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Database of amphibian vouchers and records available at the Kerala Agricultural University Natural History Museum in Thrissur and an updated checklist of amphibians of Kerala, India

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Abstract: The amphibian database of the Centre for Wildlife Studies with the Kerala Agricultural University Natural History Museum (KAUNHM) or as photo vouchers and other opportunistic records from Kerala part of the southern Western Ghats between 2008 and 2020. This repository holds information on 91 species of amphibians belonging to 10 families, of which 87% are endemic to the Western Ghats and 34% are classified under the IUCN Red List threatened categories. This study highlights the significance of such digital databases that can serve as an immense source of regional biodiversity data, and therefore, biodiversity monitoring and conservation.

Keywords: Data paper, endemism, IUCN, Red List, Western Ghats.

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INTRODUCTION

Among the vertebrates in the world, amphibians are the most threatened taxa and have the highest proportion of species on the verge of extinction (Baillie et al. 2004; Roelants et al. 2007). The Western Ghats is considered as one of the amphibian hotspots of India (Dutta 1997; Dubois 1999; Biju 2001). The part of the southern Western Ghats within the political boundary of Kerala is exceptionally rich in amphibian diversity due to various favorable climatic and edaphic factors and the unique distribution of diverse vegetation communities and habitats.

Biju (2001), after his seven-year fieldwork, published an eye-opening article that indicated the presence of several unidentified anuran amphibian species from the Western Ghats. This was one of the primary evidence for the untapped and unexplored biological wealth of a megadiverse country. The latest publication is by Das (2015) which enlisted 151 species of amphibians from Kerala. Since then, within a span of five years, 30 new species have been added to the checklist of amphibians of Kerala (Abraham et al. 2015; Dinesh et al. 2015; Howlader et al. 2015; Dahanukar et al. 2016; Garg & Biju 2017, 2019; Garg et al. 2017, 2019; Krutha et al. 2017; Joshy et al. 2009; Vijayakumar et al. 2019). This trend indicates that more novelties among the amphibians are yet to be known from Kerala, as are from other parts of the Western Ghats. Besides that, amphibian data suffer from biases due to the inconspicuous nature, unique biology & ecology of several species and the challenges in undertaking field studies in the forests at odd hours. According to Nameer et al. (2015), 33% of the amphibians belong to various threatened categories of the IUCN Red List of Threatened Species. Hence, documentation of amphibians is extremely important to win the Linnean shortfall which is considered as a basic flaw in biodiversity data (Hortal et al. 2015; Ficetola et al. 2019).

Most of the amphibian documentation in Kerala were primarily focussed within the protected area networks. However, the studies on amphibians by Murali & Raman (2012), Rathod & Rathod (2013), Syamili & Nameer (2018), and Afthab et al. (2018) highlighted the importance of human-modified landscapes within or adjacent to the Western Ghats mountains in amphibian conservation. Therefore, to bridge this Wallacean shortfall in amphibians the role of professionally maintained natural history museum collections (Melber & Abraham 2002; Winker 2004) and photo vouchers from both protected areas and human-modified landscapes are crucial. Though the national natural history museum collections are well known to the scientific world, the works by Ganesh et al. (2020) and Zacharias & Jose (2020) throw light on the significance of hidden local natural history museum collections on herpetofauna.

The Centre for Wildlife Studies of Kerala Agricultural University (KAU) has been documenting the biodiversity of the southern Western Ghats over the past three decades. This work by Centre for Wildlife Studies underlines the contemporary relevance of local natural history museum collections and photo vouchers in this digital era which can act as an important source of information on the taxa in question.

Study Area

The amphibians have been documented from 46 different sites extended over 11 districts in Kerala. Besides human-dominated landscapes such as Kole Wetlands which is a Ramsar Site, educational institute campuses, and homegardens, data were also collected from tiger reserves (2 out of 2), wildlife sanctuaries (9/17), national parks (2/5), biological reserves (1/2), and reserve forests of Kerala, south India. The percentage of amphibian observations from respective geographic locations are represented as a heatmap (Figure 1).

METHODS

The documentation of amphibians by the Centre for Wildlife Studies commenced in 2008 and is continuing till date. There are three types of observations recorded in the amphibian database of KAUNHM: (i) voucher specimens are wet preserved in 70% alcohol, (ii) amphibian photo-vouchers from within and outside the protected areas/reserve forests of Kerala, and (iii) opportunistic records of amphibians from across the state. The respective museum registration number of voucher specimens, images of photo vouchers, and opportunistic observations are entered into a digital database along with species taxonomy, habitat, GPS data, observer’s/collector’s name, and date of observation (Table 2). The amphibians were identified with the help of the standard references such as Biju & Bossuyt (2009), Biju et al. (2011, 2014ab), Dinesh et al. (2015), Dahanukar et al. (2016), Garg & Biju (2016), and Garg et al. (2017). The taxonomy and nomenclature used in this paper follows Frost (2020).
RESULTS

The amphibian database of the Kerala Agricultural University Natural History Museum (KAUNHM) has information on 91 species which is around 50.3% of amphibians of Kerala, of which 79 species are endemic to the Western Ghats and 31 species come under various threatened categories of IUCN (Table 1). The KAUNHM has voucher specimens for 23% of amphibian species of Kerala (Table 1).

Among the 328 observations in the database 40% is voucher specimens followed by photo vouchers (36%) and opportunistic records (24%) (Table 2). Most of the observation is from the Palakkad District (35%) followed by Thrissur (28%) (Figure 1). Out of the 11 families of amphibians known from Kerala, KAUNHM has voucher specimens for the species belonging to nine families. The highest number of observations is from the family Rhacophoridae followed by the family Nyctibatrachidae (Figure 2). The only family for which we do not have information is Indotyphlyidae.

Out of the 30 genera of the amphibians seen in Kerala, we have information on the 23 genera (76.7%) (Table 3). Even though there are records of both orders Anura and Gymnophiona, 99% of the data deals with anurans. There is a lacuna in Gymnophiona observations since we have not conducted any systematic study on caecilians by taking into consideration its cryptic behaviour (Table 3).

The images of photo voucher specimens are attached as Appendix I and an updated checklist of amphibians of Kerala are attached as Appendix II.
Table 1. The checklist of amphibians available in the Kerala Agricultural University Natural History Museum (KAUNHM), Thrissur, Kerala.

| Scientific name | Authority | WG endemics | Red List status | No. of observations |
|-----------------|-----------|-------------|-----------------|--------------------|
| **A. Bufonidae** |           |             |                 |                    |
| 1. Duttaphrynus melanostictus* | Schneider, 1799 |  | LC | 14 |
| 2. Duttaphrynus microtymanum | Boulenger, 1882 | + | VU | 3 |
| 3. Duttaphrynus parietalis* | Boulenger, 1882 | + | NT | 2 |
| 4. Duttaphrynus scaber* | Schneider, 1799 |  | LC | 5 |
| 5. Ghatorphryne ornata | Gunther, 1876 |  | DD | 2 |
| 6. Ghatorphryne rubigina | Pillai & Pattabiraman, 1981 | + | VU | 1 |
| 7. Pedostibes tuberculosus | Gunther, 1875 |  | EN | 1 |
| **B. Dicroglossidae** |           |             |                 |                    |
| 8. Euphyctis cyanophlyctis* | Schneider, 1799 |  | LC | 8 |
| 9. Hoplobatrachus tigrinus* | Daudin, 1803 |  | LC | 7 |
| 10. Spherotheca breviceps* | Schneider, 1799 |  | LC | 5 |
| 11. Minervarya brevipalmata | Peters, 1871 | + | DD | 1 |
| 12. Minervarya kaday | Garg & Biju, 2017 | + | NE | 2 |
| 13. Minervarya keralensis* | Dubois, 1980 | + | LC | 10 |
| 14. Minervarya kudremukhensis | Kuramoto, Joshy, Kurabyashashi & Sumida, 2007 | + | NE | 2 |
| 15. Minervarya muddurajia* | Kuramoto, Joshy, Kurabyashashi & Sumida, 2007 | + | NE | 2 |
| **C. Micrixalidae** |           |             |                 |                    |
| 16. Micrixalus adonis* | Biju, Garg, Gururaja, Shouche & Walukar, 2014 |  | NE | 7 |
| 17. Micrixalus fuscus* | Boulenger, 1882 |  | NT | 2 |
| 18. Micrixalus gadgilii* | Pillai & Pattabiraman, 1990 | + | EN | 3 |
| 19. Micrixalus herrei | Myers, 1942 |  | NE | 1 |
| 20. Micrixalus nudis* | Pillai, 1978 |  | VU | 2 |
| 21. Micrixalus sairandhvi | Biju, Garg, Gururaja, Shouche & Walukar, 2014 | + | NE | 1 |
| 22. Micrixalus sali | Biju, Garg, Gururaja, Shouche & Walukar, 2014 | + | NE | 1 |
| 23. Micrixalus saxicola | Jerdon, 1854 | + | VU | 1 |
| 24. Micrixalus thampii* | Pillai, 1981 |  | DD | 3 |
| **D. Microhylidae** |           |             |                 |                    |
| 25. Microhyla darrei* | Garg, Suyesh, Das, Jiang, Wijayathilaka, Amarasinghe, Alhadi, Vineeth, Aravind, Seneviratne, Meegaskumbura & Biju, 2019 |  | DD | 4 |
| 26. Microhyla nilphamariensis | Howlader, Nair, Gopalan & Menilai, 2015 |  | NE | 4 |
| 27. Microhyla ornata* | Dumeril & Bibron, 1841 |  | LC | 4 |
| 28. Microhyla rubra* | Jerdon, 1854 |  | LC | 2 |
| 29. Upemodon anamalaiensis | Rao, 1937 |  | DD | 2 |
| 30. Upemodon montanus | Jerdon, 1854 |  | NT | 3 |
| 31. Upemodon systoma | Schneider, 1799 |  | LC | 1 |
| 32. Upemodon taprobanicus* | Parker, 1934 |  | LC | 6 |
| 33. Upemodon triangularis | Gunther, 1875 |  | VU | 2 |
| 34. Upemodon variegatus | Stoliczka, 1872 |  | LC | 2 |
| **E. Nasikabatrachidae** |           |             |                 |                    |
| 35. Nasikabatrachus sahyadrensis | Biju & Bossuyt, 2003 |  | EN | 3 |
| **F. Nyctibatrachidae** |           |             |                 |                    |
| 36. Nyctibatrachus acanthodermis | Biju, Bocxlaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri & Bossuyt, 2011 |  | NE | 3 |
| Scientific name | Authority | WG | Red List status | No. of observations |
|-----------------|-----------|----|-----------------|---------------------|
| **Nyctibatrachus** |           |    |                 |                     |
| 37. *Nyctibatrachus aliciae* | Inger, Shaffer, Koshy & Bakde, 1984 | + | EN | 1 |
| 38. *Nyctibatrachus anamallaensis* | Myers, 1942 | + | NE | 14 |
| 39. *Nyctibatrachus athirappillyensis* | Garg, Suyesh, Sukesan & Biju, 2017 | + | NE | 2 |
| 40. *Nyctibatrachus deccanensis* | Dubois, 1984 | + | VU | 1 |
| 41. *Nyctibatrachus deveni* | Biju, Boclaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri & Bossuyt, 2011 | + | NE | 1 |
| 42. *Nyctibatrachus gavi* | Biju, Boclaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri & Bossuyt, 2011 | + | NE | 1 |
| 43. *Nyctibatrachus kempheleyensis* | Rao, 1937 | + | DD | 3 |
| 44. *Nyctibatrachus major* | Inger, Shaffer, Koshy & Bakde, 1984 | + | EN | 1 |
| 45. *Nyctibatrachus minimus* | Biju, Boclaer, Giril, Roelants, Nagaraju & Bossuyt, 2007 | + | DD | 2 |
| 46. *Nyctibatrachus minor* | Inger, Shaffer, Koshy & Bakde, 1984 | + | EN | 1 |
| 47. *Nyctibatrachus periyar* | Biju, Boclaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri & Bossuyt, 2011 | + | NE | 1 |
| 48. *Nyctibatrachus poocha* | Biju, Boclaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri & Bossuyt, 2011 | + | NE | 2 |
| 49. *Nyctibatrachus vrijeuni* | Biju, Boclaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Giri & Bossuyt, 2011 | + | NE | 3 |
| **G. Ranidae** |           |    |                 |                     |
| 50. *Clinotarsus curtipes* | (Jerdon, 1853) | + | NT | 11 |
| 51. *Hydropylax malabaricus* | (Tschudi, 1838) | + | LC | 4 |
| 52. *Indosylvirana aurantia* | (Boulenger, 1904) | + | VU | 3 |
| 53. *Indosylvirana doni* | (Biju, Garg, Mahony, Wijayathilaka, Senevirathne, & Meegaskumara, 2014) | + | NE | 4 |
| 54. *Indosylvirana flavescens* | (Jerdon, 1853) | + | NE | 1 |
| 55. *Indosylvirana magna* | (Biju, Garg, Mahony, Wijayathilaka, Senevirathne, & Meegaskumara, 2014) | + | NE | 2 |
| 56. *Indosylvirana sreeni* | (Biju, Garg, Mahony, Wijayathilaka, Senevirathne, & Meegaskumara, 2014) | + | NE | 2 |
| 57. *Indosylvirana urbis* | (Biju, Garg, Mahony, Wijayathilaka, Senevirathne, & Meegaskumara, 2014) | + | NE | 3 |
| **H. Ranixalidae** |           |    |                 |                     |
| 58. *Indirana beddomii* | (Gunther, 1875) | + | LC | 9 |
| 59. *Indirana brachytarsus* | (Gunther, 1875) | + | EN | 6 |
| 60. *Indirana sarajamma* | Dahanukar, Modak, Krutha, Nameer, Padhye & Molur, 2016 | + | NE | 1 |
| 61. *Indirana semipalmata* | (Boulenger, 1882) | + | LC | 2 |
| 62. *Indirana yadera* | Dahanukar, Modak, Krutha, Nameer, Padhye & Molur, 2016 | + | NE | 1 |
| 63. *Walkerana leptodactyla* | Dahanukar, Modak, Krutha, Nameer, Padhye & Molur, 2016 | + | EN | 1 |
| **I. Rhacophoridae** |           |    |                 |                     |
| 64. *Ghatikalus asterops* | Biju, Roelants & Bossuyt, 2008 | + | DD | 2 |
| 65. *Polypedates maculatus* | (Gray, 1834) | + | DD | 7 |
| 66. *Polypedates occidentalis* | Das & Dutta, 2006 | + | DD | 4 |
| 67. *Pseudophilautus kani* | (Biju & Bossuyt, 2009) | + | LC | 1 |
| 68. *Pseudophilautus wynadensis* | (Jerdon, 1853) | + | EN | 30 |
| 69. *Raorchestes akroparaflagi* | (Biju & Bossuyt, 2009) | + | LC | 11 |
| 70. *Raorchestes anilii* | (Biju & Bossuyt, 2006) | + | LC | 6 |
| 71. *Raorchestes arctophilus* | Vijayakumar, Dinesh, Prabhu & Shanker, 2014 | + | NE | 1 |
| 72. *Raorchestes beddomii* | (Gunther, 1876) | + | NT | 4 |
| 73. *Raorchestes chramasynchysi* | (Biju & Bossuyt, 2009) | + | VU | 1 |
| Scientific name | Authority | WG endemics | Red List status | No. of observations |
|-----------------|-----------|-------------|-----------------|--------------------|
| 74. Raorchestes dubois | (Biju & Bossuyt, 2006) | + | VU | 2 |
| 75. Raorchestes glandulosus* | (Jerdon, 1853) | + | VU | 2 |
| 76. Raorchestes griet | (Bossuyt, 2002) | + | CR | 1 |
| 77. Raorchestes jayarami* | (Biju & Bossuyt, 2009) | + | NE | 6 |
| 78. Raorchestes kadavarensis | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palat & Kalesh, 2011 | + | NE | 1 |
| 79. Raorchestes koikatti* | (Biju & Bossuyt, 2009) | + | CR | 1 |
| 80. Raorchestes marki* | (Biju & Bossuyt, 2009) | + | CR | 6 |
| 81. Raorchestes munnaresensis | (Biju & Bossuyt, 2009) | + | CR | 1 |
| 82. Raorchestes nerostagona | (Biju & Bossuyt, 2005) | + | EN | 4 |
| 83. Raorchestes ochlandrae* | (Gururaja, Dinesh, Patol, Radhakrishnan & Ramachandra, 2007) | + | EN | 3 |
| 84. Raorchestes ponmudi* | (Biju & Bossuyt, 2005) | + | CR | 9 |
| 85. Raorchestes replensdens | Biju, Shouche, Dubois, Dutta & Bossuyt, 2010 | + | CR | 1 |
| 86. Raorchestes suthamani | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palat & Kalesh, 2011 | + | NE | 1 |
| 87. Rhacophorus calcdensis* | Ahl, 1927 | + | EN | 5 |
| 88. Rhacophorus lateralis | Boukenger, 1883 | + | EN | 1 |
| 89. Rhacophorus malabaricus* | Jerdon, 1870 | + | LC | 8 |
| 90. Rhacophorus pseudomalabaricus* | Vasudevan & Dutta, 2000 | + | CR | 2 |

J. Ichthyophiidae

| Species | Authority | WG endemics | Red List status | No. of observations |
|---------|-----------|-------------|-----------------|--------------------|
| 91. Uraeotyphlus menoni | Annandale, 1913 | + | DD | 2 |
| Total observations | | | | 328 |

*Species with voucher specimens at KAUNHM.

CONCLUSION

The amphibian database of the Kerala Agricultural University Natural History Museum (KAUNHM), Thrissur, Kerala, southern India which is an eclectic mix of museum collections, photo vouchers, and opportunistic records from the protected areas, reserved forests, wetlands and human-modified landscapes. This database can serve as an immense source of regional biodiversity information and thus be useful in various ways including the IUCN Red Listing process. We also present here an updated checklist of the amphibians of Kerala.

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Table 2. The amphibian database of Centre for Wildlife Studies, KAU.

| Image no | Record     | Date      | Scientific name          | Location                                    | Latitude (N) | Longitude (E) | Endemism | IUCN Red List status | Habitat                      | Observer/ Collector   |
|----------|------------|-----------|--------------------------|---------------------------------------------|--------------|---------------|----------|-----------------------|------------------------------|------------------------|
|          |            |           |                          |                                             |              |               |          |                       |                              |                        |
|          | A. Voucher Specimens                               |            |                          |                                             |              |               |          |                       |                              |                        |
|          | Order: Anura                                        |            |                          |                                             |              |               |          |                       |                              |                        |
|          | Family: Bufonidae                                   |            |                          |                                             |              |               |          |                       |                              |                        |
|          |                                                      |            |                          |                                             |              |               |          |                       |                              |                        |
| 1        | KAUNHM2011 03                                      | 29.iv.2011 | *Duttaphrynus melanostictus* | Parambikulam, PBTR, Palakkad               | 10.44783     | 76.78739      | LC       | Moist Deciduous Forest |                              | K.M. Jobin              |
| 2        | KAUNHM2013 13                                      | 10.v.2013  | *Duttaphrynus melanostictus* | Mullipara, PVWS, Thrissur                  | 10.64100     | 76.30892      | LC       | Moist Deciduous Forest |                              | J. Jobin, D. Deepak    |
| 3        | KAUNHM2013 42                                      | 25.vii.2013| *Duttaphrynus melanostictus* | Mangalamkava, CMWS, Thrissur               | 10.45439     | 76.54869      | LC       | Moist Deciduous Forest |                              | J. Jobin, D. Deepak     |
| 4        | KAUNHM2013 44                                      | 25.vii.2013| *Duttaphrynus scaber*     | Nellipara, CMWS, Thrissur                  | 10.45439     | 76.54869      | LC       | Moist Deciduous Forest |                              | J. Jobin, D. Deepak     |
| 5        | KAUNHM2013 48                                      | 27.vii.2013| *Duttaphrynus scaber*     | Nellipara, CMWS, Thrissur                  | 10.45439     | 76.54869      | LC       | Moist Deciduous Forest |                              | J. Jobin, D. Deepak     |
| 6        | KAUNHM2013 54                                      | 12.viii.2013| *Duttaphrynus scaber*   | Olakara, PVWS, Thrissur                    | 10.64100     | 76.30892      | LC       | Moist Deciduous Forest |                              | J. Jobin, D. Deepak     |
| 7        | KAUNHM2016 23                                      | 21.vii.2016| *Duttaphrynus scaber*     | Cocoa plantation, KAU main campus, Vellanikkara, Thrissur | 10.54811     | 76.27675      | LC       | Paddy field           |                              | M.S. Syamili            |
| 8        | Image 1 KAUNHM2017 21                             | 25.vii.2017| *Duttaphrynus scaber*     | Arimbur, Kole Wetland, Ramsar Site, Thrissur | 10.48481     | 76.15003      | LC       | Wetland bunds          |                              | M.S. Syamili, S. Habeeb, M.S. Abhin, S. Francis, M.R. Bharath |
| 9        | KAUNHM2013 10                                      | 09.v.2013  | *Duttaphrynus piritalis* | Mampara, PVWS, Thrissur                    | 10.64100     | 76.30892      | WG NT    | Moist Deciduous Forest |                              | J. Jobin, D. Deepak     |
|          |                                                      |            |                          |                                             |              |               |          |                       |                              |                        |
|          | Family: Dicroglossidae                              |            |                          |                                             |              |               |          |                       |                              |                        |
|          |                                                      |            |                          |                                             |              |               |          |                       |                              |                        |
| 10       | Image 2 KAUNHM2018 07                              | 29.i.2018  | *Euphlyctis cyanophlyctis*| Anamada, NRF, Palakkad                     | 10.51514     | 76.74872      | LC       | Cardamom-Coffee plantation |                              | U.S. Amal, A.F. Katakath, M.T. Abin, A. Athar Ali |
| 11       | Image 3 KAUNHM2016 19                              | 20.vi.2016 | *Hoplobatrachus tigrinus* | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54825     | 76.27956      | LC       | Bushes near pond       |                              | M.S. Syamili            |
| 12       | KAUNHM 2011 144                                    | 06.vi.2011 | *Sphaerotheca breviceps*  | Pattathigara, Vellanikkara, Thrissur       | 10.54825     | 76.27956      | LC       | Moist Deciduous Forest |                              | K.M. Jobin              |
| 13       | KAUNHM 2013 12                                     | 10.v.2013  | *Sphaerotheca breviceps*  | Mampara, PVWS, Thrissur                    | 10.64100     | 76.30892      | LC       | Moist Deciduous Forest |                              | J. Jobin, D. Deepak     |
| 14       | KAUNHM 2013 56                                     | 12.viii.2013| *Sphaerotheca breviceps*  | Jandamukk, PVWS, Thrissur                  | 10.64100     | 76.30892      | LC       | Moist Deciduous Forest |                              | J. Jobin, D. Deepak     |
| 15       | KAUNHM2017 16                                     | 21.iv.2017 | *Sphaerotheca breviceps*  | Botanical Garden, KAU main campus, Vellanikkara, Thrissur | 10.54997     | 76.28764      | Man-made pits |                              |                              | M.S. Syamili, S. Habeeb |
| 16       | Image 4 KAUNHM2016 20                             | 20.vii.2017| *Sphaerotheca breviceps*  | Rubber plantation, KAU main campus, Vellanikkara, Thrissur | 10.54858     | 76.28803      | Man-made pits |                              |                              | M.S. Syamili, A.F. Katakath |
| Image no | Record   | Date        | Scientific name                  | Location                      | Latitude  (N) | Longitude  (E) | Endemism | IUCN Red List status | Habitat                        | Observer/ Collector                  |
|----------|----------|-------------|----------------------------------|-------------------------------|--------------|---------------|-----------|---------------------|----------------------------------|-------------------------------------|
| 17       | KAUNHM2011.19 | 28.4.2011   | Minervarya keralensis            | Parambikulam, PBTR, Palakkad | 10.44783     | 76.78739      | LC        |                     | Moist Deciduous Forest            | K.M. Jobin                          |
| 18       | KAUNHM2011.46 | 03.4.2011   | Minervarya keralensis            | Parambikulam, PBTR, Palakkad | 10.44783     | 76.78739      | LC        |                     | Moist Deciduous Forest            | K.M. Jobin                          |
| 19       | KAUNHM2011.50 | 04.4.2011   | Minervarya keralensis            | Parambikulam, PBTR, Palakkad | 10.44783     | 76.78739      | LC        |                     | Moist Deciduous Forest            | K.M. Jobin                          |
| 20       | KAUNHM2011.51 | 03.4.2011   | Minervarya keralensis            | Parambikulam, PBTR, Palakkad | 10.44783     | 76.78739      | LC        |                     | Moist Deciduous Forest            | K.M. Jobin                          |
| 21       | KAUNHM2013.07 | 09.4.2013   | Minervarya keralensis            | Mampara, PVWS, Thrissur       | 10.64.100    | 76.30892      | LC        |                     | Moist Deciduous Forest            | J. Jobin, D. Deepak                 |
| 22       | Image 5 KAUNHM2018.06 | 29.3.2018 | Minervarya mudduraja            | Anamada, NRF, Palakkad        | 10.51.154    | 76.74872      | WG        | DD                  | Cardamom-Coffee plantation        | U.S. Amal, A.F. Katakath, M.T. Abin, A.Ahur Ali |
| 23       | KAUNHM2011.239 | 07.4.2011   | Micrixalus adonis               | Poopara, PBTR, Palakkad       | 10.44.783    | 76.78739      | WG        | NE                  | Stream                           | K.M. Jobin                          |
| 24       | KAUNHM2011.240 | 07.4.2011   | Micrixalus adonis               | Poopara, PBTR, Palakkad       | 10.44.783    | 76.78739      | WG        | NE                  | Stream                           | K.M. Jobin                          |
| 25       | KAUNHM2011.238 | 07.4.2011   | Micrixalus adonis               | Poopara, PBTR, Palakkad       | 10.44.783    | 76.78739      | WG        | NE                  | Stream                           | K.M. Jobin                          |
| 26       | KAUNHM2011.200 | 25.4.2011   | Micrixalus fuscus               | Karimala, PBTR, Palakkad      | 10.42.739    | 76.8.1081     | WG        | NT                  | Stream                           | K.M. Jobin                          |
| 27       | KAUNHM2011.231 | 07.4.2011   | Micrixalus gadgili              | Karimala, PBTR, Palakkad      | 10.42.739    | 76.8.1081     | WG        | EN                  | Stream                           | K.M. Jobin                          |
| 28       | KAUNHM2011.232 | 07.5.2011   | Micrixalus gadgili              | Karimala, PBTR, Palakkad      | 10.42.739    | 76.8.1081     | WG        | EN                  | Stream                           | K.M. Jobin                          |
| 29       | KAUNHM2011.233 | 07.5.2011   | Micrixalus gadgili              | Karimala, PBTR, Palakkad      | 10.42.739    | 76.8.1081     | WG        | EN                  | Stream                           | K.M. Jobin                          |
| 30       | KAUNHM2013.18 | 15.4.2013   | Micrixalus nudis                | Mangalamkava, CMWS, Thrissur  | 10.45.439    | 76.5.4869     | WG        | VU                  | Moist Deciduous Forest            | J. Jobin, D. Deepak                 |
| 31       | KAUNHM2017.04 | 01.4.2017   | Micrixalus thampli              | Panthamthodu, SVNP, Palakkad  | 11.8.347     | 76.4.8064     | WG        | DD                  | Stream inside evergreen forest   | M.S. Sarymil, M.J. Abhirami          |
| 32       | Image 6 KAUNHM2016.29 | 22.4.2016 | Microhyla ornata               | Kallumukku, WWS, Wayanad      | 11.6.708     | 76.3.944      | LC        |                     | Dry deciduous forest             | A. Devarajan                        |
| 33       | Image 7 KAUNHM2017.20 | 25.4.2017 | Microhyla ornata               | Arimbur, Kole Wetland, Ramsar Site, Thrissur | 10.48.419 | 76.15000      | LC        |                     | Wetland bunds                     | M.S. Sarymil, S. Habeev, M.S. Abhin, S. Francis, M.R. Bhasath |
| 34       | Image 8 KAUNHM2016.31 | 22.4.2016 | Microhyla rubra                | Kallumukku, WWS, Wayanad      | 11.6.708     | 76.3.944      | LC        |                     | Dry deciduous forest             | A. Devarajan                        |
| 35       | Image 9 KAUNHM2018.12 | 30.4.2018 | Microhyla darrei               | Anamada, NRF, Palakkad        | 10.53.154    | 76.74872      | WS        |                     | Cardamom-Coffee plantation        | U.S. Amal, A.F. Katakath, M.T. Abin, A. Ahur Ali |
| 36       | KAUNHM2011.294 | 15.4.2011   | Uperodon taprobancus           | Botanical Garden, KAU main campus, Vellanikkara, Thrissur | 10.54.997    | 76.2.8764     | LC        |                     | Bushes                           | K.M. Jobin                          |
| 37       | KAUNHM2011.273 | 07.4.2011   | Nyctibatrachus anamallolensis   | Poopara, PBTR, Palakkad       | 10.44.783    | 76.78739      | WG        | NE                  | Evergreen forest                 | K.M. Jobin                          |
| Image no | Record no | Date          | Scientific name                     | Location                        | Latitude   | Longitude  | Endemism | Habitat                        | Observer/Collector |
|----------|-----------|---------------|-------------------------------------|---------------------------------|------------|------------|----------|--------------------------------|-------------------|
| 38       | KAUNHM2011 2.74 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 39       | KAUNHM2011 2.76 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 40       | KAUNHM2011 2.77 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 41       | KAUNHM2011 2.78 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 42       | KAUNHM2011 2.79 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 43       | KAUNHM2011 2.80 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 44       | KAUNHM2011 2.81 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 45       | KAUNHM2011 2.82 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 46       | KAUNHM2011 2.83 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 47       | KAUNHM2011 2.84 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 48       | KAUNHM2011 2.85 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 49       | KAUNHM2011 2.86 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 50       | KAUNHM2011 2.87 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 51       | KAUNHM2011 2.88 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 52       | KAUNHM2011 2.89 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 53       | KAUNHM2011 2.90 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 54       | KAUNHM2011 2.91 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 55       | KAUNHM2011 2.92 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 56       | KAUNHM2011 2.93 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 57       | KAUNHM2011 2.94 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| 58       | KAUNHM2011 2.95 | 07.v.2011     | Nyctibatrachus anamallaiensis      | Kariyan shola, PBTR, Palakkad   | 10.39053   | 76.7628    | WG       | Evergreen forest               | K.M. Jobin         |
| Image no | Record | Date          | Scientific name        | Location                      | Latitude (N) | Longitude (E) | Endemism | IUCN Red list status | Habitat                  | Observer/Collector |
|----------|--------|---------------|------------------------|-------------------------------|--------------|--------------|----------|----------------------|--------------------------|-----------------------|
| 59       | KAUNHM2011 31 | 29.iv.2011    | *Indirana beddomii*    | Karimala, PBTR, Palakkad     | 10.42739     | 76.81081     | WG       | LC                   | Semi-evergreen forest   | K.M. Jobin            |
| 60       | KAUNHM2011 32 | 29.iv.2011    | *Indirana beddomii*    | Karimala, PBTR, Palakkad     | 10.42739     | 76.81081     | WG       | LC                   | Semi-evergreen forest   | K.M. Jobin            |
| 61       | KAUNHM2011 33 | 29.iv.2011    | *Indirana beddomii*    | Orukomban, PBTR, Palakkad    | 10.36800     | 76.79900     | WG       | LC                   | Semi-evergreen forest   | K.M. Jobin            |
| 62       | KAUNHM2011 36 | 29.iv.2011    | *Indirana beddomii*    | Orukomban, PBTR, Palakkad    | 10.36800     | 76.79900     | WG       | LC                   | Semi-evergreen forest   | K.M. Jobin            |
| 63       | KAUNHM2011 37 | 29.iv.2011    | *Indirana beddomii*    | Orukomban, PBTR, Palakkad    | 10.36800     | 76.79900     | WG       | LC                   | Semi-evergreen forest   | K.M. Jobin            |
| 64       | KAUNHM2011 39 | 29.iv.2011    | *Indirana beddomii*    | Orukomban, PBTR, Palakkad    | 10.36800     | 76.79900     | WG       | LC                   | Semi-evergreen forest   | K.M. Jobin            |
| 65       | KAUNHM2011 53 | 05.xi.2011    | *Indirana beddomii*    | Orukomban, PBTR, Palakkad    | 10.36800     | 76.79900     | WG       | LC                   | Semi-evergreen forest   | K.M. Jobin            |
| 66       | KAUNHM2011 60 | 05.xi.2011    | *Indirana beddomii*    | Orukomban, PBTR, Palakkad    | 10.36800     | 76.79900     | WG       | LC                   | Semi-evergreen forest   | K.M. Jobin            |
| 67       | KAUNHM2011 27 | 27.iv.2011    | *Indirana braehytarsus* | Poopara, PBTR, Palakkad      | 10.44783     | 76.78739     | WG       | EN                   | Evergreen forest        | K.M. Jobin            |
| 68       | Image 13 KAUNHM2018 05 | 29.iii.2018 | *Indirana braehytarsus* | Anamada, NRF, Palakkad       | 10.51514     | 76.74872     | WG       | EN                   | Cardamom-Coffee plantation | U.S. Amal, A.F. Katakath, M.T. Abin, A. Azhar Ali |
| 69       | Image 14 KAUNHM2018 08 | 29.iii.2018 | *Indirana braehytarsus* | Anamada, NRF, Palakkad       | 10.51514     | 76.74872     | WG       | EN                   | Cardamom-Coffee plantation | U.S. Amal, A.F. Katakath, M.T. Abin, A. Azhar Ali |
| 70       | Image 15 KAUNHM2018 16 | 31.iii.2018 | *Indirana braehytarsus* | Anamada, NRF, Palakkad       | 10.51514     | 76.74872     | WG       | EN                   | Cardamom-Coffee plantation | U.S. Amal, A.F. Katakath, M.T. Abin, A. Azhar Ali |
| 71       | Image 16 KAUNHM2018 11 | 30.iii.2018 | *Indirana semipalmata* | Anamada, NRF, Palakkad       | 10.51514     | 76.74872     | WG       | LC                   | Cardamom-Coffee plantation | U.S. Amal, A.F. Katakath, M.T. Abin, A. Azhar Ali |
| 72       | Image 17 KAUNHM2018 09 | 30.iii.2018 | *Indirana yadera*      | Anamada, NRF, Palakkad       | 10.51514     | 76.74872     | WG       | NE                   | Cardamom-Coffee plantation | U.S. Amal, A.F. Katakath, M.T. Abin, A. Azhar Ali |
| 73       | Image 18 KAUNHM2016 30 | 22.viii.2016 | *Polypedates maculatus* | Kallumukku, WWS, Wayanad    | 11.68472     | 76.33506     | LC       | Dry deciduous forest | A. Devarajan            |
| 74       | KAUNHM2013 23 | 15.v.2013     | *Polypedates occidentalis* | Mampara, PVWS, Thrissur     | 10.64100     | 76.30892     | DD       | Moist Deciduous forest | J. Jobin, D. Deepak    |
| 75       | Image 19 KAUNHM2016 32 | 22.viii.2016 | *Polypedates occidentalis* | Kallumukku, WWS, Wayanad    | 11.68472     | 76.33506     | DD       | Dry deciduous forest | A. Devarajan            |
| 76       | KAUNHM2011 218 | 07.iii.2011   | *Pseudophilautus wynouedo nius* | Vengoli, PBTR, Palakkad     | 10.43075     | 76.80333     | WG       | EN                   | Semi-evergreen forest   | K.M. Jobin            |
| 77       | KAUNHM2011 219 | 07.iii.2011   | *Pseudophilautus wynouedo nius* | Vengoli, PBTR, Palakkad     | 10.43075     | 76.80333     | WG       | EN                   | Semi-evergreen forest   | K.M. Jobin            |
| 78       | KAUNHM2011 220 | 07.iii.2011   | *Pseudophilautus wynouedo nius* | Vengoli, PBTR, Palakkad     | 10.43075     | 76.80333     | WG       | EN                   | Semi-evergreen forest   | K.M. Jobin            |
| 79       | KAUNHM2011 28 | 28.iv.2011    | *Pseudophilautus wynouedo nius* | Kariyan shola, PBTR, Palakkad | 10.39053     | 76.76528     | WG       | EN                   | Evergreen forest        | K.M. Jobin            |
| Image no | Record | Date       | Scientific name         | Location                                | Latitude (N) | Longitude (E) | Endemism | Habitat                      | Observer/Collector |
|---------|--------|------------|--------------------------|-----------------------------------------|--------------|---------------|----------|-------------------------------|-------------------|
| 80      | KAUNHM2011 143 | 07.v.2011  | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 81      | KAUNHM2011 144 | 07.vi.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 82      | KAUNHM2011 145 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 83      | KAUNHM2011 146 | 25.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 84      | KAUNHM2011 147 | 27.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 85      | KAUNHM2011 148 | 07.viii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 86      | KAUNHM2011 149 | 27.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 87      | KAUNHM2011 150 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 88      | KAUNHM2011 151 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 89      | KAUNHM2011 152 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 90      | KAUNHM2011 153 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 91      | KAUNHM2011 154 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 92      | KAUNHM2011 155 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 93      | KAUNHM2011 156 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 94      | KAUNHM2011 157 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 95      | KAUNHM2011 158 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 96      | KAUNHM2011 159 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 97      | KAUNHM2011 160 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
| 98      | KAUNHM2011 161 | 07.vii.2011 | *Pseudophilautus wynaadensis* | Vengoli, PBTR, Palakkad | 10.43075     | 76.80333     | WG EN  | Semi-evergreen forest          | K.M. Jobin         |
### Database of amphibian vouchers and records available at KAU

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| Image no | Record No. | Date       | Scientific name          | Location Description          | Latitude   | Longitude   | IUCN Red List Status | Habitat                  | Observer/Collector |
|----------|------------|------------|---------------------------|------------------------------|------------|-------------|----------------------|-------------------------|---------------------|
| 99       | KAUNHM2011 | 201       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 100      | KAUNHM2011 | 202       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 101      | KAUNHM2011 | 203       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 102      | KAUNHM2011 | 204       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 103      | KAUNHM2011 | 205       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 104      | KAUNHM2011 | 206       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 105      | KAUNHM2011 | 207       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 106      | KAUNHM2011 | 208       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 107      | KAUNHM2011 | 209       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 108      | KAUNHM2011 | 210       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 109      | KAUNHM2011 | 211       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 110      | KAUNHM2011 | 212       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 111      | KAUNHM2011 | 213       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 112      | KAUNHM2011 | 214       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 113      | KAUNHM2011 | 215       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 114      | KAUNHM2011 | 216       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 115      | KAUNHM2011 | 217       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 116      | KAUNHM2011 | 218       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 117      | KAUNHM2011 | 219       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 118      | KAUNHM2011 | 220       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 119      | KAUNHM2011 | 221       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| 120      | KAUNHM2011 | 222       | 07.vi.2011                | Raorchestes akroparallagi    | 10.44783   | 76.78739    | LC                   | Moist Deciduous Forest | K.M. Jobin          |
| Image no | Record       | Date           | Scientific name          | Location                          | Latitude (N) | Longitude (E) | Endemism | IUCN Red list status | Habitat                  | Observer/ Collector |
|----------|--------------|----------------|--------------------------|-----------------------------------|--------------|---------------|-----------|----------------------|--------------------------|------------------------|
| 121      | KAUNHM2011225| 07.ix.2011     | Raorchestes ponmudi      | Karimala, PBTR, Palakkad         | 10.42739     | 76.81081      | WG        | CR                   | Evergreen forest         | K.M. Jobin              |
| 122      | KAUNHM2011226| 07.ix.2011     | Raorchestes ponmudi      | Vengol, PBTR, Palakkad           | 10.43075     | 76.80333      | WG        | CR                   | Evergreen forest         | K.M. Jobin              |
| 123      | Image 30     | 31.iii.2018    | Raorchestes ponmudi      | Anamada, NFR, Palakkad          | 10.51514     | 76.74872      | WG        | CR                   | Cardamom-Coffee plantation | U.S. Amal, A.F. Katakath, M.T. Abin, A. Azhar Ali |
| 124      | KAUNHM2011209| 25.vii.2011    | Rhaeophrynus caladensis  | Poopara, PBTR, Palakkad         | 10.44783     | 76.78739      | WG        | EN                   | Evergreen forest         | K.M. Jobin              |
| 125      | KAUNHM2011210| 25.vii.2011    | Rhaeophrynus caladensis  | Poopara, PBTR, Palakkad         | 10.44783     | 76.78739      | WG        | EN                   | Evergreen forest         | K.M. Jobin              |
| 126      | KAUNHM2011211| 25.vii.2011    | Rhaeophrynus caladensis  | Poopara, PBTR, Palakkad         | 10.44783     | 76.78739      | WG        | EN                   | Evergreen forest         | K.M. Jobin              |
| 127      | KAUNHM2011212| 25.vii.2011    | Rhaeophrynus caladensis  | Poopara, PBTR, Palakkad         | 10.44783     | 76.78739      | WG        | EN                   | Evergreen forest         | K.M. Jobin              |
| 128      | KAUNHM2011160| 08.vi.2011     | Rhaeophrynus malabaricus | Moodal, PVWS, Thrissur          | 10.49003     | 76.42328      | WG        | LC                   | Moist Deciduous forest   | P.O. Nameer             |
| 129      | KAUNHM2011161| 08.vi.2011     | Rhaeophrynus malabaricus | Karasippa, PVWS, Thrissur       | 10.46333     | 76.43561      | WG        | LC                   | Moist Deciduous forest   | P.O. Nameer             |
| 130      | KAUNHM2011197| 25.vii.2011    | Rhaeophrynus pseudomalabaricus | Poopara, PBTR, Palakkad     | 10.44783     | 76.78739      | WG        | CR                   | Evergreen forest         | K.M. Jobin              |
| 131      | KAUNHM201760 | 07.vi.2017     | Uraeotyphlus menoni      | Thottapady, Vellanikkara, Thrissur | 10.54997     | 76.28764      | WG        | DD                   | Wooded area              | P.O. Nameer             |

B. Photo Vouchers

| Image no | Record       | Date           | Scientific name          | Location                          | Latitude (N) | Longitude (E) | Endemism | IUCN Red list status | Habitat                  | Observer/ Collector |
|----------|--------------|----------------|--------------------------|-----------------------------------|--------------|---------------|-----------|----------------------|--------------------------|------------------------|
| 132      | Image 31     | 06.i.2013      | Duttaphrynus melanostictus | Mukkam, Kozhikode, Kothidone     | 11.32061     | 75.99903      | LC        | Moist Deciduous forest | K.M. Jobin               |                        |
| 133      | Image 32     | 26.viii.2016   | Duttaphrynus melanostictus | Kallamukku, WWS, Wayanad         | 11.68472     | 76.33506      | LC        | Dry deciduous forest  | A. Devarajan             |                        |
| 134      | Image 33     | 15.iii.2017    | Duttaphrynus melanostictus | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54744     | 76.27856      | LC        | Bushes               | M.S. Syamili, A. Azhar Ali |                        |
| 135      | Image 34     | 29.ii.2018     | Duttaphrynus melanostictus | Kaveratti, Kaveratti, Kaveratti, Lakshadweep | 10.55314     | 72.63100      | LC        | Coconut plantation   | U.S. Amal, A.F. Katakath, C. Abhirami |                        |
| 136      | Image 35     | 18.vi.2016     | Duttaphrynus melanostictus | Cheethalayam, WWS, Wayanad       | 11.74458     | 76.23947      | LC        | Dry deciduous forest  | A. Devarajan             |                        |
| 137      | Image 36     | 20.vii.2011    | Duttaphrynus microtympanum | Munnamar Town, Munnamar, Idukki | 10.08481     | 77.06103      | WG        | VU                   | Evergreen forest         | K.M. Jobin              |
| 138      | Image 37     | 28.viii.2014   | Duttaphrynus microtympanum | Anamudiy, ENP, Idukki            | 10.16919     | 77.06208      | WG        | VU                   | High altitude grasslands | E.R. Sreekumar, K.G. Ajay, S. Nikhil |                        |
| 139      | Image 38     | 28.viii.2014   | Duttaphrynus parietalis   | Panthamthodu, SVNP, Palakkad    | 10.08347     | 76.48064      | WG        | NT                   | Evergreen forest         | S. Sajitha, C. Niranjan, I.H. Wahiba |                        |
| 140      | Image 39     | 29.viii.2017   | Ghatophrynus ornatus      | Chembra, Kalpetta, Wayanad      | 11.71114     | 75.89911      | WG        | EN                   | Evergreen forest         | K.M. Jobin              |
| 141      | Image 40     | 15.v.2012      | Ghatophrynus rubiginosa   | Hovelock, SVNP, Palakkad        | 10.07211     | 76.53589      | WG        | VU                   | Evergreen forest         | K.M. Jobin              |
| Image no | Record | Date       | Scientific name            | Location                                      | Latitude (N) | Longitude (E) | Endemism | IUCN Red List status | Habitat                | Observer / Collector       |
|----------|--------|------------|----------------------------|-----------------------------------------------|--------------|---------------|----------|----------------------|-------------------------|--------------------------|
| 142      | Image 41 Photo Voucher | 29.viii.2017 | Pedostibes tuberculosus  | Parthamthodu, SVNP, Palakkad                  | 11.08347     | 76.48016      | WG       | EN                   | Evergreen forest         | S. Sajith, C. Niranjana, I.H. Wahiba |
| 143      | Image 42 Photo Voucher | 24.i.2017   | Euphlyctis cyanophlyctis | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54825     | 76.27956      | LC       | Stagnant waterbody   | Stagnant waterbody       | M.S. Syamili              |
| 144      | Image 43 Photo Voucher | 25.v.2017   | Euphlyctis cyanophlyctis | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54825     | 76.27956      | LC       | Stagnant waterbody   | Stagnant waterbody       | M.S. Syamili              |
| 145      | Image 44 Photo Voucher | 24.vii.2019 | Euphlyctis cyanophlyctis | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.55095     | 76.27742      | LC       | Stagnant waterbody   | Stagnant waterbody       | M.S. Abhin, S. Habeel, T. Arun |
| 146      | Image 45 Photo Voucher | 22.vii.2016 | Hoplobatrachus tigerinus | Kallumukku, WWS, Wayanad                    | 11.67808     | 76.33944      | LC       | Dry deciduous forest | Dry deciduous forest     | A. Devarajan              |
| 147      | Image 46 Photo Voucher | 24.i.2017   | Hoplobatrachus tigerinus | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54825     | 76.27956      | LC       | Bushes near pond     | Bushes near pond         | M.S. Syamili              |
| 148      | Image 47 Photo Voucher | 31.vii.2019 | Hoplobatrachus tigerinus | Vallikkayam, PVWS, Thrissur                  | 10.53605     | 76.37712      | LC       | Evergreen forest     | Evergreen forest         | S. Sajith, M.S. Abhin, Niranjana C, A.R. Aiswaryalakshmi |
| 149      | Image 48 Photo Voucher | 10.vii.2019 | Hoplobatrachus tigerinus | Echippara, CMWS, Thrissur                    | 10.44169     | 76.57694      | LC       | Rubber plantation    | Rubber plantation         | M.S. Abhin, S. Habeel, C. Niranjana, S. Sajith, A.R. Aiswaryalakshmi, R. Revathy, J. Arunima, J.J.K. Jincy |
| 150      | Image 49 Photo Voucher | 12.vi.2020  | Minervarya brevipolliota | Panathy hills, Old Munnar, Idukki           | 10.08758     | 76.98052      | WG       | DD                   | Tea plantation            | M.S. Abhin, A.R. Aiswaryalakshmi |
| 151      | Image 50 Photo Voucher | 31.vii.2019 | Minervarya kador          | Vallikkayam, PVWS, Thrissur                  | 10.53092     | 76.37325      | WG       | NE                   | Moist Deciduous Forest   | S. Sajitha                |
| 152      | Image 51 Photo Voucher | 31.vii.2019 | Minervarya kador          | Vallikkayam, PVWS, Thrissur                  | 10.53905     | 76.37712      | LC       | Evergreen forest     | Evergreen forest         | S. Sajitha, M.S. Abhin, C. Niranjana, A.R. Aiswaryalakshmi |
| 153      | Image 52 Photo Voucher | 23.vii.2016 | Minervarya keralensis.is | Kallumukku, WWS, Wayanad                    | 11.67808     | 76.33944      | LC       | Dry deciduous forest | Dry deciduous forest     | A. Devarajan              |
| 154      | Image 53 Photo Voucher | 13.v.2019   | Minervarya kudremukhensis.is | Varattukulam, Varattukulam, Idukki          | 9.93881      | 76.94269      | WG       | NE                   | High altitude grasslands | A.F. Katakat              |
| 155      | Image 54 Photo Voucher | 22.xi.2014  | Micrixalus adonis         | Rajamala, ENP, Idukki                        | 10.14269     | 77.03972      | WG       | NE                   | Shola stream              | E.R. Sreekumar, K.G. Ajay, S. Nikhil |
| 156      | Image 55 Photo Voucher | 22.vii.2020 | Micrixalus adonis         | Old Devikulam, DRF, Idukki                  | 10.10503     | 77.15735      | WG       | NE                   | Mid elevation Shola       | M.S. Abhin, A.R. Aiswaryalakshmi |
| 157      | Image 56 Photo Voucher | 26.vii.2020 | Micrixalus adonis         | Aruvikkad, DRF, Idukki                      | 10.04247     | 77.15421      | WG       | NE                   | Mid elevation Shola       | M.S. Abhin, A.R. Aiswaryalakshmi |
| 158      | Image 57 Photo Voucher | 17.i.2020   | Micrixalus fuscus         | Idakkampara, Ponnurdi, Thiruvananthapuram   | 8.77393      | 77.18583      | WG       | NT                   | Stream inside evergreen forest | M.S. Abhin, J. Arunima, J.J.K. Jincy |
| Image no | Record         | Date         | Scientific name              | Location                        | Latitude (N) | Longitude (E) | Endemism | IUCN Red List status | Habitat                         | Observer/Collector               |
|----------|----------------|--------------|------------------------------|---------------------------------|--------------|---------------|-----------|---------------------|---------------------------------|----------------------------------|
| 159      | Image 58       | 24.v.2019    | Micrixalus herrei           | Bonacud, ABR, Thiruvananthapuram | 8.68025      | 77.17003      | WG        | NE                  | Stream                          | A.F. Katakath, M.S. Syamili      |
| 160      | Image 59       | 15.iv.2012   | Micrixalus nudis            | Cherthalayam, WWS, Wayanad      | 11.75986     | 76.25217      | WG        | VU                  | Stream inside evergreen forest  | K.M. Jobin                       |
| 161      | Image 60       | 30.x.2013    | Micrixalus sairandhi        | Hovelock, SNVP, Palakkad         | 11.07211     | 76.53589      | WG        | NE                  | Stream inside evergreen forest  | K.M. Jobin                       |
| 162      | Image 61       | 04.i.2020    | Micrixalus salii            | Kallar, Pornmudi, Thiruvananthapuram | 8.71681      | 77.12389      | WG        | NE                  | Stream inside evergreen forest  | K.M. Jobin                       |
| 163      | Image 62       | 15.1.2020    | Micrixalus saxicola         | Kattimala, Nilambur, Malapparam | 11.47219     | 75.94144      | WG        | VU                  | Stream inside evergreen forest  | N. Rahul                         |
| 164      | Image 63       | 08.vii.2011  | Micrixalus thampii          | Hovelock, SNVP, Palakkad         | 11.07211     | 76.53589      | WG        | DD                  | Stream inside evergreen forest  | K.M. Jobin                       |
| 165      | Image 64       | 24.x.2011    | Microhyla nilphamariensis    | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54825     | 76.27956      | LC        | Most Deciduous forest | M.S. Syamili                     |
| 166      | Image 65       | 18.vi.2016   | Microhyla nilphamariensis    | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54825     | 76.27956      | LC        | Most Deciduous forest | M.K. Jobin                       |
| 167      | Image 66       | 15.iii.2017  | Microhyla nilphamariensis    | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54825     | 76.27956      | LC        | Most Deciduous forest | M.S. Syamili, S. Hasbeel         |
| 168      | Image 67       | 25.v.2011    | Microhyla rubra              | College of Forestry, KAU main campus, Vellanikkara, Thrissur | 10.54825     | 76.27956      | LC        | Most Deciduous forest | M.K. Jobin                       |
| 169      | Image 68       | 06.iv.2011   | Uperodon anamalaiensis      | Pattathippa, Pattikad Forest Range, Thrissur | 10.57678     | 76.31019      | LG        | Most Deciduous forest | M.K. Jobin                       |
| 170      | Image 69       | 16.vii.2010  | Uperodon montanus           | Gavi, Pathanamthitta, Pathanamthitta | 9.43964      | 77.16214      | LG        | Evergreen forest    | M.K. Jobin                       |
| 171      | Image 70       | 24.v.2019    | Uperodon montanus           | Bonacud, ABR, Thiruvananthapuram | 8.68025      | 77.17003      | LG        | Evergreen forest    | M.F. Katakath, M.S. Syamili      |
| 172      | Image 71       | 13.v.2015    | Uperodon systoma            | Chinnar checkpost, CHWS, Idukki, | 10.30736     | 77.20575      | LG        | Dry deciduous forest | M.K. Jobin                       |
| 173      | Image 72       | 31.vii.2019  | Uperodon taprobanicus       | Vallikkayam, PVWS, Thrissur     | 10.53605     | 76.37712      | LC        | Evergreen forest    | S. Sajith, M.S. Abhin, C. Ninanmana, A.R. Aiswaryalakshmi |
| 174      | Image 73       | 08.viii.2011 | Uperodon triangularis       | Cherthalayam, WWS, Wayanad      | 11.74458     | 76.23947      | LG        | Evergreen forest    | M.K. Jobin                       |
| 175      | Image 74       | 24.x.2011    | Uperodon variegatus         | University Goat Farm, KVASU campus, Mannuthy, Thrissur | 10.53231     | 76.26339      | LC        | Wooded area         | M.K. Jobin                       |
| 176      | Image 75       | 06.xii.2011  | Nasikabatrachus sahyadrensis| Pattathippa, Pattikad Forest Range, Thrissur | 10.57678     | 76.31019      | LG        | Evergreen forest    | M.K. Jobin                       |
| 177      | Image 76       | 08.x.2020    | Nasikabatrachus sahyadrensis| Virakthod, CMWS, Thrissur       | 10.44828     | 76.46257      | LG        | Evergreen forest    | S. Sajith, M.S. Abhin, C. Ninanmana, A.R. Aiswaryalakshmi |
| Image no | Record | Date          | Scientific name                      | Location                                | Latitude (N) | Longitude (E) | Endemism | IUCN Red List status | Habitat                              | Observer/Collector                   |
|----------|--------|---------------|--------------------------------------|-----------------------------------------|--------------|--------------|----------|----------------------|---------------------------------------|--------------------------------------|
| 178      | Image 77 Photo Voucher | 24.vii.2010 | *Nyctibatrachus acanthodermis*        | Neryamangalam, Neryamangalam, Ernakulam | 10.05847     | 76.77694     | WG       | NE                   | Stream inside evergreen forest        | K.M. Jobin                           |
| 179      | Image 78 Photo Voucher | 16.viii.2010 | *Nyctibatrachus anamallaiensis*       | Gavi, Pathanamthitta, Pathanamthitta    | 9.43964      | 77.16214     | WG       | NE                   | Stream inside evergreen forest        | K.M. Jobin                           |
| 180      | Image 79 Photo Voucher | 06.x.2019    | *Nyctibatrachus atriopholyensis*      | Virakthod, CMWS, Thrissur              | 10.44828     | 76.46257     | WG       | NE                   | Stream inside evergreen forest        | M.S. Abhin, C. Niranjana             |
| 181      | Image 80 Photo Voucher | 13.xi.2010   | *Nyctibatrachus deveni*               | Kailkutti, NRF, Palakkad               | 10.53117     | 76.67911     | WG       | NE                   | Stream inside evergreen forest        | K.M. Jobin                           |
| 182      | Image 81 Photo Voucher | 16.viii.2010 | *Nyctibatrachus gavi*                 | Gavi, Pathanamthitta, Pathanamthitta   | 9.43964      | 77.16214     | WG       | NE                   | Stream inside evergreen forest        | K.M. Jobin                           |
| 183      | Image 82 Photo Voucher | 30.viii.2016 | *Nyctibatrachus lempaholensis*        | Muthumalakkal, WWS, Wayanad            | 12.00867     | 75.72844     | WG       | DD                   | Dry deciduous forest                  | A. Devarajan                         |
| 184      | Image 83 Photo Voucher | 30.x.2013    | *Nyctibatrachus major*                | Kallar, Ponmudi, Thiruvananthapuram    | 8.71681      | 77.12389     | WG       | VU                   | Stream inside evergreen forest        | K.M. Jobin                           |
| 185      | Image 84 Photo Voucher | 17.x.2014    | *Nyctibatrachus minimus*              | Kurichiarmala, WWS, Wayanad            | 11.79361     | 76.16711     | WG       | DD                   | Stream inside evergreen forest        | K.M. Jobin                           |
| 186      | Image 85 Photo Voucher | 16.viii.2010 | *Nyctibatrachus periyar*              | Gavi, Pathanamthitta, Pathanamthitta   | 9.43964      | 77.16214     | WG       | NE                   | Stream inside evergreen forest        | K.M. Jobin                           |
| 187      | Image 86 Photo Voucher | 08.viii.2011 | *Nyctibatrachus vrijeunei*            | Chethalayam, WWS, Wayanad              | 11.74458     | 76.23947     | WG       | NE                   | Stream inside evergreen forest        | K.M. Jobin                           |
| 188      | Image 87 Photo Voucher | 29.viii.2017 | *Nyctibatrachus vrijeunei*            | Panthamthodu, SVN, Palakkad            | 11.08347     | 76.48064     | WG       | NE                   | Stream inside evergreen forest        | S. Sajitha, C. Niranjana, I.H. Wahiba|
| 189      | Image 88 Photo Voucher | 11.viii.2012 | *Clinotarsus curtipes*                | Vengoli, PBTR, Palakkad                | 10.43075     | 76.80333     | WG       | NT                   | Moist Deciduous Forest               | M.S. Syamili                         |
| 190      | Image 89 Photo Voucher | 11.i.2013    | *Clinotarsus curtipes*                | Forest Department Dormitory, ARWS, Kannur | 11.92225     | 75.79030     | WG       | NT                   | Stream inside moist deciduous forest  | M.S. Syamili, M.K. Abha, E.R. Sreekumar, R. Arjun |
| 191      | Image 90 Photo Voucher | 28.viii.2017 | *Clinotarsus curtipes*                | Panthamthodu, SVN, Palakkad            | 11.08347     | 76.48064     | WG       | NT                   | Semi-evergreen forest                 | S. Sajitha, C. Niranjana, I.H. Wahiba |
| 192      | Image 91 Photo Voucher | 12.x.2018    | *Clinotarsus curtipes*                | Thannikudi, PTR, Idukki                 | 9.50256      | 77.20208     | WG       | NT                   | Evergreen forest                     | U.S. Amal                            |
| 193      | Image 92 Photo Voucher | 17.x.2017    | *Hydrophylax malabaricus*             | Botanical Garden, KAU main campus, Vellanikkara, Thrissur | 10.54997     | 76.28764     | LC       | Rubber plantation     |                                      | M.S. Syamili, A. Azhar Ali           |
| 194      | Image 93 Photo Voucher | 04.xi.2019   | *Indosylvirana aurantiaca*            | Pandipath, PPWS, Thiruvananthapuram    | 8.68103      | 77.18164     | WG       | VU                   | Evergreen forest                     | N. Rahul                             |
| 195      | Image 94 Photo Voucher | 15.xi.2014   | *Indosylvirana doni*                  | Vallakkadavu, PTR, Idukki               | 9.72375      | 77.11086     | WG       | NE                   | Semi-evergreen forest                 | M.S. Syamili, M.K. Abha              |
| 196      | Image 95 Photo Voucher | 15.xi.2014   | *Indosylvirana doni*                  | Threkkad, PTR, Idukki                   | 9.58403      | 77.17850     | WG       | NE                   | Moist Deciduous Forest               | M.S. Syamili, M.K. Abha              |
| 197      | Image 96 Photo Voucher | 27.x.2019    | *Indosylvirana flavescens*            | Punnjavayal, WWS, Wayanad              | 11.64172     | 76.27811     | WG       | NE                   | Moist Deciduous Forest               | T. Arun                              |
| 198      | Image 97 Photo Voucher | 27.viii.2017 | *Indosylvirana sreeni*                | Panthamthodu, SVN, Palakkad            | 11.08347     | 76.43064     | WG       | NE                   | Evergreen forest                     | S. Sajitha                           |
| Image no | Record | Date        | Scientific name          | Location                                                      | Latitude (N) | Longitude (E) | Endemism | IUCN Red List status | Habitat                        | Observer/ Collector               |
|----------|--------|-------------|--------------------------|---------------------------------------------------------------|--------------|---------------|-----------|----------------------|---------------------------------|----------------------------------|
| 199      | Image 98 | Photo Voucher | 11.xi.2017               | *Indosylvirana magna*                                        | 8.76253      | 77.13825      | WG        | NE                  | Stream inside evergreen forest  | N. Rahul                        |
| 200      | Image 99 | Photo Voucher | 09.vii.2018              | *Indosylvirana magna*                                        | 8.71681      | 77.12389      | WG        | NE                  | Stream inside evergreen forest  | N. Rahul                        |
| 201      | Image 100 | Photo Voucher | 18.xi.2019               | *Indrana brachytarsus*                                       | 10.44828     | 76.62625      | WG        | EN                  | Evergreen forest                | M.S. Abhin, S. Habeel, C. Niranjana |
| 202      | Image 101 | Photo Voucher | 17.i.2020                | *Indrana saranjamma*                                         | 8.77393      | 77.12336      | WG        | NE                  | Stream inside evergreen forest  | M.S. Abhin, I. Arunima, J.J.K. Jincy |
| 203      | Image 102 | Photo Voucher | 24.i.2017                | *Indrana semipalmata*                                        | 10.54744     | 76.27856      | WG        | LC                  | Homegarden                      | M.S. Syamili, U.S. Amal          |
| 204      | Image 103 | Photo Voucher | 22.vii.2020              | *Walkerana leptodactyla*                                     | 10.04248     | 77.15421      | WG        | EN                  | Mid elevation Shola             | M.S. Abhin, A.R. Ajay, S. Nikihil |
| 205      | Image 104 | Photo Voucher | 22.vii.2014              | *Ghatikalus asterops*                                        | 10.16958     | 77.06159      | WG        | DD                  | Shola forest                    | E.R. Sreekumar, K.G. Ajay, S. Nikihil |
| 206      | Image 105 | Photo Voucher | 28.x.2014                | *Polypedates maculatus*                                      | 10.54744     | 76.27856      | LC        | Mois Deciduous Forest |                                 | K.M. Jobin                      |
| 207      | Image 106 | Photo Voucher | 23.i.2017                | *Polypedates maculatus*                                      | 10.55095     | 76.27742      | LC        | Bamboo clumps       |                                 | M.S. Syamili                    |
| 208      | Image 107 | Photo Voucher | 18.iii.2017              | *Polypedates maculatus*                                      | 10.54744     | 76.27856      | LC        | Wooded area         |                                 | M.S. Syamili                    |
| 209      | Image 108 | Photo Voucher | 24.vii.2019              | *Polypedates maculatus*                                      | 10.55095     | 76.27742      | LC        | Stagnant waterbody  |                                 | M.S. Abhin, S. Habeel, I. Arun   |
| 210      | Image 109 | Photo Voucher | 10.vii.2020              | *Polypedates occidentalis*                                   | 9.90117      | 76.71531      | WG        | DD                  | Homegarden                      | T. Arun                          |
| 211      | Image 110 | Photo Voucher | 11.xi.2014               | *Polypedates occidentalis*                                   | 9.58403      | 77.17850      | WG        | Wooded area         |                                 | M.S. Syamili                    |
| 212      | Image 111 | Photo Voucher | 09.iii.2017              | *Pseudophilautus wynaadensis*                                | 10.54858     | 76.28803      | WG        | EN                  | Bushes                          | M.S. Syamili, Akhil Das A        |
| 213      | Image 112 | Photo Voucher | 25.v.2017                | *Pseudophilautus wynaadensis*                                | 10.54997     | 76.28764      | WG        | EN                  | Homegarden                      | M.S. Syamili, U.S. Amal          |
| 214      | Image 113 | Photo Voucher | 03.v.2019                | *Pseudophilautus wynaadensis*                                | 10.54997     | 76.28764      | WG        | EN                  | Wooded area                     | T. Arun                          |
| 215      | Image 114 | Photo Voucher | 24.vi.2019               | *Pseudophilautus wynaadensis*                                | 10.55095     | 76.27742      | WG        | EN                  | Stagnant waterbody              | M.S. Abhin, S. Habeel, T. Arun   |
| 216      | Image 115 | Photo Voucher | 26.vi.2019               | *Pseudophilautus wynaadensis*                                | 10.30458     | 76.58837      | WG        | EN                  | Tea plantation                  | S. Sajitha, M.S. Abhin, S. Habeel, S. Ajishma, R. Revathy |
| Image no | Record | Date       | Scientific name                  | Location                  | Latitude (N) | Longitude (E) | Endemism | IUCN Red List status | Habitat                      | Observer/Collector |
|----------|--------|------------|----------------------------------|---------------------------|--------------|---------------|----------|----------------------|------------------------------|------------------------|
| 217      | Image 116 | Photo Voucher | 07.x.2019 | *Pseudophilautus wynnaedis* | Echippara, CMWS, Thrissur | 10.44169     | 76.44752 | WG EN                | M.S. Abhin, S. Habeel, C. Niranjana, S. Sajitha, A.R. Aiswaryalakshmi, R. Revathy, I. Arunima, J.J.K. Jincy | M.S. Abhin, S. Habeel, C. Niranjana, S. Sajitha, A.R. Aiswaryalakshmi, R. Revathy, I. Arunima, J.J.K. Jincy |
| 218      | Image 117 | Photo Voucher | 07.x.2019 | *Raorchestes akroparallagi* | Kalpetta, Wayanad | 11.61247     | 76.10125 | WG                  | Evergreen forest                  | K.M. Jobin |
| 219      | Image 118 | Photo Voucher | 07.vii.2013 | *Raorchestes akroparallagi* | Vallakadavu, PTR, Idukki | 9.72375      | 77.11086 | LC                  | Evergreen forest                      | K.M. Jobin |
| 220      | Image 119 | Photo Voucher | 19.i.2019 | *Raorchestes akroparallagi* | Pandimotta, SHWS, Kollam | 8.87258      | 77.23498 | WG                  | Evergreen forest                      | N. Rahul |
| 221      | Image 120 | Photo Voucher | 07.x.2012 | *Raorchestes anili* | Kalpetta, Kalpetta, Wayanad | 11.61247     | 76.10125 | WG                  | Evergreen forest                      | K.M. Jobin |
| 222      | Image 121 | Photo Voucher | 15.xi.2014 | *Raorchestes anili* | Vallakadavu, PTR, Idukki | 9.72375      | 77.11086 | WG                  | Semi-evergreen forest                  | M.S. Syamili, M.K. Abha, M.I. Abhirami, J. Anjali |
| 223      | Image 122 | Photo Voucher | 27.vii.2019 | *Raorchestes archaeros* | Bonaicud, ABPI, Thiruvananthapuram | 8.67469      | 77.17003 | NE Mois't Deciduous forest | J Anshad |
| 224      | Image 123 | Photo Voucher | 20.vii.2011 | *Raorchestes beddomii* | Munnar town, Munnar, Idukki | 10.08481     | 77.06103 | WG NT                | Evergreen forest                      | K.M. Jobin |
| 225      | Image 124 | Photo Voucher | 25.v.2018 | *Raorchestes beddomii* | Munnar town, Munnar, Idukki | 10.08481     | 77.06103 | WG NT                | Bushes                                      | U.S. Amal |
| 226      | Image 125 | Photo Voucher | 04.i.2020 | *Raorchestes beddomii* | Pandipath, PPWS, Thiruvananthapuram | 8.68103      | 77.18164 | WG NT                | Evergreen forest                      | N. Rahul |
| 227      | Image 126 | Photo Voucher | 15.v.2012 | *Raorchestes chromasynchysi* | Howelock, SVNP, Palakkad | 11.07211     | 76.53589 | VG                  | Evergreen forest                      | K.M. Jobin |
| 228      | Image 127 | Photo Voucher | 20.v.2014 | *Raorchestes dubois* | Kollukun, ENP, Idukki | 10.18961     | 77.06914 | VG Shola forest       | E.R. Sreekumar, K.G. Ajay, S. Nikhil |
| 229      | Image 128 | Photo Voucher | 21.vii.2020 | *Raorchestes dubois* | Anamudi, ENP, Idukki | 10.16958     | 77.06159 | VG High altitude grasslands | M.S. Abhin, A.R. Aiswaryalakshmi |
| 230      | Image 129 | Photo Voucher | 07.x.2012 | *Raorchestes glandulosus* | Chembra, Kalpetta, Wayanad | 11.71114     | 75.89911 | VG Evergreen forest     | K.M. Jobin |
| 231      | Image 130 | Photo Voucher | 20.vii.2011 | *Raorchestes grief* | Munnar town, Munnar, Idukki | 10.08481     | 77.06103 | WG CR                | Evergreen forest                      | K.M. Jobin |
| 232      | Image 131 | Photo Voucher | 27.jx.2019 | *Raorchestes jayarami* | Forest Department Darmitory, Munnar, Idukki | 10.08531 | 77.05833 | VG                | Wooded area                                 | A.F. Katakath |
| 233      | Image 132 | Photo Voucher | 20.x.2011 | *Raorchestes kosalasrensis* | Munnar town, Munnar, Idukki | 10.08481     | 77.06103 | VG NE                | Evergreen forest                      | K.M. Jobin |
| 234      | Image 133 | Photo Voucher | 16.vii.2020 | *Raorchestes marki* | Nedumkandam, Nedumkandam, Idukki | 9.83433      | 77.15328 | VG CR                | Cardamom plantation                   | T. Arun |
| 235      | Image 134 | Photo Voucher | 07.x.2012 | *Raorchestes nerostagona* | Vallakadavu, PTR, Idukki | 9.72375      | 77.11086 | VG EN                | Evergreen forest                      | K.M. Jobin |
| 236      | Image 135 | Photo Voucher | 15.x.2013 | *Raorchestes ochlandrae* | Kakkayam, MWS, Kozhikode | 11.54811      | 75.88967 | VG                  | Evergreen forest                      | K.M. Jobin |
| 237      | Image 136 | Photo Voucher | 07.x.2012 | *Raorchestes ponmudi* | Kalpetta, Wayanad | 11.61247     | 76.10125 | WG CR                | Evergreen forest                      | K.M. Jobin |
| 238      | Image 137 | Photo Voucher | 07.vil.2013 | *Raorchestes ponmudi* | Vallakadavu, PTR, Idukki | 9.72375      | 77.11086 | WG CR                | Evergreen forest                      | K.M. Jobin |
| Image no | Record     | Scientific name        | Location                                                                 | Date           | Observer/Collector          | Habitat                        | Endemism | IUCN Red List status | Observer/Collector          |
|----------|------------|------------------------|--------------------------------------------------------------------------|----------------|-----------------------------|--------------------------------|----------|-----------------------|-----------------------------|
| 239      | Image 118  | Raorchestes ponmudi    | Forest Department Dormitory, Vazhachal Forest Range, Thrissur             | 27.x.2019      | N. Rahul                    | Stream inside evergreen forest | WG       | CR                    |                             |
| 240      | Image 119  | Raorchestes resplendens | Popparu, ENP, Mulki                                                      | 3.iii.2012     | K.M. Abin, J. Jobin         | High altitude grasslands     | WG       | CR                    |                             |
| 241      | Image 120  | Raorchestes uthamani   | P. F. R. R., Palakkad                                                    | 16.xi.2010     | K.M. Abin                   | Evergreen forest              | WG       | CR                    | K.M. Abin                   |
| 242      | Image 121  | Rhacophorus calcadensis | P. T. Chinnappull route, Ponmudi, Thiruvananthapuram                     | 12.xi.2011     | N. Rahul                    | Stream inside evergreen forest | WG       | CR                    | N. Rahul                    |
| 243      | Image 122  | Rhacophorus lateralis  | Poopara, PBTR, Palakkad                                                  | 17.x.2012      | K.M. Jobin, J. Jobin        | High altitude grasslands     | WG       | EN                    | K.M. Jobin, J. Jobin        |
| 244      | Image 123  | Rhacophorus malabaricus| Ponmudi, Idukki                                                          | 23.x.2011      | N. Rahul                    | High altitude grasslands     | NE       | EN                    |                             |
| 245      | Image 124  | Rhacophorus pseudomalabaricus | Gavi, Pathanamthitta, Pathanamthitta                                      | 23.x.2011      | E.R. Sreekumar, K.G. Ajay, S. Nikhil | Evergreen forest              | WG       | CR                    |                             |
| 246      | Image 125  | Uraeotyphlus menoni    | Botanical Garden, KAU main campus, Vellanikkara, Thrissur                | 17.vii.2017    | M.S. Syamili                | Wooded area                   | DD       | LC                    |                             |
| 247      | Image 126  | Duttaphrynus melanostictus | Forest Department Dormitory, Vazhachal Forest Range, Thrissur            | 17.vii.2019    | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | High altitude grasslands     | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 248      | Image 127  | Duttaphrynus microtympanum | Botanical Garden, KAU main campus, Vellanikkara, Thrissur                | 01.vi.2019     | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 249      | Image 128  | Duttaphrynus microtympanum | Botanical Garden, KAU main campus, Vellanikkara, Thrissur                | 01.vi.2019     | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 250      | Image 129  | Duttaphrynus melanolacertinus | Forest Department Dormitory, Vazhachal Forest Range, Thrissur           | 17.vii.2019    | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 251      | Image 130  | Duttaphrynus melanolacertinus | Forest Department Dormitory, Vazhachal Forest Range, Thrissur            | 17.vii.2019    | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 252      | Image 131  | Duttaphrynus melanolacertinus | Forest Department Dormitory, Vazhachal Forest Range, Thrissur            | 17.vii.2019    | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 253      | Image 132  | Duttaphrynus melanolacertinus | Forest Department Dormitory, Vazhachal Forest Range, Thrissur            | 17.vii.2019    | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 254      | Image 133  | Duttaphrynus melanolacertinus | Forest Department Dormitory, Vazhachal Forest Range, Thrissur            | 17.vii.2019    | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 255      | Image 134  | Duttaphrynus melanolacertinus | Forest Department Dormitory, Vazhachal Forest Range, Thrissur            | 17.vii.2019    | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| 256      | Image 135  | Duttaphrynus melanolacertinus | Forest Department Dormitory, Vazhachal Forest Range, Thrissur            | 17.vii.2019    | S. Sajitha, M.S. Abhin, Niranjan C. R. Abhin, A.R. Aiswaryalakshmi | Moist Deciduous Forest       | LC       | LC                    | S. Sajitha, M.S. Abhin, A.R. Aiswaryalakshmi |
| Image no | Record | Date       | Scientific name         | Location                                                                 | Longitude (E) | Latitude (N) | Endemism     | IUCN Red List status | Habitat                     | Observer/Collector |
|----------|--------|------------|-------------------------|--------------------------------------------------------------------------|---------------|--------------|--------------|----------------------|-----------------------------|------------------------|
| 257      | Opportunistic Record | 15.v.2013 | Ghatorhynychornata      | Kakkayam, MWS, Kozhikode                                                  | 11.54811      | 75.88967     | WG           | EN                   | Evergreen forest           | K.M. Jobin             |
| 258      | Opportunistic Record | 22.viii.2016 | Euphlyctis cyanophlyctis | Kallumuzikku, WWS, Wayanad                                                | 11.67808      | 76.38944     | LC           | Dry deciduous forest      |                            | A. Devajjan             |
| 259      | Opportunistic Record | 31.vi.2019 | Euphlyctis cyanophlyctis | Vallikkayam, PWS, Thrissur                                                | 10.53605      | 76.37712     | LC           | Evergreen forest          |                            | S. Sajitha, M.S. Ahhin, Niranjan C, A.R. Aiswaryaalakshmi |
| 260      | Opportunistic Record | 31.viii.2019 | Euphlyctis cyanophlyctis | Vallikkayam, PWS, Thrissur                                                | 10.53605      | 76.37712     | LC           | Evergreen forest          |                            | S. Sajitha, M.S. Ahhin, Niranjan C, A.R. Aiswaryaalakshmi |
| 261      | Opportunistic Record | 14.iii.2020 | Euphlyctis cyanophlyctis | Alagappanagar town, Amballur, Thrissur                                  | 10.43711      | 76.26721     | LC           | Stagnant waterbody        |                            | Abhin M Sunil, A.R. Aiswaryaalakshmi, Athira Ravi |
| 262      | Opportunistic Record | 25.i.2017 | Hoplobatrachus tigrinus | College of Forestry, KAU main campus, Vellanikkara, Thrissur              | 10.54825      | 76.27956     | LC           | Bushes near pond          |                            | M.S. Jaymili            |
| 263      | Opportunistic Record | 14.iii.2020 | Hoplobatrachus tigrinus | Alagappanagar town, Amballur, Thrissur                                  | 10.43711      | 76.26721     | LC           | Stagnant waterbody        |                            | Abhin M Sunil, A.R. Aiswaryaalakshmi, Athira Ravi |
| 264      | Opportunistic Record | 21.v.2019 | Minervarya keralensis    | Shendurney, SWIS, Kollam                                                    | 8.95939       | 77.08333     | LC           | Stagnant waterbody        |                            | K. Karthik              |
| 265      | Opportunistic Record | 26.vi.2019 | Minervarya keralensis    | Forest Department Dormitory, Vazhachal Forest Range, Thrissur              | 10.30461      | 76.58837     | LC           | Moist Deciduous Forest    |                            | S. Sajitha, M.S. Ahhin, S. Habeel, Ajishma S, R. Revalthy  |
| 266      | Opportunistic Record | 06.x.2019 | Minervarya keralensis    | Virakthod, OAPI, Thrissur                                                   | 10.44828      | 76.46257     | LC           | Moist Deciduous Forest    |                            | S. Sajitha, M.S. Ahhin, C. Niranjan, Habeel  |
| 267      | Opportunistic Record | 05.iii.2020 | Minervarya keralensis    | Kanjikuzhi, Kanjikuzhi town, Idukki                                        | 9.94058       | 76.93653     | LC           | Evergreen forest          |                            | T. Arun                 |
| 268      | Opportunistic Record | 13.v.2019 | Minervarya kudremukhensis | Botanical Garden, KAU main campus, Vellanikkara, Thrissur                  | 10.54803      | 76.27674     | WG           | NE                   | Bushes              | S. Sajitha              |
| 269      | Opportunistic Record | 13.iii.2010 | Minervarya mudduraja     | Kelapparpara, WWS, Wayanad                                                | 11.65008      | 76.19114     | WG           | NE                   | Moist Deciduous Forest    | P.C. Athulya            |
| 270      | Opportunistic Record | 29.xi.2014 | Micrixalus adonis       | Thirumudi, ENP, Idukki                                                     | 10.22678      | 77.08706     | WG           | NE                   | Shola stream           | E.R. Sreekumar, K.G. Ajay, S. Nikhil |
| 271      | Opportunistic Record | 28.viii.2017 | Micrixalus thampii      | Panthambodhu, SVN, Palakkad                                              | 11.08347      | 76.48064     | WG           | DD                   | Steam inside evergreen forest | S. Sajitha, C. Niranjan, L.H. Wahiba |
| 272      | Opportunistic Record | 15.iv.2012 | Microhyla darrell       | Arippa Forest Training Institute, KPRF, Kollam                            | 8.83294       | 77.03706     | WG           | DD                   | Moist Deciduous Forest    | K.M. Jobin              |
| 273      | Opportunistic Record | 15.v.2013 | Microhyla darrell      | College of Forestry, KAU main campus, Vellanikkara, Thrissur              | 10.54825      | 76.27956     | WG           | DD                   | Moist Deciduous Forest    | K.M. Jobin              |
| Image no | Record                  | Date         | Scientific name                        | Location                                                                 | Latitude (N) | Longitude (E) | Endemism | IUCN Red List status | Habitat                        | Observer/ Collector               |
|----------|-------------------------|--------------|----------------------------------------|--------------------------------------------------------------------------|--------------|--------------|----------|----------------------|---------------------------------|----------------------------------|
| 274      | Opportunistic Record    | 24.viii.2016 | Microhyla darrelli                    | Kallumukku, WWs, Wayanad                                                  | 11.67808     | 76.38944     | WG       | DD                   | Dry deciduous forest             | A. Devanjan                      |
| 275      | Opportunistic Record    | 07.x.2019    | Microhyla nilphamariensis             | Virakkoth, CMWS, Thrissur                                                 | 10.44828     | 76.46257     |          |                      | Moist Deciduous Forest           | S. Sajitha                       |
| 276      | Opportunistic Record    | 25.v.2011    | Microhyla ornata                      | College of Forestry, KAU main campus, Vellanikkara, Thrissur              | 10.54825     | 76.27956     | LC       |                      | Moist Deciduous Forest           | K.M. Jobin                       |
| 277      | Opportunistic Record    | 25.iv.2017   | Microhyla ornata                      | College of Forestry, KAU main campus, Vellanikkara, Thrissur              | 10.54825     | 76.27956     | LC       |                      | Bushes near pond                 | M.S. Sajithi                     |
| 278      | Opportunistic Record    | 15.v.2013    | Liparodon anamalaiensis               | Arippa Forest Training Institute, KPRF, Kollam                            | 8.83294      | 77.03706     | WG       | DD                   | Moist Deciduous Forest           | K.M. Jobin                       |
| 279      | Opportunistic Record    | 28.vi.2012   | Liparodon montanus                    | Forest Department Dormitory, ARWS, Kannur                                 | 11.92225     | 75.79300     | WG       | NT                   | Evergreen forest                | K.M. Jobin                       |
| 280      | Opportunistic Record    | 24.i.2017    | Liparodon taprobaticus                | Coconut plantation, KAU main campus, Vellanikkara, Thrissur                | 10.55099     | 76.27844     | LC       |                      | wooded area                      | M.S. Sajithi, A. Azhar Ali       |
| 281      | Opportunistic Record    | 03.v.2017    | Liparodon taprobaticus                | Ollikkara, Mannuthy, Thrissur                                             | 10.52764     | 76.25369     | LC       |                      | Homegarden                      | M.S. Sajithi                     |
| 282      | Opportunistic Record    | 14.xi.2019   | Liparodon taprobaticus                | Mayamur, Mayinnur, Palakkad                                              | 10.75067     | 76.38950     | LC       |                      | Bushes                          | P.C. Athulya                     |
| 283      | Opportunistic Record    | 21.i.2020    | Liparodon taprobaticus                | Kompara, Vithura, Thiruvananthapuram                                    | 8.67256      | 77.08167     | LC       |                      | Homegarden                      | M.S. Abhin                       |
| 284      | Opportunistic Record    | 15.v.2012    | Liparodon triangularis                | Hovelock, SVNP, Palakkad                                                 | 11.07211     | 75.63589     | WG       | VU                   | Evergreen forest                | K.M. Jobin                       |
| 285      | Opportunistic Record    | 22.v.2009    | Liparodon variegatus                  | Chittur, Palakkad, Palakkad                                               | 10.69831     | 76.73944     | LC       |                      | Moist Deciduous Forest           | K.M. Jobin                       |
| 286      | Opportunistic Record    | 08.x.2019    | Nasikabatrachus sahyadrensis          | Virakkoth, CMWS, Thrissur                                                 | 10.45662     | 76.46257     | WG       | EN                   | Stream inside evergreen forest   | S. Sajitha, M.S. Abhin, C. Niranjana, Habele |
| 287      | Opportunistic Record    | 14.x.2009    | Nyctibatrachus acanthodermis          | Malakkapara, Palakkad, Palakkad                                           | 10.27956     | 76.85078     | WG       | NE                   | Stream inside evergreen forest   | K.M. Jobin                       |
| 288      | Opportunistic Record    | 13.xi.2010   | Nyctibatrachus acanthodermis          | Kaikatti, NR, Palakkad                                                    | 10.53117     | 76.67911     | WG       | NE                   | Stream inside evergreen forest   | K.M. Jobin                       |
| 289      | Opportunistic Record    | 30.xi.2013   | Nyctibatrachus aliciae                | Kallar, Ponnudy, Thiruvananthapuram                                     | 8.71681      | 77.13289     | WG       | EN                   | Stream inside evergreen forest   | K.M. Jobin                       |
| 290      | Opportunistic Record    | 19.xi.2020   | Nyctibatrachus anamallalaiensis       | Parvathy Hills, Old Munnar, Idukki                                        | 10.08761     | 76.90852     | WG       | NE                   | Swamp                           | M.S. Abhin, A.R. Aiswaranikishnu |
| 291      | Opportunistic Record    | 08.x.2019    | Nyctibatrachus athripiphyensis        | Virakkoth, CMWS, Thrissur                                                 | 10.44828     | 76.46257     | WG       | NE                   | Evergreen forest                | S. Sajitha, M.S. Abhin, C. Niranjana, Habele |
| 292      | Opportunistic Record    | 20.vi.2011   | Nyctibatrachus decanensis            | Forest Department Dormitory, ENP, Idukki                                  | 10.08531     | 77.05833     | WG       | VU                   | Shola stream                     | K.M. Jobin                       |
| 293      | Opportunistic Record    | 15.v.2013    | Nyctibatrachus lempolyxensis          | Kakkiyam, MWS, Kozhikode                                                 | 11.54811     | 75.8967      | WG       | DD                   | Stream inside evergreen forest   | K.M. Jobin                       |
| Image no | Record Type | Date       | Scientific name                          | Location                                                                 | Latitude (N) | Longitude (E) | Endemism | IUCN Red List status | Habitat                        | Observer/Collector |
|----------|-------------|------------|------------------------------------------|--------------------------------------------------------------------------|--------------|---------------|----------|----------------------|--------------------------------|------------------------|
| 294      | Opportunistic Record | 08.x.2019 | Nyctibatrachus kempfoyleyiensis          | Sulthan Bathery, WWS, Wayanad                                            | 11.65564     | 76.26069      | WG       | DD                  | Stream inside moist deciduous forest | P.C. Athulya |
| 295      | Opportunistic Record | 16.6.x.2011 | Nyctibatrachus minimus              | Kakkiyam, MWS, Kozhikode                                               | 11.54811     | 75.88967      | WG       | DD                  | Swamp                          | K.M. Jobin               |
| 296      | Opportunistic Record | 31.viii.2016 | Nyctibatrachus minor                        | Muthumalakkelal, WWS, Wayanad                                           | 12.00876     | 75.72844      | WG       | EN                  | Dry deciduous forest            | A. Devarajan          |
| 297      | Opportunistic Record | 20.vii.2011 | Nyctibatrachus poacha                    | Forest Department Dormitory, ENP, Idukki                                | 10.08531     | 77.05833      | WG       | NE                  | Shola stream                    | K.M. Jobin               |
| 298      | Opportunistic Record | 19.vi.2020 | Nyctibatrachus vrijeeni                 | Parvathy hills, Old Munnar, Idukki                                      | 10.08761     | 76.98052      | WG       | NE                  | Swamp                          | M.S. Abhin, A.R. Alswaryalakshmi |
| 299      | Opportunistic Record | 15.v.2012  | Nyctibatrachus vrijeeni                 | Agalli, SVNP, Palakkad                                                 | 11.11200     | 76.65717      | WG       | NE                  | Swamp                          | K.M. Jobin               |
| 300      | Opportunistic Record | 22.ix.2012 | Clinotarsus curtipes                    | Conolly’s Plot, Nilambur, Malappuram                                   | 11.26719     | 76.20608      | WG       | NT                  | Teak plantation                 | M.S. Syamili            |
| 301      | Opportunistic Record | 15.xi.2014 | Clinotarsus curtipes                    | Vallakadaw, PTR, Idukki                                               | 9.72375      | 77.11086      | WG       | NT                  | Semi-evergreen forest              | M.S. Syamili, M.K. Abha |
| 302      | Opportunistic Record | 27.x.2019  | Clinotarsus curtipes                    | Tunalakadavu, PBTR, Palakkad                                         | 10.43594     | 76.78058      | WG       | NT                  | Moist Deciduous Forest             | A.F. Katakath           |
| 303      | Opportunistic Record | 15.x.2017  | Hydrophylax malabaricus                | Botanical Garden, KAU main campus, Vellaikkara, Thrissur                | 10.54997     | 76.28764      | LC       | VU                  | Wooded area                      | M.S. Syamili            |
| 304      | Opportunistic Record | 17.vii.2019 | Indosylvirana aurantiaca                | Anjippa Forest Training Institute, KPR, Kollam                          | 8.83294      | 77.03706      | WG       | VU                  | Eucalyptus plantation            | U.S. Amal               |
| 305      | Opportunistic Record | 04.xi.2019 | Indosylvirana aurantiaca                | Pandipath, PPWS, Thrivunanthapuram                                   | 8.68103      | 77.18164      | WG       | VU                  | Evergreen forest                | N. Rahil                |
| 306      | Opportunistic Record | 24.vii.2014 | Indosylvirana dorni                     | Sholayar dam, Sholayar, Thrissur                                      | 10.27956     | 76.85078      | WG       | NE                  | Moist Deciduous Forest            | M.S. Syamili            |
| 307      | Opportunistic Record | 25.xi.2019 | Indosylvirana sreeni                    | Attappady, ATRF, Palakkad                                            | 11.07128     | 76.56542      | WG       | NE                  | Dry Deciduous Forest              | P.C. Athulya            |
| 308      | Opportunistic Record | 24.1.2017  | Indosylvirana urbis                     | College of Forestry, KAU main campus, Vellaikkara, Thrissur            | 10.54744     | 76.27856      | WG       | NE                  | Bushes near pond                  | M.S. Syamili, S. Habeel |
| 309      | Opportunistic Record | 10.vii.2019 | Indirana brachytarsus                   | Rubber plantation, KAU main campus, Vellaikkara, Thrissur              | 10.54858     | 76.28803      | WG       | EN                  | Bushes near pond                  | A.F. Katakath, M.S. Syamili |
| 310      | Opportunistic Record | 15.x.2020  | Ghatialus austerasp                      | Rajamala, ENP, Idukki                                                  | 10.12956     | 77.00130      | WG       | DD                  | High altitude grasslands         | S. Francis              |
| 311      | Opportunistic Record | 07.vii.2013 | Polyedates maculatus                    | Edakkara, Nilambur, Malappuram                                        | 11.34964     | 76.30194      | LC       |                      | Moist Deciduous Forest            | K.M. Jobin              |
| 312      | Opportunistic Record | 08.x.2019  | Polyedates maculatus                    | Forest Department Dormitory, CMWS, Thrissur                            | 10.44828     | 76.46257      | LC       |                      | Moist Deciduous Forest            | S. Sajitha, M.S. Abhin, C. Naranjana, Habeel |
| 313      | Opportunistic Record | 24.x.2020  | Pseudophilautus kani                    | Vithura, Thrivunanthapuram                                             | 8.67256      | 77.08167      | WG       | LC                  | Homegarden                       | M.S. Abhin              |
| 314      | Opportunistic Record | 23.xii.2012 | Pseudophilautus wynaediensis             | Ollikkasset, Mannuthy, Thrissur                                       | 10.52764     | 76.25369      | WG       | EN                  | Homegarden                       | M.S. Syamili            |
| Image no | Record | Date          | Scientific name              | Location                        | Latitude  (N)   | Longitude  (E) | Red List | Endemism | Habitat                  | Observer/ Collector |
|----------|--------|---------------|------------------------------|--------------------------------|----------------|----------------|----------|----------|--------------------------|-------------------|
| 315      | Opportunistic Record | 31.vii.2019 | Pseudophilautus wynaadensis | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WG | EN | Evergreen forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 316      | Opportunistic Record | 07.x.2019  | Pseudophilautus wynaadensis | Vallikkayam, PVWS, Thrissur | 10.49665 | 76.64957 | WG | EN | Evergreen forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 317      | Opportunistic Record | 06.1.2013  | Raorchestes akroparallagi   | Wayland | 10.53605 | 76.36712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 318      | Opportunistic Record | 06.i.2013  | Raorchestes akroparallagi   | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 319      | Opportunistic Record | 31.vii.2019 | Raorchestes anili           | Munich | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 320      | Opportunistic Record | 11.1.2020  | Raorchestes akroparallagi   | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 321      | Opportunistic Record | 22.xi.2014 | Raorchestes akroparallagi   | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 322      | Opportunistic Record | 25.xi.2014 | Raorchestes akroparallagi   | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 323      | Opportunistic Record | 25.xi.2014 | Raorchestes akroparallagi   | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 324      | Opportunistic Record | 25.xi.2014 | Raorchestes akroparallagi   | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 325      | Opportunistic Record | 25.xi.2014 | Raorchestes akroparallagi   | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 326      | Opportunistic Record | 25.xi.2014 | Raorchestes akroparallagi   | Vallikkayam, PVWS, Thrissur | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | S. Sajitha, M.S. Abhin, Niranjan C, A.R. Aiswaryalakshmi |
| 327      | Opportunistic Record | 05.vii.2012 | Rhacophorus malabaricus     | Kalpetta, Wayand | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | P. C. Athulya |
| 328      | Opportunistic Record | 16.viii.2010 | Rhacophorus malabaricus     | Kalpetta, Wayand | 10.53605 | 76.37712 | WS | LC | Moist Deciduous Forest | P. C. Athulya |
Table 3. The number of genera and species of amphibians that are available in the KAUNHM, southern India.

| Family                        | No. of genera in KAU database | No. of genera in Kerala | No. of species in KAU database | No. of species in Kerala | % of species for which KAU has information |
|-------------------------------|-------------------------------|-------------------------|--------------------------------|--------------------------|------------------------------------------|
| 1. Bufonidae (toads)          | 3                             | 3                       | 7                              | 9                        | 78                                       |
| 2. Dicroglossidae (fork-tongued frogs) | 4                             | 4                       | 7                              | 20                       | 35                                       |
| 3. Microhylidae (dancing frogs) | 1                             | 1                       | 10                             | 18                       | 55                                       |
| 4. Microhylidae (narrow-mouthed frogs) | 2                             | 4                       | 10                             | 13                       | 76.9                                     |
| 5. Nasikabatrachidae (purple frogs) | 1                             | 1                       | 1                              | 1                        | 100                                      |
| 6. Nectophrynchidae (night frogs) | 1                             | 2                       | 14                             | 25                       | 56                                       |
| 7. Ranidae (true frogs)       | 3                             | 3                       | 9                              | 11                       | 82                                       |
| 8. Ranixalidae (leaping frogs) | 2                             | 2                       | 5                              | 10                       | 50                                       |
| 9. Rhacophoridae (tree frogs) | 5                             | 7                       | 27                             | 59                       | 46                                       |
| 10. Icthyophiidae (Asiatic tailed caecilians) | 1                             | 2                       | 1                              | 11                       | 9                                        |
| 11. Indotyphophyidae (common caecilians) | 1                             | 0                       | 0                              | 4                        | 0                                        |
| Total                         | 23                            | 30                      | 91                             | 181                      | 50.3                                     |

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Author contributions: P.O. Nameer conceived and developed the idea; all authors contributed equally in the writing of the paper.
Appendix I. Images 1–148 of photo voucher specimens (refer Table 2).
Database of amphibian vouchers and records available at KAU

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Image 16. *Indirana semipalmata*

Image 17. *Indirana yadera*

Image 18. *Polypedates maculatus*

Image 19. *Polypedates occidentalis*

Image 20. *Pseudophilautus wynaadensis*

Image 21. *Pseudophilautus wynaadensis*

Image 22. *Pseudophilautus wynaadensis*

Image 23. *Pseudophilautus wynaadensis*

Image 24. *Pseudophilautus wynaadensis*

Image 25. *Pseudophilautus wynaadensis*

Image 26. *Pseudophilautus wynaadensis*

Image 27. *Raorchestes akroparallagi*

Image 28. *Raorchestes kaikatti*

Image 29. *Raorchestes marki*

Image 30. *Raorchestes ponmudi*
Database of amphibian vouchers and records available at KAU

Image 46. Hoplobatrachus tigerinus

Image 47. Hoplobatrachus tigerinus

Image 48. Hoplobatrachus tigerinus

Image 49. Minervarya brevipalmata

Image 50. Minervarya kadar

Image 51. Minervarya kadar

Image 52. Minervarya keralensis

Image 53. Minervarya kudremukhensis

Image 54. Micrixalus adonis

Image 55. Micrixalus adonis

Image 56. Micrixalus adonis

Image 57. Micrixalus fuscus
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Image 73. *Uperodon triangularis*

Image 74. *Uperodon variegatus*

Image 75. *Nasikabatrachus sahyadrensis*

Image 76. *Nasikabatrachus sahyadrensis*

Image 77. *Nyctibatrachus acanthodermis*

Image 78. *Nyctibatrachus anamallaiensis*

Image 79. *Nyctibatrachus athirappillyensis*

Image 80. *Nyctibatrachus deveni*

Image 81. *Nyctibatrachus gavi*

Image 82. *Nyctibatrachus kempholeyensis*

Image 83. *Nyctibatrachus major*

Image 84. *Nyctibatrachus minimus*
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Image 85. *Nyctibatrachus periyar*  
Image 86. *Nyctibatrachus vrijeuni*  
Image 87. *Nyctibatrachus vrijeuni*

Image 88. *Clinotarsus curtipes*  
Image 89. *Clinotarsus curtipes*  
Image 90. *Clinotarsus curtipes*

Image 91. *Clinotarsus curtipes*  
Image 92. *Hydrophylax malabaricus*  
Image 93. *Indosylvirana aurantiaca*

Image 94. *Indosylvirana doni*  
Image 95. *Indosylvirana doni*  
Image 96. *Indosylvirana flavescens*

Image 97. *Indosylvirana sreeni*  
Image 98. *Indosylvirana magna*  
Image 99. *Indosylvirana magna*
Image 100. Indirana brachytarsus

Image 101. Indirana sarojamma

Image 102. Indirana semipalmata

Image 103. Walkerana leptodactyla

Image 104. Ghatixalus asterops

Image 105. Polypedates maculatus

Image 106. Polypedates maculatus

Image 107. Polypedates maculatus

Image 108. Polypedates maculatus

Image 109. Polypedatus occidentalis

Image 110. Polypedates occidentalis

Image 111. Pseudophilautus wynaadensis

Image 112. Pseudophilautus wynaadensis
Database of amphibian vouchers and records available at KAU

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Image 113. *Pseudophilatus waynaadensis*

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Image 114. *Pseudophilautus waynaadensis*

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Image 115. *Psedophilautus waynaadensis*

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Image 116. *Pseudophilautus waynaadensis*

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Image 117. *Raorchestes akroparallagi*

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Image 118. *Raorchestes akroparallagi*

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Image 119. *Raorchestes akroparallagi*

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Image 120. *Raorchestes anili*

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Image 121. *Raorchestes anili*

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Image 122. *Roarchestus archeos*

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Image 123. *Roarchestes beddomii*

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Image 124. *Roarchestes beddomii*

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## Appendix II. Updated checklist of amphibians of Kerala.

| Species name                | Authority                                      | IUCN Red List | Endemism |
|-----------------------------|------------------------------------------------|---------------|----------|
| **A. Bufonidae**            |                                                 |               |          |
| 1  Duttaphrynus beddomeii   | (Günther, 1876)                               | EN            | WG       |
| 2  Duttaphrynus melanostictus | (Schneider, 1799)                             | LC            |          |
| 3  Duttaphrynus microtympanum | (Boüenger, 1882)                              | VU            | ND       |
| 4  Duttaphrynus panielatis   | (Boüenger, 1882)                              | NT            | WG       |
| 5  Duttaphrynus scaber       | (Schneider, 1799)                             |               |          |
| 6  Duttaphrynus silentvalleyensis | (Pillai, 1981)                          | DD            | KL       |
| 7  Ghaphtophyrm ornata       | (Günther, 1876)                               | EN            | WG       |
| 8  Ghaphtophyrm rubingina    | (Pillai & Pattabiraman, 1981)                 | VU            | WG       |
| 9  Pedostibles tuberculosus  | Günther, 1876                                 | EN            | WG       |
| **B. Dicroglossidae**       |                                                 |               |          |
| 10 Euphlyctis aloysii       | Joshy, Alam, Kurabayashi, Sumida & Kuramoto, 2009 | NE            | WG       |
| 11 Euphlyctis cyanophylchtis | (Schneider, 1799)                             | LC            |          |
| 12 Euphlyctis hexadactylus  | (Lesson, 1834)                                | LC            |          |
| 13 Euphlyctis koravalli     | Pritti, Naik, Seshadri, Singal, Vidisha, Ravikarth & Gururaja, 2016 | EN            | WG       |
| 14 Hoplobatrachus crassus   | Jerdon, 1853                                  | LC            |          |
| 15 Hoplobatrachus tigrinus  | (Daudin, 1802)                                | LC            |          |
| 16 Minervarya agricola      | Jerdon, 1853                                  | NE            |          |
| 17 Minervarya brevipalmata  | (Peters, 1871)                                | DD            | WG       |
| 18 Minervarya caperata      | (Kuramoto, Joshy, Kurabayashi & Sumida, 2007) | NE            | WG       |
| 19 Minervarya kader         | (Garg and Biju, 2017)                         | NE            | WG       |
| 20 Minervarya keramensis    | Dubois, 1981                                  | LC            | WG       |
| 21 Minervarya kudremukhensis| (Kuramoto, Joshy, Kurabayashi & Sumida, 2008) | NE            | WG       |
| 22 Minervarya monoharanii   | (Garg & Biju, 2017)                           | NE            | WG       |
| 23 Minervarya mudurunajai   | (Kuramoto, Joshy, Kurabayashi & Sumida, 2008) | NE            | WG       |
| 24 Minervarya neilicii      | (Garg & Biju, 2017)                           | NE            | WG       |
| 25 Minervarya nilagirica    | (Jerdon, 1853)                                | EN            | WG       |
| 26 Minervarya parombikulamana | (Rao, 1937)                                   | DD            | KL       |
| 27 Minervarya rufescens     | (Jerdon, 1853)                                | LC            | WG       |
| **C. Micrixalidae**         |                                                 |               |          |
| 28 Micrixalus adonis        | Biju, Garg, Gururaja, Souche & Walujkar, 2014 | NE            | KL       |
| 29 Micrixalus elegans       | (Rao, 1937)                                   | DD            | WG       |
| 30 Micrixalus frigidus      | Biju, Garg, Gururaja, Souche & Walujkar, 2014 | NE            | WG       |
| 31 Micrixalus fuscus        | (Boüenger, 1882)                              | NT            | WG       |
| 32 Micrixalus godpili       | Pillai & Pattabiraman, 1981                   | EN            | KL       |
| 33 Micrixalus herrei        | Myers, 1942                                   | NE            | WG       |
| 34 Micrixalus kurihiyari    | Biju, Garg, Gururaja, Souche & Walujkar, 2014 | NE            | KL       |
| 35 Micrixalus niluvasei     | Biju, Garg, Gururaja, Souche & Walujkar, 2014 | NE            | WG       |
| 36 Micrixalus nudis         | Pillai, 1978                                  | VU            | KL       |
| 37 Micrixalus phyllophilus  | (Jerdon, 1853)                                | VU            | WG       |
| 38 Micrixalus sairandhri    | Biju, Garg, Gururaja, Souche & Walujkar, 2014 | NE            | KL       |
| 39 Micrixalus silvaticus    | Biju, Garg, Gururaja, Souche & Walujkar, 2014 | NE            | WG       |
| 40 Micrixalus thampii       | Pillai, 1981                                  | DD            | KL       |
| **D. Microhyliidae**        |                                                 |               |          |
| 41 Melanobatrachus indicus  | Beddome, 1878                                 | EN            | WG       |
| 42 Microhyla darrei         | Garg, Suypsh, Das, Jang, Wijayathilaka, Amarasinghe, Alhadi, Vineeth, Aravind, Senevirathne, Meegaskumbura & Biju, 2018 "2019" | NE | WG |
| 43 Microhyla ornata         | (Duméril & Bibron, 1841)                      | LC            |          |
| 44 Microhyla nilphamariensis| (Howlader, Nar, Gopalan & Merilä, 2015)       | NE            |          |

**Species name**

- **Ghatophryne**
  - cyanophylchtis (Günther, 1876) EN WG
  - melanostictus (Boulenger, 1882) VU WG
  - hexadactylus (Schneider, 1799) LC
  - microtympanum (Boulenger, 1882) NT WG

- **Minervarya**
  - beddomeii (Günther, 1876) EN WG
  - melanoostictus (Schneider, 1799) LC
  - panielatis (Boüenger, 1882) NT WG
  - scaber (Schneider, 1799) LC
  - silentvalleyensis (Pillai, 1981) DD KL
  - ornata (Günther, 1876) EN WG
  - tuberculosus (Günther, 1876) EN WG

- **Hoplobatrachus**
  - crassus (Jerdon, 1853) LC
  - tigrinus (Daudin, 1802) LC
  - agricola (Jerdon, 1853) NE

- **Minervarya**
  - brevipalmata (Peters, 1871) DD WG
  - caperata (Kuramoto, Joshy, Kurabayashi & Sumida, 2007) NE WG
  - kader (Garg and Biju, 2017) NE WG
  - keramensis (Dubois, 1981) LC WG
  - kudremukhensis (Kuramoto, Joshy, Kurabayashi & Sumida, 2008) NE WG
  - monoharanii (Garg & Biju, 2017) NE WG
  - mudurunajai (Kuramoto, Joshy, Kurabayashi & Sumida, 2008) NE WG
  - neilicii (Garg & Biju, 2017) NE WG
  - nilagirica (Jerdon, 1853) EN WG
  - parombikulamana (Rao, 1937) DD KL
  - rufescens (Jerdon, 1853) LC WG

- **Micrixalus**
  - adonis (Biju, Garg, Gururaja, Souche & Walujkar, 2014) NE KL
  - elegans (Rao, 1937) DD WG
  - frigidus (Biju, Garg, Gururaja, Souche & Walujkar, 2014) NE WG
  - fuscus (Boulenger, 1882) NT WG
  - godpili (Pillai & Pattabiraman, 1981) EN KL
  - herrei (Myers, 1942) NE WG
  - kurishiyari (Biju, Garg, Gururaja, Souche & Walujkar, 2014) NE KL
  - niluvasei (Biju, Garg, Gururaja, Souche & Walujkar, 2014) NE WG
  - nudis (Pillai, 1978) VU KL
  - phyllophilus (Jerdon, 1853) VU WG
  - sairandhri (Biju, Garg, Gururaja, Souche & Walujkar, 2014) NE KL
  - soli (Biju, Garg, Gururaja, Souche & Walujkar, 2014) NE KL
  - saxicola (Jerdon, 1853) VU WG
  - silvaticus (Boulenger, 1882) DD KL
  - thampii (Pillai, 1981) DD KL

- **Melanobatrachus**
  - indicus (Beddome, 1878) EN WG

- **Microhyla**
  - darrei (Garg, Suypsh, Das, Jang, Wijayathilaka, Amarasinghe, Alhadi, Vineeth, Aravind, Senevirathne, Meegaskumbura & Biju, 2018 "2019") NE WG
  - ornata (Duméril & Bibron, 1841) LC
  - nilphamariensis (Howlader, Nar, Gopalan & Merilä, 2015) NE
| Species name                  | Authority                          | IUCN Red List | Endemism |
|------------------------------|------------------------------------|---------------|----------|
| 52 Microhyla rubra           | (Jerdon, 1853)                     | LC            | KL       |
| 53 Mystecillus franki        | Garg & Biju, 2019                  | NE            | KL       |
| 54 Uperodon anamalaiensis    | Rao, 1937                          | DD            | WG       |
| 55 Uperodon globulus         | Günter, 1864                       | LC            |          |
| 56 Uperodon montanus         | Jerdon, 1853                       | NT            | KL       |
| 57 Uperodon reticulatus      | Schneider, 1799                     | LC            |          |
| 58 Uperodon trigonellus      | Parker, 1934                       | LC            |          |
| 59 Uperodon variegatus       | Günter, 1876                       | VU            | KG       |
| 60 Nasikabatrachus sahyadrensis | Biju & Bossuyt, 2003         | EN            | KG       |
| 61 Nasikabatrachus sathiyadrensis | Biju & Bossuyt, 2003     | EN            | KG       |
| 62 Astrabatrachus kurichiyana | Vijayakumar, Pynor, Dinesh, Torsekar, Sreekantan, Swamy, Stanley, Blackburn & Shanker, 2019 | NE | KL |
| 63 Nyctibatrachus acanthodermis | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KL |
| 64 Nyctibatrachus aliciae    | Inger, Shaffer, Koshy & Bakde, 1984 | EN            | KG       |
| 65 Nyctibatrachus anamalaiensis | Myers, 1942                        | NE            | KG       |
| 66 Nyctibatrachus athirappillyensis | Garg, Suyesh, Sukesan & Biju, 2017 | NE | KG |
| 67 Nyctibatrachus beddomi    | Boulenger, 1882                    | EN            | KG       |
| 68 Nyctibatrachus deccanensis | Dubois, 1984                       | VU            | KG       |
| 69 Nyctibatrachus deveni     | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KG |
| 70 Nyctibatrachus gavi       | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KG |
| 71 Nyctibatrachus grandis    | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KG |
| 72 Nyctibatrachus indraneili | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KG |
| 73 Nyctibatrachus kenphoeleynsis | Rao, 1937                        | DD            | KG       |

| Species name                  | Authority                          | IUCN Red List | Endemism |
|------------------------------|------------------------------------|---------------|----------|
| 74 Nyctibatrachus major      | Boulenger, 1882                    | VU            | KG       |
| 75 Nyctibatrachus manalari   | Garg, Suyesh, Sukesan & Biju, 2017 | NE            | KG       |
| 76 Nyctibatrachus mawisinghi | Kratha, Dahanakar & Molur, 2017    | NE            | KG       |
| 77 Nyctibatrachus minimus    | Biju, Bocklaer, Gir & Roelants, Nagaraju & Bossuyt, 2007 | DD | KG |
| 78 Nyctibatrachus minor      | Inger, Shaffer, Koshy & Bakde, 1984 | EN            | KG       |
| 79 Nyctibatrachus periyar    | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KG |
| 80 Nyctibatrachus pilinai    | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KG |
| 81 Nyctibatrachus poonchara | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KG |
| 82 Nyctibatrachus pulivijayani | Garg, Suyesh, Sukesan & Biju, 2017 | NE            | KG       |
| 83 Nyctibatrachus sabarimalai | Garg, Suyesh, Sukesan & Biju, 2017 | NE            | KG       |
| 84 Nyctibatrachus vasanthi   | Ravichandran, 1997                 | EN            | KG       |
| 85 Nyctibatrachus vrijeuni   | Biju, Bocklaer, Mahony, Dinesh, Radhakrishnan, Zachariah, Gir & Bossuyt, 2011 | NE | KG |
| 86 Nyctibatrachus webilla    | Garg, Suyesh, Sukesan & Biju, 2017 | NE            | KG       |

| Species name                  | Authority                          | IUCN Red List | Endemism |
|------------------------------|------------------------------------|---------------|----------|
| 87 Clinotarsus curtipes      | (Jerdon, 1853)                     | NT            | KG       |
| 88 Hydrophylax malabaricus   | Tschudi, 1838                      | LC            | KG       |
| 89 Indosylvirana aurantia    | Boulenger, 1904                     | VU            | KL       |
| 90 Indosylvirana caeserii    | (Biju, Gang, Mahony, Wijayathilaka, Seneviratne & Meegaskumbura, 2014) | NE | KG |
| 91 Indosylvirana doni        | (Biju, Gang, Mahony, Wijayathilaka, Seneviratne & Meegaskumbura, 2014) | NE | KG |
| 92 Indosylvirana flavescens  | (Jerdon, 1853)                     | NE            | KG       |
### Database of amphibian vouchers and records available at KAU

| Species name       | Authority                                                                 | IUCN Red List | Endemism |
|--------------------|---------------------------------------------------------------------------|---------------|----------|
| 93 Indosylvirana indica | (Biju, Garg, Mahony, Wijayathilaka, Senevirathne & Meegaskumbara, 2014) | NE            | WG       |
| 94 Indosylvirana intermedius | (Rao, 1937)                                                               | NE            | WG       |
| 95 Indosylvirana magna    | (Biju, Garg, Mahony, Wijayathilaka, Senevirathne & Meegaskumbara, 2014) | NE            | WG       |
| 96 Indosylvirana sreeni    | (Biju, Garg, Mahony, Wijayathilaka, Senevirathne & Meegaskumbara, 2014) | NE            | KL       |
| 97 Indosylvirana urbis    | (Biju, Garg, Mahony, Wijayathilaka, Senevirathne & Meegaskumbara, 2014) | NE            | KL       |

### H. Ranixalidae

| Species name       | Authority                                                                 | IUCN Red List | Endemism |
|--------------------|---------------------------------------------------------------------------|---------------|----------|
| 98 Indirana beddomii | (Günther, 1876)                                                           | LC            | WG       |
| 99 Indirana brachytarsus | (Günther, 1876)                                                          | EN            | WG       |
| 100 Indirana paramakri | Garg and Biju, 2016                                                      | NE            | WG       |
| 101 Indirana sarojamma | Dahanukar, Modak, Krutha, Nameer, Padihye & Molur, 2016                   | NE            | WG       |
| 102 Indirana semipalmata | (Boulenger, 1882)                                                        | LC            | WG       |
| 103 Indirana tysoni    | Dahanukar, Modak, Krutha, Nameer, Padihye & Molur, 2016                   | NE            | WG       |
| 104 Indirana yadera    | Dahanukar, Modak, Krutha, Nameer, Padihye & Molur, 2016                   | NE            | WG       |
| 105 Walkerana diplastica | (Günther, 1876)                                                          | EN            | WG       |
| 106 Walkerana leptodactyla | (Boulenger, 1882)                                                        | EN            | WG       |
| 107 Walkerana phrynoderma | (Boulenger, 1882)                                                        | CR            | WG       |

### I. Rhacophoridae

| Species name       | Authority                                                                 | IUCN Red List | Endemism |
|--------------------|---------------------------------------------------------------------------|---------------|----------|
| 108 Beddomixalus bijui | (Zachariah, Dinesh, Radhakrishnan, Kunhikrishnan, Palot & Vishnudas, 2011) | NE            | KL       |
| 109 Ghatixalus asterops | Biju, Roelants & Bossuyt, 2008                                             | DD            | WG       |
| 110 Ghatixalus magnus    | Abraham, Mathew, Cyriac, Zachariah, Raju & Zachariah, 2015                | NE            | WG       |
| 111 Ghatixalus variabilis | (Jerdon, 1853)                                                            | EN            | WG       |
| 112 Mercurana myristacopalustris | Abraham, Pyron, Anil, Zachariah & Zachariah, 2013                      | NE            | KL       |
| 113 PolyPEDates maculatus | (Gray, 1830)                                                              | LC            |         |
| 114 PolyPEDates occidentalis | Das & Dutta, 2006                                                        | DD            | WG       |
| 115 PolyPEDates pseudocruciger | Das & Ravichandran, 1998                                                 | LC            | WG       |
| 116 Pseudophilautus kani     | (Biju & Bossuyt, 2009)                                                   | LC            | KL       |
| 117 Pseudophilautus wynaodensis | (Jerdon, 1853)                                                           | EN            |         |
| 118 Raorchestes agasthyaonis | Zachariah, Dinesh, Kunhikrishnan, Das, Radhakrishnan, Palot & Kalesh, 2011 | NE            | WG       |
| 119 Raorchestes akroparallagi | (Biju & Bossuyt, 2009)                                                   | LC            | WG       |
| 120 Raorchestes anili        | (Biju & Bossuyt, 2006)                                                   | LC            | WG       |
| 121 Raorchestes archeos      | Vijayakumar, Dinesh, Prabhu & Shanker, 2014                              | NE            | WG       |
| 122 Raorchestes aureus       | Vijayakumar, Dinesh, Prabhu & Shanker, 2014                              | NE            | WG       |
| 123 Raorchestes beddomii     | (Günther, 1876)                                                           | NT            | WG       |
| 124 Raorchestes blandus      | Vijayakumar, Dinesh, Prabhu & Shanker, 2014                              | NE            | WG       |
| 125 Raorchestes bobingeri    | (Biju & Bossuyt, 2005)                                                   | VU            | WG       |
| 126 Raorchestes bombayensis  | (Annandale, 1919)                                                        | VU            | WG       |
| 127 Raorchestes chelazoides  | (Günther, 1876)                                                           | CR            | WG       |
| 128 Raorchestes charius      | (Rao, 1937)                                                              | EN            | WG       |
| 129 Raorchestes chlorosomma  | (Biju & Bossuyt, 2009)                                                   | CR            | KG       |
| 130 Raorchestes chotta       | (Biju & Bossuyt, 2009)                                                   | DD            | KL       |
| 131 Raorchestes chromasynchys| (Biju & Bossuyt, 2009)                                                   | VU            | WG       |
| 132 Raorchestes cristal      | Zachariah, Dinesh, Kunhikrishnan, Das, Radhakrishnan, Palot & Kalesh, 2011 | NE            | WG       |
| 133 Raorchestes dubois       | (Biju & Bossuyt, 2006)                                                   | VU            | WG       |
| 134 Raorchestes flavicolaris | Vijayakumar, Dinesh, Prabhu & Shanker, 2014                              | NE            | WG       |
| 135 Raorchestes flowiventera | (Boulenger, 1882)                                                        | DD            | WG       |
| 136 Raorchestes glandularus  | (Jerdon, 1853)                                                           | VU            | WG       |
| 137 Raorchestes graminirupes | (Biju & Bossuyt, 2005)                                                   | VU            | WG       |
| 138 Raorchestes griet        | (Bossuyt, 2002)                                                          | CR            | WG       |
| Species name          | Authority                        | IUCN Red List | Endemism |
|-----------------------|----------------------------------|---------------|----------|
| Raorchestes jayarami  | (Biju & Bossuyt, 2009)           | NE            | WG       |
| Raorchestes johnnezi  | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot & Kalesh, 2011 | NE            | WG       |
| Raorchestes kadalarenensis | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot & Kalesh, 2011 | NE            | KL       |
| Raorchestes kalkatti  | (Biju & Bossuyt, 2009)           | CR            | KL       |
| Raorchestes kalkachi  | Seshadri, Gururaja & Aravind, 2012 | NE            | WG       |
| Raorchestes lechiya   | Zachariah, Cyriac, Chandramohan, Anil, Mathew, Raju & Abraham, 2016 | NE            | WG       |
| Raorchestes lescolatios | Vijaykumar, Dinesh, Prabhu & Shanker, 2014 | NE            | WG       |
| Raorchestes manohari  | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot & Kalesh, 2011 | NE            | WG       |
| Raorchestes marki     | (Biju & Bossuyt, 2009)           | CR            | WG       |
| Raorchestes munnaresensis | (Biju & Bossuyt, 2009)           | CR            | WG       |
| Raorchestes nerostagona | (Biju & Bossuyt, 2005)           | EN            | WG       |
| Raorchestes ochlandrae | Gururaja, Dinesh, Palot, Radhakrishnan & Ramachandra, 2007 | EN            | WG       |
| Raorchestes ponnudi   | (Biju & Bossuyt, 2005)           | CR            | WG       |
| Raorchestes ravi      | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot & Kalesh, 2011 | NE            | WG       |
| Raorchestes resplendens | Biju, Shoushe, Dubois, Dutta & Bossuyt, 2010 | CR            | WG       |
| Raorchestes signatus  | (Boulenger, 1882)                | EN            | WG       |
| Raorchestes silentvalley | Zachariah, Cyriac, Chandramohan, Anil, Mathew, Raju & Abraham, 2016 | NE            | WG       |
| Raorchestes sushilii  | (Biju & Bossuyt, 2009)           | CR            | WG       |
| Raorchestes thruenkaufi | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot & Kalesh, 2011 | NE            | WG       |

| Species name          | Authority                        | IUCN Red List | Endemism |
|-----------------------|----------------------------------|---------------|----------|
| Raorchestes thodai    | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot & Kalesh, 2011 | NE            | WG       |
| Raorchestes tinniens  | (Jerdon, 1853)                   | EN            | WG       |
| Raorchestes travancoricas | (Boulenger, 1891)                | EN            | WG       |
| Raorchestes tuberohumerus | (Kuramoto & Joshy, 2003)         | DD            | WG       |
| Raorchestes uthamani  | Zachariah, Dinesh, Kunhikrishnan, Das, Raju, Radhakrishnan, Palot & Kalesh, 2011 | NE            | KL       |
| Rhacophorus calodensis | Ahl, 1927                       | EN            | WG       |
| Rhacophorus lateralis | Boulenger, 1883                  | EN            | WG       |
| Rhacophorus malabaricus | Jerdon, 1870                    | LC            | WG       |
| Rhacophorus pseudomalabaricus | Vasudevan & Dutta, 2000         | CR            | WG       |

J. Ichthyophiidae

| Species name          | Authority                        | IUCN Red List | Endemism |
|-----------------------|----------------------------------|---------------|----------|
| Ichthyophis beddomei  | Peters, 1880                     | LC            | WG       |
| Ichthyophis bombayensis | Taylor, 1960                    | LC            | WG       |
| Ichthyophis kodaguensis | Wilkinson, Gower, Govindappa & Venkatachalaiah, 2007 | DD            | WG       |
| Ichthyophis longiceps | Pillai, 1986                     | DD            | KL       |
| Ichthyophis tricolor | Annandale, 1909                  | LC            | KL       |
| Uracophylus interruptus | Pillai & Ravichandran, 1999     | DD            | KL       |
| Uracophylus malabaricus | Beddome, 1870                   | DD            | KL       |
| Uracophylus menoni   | Annandale, 1913                  | DD            | KL       |
| Uracophylus narayani | Seshachar, 1939                  | DD            | KL       |
| Uracophylus ommeni   | Gower & Wilkinson, 2000          | DD            | KL       |
| Uracophylus oxyurus  | Duménil & Bibron, 1841          | DD            | KL       |

K. Indotyphlidae

| Species name          | Authority                        | IUCN Red List | Endemism |
|-----------------------|----------------------------------|---------------|----------|
| Gegeneophis carnatus  | Beddome, 1870                    | DD            | KL       |
| Gegeneophis primus    | Katharambath, Gower, Oommen & Wilkinson, 2012 | NE            | KL       |
| Gegeneophis ramsawami | Taylor, 1964                     | LC            | WG       |
| Gegeneophis tejaswini | Katharambath, Wilkinson, Oommen & Gower, 2015 | NE            | KL       |
Monograph

Database of amphibian vouchers and records available at the Kerala Agricultural University Natural History Museum in Thrissur and an updated checklist of amphibians of Kerala, India

– P.O. Nameer, M.S. Syamili, A.F. Katakath, U.S. Amal, M.S. Abhin, A. Devarajan, S. Sajitha, T. Arun & J. Jobin, Pp. 19391–19430