

A Checklist of Valid Indian Bat Species (Chiroptera: Mammalia)



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Cover Photo : Wroughton's Free-Tailed bat, *Otomops wroughtoni* (Thomas), from Barapede Cave in Belgaon Dist, Karnataka (Photograph by M. S. Pradhan)

Introduction :

Chiropterans are commonly known as bats. They are the only true flying mammals, comprising altogether globally 1116 species in 202 genera under 18 families (Wilson & Reeder, 2005). They constitute about quarter of the entire mammal species. Bats are characteristic as their forelimbs are modified into membranous wings (patagium), supported by long digits. Membrane called uropatagium (interfemoral membrane) is also present between the hind limbs. Most of the bats live in colonies. They are nocturnal, and usually hide in dark places during daytime. They chiefly consume fruits and insects.

Ellerman and Morrison-Scott (1951, 1966 (2nd edition) enlisted mammal species (Including Chiroptera) reported till 1946 from India in their exhaustive account “Checklist of Palaearctic and Indian mammals”. They compiled pre-independence work of E. Blyth; B. H. Hodgson; T. C. Jerdon; G. E. Dobson; T. Hutton; W. T. Blanford; R. C. Wroughton; G. S. Miller; K. V. Ryley; M. Davidson; J. P. Mills; M. A. C. Hinton; T. B. Fry; H. M. Lindsay; O. Thomas; W. Elliot; T. Hardwicke; T. Horsfield; J. Anderson; G. M. Allen; K. Andersen with updated information on the taxonomy and geographical distribution of Indian bats.

Substantial contribution to the field of Indian bat taxonomy and their geographical distribution has been made by various scientist of Zoological Survey of India, such as Drs. H. Khajuria; V. C. Agrawal; S. Chakraborty; S. S. Saha; P. K. Das; R. K. Ghose; T. P. Bhattacharya; D. K. Ghosal; M. K. Ghosh, J. P. Lal; Y. P. Sinha; M. S. Pradhan; S. Nath; Y. Chaturvedi; S. S. Talmale and Uttam Saikia.

Professors from Indian Universities, viz., A. Gopalkrishna, A. Madhavan, Ishwar Prakash; V. M. Sapkal, G. Marimuthu, D. A. Bhiwgade, K. Sripathi, V. S. Korad, J. Vanitharani and others also contributed work on various aspects of Bats.

Revisionary work on Indian Bat taxonomy and geographical distribution by Brosset (1962abc, 1963); Topal (1974); Corbet and Hill (1992), Kock and Bhat (1994), Bates and Harrison (1997), Sinha (1970, 1973, 1999), Pradhan and Kulkarni (1997), Pradhan (2008), Ramarkishna *et al.*(2003), Csorba *et al.* (2003), Das (2003), Ghosh (2005, 2008), Alfred *et al.* (2006), Srinivasulu and Srinivasulu (2001, 2006) are also significant. Recently Nameer (2008) revised and updated the checklist of Indian mammals at species level only. Present checklist reports valid Indian chiropteran taxa upto subspecies level based on Simmons (2005) which includes 117 species and 100 subspecies under 39 genera belonging to 8 families (Table-1).

Table-1: Global and Indian diversity of Chiroptera.

Sl. No.	Family	No. Genera		No. Speices	
		World	India	World	India
1	Pteropodidae	42	8	186	14
2	Rhinolophidae	1	1	77	17
3	Hipposideridae	9	2	81	13
4	Megadermatidae	4	1	5	2
5	Rhinopomatidae	1	1	4	3
6	Craseonycteridae#	1	0	1	0
7	Emballonuridae	13	2	51	6
8	Nycteridae#	1	0	16	0
9	Myzopodidae#	1	0	1	0
10	Mystacinidae#	1	0	2	0
11	Phyllostomidae#	55	0	160	0
12	Mormoopidae#	2	0	10	0
13	Noctilionidae#	1	0	2	0
14	Furipteridae#	2	0	2	0
15	Thyropteridae#	1	0	3	0
16	Natalidae#	3	0	8	0
17	Molossidae	16	3	100	4
18	Vespertilionidae	48	21	407	58
	Total	202	39	1116	117

Note : Families with ‘#’ are not represented in India.

World Chiroptera data after Wilson and Reeder, 2005

List of Families:

1. Pteropodidae
2. Rhinolophidae
3. Hipposideridae
4. Megadermatidae
5. Rhinopomatidae
6. Emballonuridae
7. Molossidae
8. Vespertilionidae

List of Genera:

- | | |
|-------------------------|---------------------------|
| 1. <i>Cynopterus</i> | 21. <i>Hesperoptenus</i> |
| 2. <i>Eonycteris</i> | 22. <i>Scotoecus</i> |
| 3. <i>Latidens</i> | 23. <i>Scotomanes</i> |
| 4. <i>Macroglossus</i> | 24. <i>Scotophilus</i> |
| 5. <i>Megaerops</i> | 25. <i>Nyctalus</i> |
| 6. <i>Pteropus</i> | 26. <i>Pipistrellus</i> |
| 7. <i>Rousettus</i> | 27. <i>Scotozous</i> |
| 8. <i>Sphaerias</i> | 28. <i>Barbastella</i> |
| 9. <i>Rhinolophus</i> | 29. <i>Otonycteris</i> |
| 10. <i>Coelops</i> | 30. <i>Plecotus</i> |
| 11. <i>Hipposideros</i> | 31. <i>Falsistrellus</i> |
| 12. <i>Megaderma</i> | 32. <i>Hypsugo</i> |
| 13. <i>Rhinopoma</i> | 33. <i>Ia</i> |
| 14. <i>Saccolaimus</i> | 34. <i>Tylonycteris</i> |
| 15. <i>Taphozous</i> | 35. <i>Myotis</i> |
| 16. <i>Chaerephon</i> | 36. <i>Miniopterus</i> |
| 17. <i>Otomops</i> | 37. <i>Harpiocephalus</i> |
| 18. <i>Tadarida</i> | 38. <i>Murina</i> |
| 19. <i>Arielulus</i> | 39. <i>Kerivoula</i> |
| 20. <i>Eptesicus</i> | |

Species Checklist

Note : Kindly see the Notes for the species marked with ‘*’ at the end of the checklist.

Order Chiroptera Blumenbach, 1779

Family Pteropodidae Gray, 1821

1. Genus :*Cynopterus* F. Cuvier, 1824

1. *Cynopterus brachyotis* (Müller, 1838). Lesser Short-nosed Fruit Bat
 - *1a. *Cynopterus brachyotis brachysoma* Dobson, 1871
 - 1b. *Cynopterus brachyotis ceylonensis* Gray, 1871
2. *Cynopterus sphinx* (Vahl, 1797). Greater Short-nosed Fruit Bat
 - 2a. *Cynopterus sphinx sphinx* (Vahl, 1797)
 - *2b. *Cynopterus sphinx scherzeri* Zelebor, 1869

2. Genus : *Eonycteris* Dobson, 1873

3. *Eonycteris spelaea* (Dobson, 1871). Lesser Dawn Bat
 - 3a. *Eonycteris spelaea spelaea* (Dobson, 1871)

3. Genus : *Latidens* Thonglongya, 1972

4. *Latidens salimalii* Thonglongya, 1972. Salim Ali's Fruit Bat

4. Genus : *Macroglossus* F. Cuvier, 1824

5. *Macroglossus sobrinus* K. Andersen, 1911. Greater Long-nosed Fruit Bat
 - 5a. *Macroglossus sobrinus sobrinus* K. Andersen, 1911

5. Genus : *Megaerops* Peters, 1865

- *6. *Megaerops niphanae* Yenbutra and Felten, 1983. Ratanaworabhan's Fruit Bat

6. Genus : *Pteropus* Brisson, 1762

7. *Pteropus faunulus* Miller, 1902. Nicobar Flying Fox
- *8. *Pteropus giganteus* (Brünnich, 1782). Indian Flying Fox
 - 8a. *Pteropus giganteus giganteus* (Brünnich, 1782).
9. *Pteropus hypomelanus* Temminck, 1853. Variable Flying Fox
 - 9a. *Pteropus hypomelanus satyrus* K. Andersen, 1908
10. *Pteropus melanotus* Blyth, 1863. Black-eared Flying Fox
 - 10a. *Pteropus melanotus melanotus* Blyth, 1863.
 - 10b. *Pteropus melanotus tyleri* Dobson, 1874.
- *11. *Pteropus vampyrus* Linnaeus, 1758 Large Flying Fox

7. Genus : *Rousettus* Gray, 1821

- *12. *Rousettus aegyptiacus* (E. Geoffroy, 1810). Egyptian Rousette
 - 12a. *Rousettus aegyptiacus arabicus* Anderson and de Winton, 1902
13. *Rousettus leschenaultii* (Desmarest, 1820). Leschenault's Rousette
 - 13a. *Rousettus leschenaultii leschenaultii* (Desmarest, 1820)

8. Genus :*Sphaerias* Miller, 1906

- 14. *Sphaerias blanfordi* (Thomas, 1891). Blanford's Fruit Bat
- 14a. *Sphaerias blanfordi blanfordi* (Thomas, 1891)

Family Rhinolophidae Gray, 1825

9. Genus :*Rhinolophus* Lacépède, 1799

- 15. *Rhinolophus affinis* Horsfield, 1823. Intermediate Horseshoe Bat
 - 15a. *Rhinolophus affinis andamanensis* Dobson
 - 15b. *Rhinolophus affinis himalayanus* K. Andersen, 1905
- 16. *Rhinolophus beddomei* K. Andersen, 1905. Bedomme's Horseshoe Bat
 - 16a. *Rhinolophus beddomei beddomei* K. Andersen, 1905
- 17. *Rhinolophus cognatus* K. Andersen, 1906. Andaman Horseshoe Bat
 - 17a. *Rhinolophus cognatus cognatus* K. Andersen, 1906
 - 17b. *Rhinolophus cognatus famulus* K. Andersen, 1918
- *18. *Rhinolophus ferrumequinum* (Schreber, 1774). Greater Horseshoe Bat
 - 18a. *Rhinolophus ferrumequinum proximus* K. Andersen, 1905
 - 18b. *Rhinolophus ferrumequinum tragatus* Hodgson, 1835
- 19. *Rhinolophus hipposideros* (Bechstein, 1800). Lesser Horseshoe Bat
 - 19a. *Rhinolophus hipposideros midas* K. Andersen, 1905
- 20. *Rhinolophus lepidus* Blyth, 1844. Blyth's Horseshoe Bat
 - 20a. *Rhinolophus lepidus monticola* K. Andersen, 1905
- 21. *Rhinolophus luctus* Temminck, 1834. Woolly Horseshoe Bat
 - 21a. *Rhinolophus luctus perniger* Hodgson, 1843
- 22. *Rhinolophus macrotis* Blyth, 1844. Big-eared Horseshoe Bat
 - 22a. *Rhinolophus macrotis macrotis* Blyth, 1844
- 23. *Rhinolophus mitratus* Blyth, 1844. Mitred Horseshoe Bat
- 24. *Rhinolophus pearsonii* Horsfield, 1851. Pearson's Horseshoe Bat
 - 24a. *Rhinolophus pearsonii pearsonii* Horsfield, 1851
- 25. *Rhinolophus pusillus* Temminck, 1834. Least Horseshoe Bat
 - 25a. *Rhinolophus pusillus blythi* K. Andersen, 1918
 - 25b. *Rhinolophus pusillus gracilis* K. Andersen, 1905
- 26. *Rhinolophus rouxii* Temminck, 1835. Rufous Horseshoe Bat
 - 26a. *Rhinolophus rouxii rouxii* Temminck, 1835
- 27. *Rhinolophus shortridgei* K. Andersen, 1918. Shortridge's Horseshoe Bat
- 28. *Rhinolophus sinicus* K. Andersen, 1905. Chinese Rufous Horseshoe Bat
- 29. *Rhinolophus subbadius* Blyth, 1844. Little Nepalese Horseshoe Bat
- 30. *Rhinolophus trifoliatus* Temminck, 1834. Trefoil Horseshoe Bat
 - 30a. *Rhinolophus trifoliatus trifoliatus* Temminck, 1834
- 31. *Rhinolophus yunanensis* Dobson, 1872. Dobson's Horseshoe Bat

Family Hipposideridae Lydekker, 1891

10. Genus :*Coelops* Blyth, 1848

32. *Coelops frithii* Blyth, 1848. East Asian Tailless Leaf-nosed Bat

11. Genus :*Hipposideros* Gray, 1831

33. *Hipposideros armiger* (Hodgson, 1835). Great Leaf-nosed Bat

33a. *Hipposideros armiger armiger* (Hodgson, 1835).

34. *Hipposideros ater* Templeton, 1848. Dusky Leaf-nosed Bat

34a. *Hipposideros ater ater* Templeton, 1848

34b. *Hipposideros ater nicobarulae* Miller, 1902

34c. *Hipposideros ater nallamalaensis* Srinivasulu and Srinivasulu

35. *Hipposideros cineraceus* Blyth, 1853. Ashy Leaf-nosed Bat

35a. *Hipposideros cineraceus cineraceus* Blyth, 1853

- *36. *Hipposideros diadema* (E. Geoffroy, 1813). Diadem Leaf-nosed Bat

36a. *Hipposideros diadema nicobarensis* Dobson, 1871

37. *Hipposideros durgadasi* Khajuria, 1970. Durga Das's Leaf-nosed Bat

38. *Hipposideros fulvus* Gray, 1838. Fulvus Leaf-nosed Bat

38a. *Hipposideros fulvus fulvus* Gray, 1838

38b. *Hipposideros fulvus pallidus* K. Andersen, 1918

39. *Hipposideros galeritus* Cantor, 1846. Cantor's Leaf-nosed Bat

39a. *Hipposideros galeritus brachyotis* Dobson, 1874

40. *Hipposideros hypophyllus* Kock and Bhat, 1994. Leafletted Leaf-nosed Bat

- *41. *Hipposideros lankadiva* Kelaart, 1850. Indian Leaf-nosed Bat

42. *Hipposideros larvatus* (Horsfield, 1823). Intermediate Leaf-nosed Bat

42a. *Hipposideros larvatus leptophyllus* Dobson, 1874

43. *Hipposideros pomona* K. Andersen, 1918. Pomona Leaf-nosed Bat

43a. *Hipposideros pomona pomona* K. Andersen, 1918

43b. *Hipposideros pomona gentilis* K. Andersen, 1918

- *44. *Hipposideros speoris* (Schneider, 1800). Schneider's Leaf-nosed Bat

44a. *Hipposideros speoris speoris* (Schneider, 1800)

Family Megadermatidae H. Allen, 1864

12. Genus :*Megaderma* E. Geoffroy, 1810

45. *Megaderma lyra* E. Geoffroy, 1810. Greater False Vampire Bat

45a. *Megaderma lyra lyra* E. Geoffroy, 1810

46. *Megaderma spasma* (Linnaeus, 1758). Lesser False Vampire Bat

46a. *Megaderma spasma horsfieldii* Blyth, 1863

Family Rhinopomatidae Bonaparte, 1838

13. Genus :*Rhinopoma* E. Geoffroy, 1818

- 47. *Rhinopoma hardwickii* Gray, 1831. Lesser Mouse-tailed Bat
 - 47a. *Rhinopoma hardwickii hardwickii* Gray, 1831
- 48. *Rhinopoma microphyllum* (Brünnich, 1782). Greater Mouse-tailed Bat
 - 48a. *Rhinopoma microphyllum kinneari* Wroughton, 1912
- 49. *Rhinopoma muscatellum* Thomas, 1903. Small Mouse-tailed Bat

Family Emballonuridae Gervais, 1855

Subfamily Taphozoinae Jerdon, 1867

14. Genus :*Saccolaimus* Temminck, 1838

- 50. *Saccolaimus saccolaimus* (Temminck, 1838). Naked-rumped Pouched Bat
 - 50a. *Saccolaimus saccolaimus crassus* Blyth, 1844

15. Genus :*Taphozous* E. Geoffroy, 1818

- 51. *Taphozous longimanus* Hardwicke, 1825. Long-winged Tomb Bat
 - 51a. *Taphozous longimanus longimanus* Hardwicke, 1825
- 52. *Taphozous melanopogon* Temminck, 1841. Black-bearded Tomb Bat
 - 52a. *Taphozous melanopogon melanopogon* Temminck, 1841
- 53. *Taphozous nudiventris* Cretzschmar, 1830. Naked-rumped Tomb Bat
 - 53a. *Taphozous nudiventris kachhensis* Dobson, 1872
- 54. *Taphozous perforatus* E. Geoffroy, 1818. Egyptian Tomb Bat
 - 54a. *Taphozous perforatus perforatus* E. Geoffroy, 1818
- 55. *Taphozous theobaldi* Dobson, 1872. Theobald's Tomb Bat
 - 55a. *Taphozous theobaldi secatus* Thomas, 1915

Family Molossidae Gervais, 1856

Subfamily Molossinae Gervais, 1856.

16. Genus :*Chaerephon* Dobson, 1874

- 56. *Chaerephon plicatus* (Buchanan, 1800). Wrinkle-lipped Free-tailed Bat
 - 56a. *Chaerephon plicatus plicatus* (Buchanan, 1800)

17. Genus :*Otomops* Thomas, 1913

- 57. *Otomops wroughtoni* (Thomas, 1913). Wroughton's Giant Mastiff Bat

18. Genus :*Tadarida* Rafinesque, 1814

- *58. *Tadarida aegyptiaca* (E. Geoffroy, 1818). Egyptian Free-tailed Bat
 - 58a. *Tadarida aegyptiaca thomasi* Wroughton, 1919
- *59. *Tadarida teniotis* (Rafinesque, 1814). European Free-tailed Bat
 - 59a. *Tadarida teniotis teniotis* (Rafinesque, 1814)

Family Vespertilionidae Gray, 1821

Subfamily Vespertilioninae Gray, 1821

Tribe Eptesicini Volleth and Heller, 1994

19. Genus :*Arielulus* Hill and Harrison, 1987

60. *Arielulus circumdatus* (Temminck, 1840) Bronze Sprite

20. Genus :*Eptesicus* Rafinesque, 1820

61. *Eptesicus gobiensis* Bobrinskii, 1926 Gobi Big Brown Bat

61a. *Eptesicus gobiensis kashgaricus* Bobrinskii, 1926

62. *Eptesicus pachyotis* (Dobson, 1871) Thick-eared Bat

63. *Eptesicus serotinus* (Schreber, 1774) Common Serotine

63a. *Eptesicus serotinus pachyomus* Tomes, 1857

64. *Eptesicus tatei* Ellerman and Morrison-Scott, 1951 Sombre Bat

21. Genus :*Hesperoptenus* Peters, 1868

65. *Hesperoptenus tickelli* (Blyth, 1851) Tickell's Bat

65a. *Hesperoptenus tickelli tickelli* (Blyth, 1851)

Tribe Nycticeiini Gervais, 1855

22. Genus :*Scotoecus* Thomas, 1901

66. *Scotoecus pallidus* (Dobson, 1876) Desert Yellow Lesser House Bat

23. Genus :*Scotomanes* Dobson, 1875

*67. *Scotomanes ornatus* (Blyth, 1851) Harlequin Bat.

67a. *Scotomanes ornatus ornatus* (Blyth, 1851)

67b. *Scotomanes ornatus sinensis* Thomas, 1921

24. Genus :*Scotophilus* Leach, 1821

68. *Scotophilus heathii* (Horsfield, 1831). Greater Asiatic Yellow House Bat

68a. *Scotophilus heathii heathii* (Horsfield, 1831)

69. *Scotophilus kuhlii* Leach, 1821. Lesser Asiatic Yellow House Bat

69a. *Scotophilus kuhlii kuhlii* Leach, 1821

Tribe Pipistrellini Tate, 1942

25. Genus :*Nyctalus* Bowditch, 1825

70. *Nyctalus leisleri* (Kuhl, 1817). Leisler's Noctule

70a. *Nyctalus leisleri leisleri* (Kuhl, 1817)

71. *Nyctalus montanus* (Barrett-Hamilton, 1906). Mountain Noctule

72. *Nyctalus noctula* (Schreber, 1774). Noctule

72a. *Nyctalus noctula labiata* Hodgson, 1835

26. Genus :*Pipistrellus* Kaup, 1829

- 73. *Pipistrellus abramus* (Temminck, 1838). Japanese Pipistrelle
- 74. *Pipistrellus ceylonicus* (Kelaart, 1852). Kelaart's Pipistrelle
 - 74a. *Pipistrellus ceylonicus indicus* Dobson, 1878
- 75. *Pipistrellus coromandra* (Gray, 1838). Indian Pipistrelle
 - 75a. *Pipistrellus coromandra coromandra* (Gray, 1838)
- *76. *Pipistrellus javanicus* (Gray, 1838). Javan Pipistrelle
 - 76a. *Pipistrellus javanicus babu* Thomas, 1915
 - 76b. *Pipistrellus javanicus camortae* Miller, 1902
 - 76c. *Pipistrellus javanicus peguensis* Sinha, 1969
- 77. *Pipistrellus kuhlii* (Kuhl, 1817). Kuhl's Pipistrelle
 - 77a. *Pipistrellus kuhlii lepidus* Blyth, 1845
- 78. *Pipistrellus paterculus* Thomas, 1915. Mount Popa Pipistrelle
 - 78a. *Pipistrellus paterculus paterculus* Thomas, 1915
- 79. *Pipistrellus pipistrellus* (Schreber, 1774). Common Pipistrelle
 - 79a. *Pipistrellus pipistrellus aladdin* Thomas, 1905
- *80. *Pipistrellus tenuis* (Temminck, 1840). Least Pipistrelle
 - 80a. *Pipistrellus tenuis mimus* Wroughton, 1899

27. Genus :*Scotozous* Dobson, 1875

- 81. *Scotozous dormeri* Dobson, 1875. Dormer's Pipistrelle

Tribe Plecotini Gray, 1866

28. Genus :*Barbastella* Gray, 1821

- 82. *Barbastella leucomelas* (Cretzschmar, 1826). Eastern Barbastelle
 - 82a. *Barbastella leucomelas darjelingensis* Hodgson, 1855 [in Horsfield, 1855]

29. Genus :*Otonycteris* Peters, 1859

- 83. *Otonycteris hemprichii* Peters, 1859. Hemprich's Desert Bat

30. Genus :*Plecotus* E. Geoffroy Saint-Hilaire, 1818

- 84. *Plecotus auritus* (Linnaeus, 1758). Brown Long-eared Bat
 - 84a. *Plecotus auritus homochrous* Hodgson, 1847
- *85. *Plecotus austriacus* (J. Fischer, 1829). Gray Long-eared Bat
 - 85a. *Plecotus austriacus wardi* Thomas, 1911

Tribe Vespertilionini Gray, 1821.

31. Genus :*Falsistrellus* Troughton, 1943

- 86. *Falsistrellus affinis* (Dobson, 1871). Chocolate Pipistrelle

32. Genus :*Hypsugo* Kolenati, 1856

- 87. *Hypsugo cadornae* (Thomas, 1916). Cadorna's Pipistrelle
- 88. *Hypsugo savii* (Bonaparte, 1837). Savi's Pipistrelle

88a. *Hypsugo savii austenianus* Dobson, 1871

33. Genus : *Ia* Thomas, 1902

89. *Ia io* Thomas, 1902. Great Evening Bat

34. Genus : *Tylonycteris* Peters, 1872

90. *Tylonycteris pachypus* (Temminck, 1840). Lesser Bamboo Bat

90a. *Tylonycteris pachypus aurex* Thomas, 1915

90b. *Tylonycteris pachypus fulvidus* Blyth, 1859

91. *Tylonycteris robustula* Thomas, 1915. Greater Bamboo Bat

91a. *Tylonycteris robustula robustula* Thomas, 1915

Subfamily Myotinae Tate, 1942

35. Genus : *Myotis* Kaup, 1829

92. *Myotis annectans* (Dobson, 1871). Hairy-faced Myotis

92a. *Myotis annectans annectans* (Dobson, 1871)

93. *Myotis blythii* (Tomes, 1857). Lesser Mouse-eared Myotis

93a. *Myotis blythii blythii* (Tomes, 1857)

94. *Myotis formosus* (Hodgson, 1835). Hodgson's Myotis

94a. *Myotis formosus formosus* (Hodgson, 1835)

95. *Myotis hasseltii* (Temminck, 1840). Lesser Large-footed Myotis

95a. *Myotis hasseltii hasseltii* (Temminck, 1840)

96. *Myotis horsfieldii* (Temminck, 1840). Horsfield's Myotis

96a. *Myotis horsfieldii dryas* K. Andersen, 1907

96b. *Myotis horsfieldii peshwa* Thomas, 1915

97. *Myotis laniger* Peters, 1871. Chinese Water Myotis

98. *Myotis longipes* (Dobson, 1873). Kashmir Cave Myotis

98a. *Myotis longipes longipes* (Dobson, 1873)

99. *Myotis montivagus* (Dobson, 1874). Burmese Whiskered Myotis

99a. *Myotis montivagus peytoni* Wroughton and Ryley, 1913.

100. *Myotis muricola* (Gray, 1846). Nepalese Whiskered Myotis

100a. *Myotis muricola muricola* (Gray, 1846)

100b. *Myotis muricola caliginosus* Tomes, 1859

*101. *Myotis mystacinus* (Kuhl, 1817) Whiskered Myotis

101a. *Myotis mystacinus nipalensis* (Dobson, 1871)

102. *Myotis sicarius* Thomas, 1915. Mandelli's Mouse-eared Myotis

103. *Myotis siligorensis* (Horsfield, 1855). Himalayan Whiskered Myotis

103a. *Myotis siligorensis siligorensis* (Horsfield, 1855)

Subfamily Miniopterinae Dobson, 1875

36. Genus :*Miniopterus* Bonaparte, 1837

- 104. *Miniopterus magnater* Sanborn, 1931. Western Long-fingered Bat
- 105. *Miniopterus pusillus* Dobson, 1876. Small Long-fingered Bat
- 106. *Miniopterus schreibersii* (Kuhl, 1817). Schreibers's Long-fingered Bat
- 106a. *Miniopterus schreibersii fuliginosus* Hodgson, 1835

Subfamily Murininae Miller, 1907

37. Genus :*Harpiocephalus* Gray, 1842

- 107. *Harpiocephalus harpia* (Temminck, 1840). Lesser Hairy-winged Bat
- 107a. *Harpiocephalus harpia lasyurus* Hodgson, 1847
- 107b. *Harpiocephalus harpia madrassius* Thomas, 1923
- 108. *Harpiocephalus mordax* Thomas, 1923. Greater Hairy-winged Bat

38. Genus :*Murina* Gray, 1842

- 109. *Murina aurata* Milne-Edwards, 1872. Little Tube-nosed Bat
- 109a. *Murina aurata aurata* Milne-Edwards, 1872
- 110. *Murina cyclotis* Dobson, 1872. Round-eared Tube-nosed Bat
- 110a. *Murina cyclotis cyclotis* Dobson, 1872
- 111. *Murina grisea* Peters, 1872. Peters's Tube-nosed Bat
- 112. *Murina huttoni* (Peters, 1872). Hutton's Tube-nosed Bat
- 112a. *Murina huttoni huttoni* (Peters, 1872)
- 113. *Murina leucogaster* Milne-Edwards, 1872. Greater Tube-nosed Bat
- 113a. *Murina leucogaster rubex* Thomas, 1916
- 114. *Murina tubinaris* (Scully, 1881). Scully's Tube-nosed Bat

Subfamily Kerivoulinae Miller, 1907

39. Genus :*Kerivoula* Gray, 1842

- *115. *Kerivoula hardwickii* (Horsfield, 1824). Hardwicke's Woolly Bat
- 116. *Kerivoula lenis* Thomas, 1916. Lenis Woolly Bat
- 117. *Kerivoula picta* (Pallas, 1767). Painted Woolly Bat
- 117a. *Kerivoula picta picta* (Pallas, 1767)

Notes and Comments:

1. *Cynopterus brachyotis brachysoma* Dobson, 1871: Simmons (2005) recognized as a subspecies from Andaman Island.
2. *Cynopterus sphinx scherzeri* Zelebor, 1869 : Simmons (2005) recognized as a subspecies from Nicobar Island.
3. *Megaerops niphanae* Yenbutra and Felten, 1983: Earlier records of *Megaerops ecaudatus* Temminck from North East India, Thailand and Vietnam have been referred to *Megaerops niphanae* (Corbet and Hill, 1992). Same view followed by De *et al* (2006).
4. *Pteropus giganteus* (Brünnich, 1782) : The Himalayan population (Nepal, Sikkim, Assam, Manipur and possibly Myanmar) of this species differs in longer and softer fur and recognised as *Pteropus giganteus leucocephalus* Hodgson. The status and geographical limits of this taxon are still uncertain (Bates and Harrison, 1997).
5. *Pteropus vampyrus* Linnaeus, 1758 : Simmons (2005) has not shown its distribution in India (Andaman and Nicobar Islands). However, Corbet and Hill (1992) and Bates and Harrison (1997) have reported vagrant or seasonal migrant populations from these islands. Hence this species has tentatively been placed in the present list.
6. *Rousettus aegyptiacus arabicus* Anderson and de Winton, 1902 : Prakash, (1963) suggested occurrence of this subspecies in Rajasthan due to suitable habitat in the Indian desert. Sinha (1980) did not mention the species from Rajasthan. No collection record from India (Bates and Harrison, 1997). Das (1986) also suggested the exclusion of this species from Indian list eventhough Corbet and Hill (1992) suggested distribution possibly in adjoining parts of NW India. Simmons (2005) follows the same view. Hence present list tentatively includes *Rousettus aegyptiacus arabicus*.
7. *Rhinolophus ferrumequinum regulus* Andersen, 1905 : Sinha (1973), Bates and Harrison (1997) and Csorba *et al* (2003) synonymised this subspecies under species *Rhinolophus ferrumequinum* and recognized only subspecies *tragatus* and *proximus* from Himachal Pradesh to NE India and Kashmir respectively.
8. *Hipposideros diadema nicobarensis* (Dobson, 1871) : Ghosh (2008) listed this taxon as a separate species. However following the view of Bates and Harrison (1997) and Alfred *et al* (2002), Simmons (2005) treated it as a subspecies of *Hipposideros diadema*.
9. *Hipposideros lankadiva* Kelaart, 1850 : Following the view of Brosset (1962b), Sinha (1999), Bates and Harrison (1997), Srinivasulu and Srinivasulu (2001) and Das (2003) synonymised all the taxa viz. *indus*, *mixtus*, *unitus* (earlier recognized as a subspecies) and *schistaceus* (earlier recognized as a separate species) under *Hipposideros lankadiva* by Simmons (2005).
10. *Hipposideros speoris* (Schneider, 1800): Corbet and Hill (1992) recognized two very weakly defined subspecies viz. *Hipposideros speoris speoris* and *Hipposideros speoris pulchellus* on the basis of minor variations in average size. Sinha (1975), Bates and Harrison (1997) and Simmons (2005) synonymised *pulchellus* under nominate subspecies *Hipposideros speoris speoris*. Same view has been followed here.

11. ***Tadarida aegyptiaca* (E. Geoffroy, 1818)** : Ellerman & Morrison-Scot (1951) have treated *Tadarida tragata* Dobson as a species distinct from *Tadarida aegyptiaca* (E. Geoffroy). Chaturvedi (1964) has shown that *tragata* is conspecific with *aegyptiaca*. Ellerman & Morrison-Scot (1951) have also recognized two subspecies of *Tadarida aegyptiaca* in India, viz. *T. aegyptiaca thomasi* and *T. a. gossei*. However, Sinha (1970) has synonymised *gossei* with *thomasi*. Bates and Harrison (1997) followed the same view of Chaturvedi (1964) and Sinha (1970). According to Das (2003) *tragata* has priority over *gossei* and *thomasi*, so the Indian population should be named as *Tadarida aegyptiaca tragata* (Dobson). But Simmons (2005) listed both *tragatus* and *thomasi* as distinct subspecies.
12. ***Tadarida teniotis* (Rafinesque, 1814)** : Agrawal *et al* (1992) and Das (2003) recognized Indian population as *Tadarida teniotis insignis* (Blyth). Simmons (2005) promoted this taxon to a specific rank and referred all Indian population (West Bengal) as *Tadarida teniotis teniotis* only.
13. ***Scotomanes ornatus* (Blyth, 1851)**: Ellerman & Morrison-Scot (1951) have recognized two subspecies in the non-Chinese range of *Scotomanes ornatus*, viz. *S. o. imbreensis* Thomas, 1921 (Jaintia Hills) and nominate subspecies *S. o. ornatus* (Blyth, 1851) for other areas, including Khasi Hills. Das *et al.* (1995) synonymised *S. o. imbreensis* with *S. o. ornatus*. Sinha (1999) agreed with Das *et al* (1995) and recognized two subspecies from North-East India i) *S. o. sinensis* Thomas, 1921 from the eastern part of range with specimens slightly smaller and darker in coloration and ii) *S. o. ornatus* having bigger specimens from more westernly locations. However, Simmons (2005) has recognized both the subspecies: *imbreensis* and *sinensis*.
14. ***Pipistrellus javanicus babu* Thomas, 1915** : Corbet and Hill (1992) considered *Pipistrellus babu* Sinha, 1969 conspecific with *P. javanicus* and also synonymised *Pipistrellus peguensis* under *javanicus*. As per Bates and Harrison (1997) the mainland of the Indian subcontinent population are referred to as *P. javanicus babu* and those from the Nicobar Island to *P. javanicus camortae* and synonymised *peguensis* under *javanicus*. Simmons (2005) recognized three subspecies *Pipistrellus javanicus babu*, *P. javanicus camortae* and *Pipistrellus javanicus peguensis*. The same view has been followed here.
15. ***Pipistrellus tenuis mimus* Wroughton, 1899** : Bates and Harrison (1997) synonymised *Pipistrellus mimus glaucillus* Wroughton under *P. tenuis* and recognized all the populations from Indian subcontinent as *P. tenuis mimus*.
16. ***Plecotus austriacus wardi* Thomas, 1911**: Distribution of the species *Plecotus austriacus* (J. Fischer, 1829) in India has not been shown by Simmons (2005). However she recognizes *wardi* as a valid subspecies with Type locality : Leh, Ladak, Kashmir, north-west India. Following this information the species has retained in the Indian list.
17. ***Myotis mystacinus nipalensis* Dobson, 1871** : Though Simmons (2005) has not included *nipalensis* within Indian limits, it has been listed in the current list following Bates and Harrison (1997), Alfred *et al* (2002), Ghosh (2008).

18. *Kerivoula hardwickii* (Horsfield, 1824): Ellerman & Morrison-Scott (1951) recognized three subspecies viz. *K. h. hardwickei* (Horsfield), *K. h. depressa* Miller and *K. h. crypta* Wroughton & Ryley from India. Bates and Harrison (1997) and Das (2003) referred Indian population to *Kerivoula hardwickii depressa* Miller (with *crypta* as synonym). Corbet and Hill (1992) and Sinha (1999) found no significant differences in above all three taxa and synonymised *depressa* and *crypta* with the nominate species *K. hardwickii*. Simmons (2005) also followed the same view.

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