

Supplementary Table S1. Records of ticks from the Izu Islands from 1942 to present

Island	Tick species	Sample type	Reference no.
Izu-Oshima Island	<i>Haemaphysalis longicornis</i>	Vegetation	1
	<i>Ixodes turdus</i>	Terrestrial birds	2
Niijima Island	<i>H. cornigera</i>	Vegetation	10
	<i>H. flava</i>	Vegetation	10
	<i>H. hystrixis</i>	Vegetation	10
	<i>H. longicornis</i>	Vegetation	10
	<i>H. megaspinosa</i>	Vegetation	10
	<i>I. granulatus</i>	Vegetation	10
	<i>I. turdus</i>	Vegetation	10
	<i>I. turdus</i>	Terrestrial birds	1, 3
Miyake-jima Island	<i>H. cornigera</i>	Domestic cattle	5
	<i>H. flava</i>	Domestic cattle, domestic dog	1
	<i>H. longicornis</i>	Domestic cattle, domestic dog	4, 5
	<i>I. asanumai</i>	Skink lizard	7
	<i>I. granulatus</i>	Black rat, Norway rat	2
	<i>I. turdus</i>	Terrestrial birds	3
Mikura-shima Island	<i>I. granuratus</i>	Black rat, Norway rat, feral domestic cat, human	This study
	<i>I. philipi</i>	Breeding burrows of sea bird	8, 9
Hachijo-jima Island	<i>H. cornigera</i>	Domestic cattle	4
	<i>H. flava</i>	Vegetation	6
	<i>H. longicornis</i>	Domestic dog	6
	<i>I. granulatus</i>	Black rat, Norway rat	2
Hachijo-Kojima Island	<i>I. turdus</i>	Terrestrial birds	3, 4
	<i>H. cornigera</i>	Domestic cattle	4
	<i>H. longicornis</i>	Domestic cattle	6
Aogashima Island	<i>I. granulatus</i>	Norway rat	2
	<i>H. longicornis</i>	Domestic cattle	6
	<i>I. asanumai</i>	Skink lizard	7
Izu Islands (Not specified)	<i>I. turdus</i>	Terrestrial birds	3
	<i>I. turdus</i>	Terrestrial birds	6

*References (ordered in publication year):

- 1) Nakatsuji, K. 1942. Cheliserata of seven islands of Izu. Journal of Agricultural Science Tokyo Nogyo Daigaku 1: 287–328.
- 2) Asanuma, K. and Sekikawa, K. 1952. Studies on ticks of the genus *Ixodes* parasitic on small rodents of the superfamily Muroidea in the Japanese islands. Miscellaneous Report of the Research Institute for Natural Resources 28: 107–116 (in Japanese).
- 3) Asanuma, K. and Kosaka, K. 1955. Notes on a tick, *Ixodes turdus* Nakatsuji, 1942, found on birds in Japan. Bulletin of the Biogeographical Society of Japan 16: 192–196 (in Japanese).
- 4) Keegan, H. L. and Toshioka, S. 1957. Ixodid ticks of Japan, Korea, and the Ryukyu Islands. Report-406th Medical General Laboratory, Tokyo, 37 pp.
- 5) Okoshi, S., Kitano, N., Tomoda, I., Usui, M., Takashio, M., Suzuki, N. and Konishi, T. 1960. Examination of endo- and ectoparasites in dairy cattle in Miyake Island, especially on the incidence and clinical symptoms of piroplasmosis. Japanese Journal of Veterinary Science Tokyo 22: 471 (in Japanese).
- 6) Yamaguti, N., Tipton, V. J., Keegan, H. L. and Toshioka, S. 1971. Ticks of Japan, Korea, and the Ryukyu Islands. Brigham Young University Scientific Bulletin of Biological Series 15: 1–226.
- 7) Hayashi, F. and Hasegawa, M. 1984. Selective parasitism of the tick *Ixodes asanumai* (Acarina: Ixodidae) and Its Influence on the host lizard *Eumeces okadae* in Miyake-jima, Izu Islands. Applied Entomology and Zoology 19: 181–191.
- 8) Takahashi, M., Misumi, H., Tsurumi, M. and Uchikawa, K. 2005. *Ixodes philipi*: redescription of female and first description of male, with records from streaked shearwater in Japan (Acarina: Ixodidae). Journal of Medical Entomology 42: 213–217.
- 9) Mitani, H., Takahashi, M., Masuyama, M. and Fukunaga, M. 2007. *Ixodes philipi* (Acari: Ixodidae): phylogenetic status inferred from mitochondrial cytochrome oxidase subunit I gene sequence comparison. Journal of Parasitology 93: 719–722.
- 10) Doi, K., Nishida, K., Kato, T. and Hayama, S. 2020. Effects of introduced sika deer (*Cervus nippon*) and population control activity on the distribution of *Haemaphysalis* ticks in an island environment. International Journal for Parasitology: Parasites and Wildlife 11: 302–307.