

Checklist of ticks (Acari: Ixodida) from China

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Abstract

In earlier publications, many people temporarily adopted the genus-level classification of Argasidae proposed by Hoogstraal (1985). However, with advancements in systematic taxonomy, particularly concerning soft ticks as discussed by Mans et al. in 2021 and 2024, we agree that many of these research findings are indeed persuasive. Nonetheless, some viewpoints require additional scrutiny, and we find ourselves at odds with certain interpretations. Below, we present adjustments pertaining to the species of soft ticks found in China: the subgenera *Alectorobius*, *Alveonasus* (some species) and *Carios* were raised to generic rank. Additionally, based on the ICZN principle of priority, we emend the authority for Ixodidae, Ixodinae, and Ixodoidea to Leach (1815), rectifying over two centuries of misattribution. It is more convincing to move *Ornithodoros lahorensis* to *Alveonasus lahorensis*. In order to commemorate the 60th anniversary of the Special Committee of Acarology of the Entomological Society of China, we have updated the tick list of China, drawing on the scientific publications and specimen collections from various regions. As of June 30, 2025, the ticks include 11 genera and 133 species in China. These are categorized into the following families: Argasidae (15 species), which includes *Argas* (7 species), *Alveonasus* (1 species), *Alectorobius* (1 species), *Carios* (3 species) and *Ornithodoros* (3 species); Ixodidae (118 species), encompassing *Amblyomma* (9 species), *Anomalohimalaya* (3 species), *Dermacentor* (16 species), *Haemaphysalis* (46 species), *Hyalomma* (6 species), *Ixodes* (30 species), and *Rhipicephalus* (8 species). Furthermore, we have compiled comprehensive details for each species, including Chinese name, relevant literature citations, host associations, and provincial distribution data.

Full Text

Preamble

Checklist of ticks (Acari: Ixodida) from China Ze Chen, Jingze Liu Hebei Key Laboratory of Animal Physiology, Biochemistry and Molecular Biology, Hebei

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Abstract

In earlier publications, many researchers temporarily adopted the genus-level classification of Argasidae proposed by Hoogstraal (1985). However, with advancements in systematic taxonomy, particularly concerning soft ticks as discussed by Mans et al. (2021, 2024), we agree that many of these research findings are persuasive.

Nonetheless, some viewpoints require additional scrutiny, and we find ourselves at odds with certain interpretations. Below, we present adjustments pertaining to the species of soft ticks found in China: the subgenera *Alectorobius*, *Alveonasus* (some species), and *Carios* were raised to generic rank. Additionally, based on the ICZN principle of priority, we emend the authority for Ixodidae, Ixodinae, and Ixodoidea to Leach (1815), rectifying over two centuries of misattribution. We argue that the reassignment of *Ornithodoros lahorensis* to *Alveonasus lahorensis* is more taxonomically sound. To commemorate the 60th anniversary of the Special Committee of Acarology of the Entomological Society of China, we have updated the tick list of China, drawing on scientific publications and specimen collections from various regions. As of June 30, 2025, the ticks of China include 11 genera and 133 species. These are categorized into the following families:

Argasidae (15 species), which includes *Argas* (7 species), *Alveonasus* (1 species), *Alectorobius* (1 species), *Carios* (3 species), and *Ornithodoros* (3 species); Ixodidae (118 species), encompassing *Amblyomma* (9 species), *Anomalohimalaya* (3 species), *Dermacentor* (16 species), *Haemaphysalis* (46 species), *Hyalomma* (6 species), *Ixodes* (30 species), and *Rhipicephalus* (8 species). Furthermore, we have compiled comprehensive details for each species, including Chinese names, relevant literature citations, host associations, and provincial distribution data.

Key words: Ixodida, checklist, China

Introduction

Ticks are obligate blood-feeding ectoparasites of a broad range of terrestrial vertebrates, including birds, mammals, reptiles, amphibians, and humans. Currently, five families of ticks are reported globally: Ixodidae, Argasidae, Nuttalliellidae, Deinocrotonidae, and Khimairidae [?, ?, ?]. Although more than 4,000 tick species have been named or described, fewer than 1,000 are considered valid, and the taxonomic status of many remains a subject of debate [?, ?, ?]. In the complex global ecosystem of disease transmission, ticks play a critical role [?, ?]. They serve as vectors for numerous zoonotic diseases, including severe fever with thrombocytopenia syndrome, spotted fever, Q fever, and babesiosis,

posing severe threats to human health and the livestock industry [?, ?].

In this update, we have revised the tick list of China based on recent taxonomic advancements. As of June 30, 2025, the fauna includes 11 genera and 133 named species. We have updated host animal names following the Integrated Taxonomic Information System (ITIS) and provided distribution data for each species.

Family ARGASIDAE (Koch, 1844) Murray, 1877

Subfamily Argasinae (Koch, 1844) Trouessart, 1892

1. *Alveonasus lahorensis* (Neumann, 1908) *Ornithodoros lahorensis* Neumann, 1908: 462-267. *Ornithodoros lahorensis* (Neumann, 1908); Nuttall et al., 1908: 67-69. *Alveonasus lahorensis* (Neumann, 1908); Schulze, 1941: 491; Camicas et al., 1998: 50. *Alectorobius lahorensis* (Neumann, 1908); Zolotarev, 1949: 80, 86. *Argas (Alveonasus) lahorensis* (Neumann, 1908); Klompen and Oliver, 1993: 313-331; Klompen et al., 1996: 141-161. Hosts: *Canis* spp.; *Capra* spp.; *Camelus* spp.; *Equus* spp. Distribution: Xinjiang, Inner Mongolia, Shandong, Gansu, Liaoning, Xizang [?, ?, ?, ?, ?, ?, ?].

2. *Argas assimilis* Teng & Song, 1983 *Argas assimilis* Teng & Song, 1983: 153-156. Type depositories: Institute of Zoology, Chinese Academy of Sciences (IZAS). Hosts: *Cecropis daurica japonica* (syn. *Hirundo daurica japonica*); *Hirundo rustica*. Distribution: Jiangxi, Guizhou [?, ?, ?, ?].

3. *Argas beijingensis* Teng, 1983 *Argas beijingensis* Teng, 1983: 255-261. Hosts: *Columba livia*; *Spilopelia chinensis* (syn. *Streptopelia chinensis*); *Passer montanus*; *Hirundo rustica*; *Gallus gallus domesticus*. Distribution: Beijing, Hebei, Shandong [?, ?, ?]. Remarks: Often misidentified as *A. reflexus* or *A. vulgaris*. Distribution requires further investigation.

4. *Argas japonicus* Yamaguchi, Clifford & Tipton, 1968 Hosts: *Streptopelia* spp.; *Cecropis daurica japonica*; *Delichon dasypus*; *Passer* spp.; *Gallus gallus domesticus*. Distribution: Beijing, Hebei, Jilin, Liaoning, Inner Mongolia, Ningxia, Xinjiang.

5. *Argas persicus* (Oken, 1818) Hosts: *Columba* spp.; *Passer montanus*; *Hirundo* spp.; *Gallus gallus domesticus*. Distribution: Widespread across Northern and Central China. Remarks: Records from the Oriental region (including Taiwan) may represent *A. robertsi*.

6. *Argas reflexus* (Fabricius, 1794) Hosts: *Columba livia domestica*; *Columba rupestris*; *Passer* spp.; *Hirundo* spp.; *Gallus gallus domesticus*. Distribution: Gansu, Qinghai, Hebei, Henan, Inner Mongolia, Ningxia, Shandong, Shaanxi, Xinjiang. Remarks: Status in China is maintained pending conclusive evidence; some records may be *A. vulgaris* or *A. beijingensis*.

7. *Argas robertsi* Hoogstraal, Kaiser & Kohls, 1968 Hosts: *Gallus gallus domesticus*; *Phalacrocorax* spp.; *Ardea* spp.; *Egretta* spp. Distribution: Taiwan.

8. *Argas vulgaris* Filippova, 1961 Hosts: *Columba* spp.; *Passer* spp. Distribution: Xinjiang, Jilin, Gansu, Ningxia, Liaoning, Beijing, Hebei, Inner Mongolia, Shanxi, Shandong, Shaanxi.

Subfamily Ornithodorinae Pospelova-Shtrom, 1946

9. *Alectorobius capensis* (Neumann, 1901) Hosts: Seabirds (nests). Distribution: Taiwan.

10. *Carios pusillus* (Kohls, 1950) Hosts: *Scotophilus kuhlii*; *Hypsugo imbricatus*. Primarily parasitizes bats. Distribution: Taiwan. Remarks: The subgenus *Carios* is elevated to genus rank. This species is often confused with *C. vespertilionis*.

11. *Carios sinensis* (Jeu & Zhu, 1982) Hosts: *Pipistrellus abramus*. Distribution: Sichuan.

12. *Carios vespertilionis* Latreille, 1796 Hosts: *Vespertilio* spp. Parasitizes bats; occasionally attacks humans. Distribution: Widespread across 15 provinces including Hebei, Xinjiang, and Yunnan.

13. *Ornithodoros huaqianensis* Sun, Xu, Liu & Wu, 2019 Hosts: *Marmota sibirica*. Distribution: Gansu.

14. *Ornithodoros papillipes* (Birula, 1895) Hosts: *Canis* spp.; *Vulpes* spp.; *Lepus* spp.; *Erinaceus* spp. Distribution: Shanxi, Xinjiang, Inner Mongolia, Shaanxi. Remarks: Considered a synonym of *O. tholozani* by some, but maintained as valid by Eastern European and Chinese workers.

15. *Ornithodoros tartakovskyi* Olenov, 1931 Hosts: *Rhombomys opimus*; *Testudo horsfieldii*. Distribution: Xinjiang, Shaanxi, Inner Mongolia. Remarks: Vector of *Borrelia latyschewii* (tick-borne relapsing fever).

Family IXODIDAE (Leach, 1815) Murray, 1877

Subfamily Ixodinae (Leach, 1815) Van Der Hammen, 1968

16. *Ixodes acutitarsus* (Karsch, 1880) Hosts: *Canis lupus familiaris*; *Capra hircus*; *Bos taurus*; *Ailuropoda melanoleuca*; *Ursus thibetanus*; *Homo sapiens*. Distribution: Gansu, Hubei, Qinghai, Sichuan, Taiwan, Xizang, Xinjiang, Yunnan. Remarks: Authority for Ixodidae is emended to Leach (1815) per ICZN priority.

17. *Ixodes apronophorus* Schulze, 1924

18. *Ixodes arboricola* Schulze & Schlottke, 1929 Hosts: *Passer montanus*; *Sturnus vulgaris*; *Sitta europaea*. Distribution: Gansu, Inner Mongolia, Qinghai, Xizang, Xinjiang.

19. *Ixodes berlesei* Birula, 1895 Hosts: *Columba livia*; *Sturnus vulgaris*. Distribution: Xinjiang.

20. *Ixodes crenulatus* Koch, 1844 Hosts: *Marmota himalayana*; *Vulpes vulpes*; *Meles meles*; *Spermophilus undulatus*. Distribution: Northern and Western China.
21. *Ixodes frontalis* (Panzer, 1798)
22. *Ixodes granulatus* Supino, 1897 Hosts: *Niviventer confucianus*; *Rattus norvegicus*; *Apodemus agrarius*; *Tupaia* spp. Distribution: Southern and Central China.
23. *Ixodes hunanensis* Apanaskevich & Duan, 2022
24. *Ixodes hyatti* Clifford, Hoogstraal & Kohls, 1971 Hosts: *Apodemus flavicollis*; *Ochotona thibetana*. Distribution: Hubei, Sichuan, Qinghai, Xinjiang.
25. *Ixodes kaiseri* Arthur, 1957
26. *Ixodes kangdingensis* Guo, Sun, Xu & Durden, 2017
27. *Ixodes kashmiricus* Pomerantzev, 1948 Hosts: Cattle-yaks; *Canis lupus familiaris*. Distribution: Xizang.
28. *Ixodes kazakstani* Olenov & Sorokoumov, 1934 Hosts: *Cricetulus migratorius*; *Allactaga sibirica*; *Rhombomys opimus*. Distribution: Xinjiang.
29. *Ixodes kuntzi* Hoogstraal & Kohls, 1965 Hosts: *Petaurista* spp.; *Apodemus semotus*; *Callosciurus erythraeus*. Distribution: Taiwan.
30. *Ixodes moscharius* Teng, 1982 Hosts: *Moschus berezovskii*. Distribution: Xizang.
31. *Ixodes moschiferi* Nemenz, 1968 Hosts: *Moschus moschiferus*; *Moschus berezovskii*. Distribution: Qinghai, Sichuan, Xizang.
32. *Ixodes myospalacis* Teng, 1986 Hosts: *Eospalax fontanieri*. Distribution: Gansu, Ningxia, Shaanxi.
33. *Ixodes nipponensis* Kitaoka & Saito, 1967 Hosts: *Lepus brachyurus*; *Capra hircus*; *Homo sapiens*. Distribution: Hunan, Taiwan.
34. *Ixodes nuttallianus* Schulze, 1930 Hosts: *Bos taurus*; *Capricornis sumatraensis*; *Muntiacus muntjak*. Distribution: Western China.
35. *Ixodes ovatus* Neumann, 1899 Hosts: Cattle-yaks; *Sus scrofa*; *Ailuropoda melanoleuca*; *Homo sapiens*. Distribution: Widespread in Southern and Western China.
36. *Ixodes pavlovskiyi* Pomerantzev, 1946
37. *Ixodes persulcatus* Schulze, 1930 Hosts: *Bos taurus*; *Equus* spp.; *Ursus thibetanus*; *Capreolus pygargus*. Distribution: Northern China, Xizang, Xinjiang, Taiwan.

38. *Ixodes pomerantzevi* Serdyukova, 1941 Hosts: *Vulpes vulpes*; *Tamias sibiricus*. Distribution: Gansu, Hubei, Liaoning, Shandong, Shanxi.
39. *Ixodes redikorzevi* Olenev, 1927 Hosts: *Cricetulus migratorius*; *Mustela eversmannii*. Distribution: Xinjiang.
40. *Ixodes semenovi* Olenev, 1929 Hosts: *Prunella collaris*; *Pyrhacorax pyrrhocorax*. Distribution: Xizang.
41. *Ixodes simplex* Neumann, 1906 Hosts: *Rhinolophus* spp.; *Myotis* spp.; *Miniopterus* spp. Distribution: Fujian, Jiangsu, Shanghai, Taiwan.
42. *Ixodes sinensis* Teng, 1977 Hosts: *Bos taurus*; *Capra hircus*; *Panthera pardus*; *Homo sapiens*. Distribution: Central and Southern China.
43. *Ixodes spinicoxalis* Neumann, 1899 Hosts: *Mustela sibirica*; Muridae. Distribution: Fujian.
44. *Ixodes tanuki* Saito, 1964 Hosts: *Meles meles*; *Nyctereutes procyonoides*; *Martes flavigula*. Distribution: Gansu, Xizang.
45. *Ixodes vespertilionis* Koch, 1844 Hosts: *Rhinolophus* spp.; *Myotis* spp.; *Miniopterus* spp. Distribution: Widespread across China.

Subfamily Amblyomminae Banks, 1907

46. *Amblyomma cordiferum* Neumann, 1899 Hosts: *Elaphe carinata*; *Ptyas mucosa*; *Naja atra*. Distribution: Taiwan.
47. *Amblyomma crassipes* (Neumann, 1901) Hosts: *Manis pentadactyla*; *Varanus salvator*. Distribution: Yunnan, Guangxi.
48. *Amblyomma geoemydae* (Cantor, 1847) Hosts: *Cuora flavomarginata*. Distribution: Hunan, Hainan, Taiwan.
49. *Amblyomma helvolum* Koch, 1844 Hosts: *Varanus* spp.; Serpentes. Distribution: Hainan, Taiwan.
50. *Amblyomma hainanense* Teng, 1981 Hosts: Serpentes. Distribution: Hainan.
51. *Amblyomma javanense* (Supino, 1897) Hosts: *Manis pentadactyla*; *Python molurus*; *Varanus salvator*. Distribution: Southern China.
52. *Amblyomma pattoni* (Neumann, 1910) Hosts: *Manis pentadactyla*; *Naja naja*; *Ophiophagus hannah*; *Python* spp. Distribution: Guangdong, Zhejiang, Guangxi, Hainan.
53. *Amblyomma testudinarium* Koch, 1844 Hosts: *Bos taurus*; *Bubalus bubalis*; *Sus scrofa*; *Panthera tigris*; *Homo sapiens*. Distribution: Southern China, Taiwan.

54. *Amblyomma varanense* (Supino, 1897) Hosts: *Varanus salvator*; *Naja naja*; *Python* sp. Distribution: Guangxi, Hainan, Taiwan, Yunnan.

Subfamily Haemaphysalinae (Banks, 1907)

55. *Haemaphysalis aborensis* Warburton, 1913 Hosts: *Gallus gallus*; *Arctonyx collaris*; *Panthera tigris*; *Muntiacus muntjak*. Distribution: Yunnan.

56. *Haemaphysalis anomaloceraea* Teng & Cui, 1984 Distribution: Yunnan.

57. *Haemaphysalis aponomoides* Warburton, 1913 Hosts: *Phasianus colchicus*; *Bos grunniens*; *Ursus thibetanus*. Distribution: Xizang.

58. *Haemaphysalis asiatica* (Supino, 1897) Hosts: *Viverra zibetha*; *Prionailurus bengalensis*. Distribution: Yunnan, Taiwan.

59. *Haemaphysalis bandicota* Hoogstraal & Kohls, 1965 Hosts: *Bandicota* spp. Distribution: Taiwan.

60. *Haemaphysalis birmaniae* Supino, 1897 Hosts: *Muntiacus muntjak*; *Capricornis sumatraensis*. Distribution: Taiwan, Yunnan.

61. *Haemaphysalis campanulata* Warburton, 1908 Hosts: *Canis lupus familiaris*; *Felis catus*. Distribution: Northern and Central China.

62. *Haemaphysalis canestrinii* (Supino, 1897) Hosts: *Viverra zibetha*; *Panthera tigris*; *Arctonyx collaris*. Distribution: Yunnan, Taiwan.

63. *Haemaphysalis colasbelcourii* (Santos Dias, 1958) Hosts: *Bubalus bubalis*; *Bos grunniens*; *Capricornis sumatraensis*. Distribution: Southern and Western China.

64. *Haemaphysalis concinna* Koch, 1844 Hosts: *Equus* spp.; *Ursus thibetanus*; *Capreolus pygargus*; *Homo sapiens*. Distribution: Northern China.

65. *Haemaphysalis cornigera* Neumann, 1897 Hosts: *Bubalus bubalis*; *Bos taurus*. Distribution: Southern China, Taiwan.

66. *Haemaphysalis danieli* Černý & Hoogstraal, 1977 Hosts: *Capra hircus*. Distribution: Qinghai, Xinjiang.

67. *Haemaphysalis doenitzi* Warburton & Nuttall, 1909 Hosts: *Francolinus pintadeanus*; *Bambusicola thoracicus*. Distribution: Fujian, Hainan, Taiwan, Yunnan.

68. *Haemaphysalis erinacei* Pavesi, 1884 Hosts: *Rhombomys opimus*; *Spermophilus dauricus*; *Mustela eversmanii*. Distribution: Ningxia, Shanxi, Xinjiang.

69. *Haemaphysalis flava* Neumann, 1897 Hosts: *Sus scrofa*; *Arctonyx collaris*; *Canis lupus familiaris*. Distribution: Gansu, Hubei, Jiangsu, Sichuan, Taiwan.

70. *Haemaphysalis formosensis* Neumann, 1913 Hosts: *Sus scrofa*; *Muntiacus* spp.; *Canis lupus familiaris*. Distribution: Fujian, Hainan, Taiwan.
71. *Haemaphysalis garhwalensis* Dhanda & Bhat, 1968 Distribution: Xizang.
72. *Haemaphysalis goral* Hoogstraal, 1970 Hosts: *Naemorhedus goral*. Distribution: Zhejiang.
73. *Haemaphysalis hystricis* Supino, 1897 Hosts: *Sus scrofa*; *Hystrix brachyura*; *Panthera tigris*; *Homo sapiens*. Distribution: Southern China, Taiwan.
74. *Haemaphysalis japonica* Warburton, 1908 Hosts: *Capra hircus*; *Ursus thibetanus*; *Panthera tigris*; *Capreolus pygargus*. Distribution: Northern and Central China.
75. *Haemaphysalis kitaokai* Hoogstraal, 1969 Hosts: *Bos taurus*; *Cervus* spp.; *Capricornis swinhoei*. Distribution: Gansu, Hunan, Sichuan, Taiwan.
76. *Haemaphysalis kolonini* Du, Sun, Xu & Shao, 2018
77. *Haemaphysalis lagrangei* Larrousse, 1925 Hosts: *Muntiacus muntjak*. Distribution: Hainan.
78. *Haemaphysalis longicornis* Neumann, 1901 Hosts: *Equus* spp.; *Bos taurus*; *Canis lupus familiaris*; *Homo sapiens*. Distribution: Widespread across nearly all provinces in China.
79. *Haemaphysalis mageshimaensis* Saito & Hoogstraal, 1973 Hosts: *Muntiacus* spp.; *Paguma larvata*; *Prionailurus bengalensis*. Distribution: Anhui, Fujian, Taiwan, Hong Kong.
80. *Haemaphysalis megalaimae* Rajagopalan, 1963 Hosts: *Picoidea* spp. Distribution: Hainan.
81. *Haemaphysalis megaspinosa* Saito, 1969 Hosts: *Bos taurus*; *Ailuropoda melanoleuca*; *Sus scrofa*. Distribution: Gansu, Sichuan.
82. *Haemaphysalis menglaensis* Pang, Chen & Xiang, 1982 Hosts: *Cervus* spp. Distribution: Yunnan.
83. *Haemaphysalis montgomeryi* Nuttall, 1912 Hosts: *Capra hircus*; *Bos taurus*; *Canis lupus familiaris*. Distribution: Sichuan, Xizang, Yunnan.
84. *Haemaphysalis moschisuga* Teng, 1980 Hosts: *Moschus berezovskii*; *Bos grunniens*; *Lepus sinensis*. Distribution: Western China.
85. *Haemaphysalis nepalensis* Hoogstraal, 1962 Hosts: Cattle-yaks; *Homo sapiens*. Distribution: Xizang.
86. *Haemaphysalis ornithophila* Hoogstraal & Kohls, 1959 Hosts: *Pitta oatesi*; *Gallus gallus*; *Mustela sibirica*. Distribution: Gansu, Taiwan, Yunnan.

87. *Haemaphysalis phasiana* Saito, Hoogstraal & Wassef, 1974 Hosts: *Phasianus versicolor*; *Phasianus colchicus*. Distribution: Jiangxi, Yunnan, Taiwan.
88. *Haemaphysalis primitiva* Teng, 1982 Distribution: Sichuan, Yunnan.
89. *Haemaphysalis punctata* Canestrini & Fanzago, 1878 Hosts: *Equus* spp.; Aves. Distribution: Xinjiang.
90. *Haemaphysalis qinghaiensis* Teng, 1980 Hosts: *Lepus oiostolus*; *Capra hircus*; *Bos taurus*. Distribution: Western China.
91. *Haemaphysalis quadriaculeata* Kolonin, 1992
92. *Haemaphysalis sinensis* Zhang, 1981 Hosts: *Bos taurus*; *Capra hircus*. Distribution: Hubei, Shaanxi.
93. *Haemaphysalis spinigera* Neumann, 1897 Hosts: *Bos taurus*; *Bubalus bubalis*; *Panthera tigris*; *Homo sapiens*. Distribution: Yunnan.
94. *Haemaphysalis sulcata* Canestrini & Fanzago, 1878 Hosts: *Capra hircus*; *Camelus* spp. Distribution: Xinjiang.
95. *Haemaphysalis taiwana* Sugimoto, 1936 Hosts: *Bubalus bubalis*. Distribution: Taiwan.
96. *Haemaphysalis tibetensis* Hoogstraal, 1965 Hosts: *Bos grunniens*; *Canis lupus familiaris*. Distribution: Gansu, Xizang.
97. *Haemaphysalis verticalis* Itagaki, Noda & Yamaguchi, 1944 Hosts: *Spermophilus dauricus*; *Lepus tolai*; *Procapra gutturosa*. Distribution: Northern China.
98. *Haemaphysalis warburtoni* Nuttall, 1912 Hosts: *Capricornis sumatraensis*; *Naemorhedus goral*; *Bos grunniens*. Distribution: Sichuan, Xizang.
99. *Haemaphysalis wellingtoni* Nuttall & Warburton, 1908 Hosts: *Gallus gallus domesticus*; *Lophura nycthemera*. Distribution: Yunnan.
100. *Haemaphysalis yeni* Toumanoff, 1944 Hosts: *Muntiacus* spp.; *Rusa unicornis*; *Cuon alpinus*. Distribution: Fujian, Hainan, Hunan, Taiwan.

Subfamily Rhipicephalinae Salmon & Stiles, 1901

101. *Anomalohimalaya lamai* Hoogstraal, Kaiser & Mitchell, 1970 Hosts: *Cricetulus kamensis*. Distribution: Xizang.
102. *Anomalohimalaya cricetuli* Teng & Huang, 1981 Hosts: *Cricetulus migratorius*. Distribution: Xinjiang.
103. *Anomalohimalaya lotozkyi* Filippova & Panova, 1978 Hosts: *Cricetulus migratorius*; *Alticola argentatus*. Distribution: Xinjiang.

104. *Dermacentor abaensis* Teng, 1963 Hosts: Cattle-yaks; *Ursus thibetanus*; *Moschus chrysogaster sifanicus*. Distribution: Gansu, Qinghai, Sichuan.
105. *Dermacentor auratus* Supino, 1897 Hosts: *Sus scrofa*; *Bubalus bubalis*; *Arctonyx collaris*; *Homo sapiens*. Distribution: Southern and Western China.
106. *Dermacentor bellulus* (Schulze, 1935) Hosts: *Sus scrofa*; *Ailuropoda melanoleuca*; *Ursus thibetanus*; *Homo sapiens*. Distribution: Fujian, Sichuan, Taiwan, Xizang.
107. *Dermacentor compactus* Neumann, 1901 Hosts: *Sus scrofa*; *Panthera tigris*; *Hystrix brachyura*; *Manis pentadactyla*. Distribution: Hainan.
108. *Dermacentor everestianus* Hirst, 1926 Hosts: *Pseudois nayaur*; Cattle-yaks; *Ochotona* spp. Distribution: Xizang.
109. *Dermacentor marginatus* (Sulzer, 1776) Hosts: *Camelus* spp.; *Equus* spp.; *Homo sapiens*. Distribution: Inner Mongolia, Xinjiang.
110. *Dermacentor montanus* Filippova & Panova, 1974 Hosts: *Capra hircus*. Distribution: Xinjiang.
111. *Dermacentor niveus* Neumann, 1897 Hosts: *Capra hircus*; *Camelus* spp.; *Meles meles*; *Homo sapiens*. Distribution: Gansu, Inner Mongolia, Xizang, Xinjiang.
112. *Dermacentor nuttalli* Olenov, 1929 Hosts: *Camelus* spp.; *Equus* spp.; *Canis lupus familiaris*; *Homo sapiens*. Distribution: Northern and Western China.
113. *Dermacentor pavlovskiyi* Olenov, 1927 Hosts: *Capra hircus*; *Equus* spp.; *Camelus* spp. Distribution: Xinjiang.
114. *Dermacentor reticulatus* (Fabricius, 1794) Hosts: *Equus* spp.; *Canis lupus familiaris*; *Sus scrofa*; *Vulpes* spp. Distribution: Xinjiang.
115. *Dermacentor silvarum* Olenov, 1931 Hosts: *Equus* spp.; *Capra hircus*; *Sus scrofa*; *Homo sapiens*. Distribution: Northern China and Xinjiang.
116. *Dermacentor sinicus* Schulze, 1932 Hosts: *Erinaceus europaeus*; *Lepus tolai*; *Equus* spp.; *Camelus* spp.; *Canis lupus familiaris*. Distribution: Northern China and Xinjiang.
117. *Dermacentor steini* (Schulze, 1933) Hosts: *Sus scrofa*; *Panthera tigris*; *Canis* spp. Distribution: Fujian, Guangdong, Hainan.
118. *Dermacentor taiwanensis* Sugimoto, 1935 Hosts: *Sus scrofa*; *Ailuropoda melanoleuca*; *Ursus thibetanus*. Distribution: Fujian, Hainan, Sichuan, Taiwan.

119. *Dermacentor tamokensis* Apanaskevich & Apanaskevich, 2016 Hosts: *Sus scrofa*. Distribution: Fujian.
120. *Hyalomma anatolicum* Koch, 1844 Hosts: Domestic and wild animals. Distribution: Xinjiang.
121. *Hyalomma asiaticum* Schulze & Schlottke, 1929 Hosts: *Camelus* spp.; *Capra hircus*; *Sus scrofa*; *Erinaceus europaeus*. Distribution: Northern and Western China.
122. *Hyalomma dromedarii* Koch, 1844 Hosts: *Camelus* spp.; *Equus* spp.; *Canis lupus familiaris*; *Homo sapiens*. Distribution: Xinjiang.
123. *Hyalomma isaaci* Sharif, 1928 Hosts: *Bos taurus*; Cattle-yaks; *Capra hircus*. Distribution: Sichuan, Xinjiang, Yunnan.
124. *Hyalomma scupense* Schulze, 1919 (syn. *H. detritum*) Hosts: *Equus* spp.; *Camelus* spp.; *Bos* spp. Distribution: Northern and Central China.
125. *Hyalomma rufipes* Koch, 1844 Hosts: *Capra hircus*; *Ovis* spp.; *Camelus bactrianus*. Distribution: Gansu, Inner Mongolia, Ningxia, Shanxi, Xinjiang.
126. *Rhipicephalus (Boophilus) microplus* (Canestrini, 1888) Hosts: *Bos taurus*; *Bubalus bubalis*; *Bos grunniens*; *Equus* spp.; *Homo sapiens*. Distribution: Widespread across nearly all provinces in China.
127. *Rhipicephalus bursa* Canestrini & Fanzago, 1878 Hosts: *Bos* spp.; *Capra hircus*; *Lepus sinensis*; *Homo sapiens*. Distribution: Xinjiang.
128. *Rhipicephalus haemaphysaloides* Supino, 1897 Hosts: *Capra hircus*; *Bubalus bubalis*; *Canis lupus familiaris*; *Ursus thibetanus*; *Homo sapiens*. Distribution: Southern China, Taiwan, Xizang.
129. *Rhipicephalus pumilio* Schulze, 1935 Hosts: *Lepus yarkandensis*; *Hemiechinus auritus*; *Gazella subgutturosa*; *Homo sapiens*. Distribution: Inner Mongolia, Xinjiang.
130. *Rhipicephalus rossicus* Yakimov & Kohl-Yakimova, 1911 Distribution: Xinjiang.
131. *Rhipicephalus sanguineus* (Latreille, 1806) Hosts: *Canis lupus familiaris* (primary host); *Vulpes* spp.; *Hemiechinus auritus*; *Homo sapiens*. Distribution: Widespread across China.
132. *Rhipicephalus schulzei* Olenov, 1929 Hosts: *Spermophilus erythrogastrus*; *Rhombomys opimus*; *Allactaga sibirica*; *Homo sapiens*. Distribution: Xinjiang.
133. *Rhipicephalus turanicus* Pomerantzev, 1940 Hosts: *Capra hircus*; *Canis lupus familiaris*; *Erinaceus europaeus*; *Lepus sinensis*. Distribution: Xinjiang, Beijing, Shaanxi.

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Conflict of Interest

The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

Note: Figure translations are in progress. See original paper for figures.

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