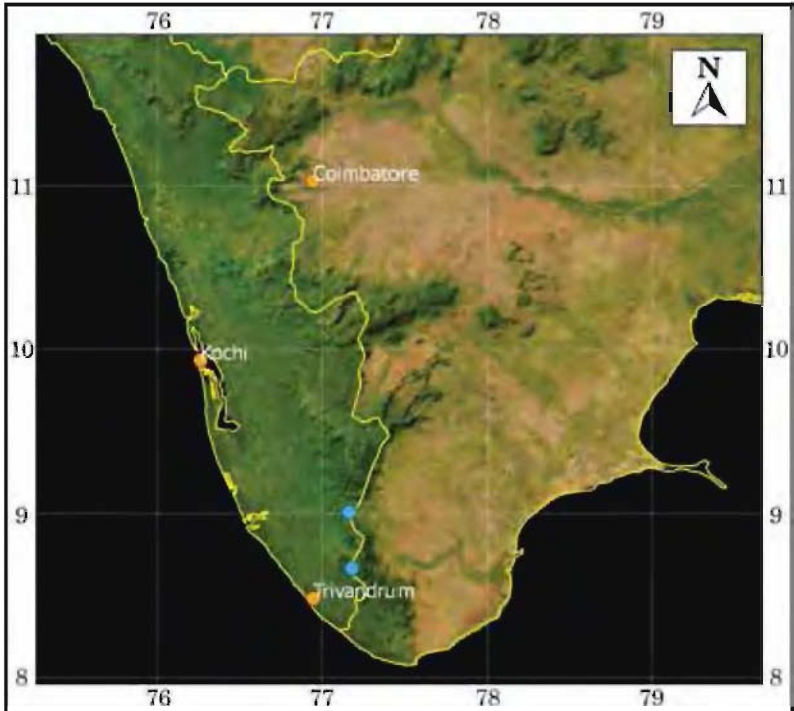
IUCN Status					
CR	EN	VU	NT	LC	DD

142. *Gegeneophis ramaswamii* Taylor, 1964

**Description :** A large sized tailless caecilian. Dorsally shining dark blue and ventrally creamish, primary folds are well marked when compared to species of the group. Eyes are not visible in life. Primary folds 110 to 114.



**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.



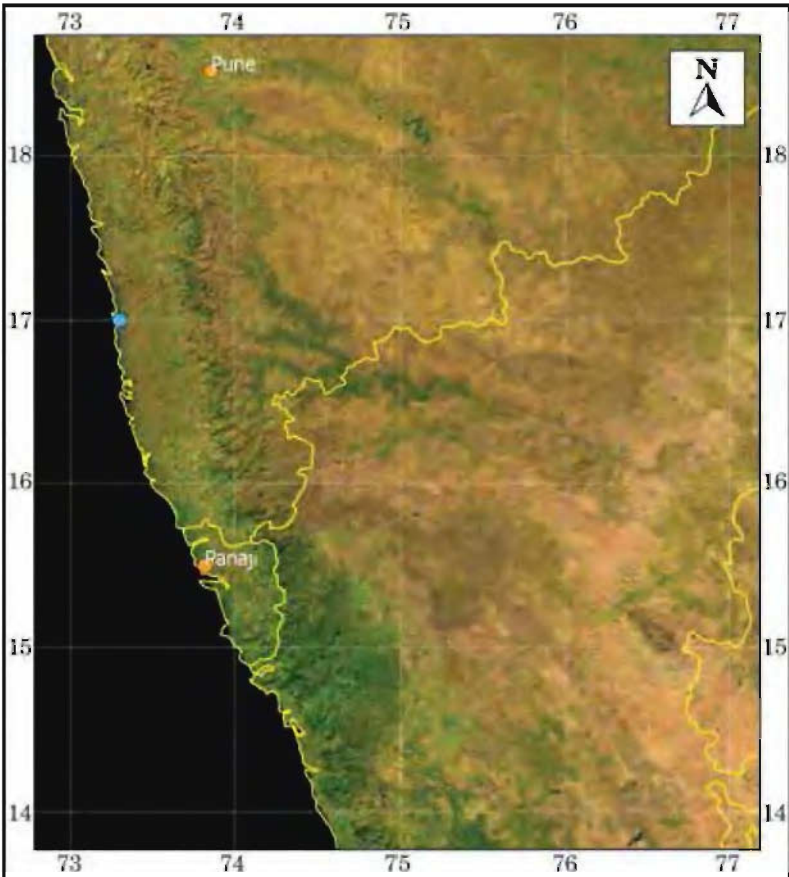
IUCN Status					
CR	EN	VU	NT	LC	DD

143. *Gegeneophis seshachari*

Ravichandran, Gower and Wilkinson, 2003

**Description :** A medium sized tailless caecilian. The dorsum is dark purple-pink becoming paler ventrally and greyer posteriorly. Eyes are clearly visible in life. Secondary annuli and annular grooves absent. Only known live bearing caecilian from India.

**Distribution :** Maharashtra part of the Western Ghats.



Genus : *Indotyphlus*

IUCN Status

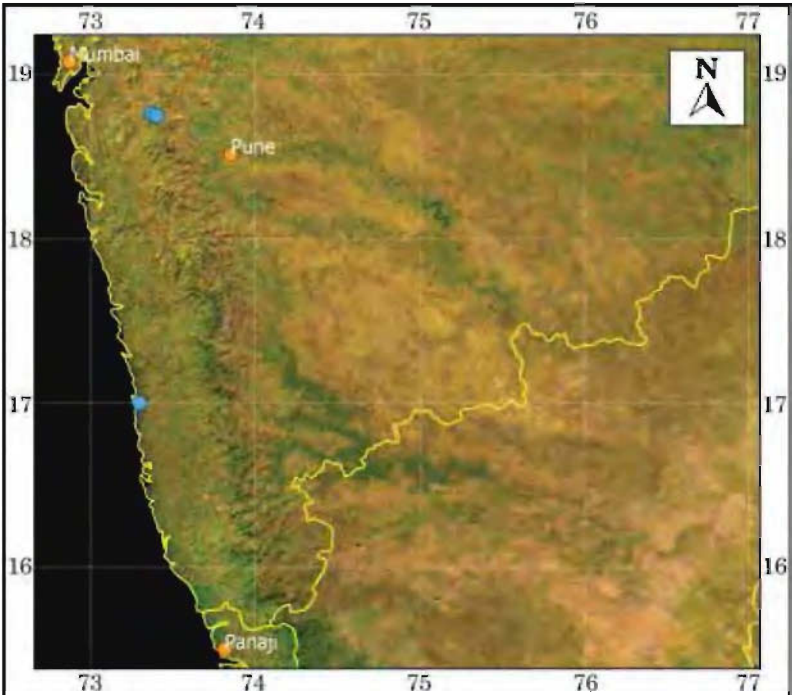
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144. *Indotyphlus battersbyi* Taylor, 1960

**Description :** A slender long species of tailless caecilian. Dorsally pinkish brown and lighter below. Primary annuli 125 to 133 and secondary annuli 58 to 88.



**Distribution :** Maharashtra part of Western Ghats.



IUCN Status					
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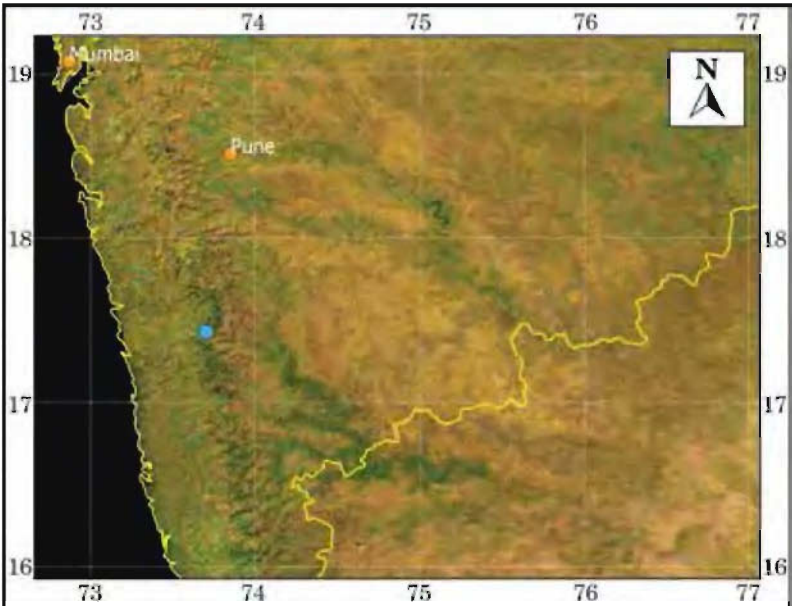
145. *Indotyphlus maharashtraensis*

Giri, Gower and Wilkinson, 2004

**Description :** A slender long species of tailless caecilian. Grey to brown dorsally, head region little pinkish, ventrally light. Primary annuli 132 to 139 and secondary annuli 106 to 117.



**Distribution :** Maharashtra part of the Western Ghats.



Family: Ichthyophiidae

Genus : *Ichthyophis*

IUCN Status

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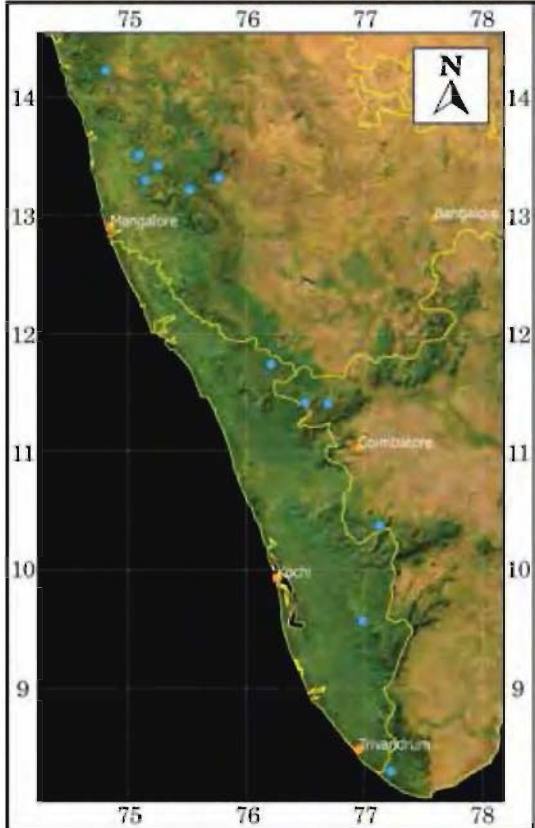
146. *Ichthyophis beddomei* Peters 1879

**Description:**

A medium sized tailed caecilian. The animal is dark brown on the dorsum and the whole venter is lighter than the dorsum. A golden or canary yellow stripe passes at the sides of the body from tip of tail to snout and chin. The stripe bifurcates at the angle of the mouth. A cream spot is present at the tip of the tail, which does not connect with the lateral stripe. Annuli more than 320.

**Distribution:**

Karnataka, Kerala and Tamil Nadu part of the Western Ghats.



## IUCN Status



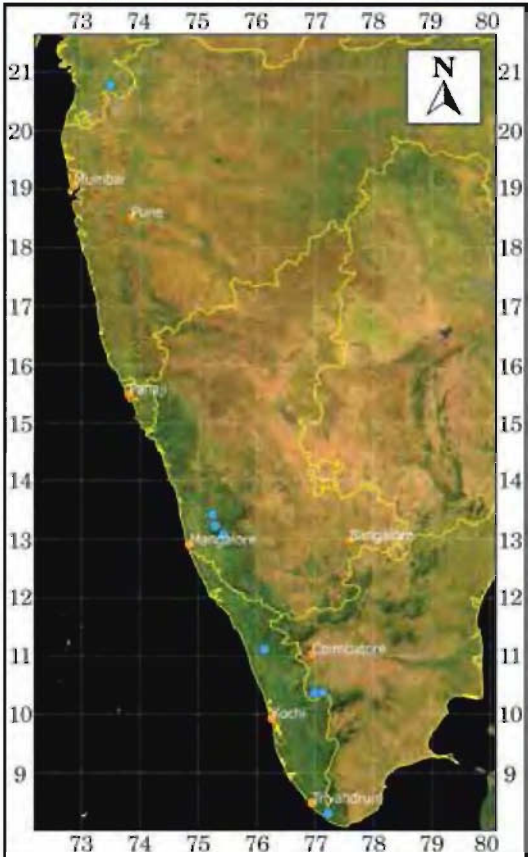
147. *Ichthyophis bombayensis* Taylor, 1960

**Description :**

The largest known snake like tailed caecilian from India. Dorsally dark brown and ventral surface lighter brown, creamy spots present at the vent, eye, tentacle and nostril. Body annuli up to 400.

**Distribution:**

Maharashtra, Goa, Karnataka, Kerala and Tamil Nadu part of the Western Ghats.



IUCN Status					
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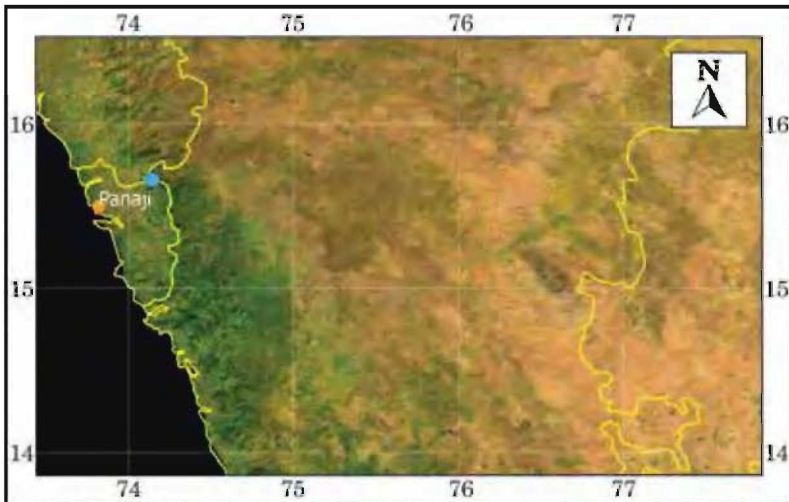
148. *Ichthyophis davidi* Bhatta, Dinesh, Prashanth, Kulkarni and Radhakrishan, 2011

**Description :** The largest known tailed caecilian from Western Ghats. Dorsally uniform metallic chestnut brown, venter light lilac and tail tip darker. Shining metallic yellow lateral stripe of upper lip originates as faint dot on the tentacle. Yellow stripe wide all along the body except on the upper and lower lip and with a small incurvature on the second collar. Body annuli 321 to 336.



© Vikram Hoshing

**Distribution :** Chorla Ghats bordering Goa and Karnataka state of the Western Ghats.



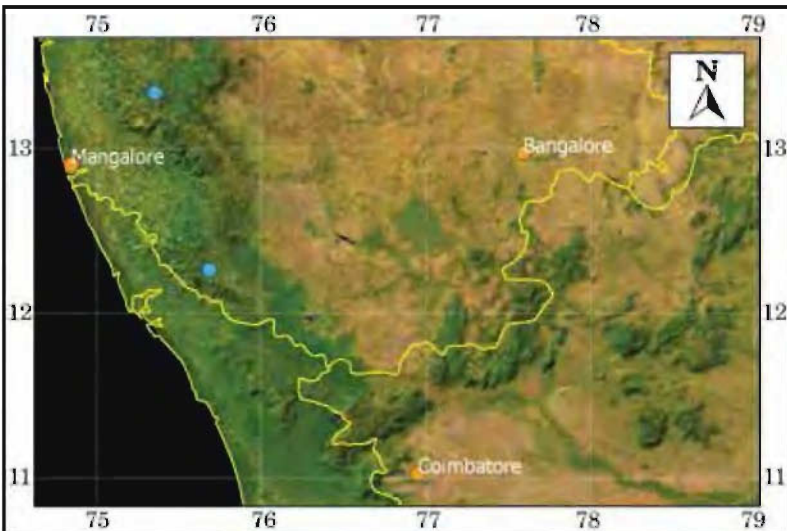
IUCN Status					
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149. *Ichthyophis kodaguensis* Wilkinson,  
Gower, Govindappa and Venkatachalaiah, 2007

**Description** : A medium sized tailed caecilian. Dorsally uniform dark chestnut brown, and paler, lilac-grey-brown in the venter and tip of terminal cap. Narrow longitudinal stripes bright cream-yellow, irregular dorsal and ventral margins. Body annuli 276 to 306.



**Distribution** : Karnataka part of the Western Ghats.

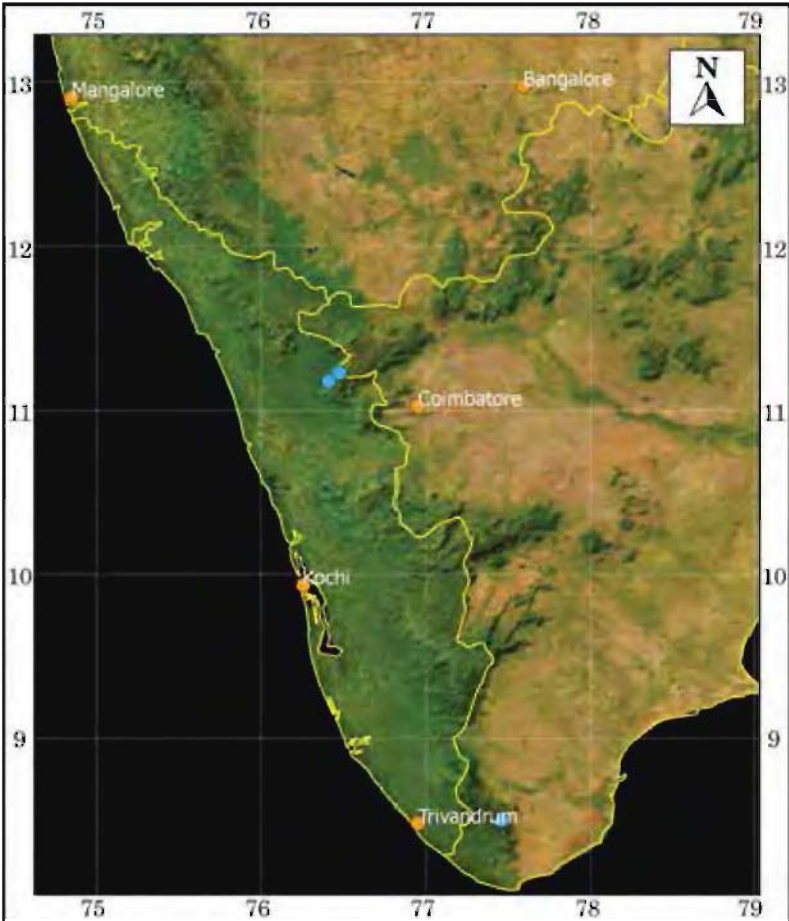


IUCN Status					
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150. *Ichthyophis longicephalus* Pillai, 1986

**Description :** A medium sized tailed caecilian. Dark violet above, lighter below. Lateral yellow stripe from tip of tail to first nuchal groove, which narrows on the second collar and widens on the first collar. Body annuli more than 320.

**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
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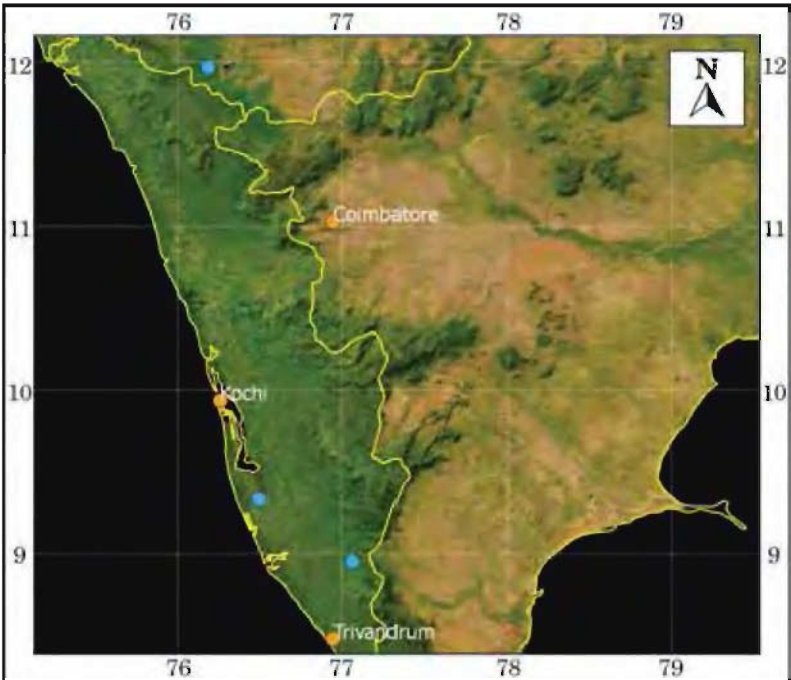
151. *Ichthyophis tricolor* Annandale, 1909

**Description :** A medium sized Three-colored Caecilian. Dorsum dark brown, lateral creamish stripe from snout to tip of tail. A narrow light brown stripe bordering the lower margin of the lateral cream band, venter whitish. Body annuli up to 300.



© Ramachandran

**Distribution :** Kerala part of the Western Ghats.



Genus : *Uraeotyphlus*

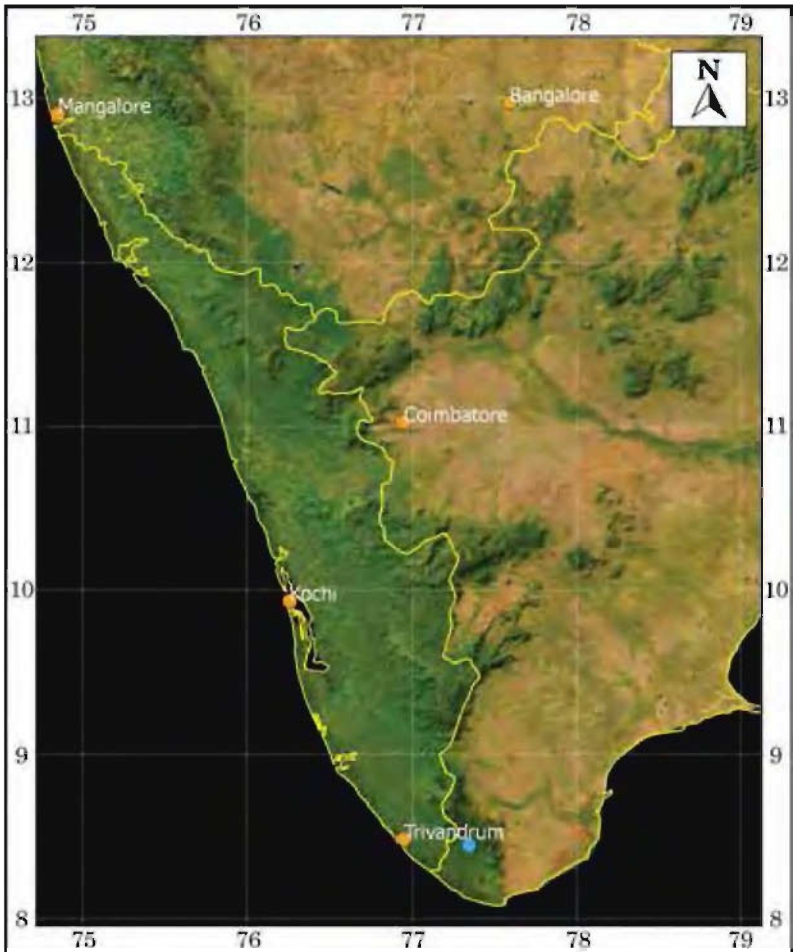
IUCN Status



152. *Uraeotyphlus gansi* Gower, Rajendran,  
Nassbaum and Wilkinson, 2008

**Description :** medium sized tailed caecilian. Dorsum lilac slate gray to paler, ventrally more lilac. Body annuli 229 to 274 with complete anterior most annuli.

**Distribution :** Tamil Nadu part of the Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

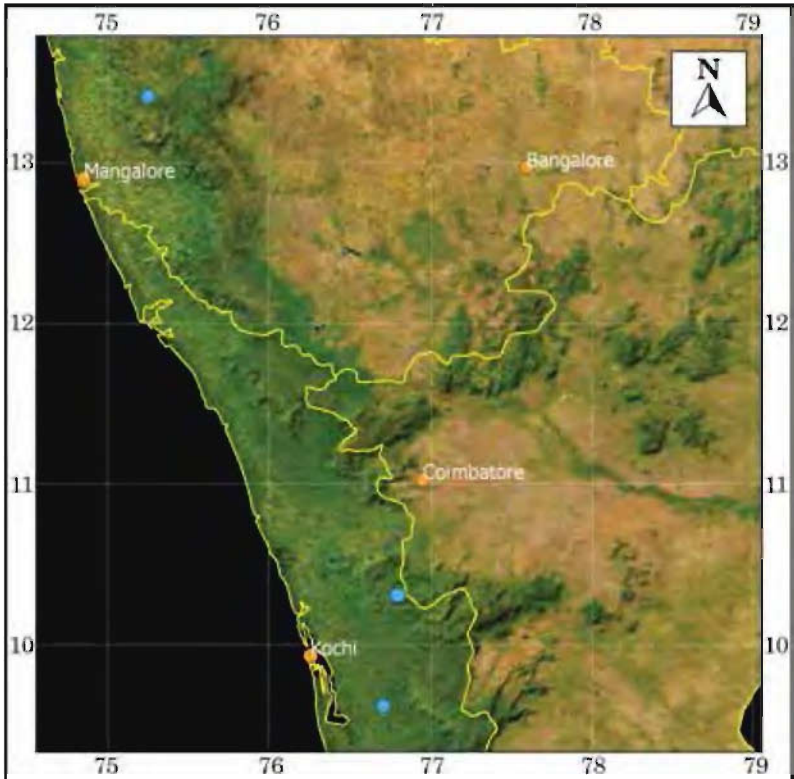
**153. *Uraeotyphlus interruptus***  
 Pillai and Ravichandran, 2005

**Description** : A medium sized tailed caecilian. Dark slaty-violet above, ventrally brownish violet. Body annuli 162 with incomplete anterior most annuli.



© Anil Zachariah

**Distribution** : Karnataka and Kerala part of the Western Ghats.

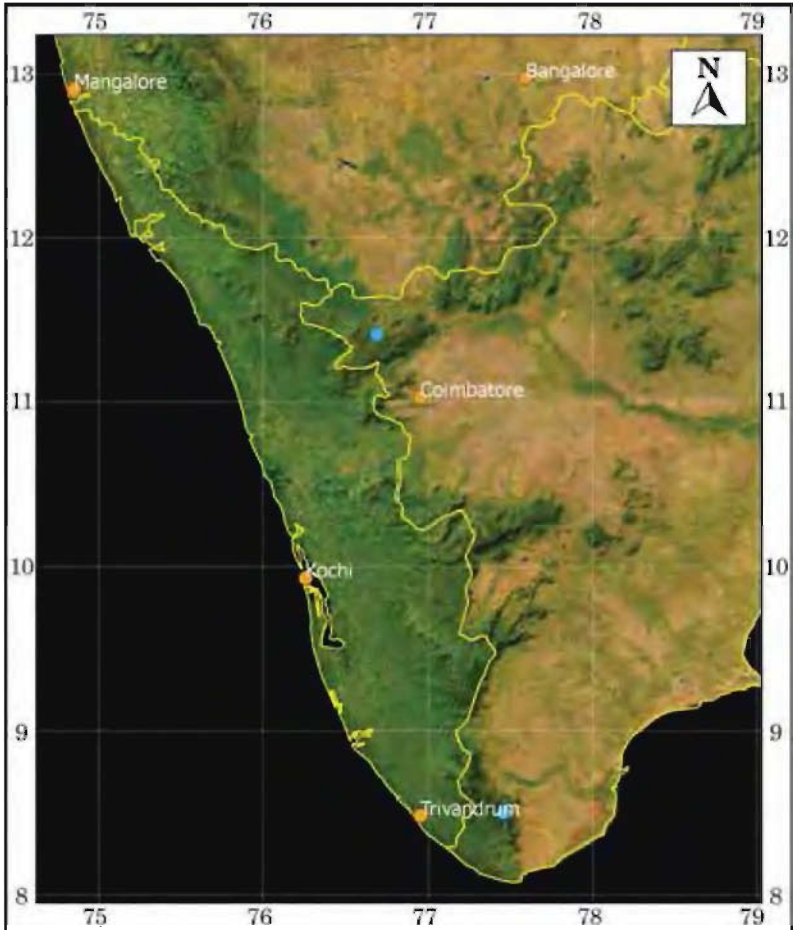


IUCN Status					
CR	EN	VU	NT	LC	DD

154. *Uraeotyphlus malabaricus*  
(Beddome, 1870)

**Description :** A medium sized tailed caecilian. Dorsum violet above and lighter below. Body annuli 230 to 250 with complete anterior most annuli.

**Distribution :** Kerala and Tamil Nadu part of the Western Ghats.

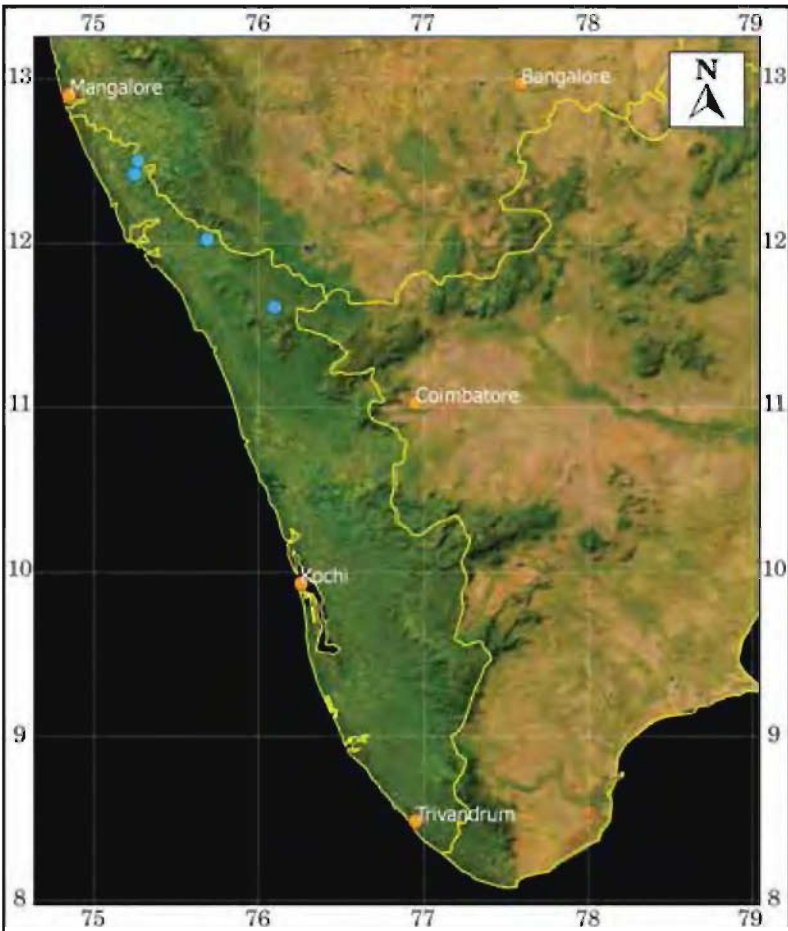


IUCN Status					
CR	EN	VU	NT	LC	DD

155. *Uraeotyphlus menoni* Annandale, 1913

**Description :** A medium sized tailed caecilian. Dorsum brownish violet, ventrally creamish with a bluish median ventral line from collar to vent. Body annuli 290 with incomplete anterior most annuli.

**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

156. *Uraeotyphlus narayani* Seshachar, 1939

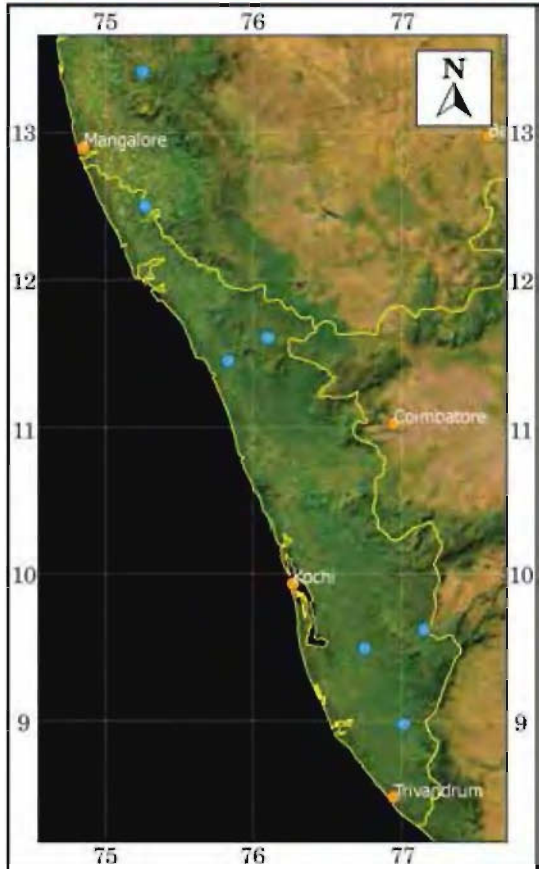
**Description:**

A medium sized tailed caecilian. Dorsum slaty violet, ventrally whitish from collar to vent with a bluish median ventral line from collar to vent. Body annuli 175 with incomplete anterior most annuli.



**Distribution:**

Karnataka and Kerala part of the Western Ghats.



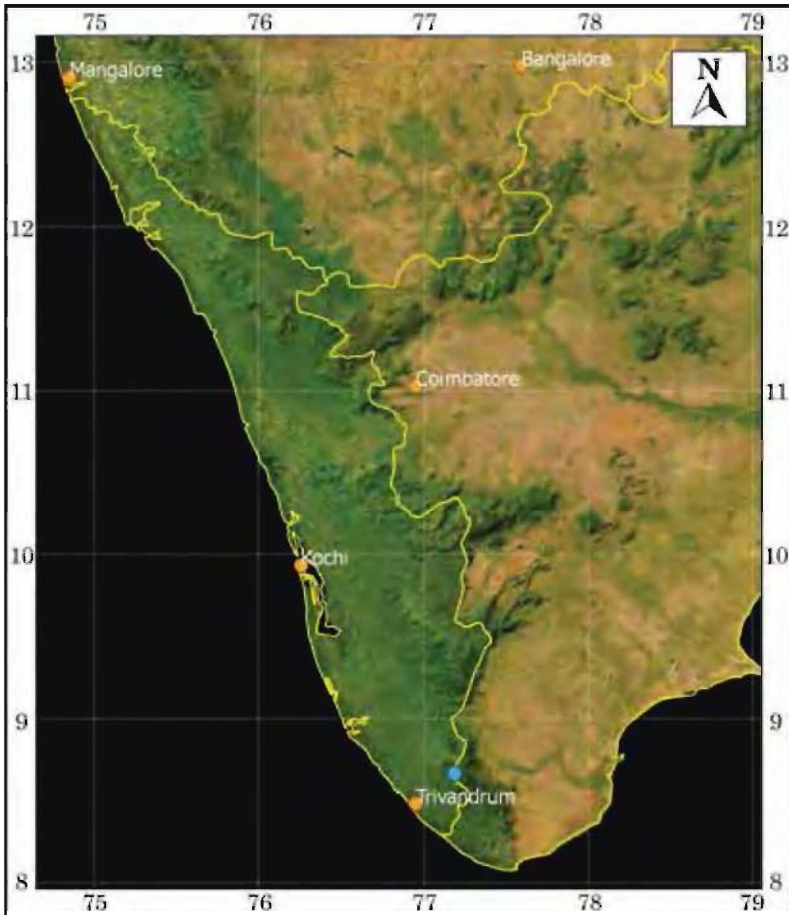
IUCN Status					
CR	EN	VU	NT	LC	DD

157. *Uraeotyphlus oommeni*

Gower and Wilkinson, 2007

**Description :** A medium sized tailed caecilian. Dorsal surface is brownish with grey; head is pale lilac-brown and ventrally pale brown. Body annuli 207 to 245 with complete anterior most annuli.

**Distribution :** Kerala part of the Western Ghats.



IUCN Status					
CR	EN	VU	NT	LC	DD

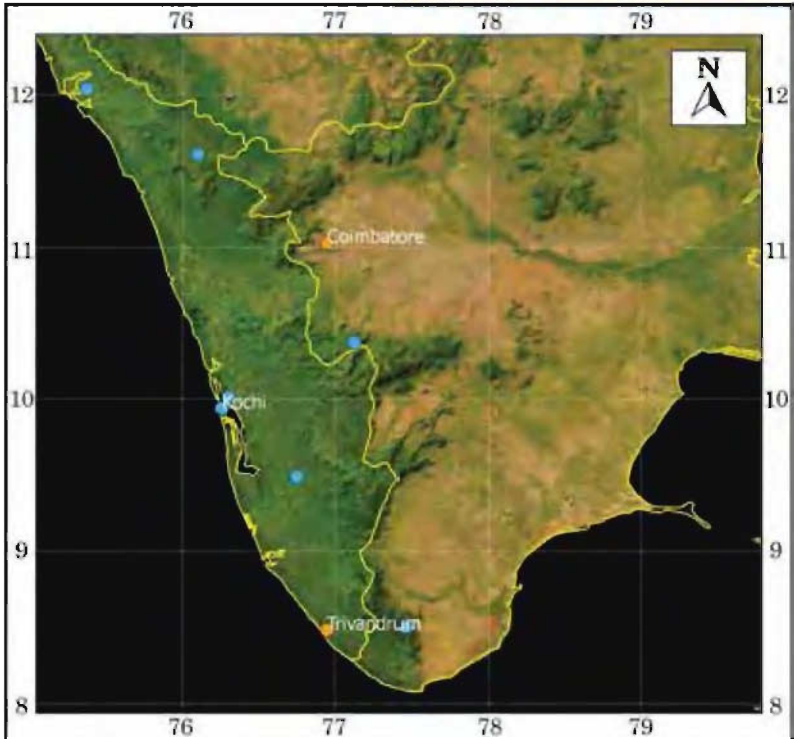
158. *Uraeotyphlus oxyurus*  
(Dumeril and Bibron, 1841)

**Description :** A medium sized tailed caecilian. Body reddish brownish, light below. Body annuli 180 to 240 with incomplete anterior most annuli. Endemic to Western Ghats.



© Ramachandran

**Distribution:** Kerala and Tamil Nadu part of the Western Ghats.



## Study Localities of Endemic Amphibians

Locality	Longitude	Latitude
1.5 km away from Thala odai	77.3809	8.6328
11 km stone from Kalakad	77.3142	8.6195
Achenkoil	76.4966	9.3347
Adyar	74.8646	12.9341
Agasthyamala	77.2833	8.6167
Agumbe	75.0926	13.5079
Aldur	75.6535	13.2424
Amboli	74.002	15.9611
Amboothi	76.3716	11.6844
Anakampoyil	75.8999	11.3044
Anakasam	76.8122	10.4094
Anamalai Hills	77.1292	10.3723
Anamudi	77.0619	10.1703
Anchupoola	76.7667	11.3667
Andiparai Shola	77.1589	10.4219
Angamuzhi	76.9864	9.3569
Anjuruli	77.0739	9.7692
Anshi	74.3697	14.9939
Aralam WLS	75.8102	11.9365
Arround Sengaltheri	77.3257	8.4867
Aruvankadu_SVNP	75.9696	11.8839

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Athirappilly	76.333	10.3175
Athirimala	77.2333	8.6
Attakatti	76.75	10.3833
Avalanche	76.6929	11.3071
Bababudangiri	75.8035	13.567
Bajpe	74.8668	12.9632
Balehonnur	75.4503	13.3008
Banasura foot hills	75.8696	11.6839
Banasura, Wayanad	75.8956	11.6893
Bandadka	75.2683	12.502
Basarikattae	75.356	13.346
Bear Shola_Kodaikanal	77.484	10.2365
Bhagamandala	75.5976	12.3888
Bhagavathi Forest KNP	75.15	13.3167
Bhavani Sagar	77.0143	11.4295
Bheemanada	77.0876	10.1874
Bidar halla	76.8965	11.4583
Biligirirangan Hills	77.2333	11.9
Bodinayakkanur	77.3423	10.2135
Bonacaud estate	77.1833	8.6667
Bondla WLS	74.1167	15.3
Brahmagiri	75.9482	11.9535

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Bygoor	75.6161	13.3164
Castle Rock	74.3333	15.3833
Charmadi	75.4488	13.1145
Charpa	76.3333	10.3
Chathankod	77.15	8.65
Chedleth	76.1681	11.7903
Chembra	76.2084	11.6308
Chemmanatham check dam	76.9675	11.3961
Chemmunji	77.1946	8.6785
Chendurny WLS	77.0833	8.8333
Chengalam	76.4902	9.5953
Chethalayam	76.207	11.7416
Chickmagalur	75.7709	13.3122
Chimmoni	76.4617	10.4389
Chitekanam	75.7449	12.3812
Chittar	76.9156	9.3356
Choodal	77.1774	8.8746
Chorla	74.146	15.6577
Chowdikattae BWLS	75.5847	13.7508
Chowdikattae BWLS	75.5847	13.7508
Cochin	76.2593	9.9394
Coonor	76.7829	11.3387

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Coorg	76.0333	12.05
Cotegao Wildlife Sanctuary	73.9167	15.5
Courtalam	77.2681	8.9287
Datta Peeta	75.7667	13.4167
Dattatreya Peeta	75.7666	13.4166
Devikulam	77.1053	10.0645
Dhobi waterfalls, Mahabaleshwar	73.6537	17.9726
Doddabetta	76.7366	11.4024
Dorle	73.3001	16.9985
East of Sengaltheri pachiyar	77.3038	8.4917
EN_Kolukkumalai	77.0333	10.2
EN_Naikollimalai	77.0449	10.2612
EN_Rajamali	77.012	10.1397
EN_Turners Valley	77.0707	10.2502
Erachipara	77.1894	9.6208
Eranhipalam	75.7844	11.2796
Eravikulam	77.0333	10.2
Ernakulam	76.3036	10.0143
Forest office compond Kalakad	77.4508	8.4323
Gangamoola	75.1568	13.2578
Gavi	77.0743	9.5999

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Gersoppa	74.8111	14.2219
Grass Hills	77.0667	10.3166
Gudalur	76.4706	11.5262
Gundia	76.1167	13.0833
Gurupur	74.9311	12.9388
Halagekerae BWLS	75.7016	13.5311
Halasinakhan	75.7365	13.4301
Hambali	73.659	17.4293
Hanuman gundi	75.1556	13.2719
Hipla camp	75.6	13.5
Hut shola (ENP)	77.0861	10.2243
Idukki	77.1025	9.9189
Idukki (Vazhathope)	76.9667	9.85
Jakkanagadde	74.802	14.2045
Janakikkadu	75.9211	11.5544
Jog falls	74.8116	14.2281
Jog Falls–Mavingundi	75.1704	13.4421
Jog Falls–Mavingundi	75.1704	13.4421
Kadalar tea estate	77.0166	10.1166
Kadambi Hole, KNP	75.2367	13.3517
Kaikatti, Nellyampathy	76.6792	10.5336
Kakachi	77.3878	8.5344

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Kakkan Halla stream	77.012	11.4425
Kakkayam	75.92	11.5544
Kalakkad	77.4563	8.5021
Kalindipuzha	76.0925	11.8314
Kallar	77.1322	8.849
Kalliyala	75.5475	12.3631
Kalpetta	76.1087	11.6098
Kamaraj sagar	76.6469	11.4483
Kamathalachi	76.7	10.4824
Kanari Caves	72.9033	19.2088
Kannavam	75.6667	11.8333
Karadipara	76.9	8.7714
Karamthodu	77.0351	9.8956
Karapara_Dam site	76.6413	10.5141
Karikaran thondu	77.3643	8.4715
Karnoor	75.4793	12.3729
Karumari Amman Temple	77.5075	8.4849
Karuvarakundu	76.3374	11.1325
Kathlae Khan	74.3382	15.3972
Kattapana	77.1346	9.733
Kattilappara	77.1113	8.7035
Keasruhalla BWLS	75.6462	13.5857

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Kemmanugundi	75.45	13.3
Kempholay	75.8833	13.05
Keraekattae	75.1473	13.2963
Khandala	73.3737	18.761
Kheri village	74.0667	15.6
Kilmanimutharu	77.4829	8.5062
Kiriparai	77.4144	8.5095
Kirundau	75.5101	12.499
KNP	75.35	13.1833
Kodaikanal	77.4788	10.2394
Kodaikanal_Palani Hills	77.4998	10.1995
Kodayar	77.344	8.4473
Kollam	77.0174	8.9789
Kolukkumalai, Eravikulam	77.1997	10.3498
Kombiaru Thakkadu charagam	77.3726	8.5631
Konalar_Grass Hills	77.3649	10.1819
Koppa	75.3631	13.5289
Kotegehar	75.5237	13.2144
Kothagiri	76.8583	11.4195
Kothamangalam	76.6211	10.0665
Kottayam	76.7499	9.4917
Kottigehara ('Kottigehar')	75.5866	13.3442

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Kottiyur	75.6909	12.0248
Koyna	73.708	17.4274
Koyna, Humbarli (stream in the forest)	73.7802	17.5344
Koyna, Humbarli Village	73.7882	17.5
Kudamruthi forest	76.9008	9.7871
Kudremukh NP	75.35	13.1833
Kudremukh–Malleshwaram	75.4999	13.3333
Kulamavu (Idukki)	76.8905	9.7907
Kulamavu (Nadugani Pavilion)	76.8873	9.7924
Kumbarakuzhi	75.9667	11.5833
Kumily	77.1544	9.6201
Kummannur	76.6265	9.6866
Kundapur	74.693	13.6273
Kundode estate	76.4045	11.3981
Kurichiyarmala	76.2325	11.6887
Kurichiyat	76.0903	11.8215
Kurukkathodu	75.8167	11.8167
Kuruva Island	75.8769	11.7121
Kuske	74.2014	15.0167
Kuthiranvellani	76.3169	10.5508
Kuvapatti odai	77.3626	8.5635

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Ladysmith	77.212	9.489
Lonavala	73.403	18.7493
Londa	74.4894	15.4485
Longwood shola, Kotagiri	76.8861	11.4343
Machad	76.2732	10.6384
Madaipara	75.261	12.0315
Madenadu	75.7539	12.3137
Madikeri	75.75	12.4168
Magundi	75.4503	13.3008
Mahabaleswar	73.6504	17.9223
Manakkavala (Thekkady)	76.0084	11.8056
Manamboli	77.0825	10.4184
Mananthavadi	76.3684	11.6764
Mangalore	74.8426	12.8693
Manikyadhara Betta, KNP	75.1416	13.3666
Manikyadhara Betta, Kudremukh National Park	75.1192	13.3517
Manimala River	76.7499	9.4917
Manipal	74.8003	13.341
Manjeri	76.1253	11.1157
Mannanthara, Tenmala	77.0665	8.9538
Maramalai, Kiripara	77.5022	8.4853

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Martandam	77.2234	8.3018
Matheran	73.267	19.1329
Mattupetti	77.1186	10.1485
Mattupetti	77.1169	10.1049
Mavinagundi	75.137	13.2992
Meenmootty	76.1457	11.5624
Meenthotti	77.0562	10.2357
Melukav and Erumely	76.8443	9.4779
Mettupalayam	76.8071	11.2822
Mlappara	76.9831	9.6318
Mollem	74.2	15.3667
Moolamattom	76.8624	9.7892
Moozhiyar	77.0166	10
Mudigere	75.6355	13.1266
Muduba	75.2131	13.2097
Mukkam	76.0353	11.2311
Mundanthurai	77.3445	8.6787
Munnar	77.0593	10.0842
Murikkassery	77.2282	9.9437
Muthodi	75.6023	13.5215
Muthodi, Kemmanagundi	75.6232	13.565
Muzhiyar	77.0167	9.925

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Mysore	76.646	12.3032
Naduvathumuzhi	77.0591	10.0838
Naduvattam	76.5683	11.4815
Nagercoil	77.396	8.226
Najayappilli	76.9231	10.3831
Nala near 10 acres Kakachi estate	77.2857	8.7672
Nalumuku Kakachi Rd	77.26	8.7382
Nambiar at Vaiyathu parai	77.5261	8.4369
Nambiar- Nambikovil	77.4985	8.4325
Nambikovil - Nambiyar	77.5176	8.436
Nemanckolly	75.3462	12.4487
Neria	75.4314	13.078
Neyar	77.4174	8.8887
Nilgiri hills	76.5	11.4167
Non such plantation (Droog)	76.8164	11.3496
Ooth	77.5028	8.5919
Ooty	76.6946	11.4116
Ottekolly	75.3721	12.4466
Pachakanam	77.15	9.4333
Pachiyar down stream	77.4414	8.5484
Pachiyar near Sengaltheri	77.412	8.5675

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Pachiyar, East of Sengaltheri	77.4151	8.5617
Paimaru	76.9422	9.8478
Pakshikatalam	75.4371	12.4201
Pakshikatalam	75.9621	11.9393
Palakkad	76.649	10.7643
Palani Hills	77.5057	10.191
Palaruvi	77.1424	8.965
Palode	77.15	8.6333
Pamba	76.847	9.3687
Pamba River (Sabarigiri)	77.0646	9.3078
Panangad	75.8327	11.4521
Panchgani	73.7944	17.9195
Pandimotta, Shendurney WLS	77.2707	8.8441
Parambikulam	76.7076	10.3701
Parapalar near pachiyar	77.3946	8.5748
Parippinthodu	75.8253	11.953
Parsons Valley	76.6857	11.403
Path to S.S.R.Estate	77.3858	8.5587
Peechi RF	76.3719	10.5344
Peermade	76.9833	9.5664
Peringalkuthu	76.7606	10.3386
Periya peak	75.8717	11.8351

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Periyar Tiger Reserve	77.2099	9.4783
Periyar Tiger Reserve	77.25	9.5167
Peruthady	75.2473	12.4212
Pezhakunnu	76.7291	10.3579
Pomparai - Palani Hills	77.5089	10.168
Ponmudi	77.0692	8.754
Ponmudi	77.1094	8.7688
Ponmudi	77.2061	8.8406
Ponmudi	77.0692	8.754
Poochi thondu odai muthalirapan bridge	77.4019	8.5644
Pookode	76.0259	11.5432
Poovar, Eravikulam	77.0558	10.2172
PTR_1.5 km of Edapalayam IB	77.2071	9.5293
PTR_1/2 km of South of Edapalayam IB	77.2082	9.532
PTR_12 km from pamba IB towardsThannikudy	77.2037	9.515
PTR_2 km N.E of Edapalayam IB	77.2084	9.5238
PTR_2 km South of Manakkavalha IB	77.187	9.5214
PTR_2 km South of Edapalayam IB	77.1903	9.5156

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
PTR_2 km West of Manakkavilha IB	77.1795	9.512
PTR_3 km West of Edapalayam IB	77.1614	9.5224
PTR_East Cheriyakanam	77.2465	9.5197
PTR_East to Boat landing	77.1795	9.5782
PTR_Karadi kavala	77.1798	9.5864
PTR_Kokkara kandam	77.1816	9.5883
PTR_Mullakudi	77.1247	9.5656
PTR_Mullayaru	77.1626	9.4946
PTR_Opp to TN I	77.2101	9.5394
PTR_Opposite to Periyar House	77.1977	9.5326
PTR_Poonamava	77.3075	9.5565
PTR_Sethayna odai	77.2579	9.5146
PTR_Thambiran thuruthy	77.2021	9.6184
PTR_Thannikudy	77.234	9.585
PTR_Valiya thuruthy	77.138	9.5629
PTR_Vellanai kazhan	77.1463	9.5597
Pulikkal	75.923	11.1695
Pykara (Ooty)	76.6909	11.4199
Rajakkad Estate	77.1012	9.9639
Rajakkal	77.1151	9.951

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Rajakoop	77.1492	8.9749
Rajiv Gandhi NP	76.1889	11.9677
Rallia Dam, Coonoor	76.8574	11.4191
Ramachi	75.8767	11.9203
Rashigudda BWLS	75.6161	13.5147
Road to Nellaimpathy estate_ Karapara	76.7174	10.5379
S.W. of Sengaltheri Nature trail	77.4515	8.5337
Sabarigiri	77.0671	9.305
Sakleshpur	75.7	12.9333
Samse	75.2941	13.2232
Sankaran Kudi	76.9319	10.2461
Saravathi	75.3022	14.3242
Seethaboomi	75.253	13.2369
Sengaltheri	77.4544	8.5371
Sengaltheri & Kakachi path	77.4515	8.533
Sengaltheri East	77.4662	8.5417
Sengaltheri Road	77.4519	8.5369
Sengaltheri south	77.4552	8.5273
Sengaltheri South east	77.4757	8.5347
Sengaltheri to Kuliretti area	77.4473	8.5187

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Sengaltheri West	77.4254	8.5073
Settukunnu	76.0344	11.5582
SG_3 km Road to Moozhiar from IB	77.1496	9.4631
SG_6 Km towards kakki	77.1442	9.4653
SG_Dyanamite house	77.0665	9.3163
SG_Eighteen five	77.1006	9.3561
SG_Peparai	77.1239	9.368
SG_Road to Kakki Reservoir	77.091	9.2768
SG_Sayibukuzhi	77.0448	9.3367
SG_Tunnel phase	77.0847	9.3179
SG_Vettaiyar	77.0825	9.2379
SG_Western eighteen five	77.072	9.1986
Shencottah	77.2944	8.9833
Sholayar	76.7846	10.2982
Sholayar dam	76.796	10.307
Silent Valley	76.4809	11.2294
SIMS park (Upper Coonor)	76.7979	11.3573
Sims_Park_Coonor	76.7902	11.3391
Sinkona	76.7324	11.4273
Siruvani forest	76.6639	10.9765

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Solai palam aru way to Kakachi	77.2797	8.4575
Someshwar	75.2048	13.5634
Someshwara	75.0655	13.4913
South east of pamba	77.1361	9.2221
South East of Pamba & 1B	77.061	9.4135
Sringeri	75.2513	13.4169
Stamiole Estate Valparai (Anaimalai)	76.9792	10.3671
Stanley park	76.7895	11.3654
Stream near 16Km Stone to Sengalathai	77.4918	8.5254
Stream near Nalumuku Estate	77.503	8.5224
Suganthagiri	76.127	11.6356
Suganthagiri, Puzhuthana, Wayanad	76.0282	11.5853
Sukhalhatti BWLS	75.6665	13.6286
Sulthanbathery	76.2382	11.7197
SVNP_ 1 km west side of camp - III	76.4519	11.1595
SVNP_12km towards Mukkali from base camp.	76.5721	11.0747
SVNP_16 km from I camp to Mukkali	76.595	11.0316

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
SVNP_2.5 km from Silent valley camp - I	76.5114	11.1686
SVNP_25 km from Mukkali (base camp)	76.5187	11.1787
SVNP_4 km towards Kumatan Thodu	76.561	11.0695
SVNP_5 km from dam site; left of Kuntipuzha	76.4248	11.1246
SVNP_5 km N.W. of S.Valley camp II	76.4248	11.1275
SVNP_5 km towards east from Valiyaparathodu	76.4421	11.0856
SVNP_5 km towards Mukkali	76.4459	11.1102
SVNP_6 km towards north from base camp.	76.4093	11.0747
SVNP_8 km from Ist camp	76.4199	11.0906
SVNP_8 km from Mukkali	76.4374	11.0932
SVNP_Bamoo forest camp - III	76.4005	11.1017
SVNP_Cardamom estate	76.4374	11.0485
SVNP_Dam site camp	76.4288	11.1152
SVNP_Forest 4 & 5	76.4285	11.1327
SVNP_Half way to Valiyaparathodu	76.432	11.1108
SVNP_N.W.of cap II	76.3922	11.124
SVNP_Panthanthodu	76.4244	11.1447

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
SVNP_Poochipara	76.3932	11.0953
SVNP_River bank in from of camp site	76.45	11.0409
SVNP_Road to cardomom Estate	76.4422	11.0273
SVNP_Sayvala	76.4383	11.0293
SVNP_South of kunti river camp - II	76.4502	11.0109
SVNP_Valiyaparathodu	76.4297	11.1158
SVNP_Vellaparai	76.4233	11.1242
SVNP_Vellathaodu 5 km west of camp	76.4291	11.1112
Talapu	75.6328	12.5283
Taliparamba	75.3701	12.042
Taulukan Parai	77.4688	8.5067
Tenmalai	77.1677	9.0073
Thala odai Sengaltheri East	77.4788	8.5108
Thalakaveri	75.5472	12.4305
Thattেকad	76.7	10.1333
Thekady	77.2	9.5833
Thenmala	77.0665	8.9538
Thenmala	77.2152	8.9876
Theppakadu	76.5074	11.5706

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Thirunavaya	75.9852	10.8746
Thirunelly	76.1112	11.9
Thirunelveli	77.4513	8.4147
Thrissur	76.203	10.5105
Thunakadavu	76.7636	10.3833
Thusharagiri	76.0572	11.4746
Tirunelly	75.9898	11.9024
Top Slip FRH	76.9612	10.4244
Top slip. Varagaliar	76.8331	10.4759
Turner's Valley, Eravikulam	77.1074	10.2183
Upper Kodayar	77.3571	8.5152
Vagaman	76.9052	9.6887
Vaithu parai Mansholai Aru	77.3768	8.4864
Valakani kasam	77.4665	8.5205
Valakani kasam -Nambikovil	77.4979	8.4329
Vallakadavu	77.1033	9.52
Vallamvetti	76.8653	8.9528
Valley view	76.6905	11.4244
Valparai	76.9667	10.3667
Vandeperiyar	77.0895	9.5732
Vaniyampara	76.4794	10.6205
Vannathimala	75.945	11.5938

<b>Locality</b>	<b>Longitude</b>	<b>Latitude</b>
Vazhachal	76.5821	10.3006
Vazhathopu	76.9613	9.8749
Venkidds Valley	75.6892	12.2619
Veragliyar	76.8473	10.4117
Virajpet	75.8041	12.2007
Vythiri	76.0359	11.5491
Wattekole	75.7924	12.1025
Way Kakachi from Nalumuku	77.526	8.3971
Way to Kakkachi Estate	77.5004	8.5225
Way to Kuliratti	77.4909	8.5252
Way to Kuliratti Estate	77.4949	8.5246
Way to Nettaerikal	77.4861	8.5112
Way to Nettaerikal	77.4861	8.5112
Way to S.S.R. Estate	77.4802	8.5122
Way to Thala odai (Night)	77.4937	8.5255
Wayanad	76.0991	11.6117
Wellington (Coonor)	76.7881	11.3625
Wilderness (Virdi)	74.0749	15.646

PTR : Periyar Tiger Reserve  
SVNP : Silent Valley National Park

## BIOCLIMATIC DISTRIBUTION

FAMILY	Genera	Species
Bufonidae	<i>Duttaphrynus</i>	<i>Duttaphrynus beddomii</i> Gunther, 1876
Bufonidae	<i>Duttaphrynus</i>	<i>Duttaphrynus brevirostris</i> Rao, 1937
Bufonidae	<i>Duttaphrynus</i>	<i>Duttaphrynus microtypanum</i> (Boulenger, 1882)
Bufonidae	<i>Duttaphrynus</i>	<i>Duttaphrynus silentvalleyensis</i> Pillai, 1981
Bufonidae	<i>Ghatophryne</i>	<i>Ghatophryne ornata</i> (Gunther, 1876)
Bufonidae	<i>Ghatophryne</i>	<i>Ghatophryne rubigina</i> (Pillai and Pattabiraman, 1981)
Bufonidae	<i>Pedostibes</i>	<i>Pedostibes tuberculosus</i> Gunther, 1875
Bufonidae	<i>Xanthophryne</i>	<i>Xanthophryne koynayensis</i> (Soman, 1963)
Bufonidae	<i>Xanthophryne</i>	<i>Xanthophryne tigrinus</i> Biju, Van Bocslaer, Giri, Loader and Bossuyt, 2009
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis carnosus</i> (Beddome, 1870)
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis danieli</i> Giri, Wilkinson and Gower, 2003

## OF ENDEMIC AMPHIBIANS

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
189	1386	20	26	99	100	1697	1734	53	59
981	981	22	22	176	176	1175	1175	106	106
169	2210	14	27	99	164	775	3500	52	129
703	2187	14	24	117	127	2249	2565	86	104
101	880	22	27	121	150	3663	4059	122	142
959	2187	14	22	117	126	2329	3976	86	131
7	2187	14	28	99	150	1697	4654	53	160
205	530	25	26	172	179	2891	3332	153	157
742	742	24	24	173	173	3480	3480	162	162
169	1055	22	27	98	159	1510	3565	58	135
742	742	24	24	173	173	3480	3480	162	162

FAMILY	Genera	Species
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis goaensis</i> Bhatta, Dinesh, Prashanth and Kulkarni, 2007
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis krishni</i> Pillai and Ravichandran, 2005
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis madhavai</i> Bhatta and Srinivasa, 2004
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis mhadeiensis</i> Bhatta, Dinesh, Prashanth and Kulkarni, 2007
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis nadakarnii</i> Bhatta and Prashanth, 2004
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis pareshi</i> Giri, Gower, Gaikwad and Wilkinson, 2011
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis ramaswamii</i> Taylor, 1964
Caecilidae	<i>Gegeneophis</i>	<i>Gegeneophis seshachari</i> Ravichandran, Gower and Wilkinson, 2003
Caecilidae	<i>Gegeneophis</i>	<i>Gegenophis primus</i> Gower et al., 2011
Caecilidae	<i>Indotyphlus</i>	<i>Indotyphlus battersbyi</i> Taylor, 1960

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
105	105	27	27	145	145	2884	2884	145	145
31	31	27	27	113	113	3852	3852	132	132
7	7	27	27	118	118	4366	4366	136	136
462	462	25	25	160	160	3043	3043	153	153
88	462	25	27	140	160	2759	3043	143	153
295	295	26	26	134	134	3329	3329	148	148
331	1055	22	26	98	113	1563	1798	55	58
43	43	27	27	139	139	3145	3145	146	146
757	757	23	23	130	130	3760	3760	130	130
43	687	24	27	139	214	3145	4599	146	165

FAMILY	Genera	Species
Caecilidae	<i>Indotyphlus</i>	<i>Indotyphlus maharashtraensis</i> Giri, Gower and Wilkinson, 2004
Dicroglossidae	<i>Euphlyctis</i>	<i>Euphlyctis aloysii</i> Joshy, Alam, Kurabayashi, Sumida and Kuramoto, 2009
Dicroglossidae	<i>Euphlyctis</i>	<i>Euphlyctis mudigere</i> Joshy, Alam, Kurabayashi, Sumida and Kuramoto, 2009
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya brevipalmata</i> (Peters, 1871)
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya caperata</i> Kuramoto, Joshy, Kurabayashi and Sumida, 2007
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya granosa</i> Kuramoto, Joshy, Kurabayashi and Sumida, 2007
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya kudremukhensis</i> Kuramoto, Joshy, Kurabayashi and Sumida, 2007
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya mudduraja</i> Kuramoto, Joshy, Kurabayashi and Sumida, 2007

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
530	530	25	25	179	179	2891	2891	157	157
22	775	24	27	111	185	1285	3878	119	131
961	961	22	22	165	165	2388	2388	130	130
149	1546	19	27	115	159	1925	5882	68	142
634	634	24	24	136	136	5267	5267	134	134
511	511	25	25	144	144	3743	3743	127	127
880	880	22	22	150	150	4052	4052	142	142
511	511	25	25	144	144	3743	3743	127	127

FAMILY	Genera	Species
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya murthii</i> (Pillai, 1979)
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya mysorensis</i> (Rao, 1922)
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya nilagirica</i> (Jerdon, 1853)
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya parambikulamana</i> (Rao, 1937)
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya rufescens</i> (Jerdon, 1853)
Dicroglossidae	<i>Fejervarya</i>	<i>Fejervarya sauriceps</i> (Rao, 1937)
Dicroglossidae	<i>Minervarya</i>	<i>Minervarya sahyadris</i> (Dubois, Ohler and Biju, 2001)
Dicroglossidae	<i>Sphaerotheca</i>	<i>Sphaerotheca dobsoni</i> (Boulenger, 1882)
Dicroglossidae	<i>Sphaerotheca</i>	<i>Sphaerotheca leucorhynchus</i> (Rao, 1937)
Ichthyophiidae	<i>Ichthyophis</i>	<i>Ichthyophis beddomei</i> Peters 1879
Ichthyophiidae	<i>Ichthyophis</i>	<i>Ichthyophis bombayensis</i> Taylor, 1960
Ichthyophiidae	<i>Ichthyophis</i>	<i>Ichthyophis davidi</i> Bhatta, Dinesh, Prashanth, Kulkarni and Radhakrishnan, 2011

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1924	1924	16	16	135	135	2128	2128	91	91
508	508	25	25	145	145	3930	3930	159	159
801	1096	21	23	128	138	2145	3972	105	130
696	696	24	24	115	115	2350	2350	90	90
3	1839	17	27	94	214	598	4599	55	164
748	748	23	23	140	140	3113	3113	127	127
35	977	23	27	127	185	746	3663	83	124
19	1034	22	27	110	218	2305	4549	131	164
748	748	23	23	140	140	3113	3113	127	127
36	2210	14	27	103	178	1002	5041	63	159
36	1546	19	27	103	154	1274	3968	63	145
462	462	25	25	160	160	3043	3043	153	153

FAMILY	Genera	Species
Ichthyophiidae	<i>Ichthyophis</i>	<i>Ichthyophis kodaguensis</i> Wilkinson, Gower, Govindappa and Venkatachalaiah, 2007
Ichthyophiidae	<i>Ichthyophis</i>	<i>Ichthyophis longicephalus</i> Pillai, 1986
Ichthyophiidae	<i>Ichthyophis</i>	<i>Ichthyophis tricolor</i> Annandale, 1909
Ichthyophiidae	<i>Uraeotyphlus</i>	<i>Uraeotyphlus gansi</i> Gower, Rajendran, Nassbaum and Wilkinson, 2008
Ichthyophiidae	<i>Uraeotyphlus</i>	<i>Uraeotyphlus interruptus</i> Pillai and Ravichandran, 2005
Ichthyophiidae	<i>Uraeotyphlus</i>	<i>Uraeotyphlus malabaricus</i> (Beddome, 1870)
Ichthyophiidae	<i>Uraeotyphlus</i>	<i>Uraeotyphlus menoni</i> Annandale, 1913
Ichthyophiidae	<i>Uraeotyphlus</i>	<i>Uraeotyphlus narayani</i> Seshachar, 1939
Ichthyophiidae	<i>Uraeotyphlus</i>	<i>Uraeotyphlus oommeni</i> Gower and Wilkinson, 2007
Ichthyophiidae	<i>Uraeotyphlus</i>	<i>Uraeotyphlus oxyurus</i> (Dumeril and Bibron, 1841)

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
825	907	22	23	142	155	3170	3495	125	138
1386	2187	14	20	99	117	1697	2329	53	86
3	778	23	27	94	149	1594	3034	58	108
316	316	26	26	113	113	1205	1205	60	60
6	927	23	27	99	154	2147	3706	81	145
1386	2210	14	20	99	126	1697	1877	53	71
74	937	22	27	122	130	3500	4650	127	131
53	992	22	27	97	154	1989	4650	60	145
1055	1055	22	22	98	98	1798	1798	58	58
6	1546	19	27	97	133	1697	3636	53	128

FAMILY	Genera	Species
Micohylidae	<i>Melanobatrachus</i>	<i>Melanobatrachus indicus</i> Beddome, 1878
Micohylidae	<i>Microhyla</i>	<i>Microhyla sholigari</i> Dutta and Ray, 2000
Micohylidae	<i>Ramanella</i>	<i>Ramanella anamalaiensis</i> Rao, 1937
Micohylidae	<i>Ramanella</i>	<i>Ramanella minor</i> Rao, 1937
Micohylidae	<i>Ramanella</i>	<i>Ramanella montana</i> (Jerdon, 1854)
Micohylidae	<i>Ramanella</i>	<i>Ramanella marmorata</i> Rao, 1937
Micohylidae	<i>Ramanella</i>	<i>Ramanella triangularis</i> (Gunther, 1876)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus elegans</i> (Rao, 1937)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus fuscus</i> (Boulenger, 1882)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus gadgili</i> Pillai and Pattabiraman, 1990
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus kottigeharensis</i> (Rao, 1937)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus narainensis</i> (Rao, 1937)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus nudis</i> Pillai, 1978

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
699	1546	19	24	98	133	1697	2064	53	73
1078	1078	22	22	180	180	745	745	90	90
1546	1546	19	19	133	133	1925	1925	68	68
1010	1010	22	22	160	160	2979	2979	141	141
146	2060	16	26	99	195	1653	3500	53	154
664	1010	22	24	147	160	2979	5041	141	151
189	1096	21	26	100	142	1734	3813	59	132
981	981	22	22	176	176	1175	1175	106	106
85	1546	19	27	96	146	998	4824	53	148
387	1003	22	26	105	122	1940	2080	61	72
799	799	23	23	159	159	2840	2840	135	135
799	799	23	23	159	159	2840	2840	135	135
89	1025	22	28	100	151	1734	3500	59	128

FAMILY	Genera	Species
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus phyllophilus</i> (Jerdon, 1853)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus saxicola</i> (Jerdon, 1853)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus silvaticus</i> (Boulenger, 1882)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus swamianus</i> (Rao, 1937)
Micrixalidae	<i>Micrixalus</i>	<i>Micrixalus thampii</i> Pillai, 1981
Nasikabatrachidae	<i>Nasikabatrachus</i>	<i>Nasikabatrachus sahyadrensis</i> Biju and Bossuyt, 2003
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus acanthodermis</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus aliciae</i> Inger, Shaffer, Koshy and Bakde, 1984
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus anamallaiensis</i> (Myers, 1942)
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus beddomii</i> (Boulenger, 1882)

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
99	1839	17	27	99	163	1148	2145	53	105
39	1235	21	28	121	196	1139	5365	99	147
573	1924	16	25	97	138	1148	2463	53	105
799	799	23	23	159	159	2840	2840	135	135
2187	2187	14	14	117	117	2329	2329	86	86
40	2187	14	28	97	144	1480	3551	67	105
982	982	22	22	119	119	2128	2128	84	84
609	1246	21	24	100	105	1630	1817	56	58
696	1202	21	24	115	127	1965	2350	75	90
135	1386	20	27	99	115	1161	1748	53	60

FAMILY	Genera	Species
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus danieli</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus dattatreyaensis</i> Dinesh, Radhakrishnan and Bhatta, 2008
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus deccanensis</i> Dubois, 1984
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus deveni</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus gavi</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus grandis</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
742	787	23	24	173	194	2372	3480	156	162
780	1416	20	23	148	190	813	4003	93	145
816	2073	16	24	117	137	1288	2501	64	83
982	982	22	22	119	119	2128	2128	84	84
595	912	23	25	111	118	2044	2221	81	86
750	959	22	23	123	141	2250	4140	120	131

FAMILY	Genera	Species
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus humayuni</i> Bhaduri and Kripalani, 1955
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus indraneili</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus jog</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus karnatakaensis</i> Dinesh, Radhakrishnan, Reddy and Gururaja, 2007
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus kempholeyensis</i> (Rao, 1937)
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus major</i> Boulenger, 1882
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus minimus</i> Biju, Bocxlaer, Giri, Roelants, Nagaraju and Bossuyt, 2007

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
36	1142	21	27	194	226	2372	4352	156	163
1776	1776	17	17	167	167	1264	1264	61	61
720	789	23	23	143	149	4232	4824	148	148
772	789	23	23	143	145	4570	4824	147	148
74	1341	19	27	121	181	848	4654	88	149
85	1386	20	27	96	135	949	2396	53	71
838	838	23	23	138	138	2657	2657	121	121

FAMILY	Genera	Species
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus minor</i> Inger, Shaffer, Koshy and Bakde, 1984
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus periyar</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus petraeus</i> Das and Kunte, 2005
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus pillaii</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus poocha</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt, 2011
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus sanctipalustris</i> Rao, 1920
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus shiradi</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
85	675	24	27	96	105	1657	2396	56	68
3	1164	21	27	94	173	1903	3480	61	162
462	609	25	25	160	167	2811	3043	153	155
190	790	24	27	113	134	1030	1386	55	66
866	1814	17	23	111	127	1903	2681	66	87
178	1264	20	27	130	143	2848	5365	122	135
788	1252	21	23	161	181	848	2614	88	133

FAMILY	Genera	Species
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus sylvaticus</i> Rao, 1937
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus vasanthi</i> Ravichandran, 1997
Nyctibatrachidae	<i>Nyctibatrachus</i>	<i>Nyctibatrachus vrijeuni</i> Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri and Bossuyt 2011
Ranidae	<i>Clinotarsus</i>	<i>Clinotarsus curtipes</i> (Jerdon, 1853)
Ranixalidae	<i>Indirana</i>	<i>Indirana beddomii</i> (Gunther, 1875)
Ranixalidae	<i>Indirana</i>	<i>Indirana brachytarsus</i> (Gunther, 1875)
Ranixalidae	<i>Indirana</i>	<i>Indirana diplosticta</i> (Gunther, 1876)
Ranixalidae	<i>Indirana</i>	<i>Indirana gundia</i> (Dubois, 1986)
Ranixalidae	<i>Indirana</i>	<i>Indirana leithii</i> (Boulenger, 1888)
Ranixalidae	<i>Indirana</i>	<i>Indirana leptodactyla</i> (Boulenger, 1882)
Ranixalidae	<i>Indirana</i>	<i>Indirana longicrus</i> (Rao, 1937)
Ranixalidae	<i>Indirana</i>	<i>Indirana phrynoderma</i> (Boulenger, 1882)

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
710	981	22	23	151	181	848	3938	88	140
790	1386	20	24	99	113	1344	1697	53	55
289	763	23	27	135	163	735	3109	84	125
3	1776	17	27	94	196	1139	4230	56	143
38	1839	17	28	97	163	1078	5365	53	148
3	1634	18	27	94	123	1184	3230	53	90
189	994	22	26	100	123	1665	1940	57	72
977	977	23	23	185	185	746	746	83	83
292	1034	22	26	135	218	2305	4897	129	164
681	2073	16	25	100	156	988	2704	54	90
981	981	22	22	176	176	1175	1175	106	106
1546	1546	19	19	133	133	1925	1925	68	68

FAMILY	Genera	Species
Ranixalidae	<i>Indirana</i>	<i>Indirana semipalmata</i> (Boulenger, 1882)
Ranixalidae	<i>Indirana</i>	<i>Indirana tenuilingua</i> (Rao, 1937)
Rhacophoridae	<i>Ghatixalus</i>	<i>Ghatixalus asterops</i> (Biju, Roelants and Bossuyt, 2008)
Rhacophoridae	<i>Ghatixalus</i>	<i>Ghatixalus variabilis</i> (Jerdon, 1853)
Rhacophoridae	<i>Polypedates</i>	<i>Polypedates bijui</i> Zachariah, Dinesh, Radhakrishnan, Kunhikrishnan, Palot and Vishnudas, 2011
Rhacophoridae	<i>Polypedates</i>	<i>Polypedates</i> <i>occidentalis</i> Das and Dutta, 2006
Rhacophoridae	<i>Polypedates</i>	<i>Polypedates</i> <i>pseudocruciger</i> Das and Ravichandran, 1998
Rhacophoridae	<i>Pseudophilautus</i>	<i>Pseudophilautus</i> <i>amboli</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Pseudophilautus</i>	<i>Pseudophilautus kani</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Pseudophilautus</i>	<i>Pseudophilautus</i> <i>wynaadensis</i> (Jerdon, 1854)

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
3	1634	18	28	94	150	1617	4897	53	146
981	981	22	22	176	176	1175	1175	106	106
1739	2100	16	18	122	134	1669	2709	52	88
1096	2292	14	21	120	142	1681	2704	62	105
1538	1538	19	19	121	121	2640	2640	88	88
18	991	22	28	125	168	2153	3089	99	122
267	937	22	26	111	130	1136	3500	63	128
462	742	24	25	145	178	2307	3930	149	162
133	1401	20	28	97	141	1015	1798	53	70
9	1164	21	28	115	171	1026	3500	66	128

FAMILY	Genera	Species
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes agasthyaensis</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes akroparallagi</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes anili</i> (Biju and Bossuyt, 2006)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes beddomii</i> (Gunther, 1876)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes bobingeri</i> (Biju and Bossuyt, 2005)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes bombayensis</i> (Annandale, 1919)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes chalazodes</i> (Gunther, 1876)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes charius</i> (Rao, 1937)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes chlorosomma</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes chotta</i> (Biju and Bossuyt, 2009)

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1055	1089	22	22	98	106	1750	1798	57	58
169	1055	22	27	98	130	1510	4140	56	131
189	948	22	26	100	139	1734	4140	59	131
262	1386	20	26	99	125	1078	1697	53	63
189	189	26	26	100	100	1734	1734	59	59
462	1634	18	25	123	178	2307	3480	90	162
1055	1217	21	22	98	99	1678	1798	54	58
799	1106	21	23	151	178	1657	2840	121	135
1634	1634	18	18	123	123	2725	2725	90	90
189	262	26	26	100	104	1665	1734	57	59

FAMILY	Genera	Species
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes chromasynchysi</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes coonoorensis</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes crustai</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes dubois</i> (Biju and Bossuyt, 2006)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes glandulosus</i> (Jerdon, 1854)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes graminirupes</i> (Biju and Bossuyt, 2005)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes griet</i> (Bossuyt, 2002)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes jayarami</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes johnceei</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
838	888	22	23	138	157	2657	3015	121	134
1839	1839	17	17	163	163	1386	1386	55	55
1055	1055	22	22	98	98	1798	1798	58	58
2073	2135	15	16	119	134	1669	2398	58	73
696	2292	14	24	99	165	1254	2473	53	121
189	189	26	26	100	100	1734	1734	59	59
887	1634	18	23	105	133	1925	2725	68	90
1202	1546	19	21	127	133	1925	1965	68	75
1055	1055	22	22	98	98	1798	1798	58	58

FAMILY	Genera	Species
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes kadalarensis</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes kaikatti</i> Biju and Bossuyt, 2009
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes luteolus</i> (Kuramoto and Joshy, 2003)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes manohari</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes marki</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes nerostagona</i> (Biju and Bossuyt, 2005)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes ochlandrae</i> (Gururaja, Dinesh, Palot, Radhakrishnan and Ramachandra, 2007)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes ponmudi</i> (Biju and Bossuyt, 2005)

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1538	1538	19	19	121	121	2640	2640	88	88
982	982	22	22	119	119	2128	2128	84	84
201	1106	21	26	134	190	1018	4654	106	159
1055	1055	22	22	98	98	1798	1798	58	58
982	982	22	22	119	119	2128	2128	84	84
875	937	22	23	130	141	2125	3500	114	128
948	948	22	22	123	123	4140	4140	131	131
189	1546	19	26	100	141	1734	3500	59	128

FAMILY	Genera	Species
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes ravii</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes resplendens</i> Biju, Shouche, Dubois, Dutta and Bossuyt, 2010
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes signatus</i> (Boulenger, 1882)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes sushili</i> (Biju and Bossuyt, 2009)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes theuerkaufi</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes thodai</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes tinniens</i> (Jerdon, 1853)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes travancoricus</i> (Boulenger, 1891)

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1924	1924	16	16	135	135	2128	2128	91	91
2060	2060	16	16	117	117	2451	2451	75	75
89	2230	14	28	116	163	956	2538	55	115
1202	1546	19	21	127	133	1925	1965	68	75
1538	1538	19	19	121	121	2640	2640	88	88
2177	2210	14	15	126	132	1766	1877	68	71
1096	2210	14	21	126	163	1325	2145	55	105
887	2031	16	23	105	131	1928	2493	58	79

FAMILY	Genera	Species
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes tubero humerus</i> (Kuramoto and Joshy, 2003)
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestes uthamani</i> Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot and Kalesh, 2011
Rhacophoridae	<i>Raorchestes</i>	<i>Raorchestus munnarensis</i> Biju and Bossuyt, 2009
Rhacophoridae	<i>Raorchestes</i>	<i>Rhacophorus calcadensis</i> Ahl, 1927
Rhacophoridae	<i>Raorchestes</i>	<i>Rhacophorus lateralis</i> Boulenger, 1883
Rhacophoridae	<i>Raorchestes</i>	<i>Rhacophorus malabaricus</i> Jerdon, 1870
Rhacophoridae	<i>Raorchestes</i>	<i>Rhacophorus pseudomalabaricus</i> Vasudevan and Dutta, 2000

Altitude (m)		Mean Annual Temp(°C )		Temp Seasonality (STD × 100)		Annual Rainfall (mm)		Precipitation Seasonality (CV)	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
664	1010	22	24	147	176	1175	5041	106	151
912	912	23	23	111	111	2144	2144	71	71
1634	1634	18	18	123	123	2725	2725	90	90
1159	1386	20	21	98	99	1697	1736	53	55
842	1640	18	23	117	168	1879	4052	65	142
13	1251	20	27	97	160	1184	3813	58	154
925	1202	21	23	127	138	1329	1965	63	75

## References

- Daniels, R.J.R. and Vencatesan, Jayasree, 2008. Western Ghats: Biodiversity, People and Conservation. Rupa and Co., 148pp.
- Dinesh, K.P., Radhakrishnan, C., Gururaja, K.V. and Bhatta, G. 2009. An annotated checklist of Amphibia of India with some insights into the patterns of species discoveries, distribution and endemism. *Rec. zool. Surv. India, Occasional Paper No. 302*: 1-152.
- Dinesh, K.P., Radhakrishnan, C. Gururaja, K.V., Deuti, K. and Bhatta, G.K. 2012. A Checklist of Amphibia of India, Updated till August 2012 (Online Version). [http://zsi.gov.in/checklist/Amphibia\\_final.pdf](http://zsi.gov.in/checklist/Amphibia_final.pdf).
- Frost, Darrel R. 2011. Amphibian Species of the World: an Online Reference. Version 5.5 (31 January, 2011). Electronic Database accessible at <http://research.amnh.org/vz/herpetology/amphibia/> American Museum of Natural History, New York, USA.
- Myers, N., Mittermeier, R.A., Mittermeier, C.G., Da Fonseca, G.A.B. and Kent, J., 2000. Biodiversity hotspots for conservation priorities. *Nature*, **403**: 853-858.



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