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Author(s)	Sugihara, Yuzo
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A LIST OF THE SPECIES OF *VESPINAE* OF
THE KURILE ISLANDS
(*HYMENOPTERA: VESPIDAE*)

By

YUZÔ SUGIHARA
(杉原勇三)

By the courtesy of Dr. TOICHI UCHIDA, who has made a study of the insect fauna of the Kurile Islands with the assistance of the Nippon Gakujutsu Shinkôkai, the present writer had opportunities to go to the Kurile Islands (Chishima) for collecting insects in 1935, 1936 and 1937. The islands the writer visited are as follows:—

- 1935: Shikotan-to, Kunashiri-to and Etorofu-to.
1936: Shikotan-to, Etorofu-to and Uruppu-to.
1937: Uruppu-to, Chirihoi-to, Shimushiru-to, RASHUWA-to, Shasukotan-to, Harumukotan-to and Onnekotan-to.

In this paper is given a list of the species of *Vespinæ* collected by the writer in his trips. On this occasion the representatives from Dr. T. UCHIDA's and Mr. K. DOI's collections of the Kurile Islands may be added to this list. The species are seven in all, one having been represented by Dr. T. UCHIDA and the rest being new to the Kurile Islands.

The writer wishes to express his hearty thanks to Dr. T. UCHIDA for his kind direction. Acknowledgments are also due to Dr. H. KÔNO and Dr. C. WATANABE for their kind advice and help in finishing this investigation.

Family *Vespidæ*
Subfamily *Vespinæ*
Genus *Vespa* LINNÆUS

Vespa LINNÆUS, Syst. Nat. (Ed. X) 1, p. 572 (1758); LATREILLE, Consid. Génér., p. 438 (1810).

Macrovespa DALLA TORRE, Gen. Insect., 19, Vespidæ, p. 64 (1904).

Genotype: *Vespa crabro* LINNÆUS, 1758 (fixed by LATREILLE, 1810).

I. *Vespa (Vespa) simillima* SMITH

Vespa simillima F. SMITH, Ent. Month. Mag., IV, p. 280 (1868).

Habitat: Kunashiri-to (Nikishiro, 1 ♂, 17-22. VII, 1935, Dr. T. UCHIDA).
 General Distribution: Japan (Honshu, Hokkaido).

Genus *Vespula* THOMSON

Vespa (Vespula) C. G. THOMSON, Opusc. Entom., I, p. 76 (1869).

Vespula ASHMEAD, Canad. Ent., XXXIV, p. 164 (1902).

Pseudovespa SCHMIEDEKNECHT, Entom. Nachrichten, VII, p. 314 (1881).

Genotype: *Vespula austriaca* (PANZER), 1799 (fixed by ASHMEAD, 1902).

Subgenus *Vespula* s. str.

2. *Vespula (Vespula) austriaca* (PANZER)

Vespa austriaca PANZER, Faun. Ins. German., VI, pt. 63, pl. 2 (1799).

Vespa (Vespula) austriaca THOMSON, Opusc. Entom., I, p. 82 (1869).

Pseudovespa austriaca SCHMIEDEKNECHT, Ent. Nachrichten, VII, pp. 314, 317 and 318 (1881).

Vespula (Vespula) austriaca BEQUAERT, Bull. Brooklyn Ent. Soc., XXV, 2, p. 67 (1930).

Habitat: Kunashiri-to (Nikishiro, 2 ♀ ♀, 17-22. VII, 1935, Dr. T. UCHIDA).

Gen. Distr.: Japan (Honshu, Hokkaido); Saghalien; Europe; Siberia; China; North America.

3. *Vespula (Vespula) rufa* (LINNAEUS) var. *schrenckii* (RADOSZKOWSKI)

Vespa schrenckii RADOSZKOWSKI, Horae Soc. Ent. Ross., I, p. 84 (1861).

Vespa sibirica ED. ANDRÉ, Spec. Hym. Europe, II, p. 599 (1884).

Vespa (Vespa) sibirica UCHIDA, Biogeographica, Trans. Biogeog. Soc. Japan, I, 2, p. 64 (1936).

Pseudovespa rufa schrenckii BIRULA, Zool. Anz., 87, p. 140 (1930).

Vespula (Vespula) rufa var. *schrenckii* BEQUAERT, Entom. Americana, Brooklyn, XII, 2, p. 97 (1932).

This species is very common in the southern islands of the Kuriles. Many workers of this species were collected by the writer on the flowers of *Saussurea Riederi* HERD. Furthermore, in 1936 Dr. T. UCHIDA gave the Kurile Islands as a locality of this species without indicating any definite habitats.

Habitat: Shikotan-to (Shakotan, 1 ♂, 10. VII, 1925, K. DOI); Kunashiri-to (Nikishiro, 1 ♂, 12. VIII, 1925, K. DOI; 6 ♀ ♀, 1 ♂, 17-22. VII, 1935, Dr. T. UCHIDA; Yambetsu, 2 ♀ ♀, 22-25. VII, 1935, Dr. T. UCHIDA; Seseki, 1 ♂, 27-28. VII, 1935, Dr. T. UCHIDA et Y. SUGIHARA); Etorofu-to (Naipo, 1 ♀, 21. VII, 1927, K. DOI; Shana, 1 ♂, 22-25. VII, 1936, Y. SUGIHARA; Bettobu, 2 ♂ ♂, 21. VII, 1936, Y. SUGIHARA); Uruppu-to (Daiba, 22 ♂ ♂, 9-23. VIII, 1936, Y. SUGIHARA; Tokotan, 5 ♂ ♂, 20. VIII, 1936, Y. SUGIHARA).

Gen. Distr.: Japan (Honshu, Hokkaido); Saghalien; Siberia; China; Manchoukuo.

4. *Vespula (Vespula) vulgaris* (LINNAEUS)

Vespa vulgaris LINNAEUS, Syst. Nat. (Ed. X) I, p. 572 (1758).

Vespa (Vespa) vulgaris THOMSON, Opusc. Entom., I, p. 81 (1869).

Vespa (Vespa) vulgaris BEQUAERT, Bull. Brooklyn Ent. Soc., XXV, 2, p. 68 (1930).

Habitat: Kunashiri-to (Nikishiro, 4 ♀ ♀, 17-22. VII, 1935, Dr. T. UCHIDA; Yambetsu, 1 ♀, 22-25. VII, Dr. T. UCHIDA).

Gen. Distr.: Japan (Hokkaido); Saghalien; Europe; Siberia; China; Manchoukuo; North America.

5. *Vespa (Vespa) lewisii* (CAMERON)

Vespa japonica SAUSSURE, Rev. Mag. Zool., (2) X, p. 261 (1858) (non RADOSZKOWSKI, 1857 et SMITH, 1868).

Vespa saussurei SCHULZ, Spolia Hym., p. 231 (1906).

Vespa lewisii CAMERON, Entomologist, XXXVI, p. 280 (1903).

Vespa (Vespa) lewisii BEQUAERT, Entom. Americana, Brooklyn, XII, 2, p. 88 (1932).

Habitat: Kunashiri-to (Nikishiro, 2 ♀ ♀, 17-22. VII, 1935, Dr. T. UCHIDA; Seseiki, 1 ♀, 27-28. VII, 1935, Dr. T. UCHIDA et Y. SUGIHARA).

Gen. Distr.: Japan (Okinawa, Kyushu, Shikoku, Honshu, Hokkaido); Siberia (Ussuri); China; Manchoukuo.

Subgenus *Dolichovespula* ROHWER

Dolichovespula ROHWER, Hymenoptera, or Wasp-like Insects, of Connecticut, p. 642 (1916).

Subgenotype: *Vespa maculata* (LINNAEUS), 1763 (fixed by ROHWER, 1916).

6. *Vespa (Dolichovespula) media* (RETZIUS)

Vespa crabro media RETZIUS, Gen. Spec. Ins., p. 63 (1783).

Vespa (Vespa) media THOMSON, Opusc. Entom., I, p. 79 (1869).

Vespa media BIRULA, Ann. Mus. Zool. Ac. Sic. URSS, XXVIII, 1, p. 72 (1927).

Vespa (Dolichovespula) media BEQUAERT, Bull. Brooklyn Ent. Soc., XXV, 2, p. 68 (1930).

Habitat: Kunashiri-to (Nikishiro, 1 ♂, 17-22. VII, 1935, Dr. T. UCHIDA; Yambetsu, 2 ♀ ♀, 22-25. VII, 1935, Dr. T. UCHIDA; Furukamappu, 1 ♂, 29. VII, 1935, Y. SUGIHARA); Etorofu-to (Shana-Bettobu, 4 ♂ ♂, 21. VII, 1936, Y. SUGIHARA).

Gen. Distr.: Japan (Honshu, Hokkaido); Saghalien; Korea; Europe; Siberia; China; Manchoukuo.

7. *Vespa (Dolichovespula) norwegica* (FABRICIUS)

var. *pacifica* BIRULA

Vespa norwegica pacifica BIRULA, Ann. Mus. Zool. Ac. Sci. URSS, XXXI, 2, p. 317 (1930).

Vespa (Dolichovespula) norwegica var. *pacifica* BEQUAERT, Entom. Americana, Brooklyn, XII, 2, p. 118 (1932).

Habitat: Shikotan-to (Shakotan, 1 ♀, 27-31. VII, 1936, Y. SUGIHARA); Kunashiri-to (Yambetsu, 1 ♀, 22-25. VII, 1935, Dr. T. UCHIDA); Etorofu-to

(Shana, 1 ♀, 2 ♂ ♂, 22-25. VII, 1936, Y. SUGIHARA).

Gen. Distr.: Japan (Hokkaido); Saghalien; Siberia (Amur, Kamchatka).

As far as the writer's information goes, no species of *Vespinae* has been found in the middle and northern parts of the Kurile Islands, north of the Boussole Strait.

A table of geographical distribution

Species	Localities						Other localities
	Hokkaido	Shikotan to	Kuril Islands	Etorofu to	Uruppu-to	Saghalien Kamchatka	
1. <i>Vespa (Vespa) similima</i> SMITH	x		x				Honshu.
2. <i>Vespula (Vespula) austriaca</i> (PANZER)	x		x			x x	Honshu, Europe, Siberia, China, N. America.
3. <i>Vespula (Vespula) rufa</i> (LINNAEUS) var. <i>schrenckii</i> (RADOSZKOWSKI)	x	x	x	x	x	x x	Honshu, Siberia, China, Manchoukuo.
4. <i>Vespula (Vespula) vulgaris</i> (LINNAEUS)	x		x			x	Europe, Siberia, China, Manchoukuo, N. America.
5. <i>Vespula (Vespula) lewisii</i> CAMERON	x		x				Okinawa, Kyushu, Shikoku, Honshu, Siberia, China, Manchoukuo.
6. <i>Vespula (Doïchovespula) media</i> (RETZIUS)	x		x	x		x	Honshu, Korea, Europe, Siberia, China, Manchoukuo.
7. <i>Vespula (Doïchovespula) norwegica</i> (FABRICIUS) var. <i>pacifica</i> BIRULA	x	x	x	x		x x	Siberia.