

## VESPID WASPS OCCURRING IN MT. HAKUSAN\*

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With regard to the knowledge of vespid wasps occurring in Mt. Hakusan, Ishikawa Prefecture, has not sufficiently been accumulated. Up to the present, nine species are recorded from this mountain (Hori, 1960; Nakamura, 1980).

Since 1981, I have carried out on the survey of vespid wasps. In this paper, I list the vespid wasps and report on their vertical distribution in Mt. Hakusan except for Polistinae.

#### List

1. *Parapolybia indica* Saussure ホソアシナガバチ\*\*  
1♀, Aug. 29, 1975, Chugu Spa, I. Togashi leg.
2. *Polistes snelleni* Saussure コアシナガバチ  
1♀, Aug. 10, 1979, Chugu Spa, I. Togashi leg.
3. *Polistes mandarinus* Saussure キボシアシナガバチ  
1♀, May 25, 1974, Chugu Spa, I. Togashi leg; 1♀, Oct. 9, 1975, Mt. Rokuman, I. Togashi leg.
4. *Polistes chinensis* Fabricius フタモンアシナガバチ  
1♀, Oct. 16, 1983, Chugu, Yoshinodani mura, A. Miuzno leg.
5. *Vespula shidai* Ishikawa et al. シダクロスズメバチ\*\*  
1♀, Sept. 5, 1975, Chugu Spa, I. Togashi leg; 1♀, Oct. 27, 1975, Mt. Rokuman, I. Togashi leg.
6. *Vespula schrenckii* Radoszkowski ツヤクロスズメバチ  
1♀, Jul. 17, 1977, Mt. Rokuman, I. Togashi leg; 1♀, Sept. 8, 1978, Nakahanba-ato, I. Togashi leg; 2♀♀, Jul. 28, 1983, Betto-deai and Nakahanba-ato, I. Togashi leg; 1♀, May 15, 1983, Chugu Spa, I. Togashi leg.  
This species visited on flowers of *Isodon trichocarpus* Kudo and *Codonopsis lanceolata* Trautvetter in montane region of Mt. Hakusan.
7. *Vespula austriaca* Panzer ヤドリスズメバチ\*\*  
1♀, Jul. 25, 1958 (collecting area; uncertain), K. Hori leg.
8. *Dolichovespula pacifica* Birila シロオビホオナガスズメバチ  
1♀, Sept. 8, 1978, Takahanba-ato, I. Togashi leg; 1♀, Aug. 10, 1979, Hakusan Forest Road (altitude; about 1300m), I. Togashi leg; 1♀, Jul. 27, 1982, Midagahara, I. Togashi leg.

\* 環境庁の採集許可〔許可番号：環自中許第536号（1978）、第382号（1982）、第299号（1983）〕を受けて調査したものである

\*\*The two asterisk shows a new record from Mt. Hakusan.

This species visited on flowers of *Angelica ursina* Maximowicz and *Rhododendron brachycarpum* D. Don in the subalpine region in Mt. Hakusan.



Figs. 1 and 2. Vespid wasp, *Dolichovespula pacifica* Birila. , visiting flowers. 1, Flower of *Angelica ursina* ; 2, flower of *Rhododendron fauriae*.

9. *Dolichovespula media sugare* Ishikawa キオビホオナガスズメバチ  
1♀, Aug. 17, 1973, Chugu Spa, I. Togashi leg.
10. *Dolichovespula adulterina* Buysson ヤドリホオナガスズメバチ\*\*  
1♀, Jul. 10, 1971, Takahanba-ato (?), I. Togashi leg.
11. *Vespa simillima xanthoptera* Cameron キイロスズメバイ  
1♀, Sept. 21, 1975, Mt. Rokuman, I. Togashi leg ; 1♀, Oct.27, 1975, Mt. Rokuman, I. Togashi leg ; 1♀, Sept. 20 1983, Chugu Spa, A. Mizuno leg.

According to Mr. A. Mizuno's observation, this species preyed on the adults of *Vespula schrenckii*, in the autumn.

12. *Vespa crabro flavofasciata* Cameron モンスズメバチ\*\*  
1♀, May 6, 1982, Ichirino, Okuchi mura, A. Mizuno leg ; 1♀, May 15, 1983, Chugu Spa, I. Togashi leg ; 1♀, Aug. 9, 1983, Chugu Spa, A. Mizuno leg ; 1♂, Oct. 16, 1983, Chugu, Yoshinodani mura, A. Mizuno leg.
13. *Vespa analis insularis* Dalla Torre コガタスズメバチ\*\*  
1♀, Oct. 9, 1983, Ichirino, Okuchi mura, A. Mizuno leg.
14. *Vespa mandarinia* Smith スズメバチ  
1♀, Sep. ?, 1981, Chugu, Yoshinodani mura, A. Mizuno leg.

### Vertical distribution of Vespinae

The most species of vespid wasps were collected in montane region, but a specimen of *Vespula flaviceps lewisii* Cameron was not collected in this area. The distributional range of *Dolichovespula* spp. except for *D. media sugare* was extended from the upper part of montane region to subalpine one.

The vertical distributional range of vespid wasps except for Polistinae is shown in Fig. 3.

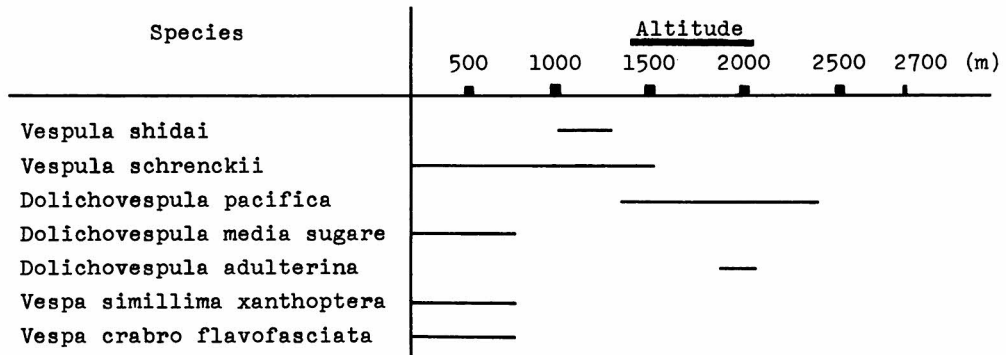


Fig. 3. Vertical distribution of some vespid wasps in Mt. Hakusan.

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## 白山産スズメバチ科昆虫

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