

Record of *Haemaphysalis flava* Neumann (Acari,
Ixodidae) from *Zoothera dauma* (Latham) (Aves)
in Kyushu, Japan

Yamauchi, Takeo

Takeo, Koichi

<https://doi.org/10.5109/2647>

出版情報 : ESAKIA. 40, pp.99-101, 2000-03-31. Entomological Laboratory, Faculty of Agriculture,
Kyushu University

バージョン :

権利関係 :

**Record of *Haemaphysalis flava* Neumann (Acari, Ixodidae) from
Zoothera dauma (Latham) (Aves) in Kyushu, Japan¹⁾**

Takeo YAMAUCHI

Biosystematics Laboratory, Graduate School of Social and Cultural Studies,
Kyushu University, Ropponmatsu, Fukuoka, 810-8560 Japan

and

Koichi TAKENO

Hikosan Biological Laboratory, Faculty of Agriculture,
Kyushu University, Hikosan, 824-0721 Japan

Key words: tick, *Haemaphysalis flava*, *Zoothera dauma*, distributional record, host record, Japan.

Ticks feeding on vertebrate's blood are of medical and veterinary importance because they are vectors for various diseases. Knowledge of host associations and fauna is therefore essential in studying the tick-borne diseases and in tick-control efforts.

On March 19, 1981, Koichi Takeno (the junior author) found a White's thrush, *Zoothera dauma* (Latham, 1790) just after death caused by collision with a windowpane on the grounds of Hikosan Biological Laboratory, Kyushu University. Moreover, he collected a nymph of *Haemaphysalis flava* Neumann, 1897 attached to the bird. This is the second record of *H. flava* from *Z. dauma*.

Haemaphysalis flava is distributed in Hokkaido, Honshu, Shikoku, Kyushu, and Korea. It is considered a parasite of a number of mammal and bird hosts (Yamaguti, *et al.*, 1971). Records of *H. flava* from birds are shown in Table 1.

Asanuma *et al.* (1955) first recorded *Z. dauma* as a host of nymphal *H. flava* without the site of capture specified. They described that birds were parasitized only by immature forms, but mammals by all stages. Our observation was also consistent with their description.

Acknowledgments

We wish to express our sincere thanks to Assoc. Prof. O. Yata and Dr. B. J. Sinclair of Biosystematics Laboratory, Graduate School of Social and Cultural Studies, Kyushu University (BLKU) for their critical reading of the manuscript. We also express

1) Contribution from the Biosystematics Laboratory, Graduate School of Social and Cultural Studies, Kyushu University (No. 53).

Table 1. Records of *Haemaphysalis flava* from birds.

Host [Japanese name]	References
Order Falconiformes	
Accipitridae	
1. <i>Milvus migrans</i> (Boddaert, 1783) [Tobi]	(F)
2. <i>Accipiter gularis</i> (Temminck & Schlegel, 1844) [Tsumi]	(A)
Order Galliformes	
Phasianidae	
3. <i>Bambusicola thoracica</i> (Temminck, 1815) [Kojukei]	(A)
4. <i>Phasianus soemmerringii</i> Temminck, 1830 [Yamadori]	(A; B)
5. <i>Phasianus colchicus</i> Linnaeus, 1758 [Kiji]	(A; B; C; D; E)
Order Columbiformes	
Columbidae	
6. <i>Streptopelia orientalis</i> (Latham, 1790) [Kijibato]	(E)
Order Strigiformes	
Strigidae	
7. <i>Otus lempiji</i> (Horsfield, 1821) [Ôkonohazuku]	(H)
Order Passeriformes	
Motacillidae	
8. <i>Motacilla cinerea</i> Tunstall, 1771 [Kisekirei]	(A)
9. <i>Anthus hodgsoni</i> Richmond, 1907 [Binzui]	(G; H)
Turdidae	
10. <i>Erithacus akahige</i> (Temminck, 1835) [Komadori]	(G)
11. <i>Zoothera dauma</i> (Latham, 1790) [Toratsugumi]	(A)
12. <i>Turdus sibiricus</i> Pallas, 1776 [Mamijiro]	(G)
13. <i>Turdus cardis</i> Temminck, 1831 [Kurotsugumi]	(A; H)
14. <i>Turdus chrysolaus</i> Temminck, 1831 [Akahara]	(A)
15. <i>Turdus celaenops</i> Stejneger, 1887 [Akakokko]	(A)
16. <i>Turdus pallidus</i> Gmelin, 1789 [Shirohara]	(A; G)
17. <i>Turdus obscurus</i> Gmelin, 1789 [Mamityajinai]	(H)
Sylviidae	
18. <i>Cettia diphone</i> (Kittlitz, 1831) [Uguisu]	(H)
Aegithalidae	
19. <i>Aegithalus caudatus</i> (Linnaeus, 1758) [Enaga]	(A)
Paridae	
20. <i>Parus ater</i> Linnaeus, 1758 [Higara]	(A)
21. <i>Parus varius</i> Temminck & Schlegel [Yamagara]	(H)
22. <i>Parus major</i> Linnaeus, 1758 [Shijûkara]	(A; G)
Emberizidae	
23. <i>Emberiza cioides</i> Brandt, 1843 [Hôjiro]	(A; H)
24. <i>Emberiza rustica</i> Pallas, 1776 [Kashiradaka]	(A; G)
25. <i>Emberiza elegans</i> Temminck, 1835 [Miyamahôjiro]	(A)
26. <i>Emberiza spodocephala</i> Pallas, 1776 [Aoji]	(D; G; H)
27. <i>Emberiza variabilis</i> Temminck, 1835 [Kuroji]	(G; H)
Corvidae	
28. <i>Garrulus glandarius</i> (Linnaeus, 1758) [Kakesu]	(A; D)

A --- Asanuma *et al.*, 1955; B --- Asanuma, 1956; C --- Asanuma *et al.*, 1956; D --- Saito, 1959; E --- Saito *et al.*, 1965; F --- Fujita & Takada, 1977; G --- Miyamoto *et al.*, 1993; H --- Ishiguro *et al.*, 1997. Both scientific and Japanese names follow Morioka *et al.* (1997).

our sincere gratitude to Dr. H. Kakuda of Fukuoka Minami Girl's High School for providing information, Ms. H. Amano (BLKU) for offering ornithological information and Dr. F. Ishiguro of Fukui Prefectural Institute of Public Health for his kindness on sending us a reference.

References

- Asanuma, K., 1956. Tularemia, ticks, and mesostigmatid mites of the Far East. *Ann. Prof. Rep.*, 406th Medical General Laboratory. pp. 91-96.
- Asanuma, K., S. Ohara, N. Sakurai, H. Nakagawa, A. Goto & T. Sato, 1956. Studies on ticks infesting source animals of Yato-byo or tularemia in Japan. *Jpn. J. Sanit. Zool.*, **7**: 127. (In Japanese)
- Asanuma, K., N. Sakurai, S. Ohara, H. Odajima, K. Kosaka & H. Nakagawa, 1955. On the host and distribution records of a tick, *Haemaphysalis flava*, a dominant parasite of wild hares in Japan. *Misc. Rep. Res. Inst. Nat. Resour.*, **37**: 127-128. (In Japanese)
- Fujita, H. & N. Takada, 1977. Studies on ixodid fauna in the northern part of Honshu, Japan 1. Hosts, distribution and additional case of human infestation. *Jpn. J. Sanit. Zool.*, **28**: 57. (In Japanese)
- Ishiguro, F., S. Wada & K. Inada, 1997. Isolation of Lyme *Borrelia* from ticks fed on birds in the Nyû Highland of Fukui Prefecture. *J. Jpn. Vet. Med. Assoc.*, **50**: 555-558. (In Japanese with English summary)
- Miyamoto, K., M. Nakano, H. Fujita, & F. Sato, 1993. The ixodid ticks on migratory birds in Japan and the isolation of Lyme disease spirochetes from bird-feeding ticks. *Jpn. J. Sanit. Zool.*, **44**: 315-326.
- Morioka, H. *et al.* (eds.), 1997. List of Japanese Birds. *Jpn. J. Ornithol.*, **46**: 59-91. (In Japanese)
- Saito, Y., 1959. Studies on ixodid ticks. Part I. On ecology, with reference to distribution and seasonal occurrence of ixodid ticks in Niigata Prefecture, Japan. *Acta Med. Biol.*, **7**: 193-209.
- Saito, Y., M. Kubota, A. Yajima, T. Watanabe & K. Kamino, 1965. Studies on ixodid ticks. Part VIII. On *Haemaphysalis bispinosa* Neumann, 1897 in Niigata Prefecture, Japan, with some supplementary observation on bovine piroplasmiasis. *Acta. Med. Biol.*, **13**: 143-159.
- Yamaguti, N., V. J. Tipton, H. L. Keegan & S. Toshioka, 1971. Ticks of Japan, Korea and the Ryukyu Islands. *Brigham Young Univ. Sci. Bull. Biol. Ser.*, **15**: 1-226.

