

Sphecidae and Chrysididae Collected by Dr. K. Baba in  
Northern Part of Japan Proper and Hokkaido,  
With Descriptions of Two New Species

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*Insects of Niigata Prefecture, Japan.*

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Recently Dr. Kintaro Baba, Kurokawa, Niigata Prefecture, sent to me for identification a considerable number of the specimens of Sphecidae and Chrysididae that he collected in Niigata, Yamagata, Akita Prefectures and Hokkaido mainly in 1977. The present paper is the list of the species of the collection, including the descriptions of one new species of Crabroninae and one new species of Chrysididae.

I thank Dr. Baba for the gift of the valuable specimens.

As to the localities the following abbreviations are employed: N.: Niigata Prefecture. Y.: Yamagata Prefecture. A.: Akita Prefecture. H.: Hokkaido.

SPHECIDAE シガバチ科

1. *Isodontia nigella* (SMITH, 1856) コクロアナバチ  
1♂, Kurokawa, N., 12. viii; 1♀, Senami, N., 20. ix.
2. *Chalybion japonicum* (GRIBODO, 1883) ルリジガバチ  
1♂, Oowarino, N., 26. vi.
3. *Ammophila sabulosa nipponica* TSUNEKI, 1967 サトジガバチ  
1♂, Murakami, N., 24. v. 1969; 1♂, Ogashi, Mt. Kampu, A., 18. vii. 1978;  
1♂, Wakkanai, H., 7. vii.
4. *Hoplammophila aemulans* (KOHLE, 1901) ミカドジガバチ  
1♀, Kurokawa, N., 5. x. 1978.
5. *Trypoxylon figulus yezo* TSUNEKI, 1956 エゾジガバチモドキ  
1♀, Oowarino, N., 26. vi.
6. *Trypoxylon fronticorne japonense* TSUNEKI, 1956 ヒメジガバチモドキ  
1♂, Tsuchitaru, N., 27. viii.
7. *Argogorytes mystaceus grandis* (GUSSAKOVSKIJ, 1933) オオアワフキバチ  
1♀, Wakkanai, H., 8. vii.
8. *Psen (Psen) affinis* GUSSAKOVSKIJ, 1937 ヤマブセン  
1♀, Mt. Monnai, Mts. Iide, N., 7. viii.
9. *Psen (Psen) seminitidus bettoh* TSUNEKI, 1977 ベットウブセン

- 1♂, Atsumi Spa, Y., 24. vii.
10. *Psen* (*Psen*) *takanensis* TSUNEKI, 1978 タカミネプセン  
1♀4♂, Mt. Monnai, Mts. Iide, N., 7. viii.
  11. *Psen* (*Mimumesa*) *atratinus longulus* GUSSAKOVSKIJ, 1937 サメシマプセン  
1♂, Wakkanai, H., 5. vii.
  12. *Psen* (*Mimesa*) *lutarius japonicus* (PÉREZ, 1905) コブプセン  
1♂, Wakkanai, H., 5. vii.
  13. *Psenulus carinifrons iwatai* GUSSAKOVSKIJ, 1934 キアシマエダテ  
1♂, Shidaihana, N., 10. ix.
  14. *Psenulus rubricus* (PÉREZ, 1905) ペレーマエダテ  
2♂, Mt. Chokai, Kisakata-machi, A., 6. vii; 1♀, Atsumi Spa, Y., 24. vii;  
1♀2♂, Mt. Monnai, Mts. Iide, N., 7. viii; 1♀, Renge Spa, N., 29. vii.
  15. *Pemphredon* (*Cemonus*) *diervillae* IWATA, 1933 アバタアリマキバチ  
2♀, Kurokawa, N., 17. 23. ix.
  16. *Pemphredon* (*Cemonus*) *lethifer* (SHUCKARD, 1837) オオグシアリマキバチ  
1♀, Kurokawa, N., 17. ix; 4♂, Wakkanai, H., 5. 6. vii.
  17. *Pemphredon* (*Cemonus*) *inornatus* SAY, 1824 アイヌアリマキバチ  
1♀1♂, Wakkanai, H., 6. vii.
  18. *Passaloecus clypealis* FAESTER, 1947 ヒメイスカバチ  
1♀1♂, Nakatonbetsu, H., 8. vii.
  19. *Carinostigmus filippovi* (GUSSAKOVSKIJ, 1934) オオエンモンバチ  
1♂, Tsuchitaru, N., 27. viii.
  20. *Cerceris arenaria* (LINNAEUS, 1758) キスジツチスガリ  
4♀8♂, Senami, N., 26. viii; 8, 9, 10, 11, 13, 20. ix.
  21. *Cerceris hortivaga* KOHL, 1880 ツチスガリ  
1♀, Mt. Komagatake, Tazawako-machi, A., 6. vii.
  22. *Ectemnius* (*Metacrabro*) *irridifrons* (PÉREZ, 1905) シロスジギングチ  
1♂, Mt. Chokai, Kisakata-machi, A., 6. vii.
  23. *Ectemnius* (*Hypocrabro*) *schlettereri* (KOHL, 1888) イワタギングチ  
1♀, Senami, N., 11. ix; 1♂, Wakkanai, H., 8. vii.
  24. *Ectemnius* (*Hypocrabro*) *continuus* (FABRICIUS, 1804) ナミギングチ  
1♂, Tsuchitaru, N., 27. viii; 1♂, Oguni-machi, Y., 13. vi; 1♂, Wakkanai, H., 5. vii.
  25. *Ectemnius* (*Hypocrabro*) *radiatus* (PÉREZ, 1905) ミズホギングチ  
2♂, Is. Rishiri, H., 9. viii.
  26. *Ectemnius* (*Clytochrysus*) *cavifrons* (THOMSON, 1870) クボツギングチ  
1♂, Oguni-machi, Y., 13. vi.
  27. *Crossocerus* (*Cuphopterus*) *hakusanus* TSUNEKI, 1954 ハクサンギングチ  
1♂, Mt. Monnai, Mts. Iide, N., 7. viii.
  28. *Crossocerus* (*Ainocrabro*) *aino* (TSUNEKI, 1947) アイヌギングチ

2♂, Renge Spa, N., 29. vii.

29. *Crossocerus* (*Blepharipus*) *cetratus* (SHUCKARD, 1837) ヒラアシギングチ

1♀3♂, Oguni-machi, Y., 10. vi.

30. *Crossocerus* (*Blepharipus*) *babai* sp. nov. ババギングチ

♂. 6 mm. Characteristic in having the antennal flagellum fringed with curved pubescence beneath and gastral sternite 7 provided with a pair of hooks and a median V-shaped swelling (Fig. 1), but with the collar of pronotum not constricted across middle.

Black; antennal joint 1 at base beneath ferruginous, mandible apically dusky red, palpi castaneous brown, fore tibia dark brown, ferruginous in front, with a large elongate lemon yellow mark on it, fore tarsus dark brown, paler beneath, mid tibia with a dusky white spot at base, hind tibia narrowly white at base, tibial spurs all ferruginous, hind basitarsus also ferruginous towards base. Hair on clypeus silvery, pubescence on vertex and frons long, sparse and brownish, on dorsum of thorax similar, but somewhat shorter, femora considerably pubescent beneath, fore and mid tibiae covered with a tuft of whitish pubescence beneath, somewhat longer apically.

Head in frontal view wider than long ( $W:L=4:3$ ), with sides gently roundly convergent below, in dorsal view  $W:L=3:2$  ( $L$  at eye), temples roundly convergent posteriorly, occipital margin roundly emarginate,  $OOD:POD=3:2$ , ocelli in an equilateral triangle, top angle smaller than  $90^\circ$ , frontal impressions distinctly outlined, located along eye, longer than  $POD$ , frontal furrow fine but distinct, anteriorly near verge to anterior inclination deeper and broader, relative length of antennal scape, clypeus in middle and interocular distance at base of antennae appr. 15, 10 and 9, antennal sockets contiguous to eyes and to each other, scape unicarinate in front, joint 3 seen from above 1.7 times as long as wide at apex, relative length of joints 3, 4, 5 appr. 10, 7, 6, ultimate joint roundly ended at apex; collar of pronotum short, latero-apical margins gently rounded, sides without incision, dorsum weakly, flatly raised towards middle,

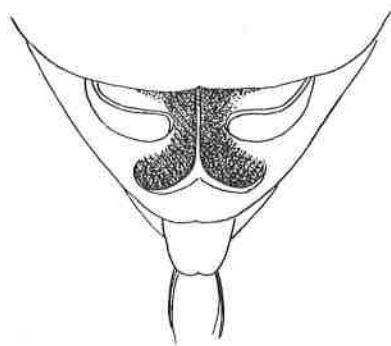


Fig. 1. *Crossocerus babai* sp. nov., ♂, sternite 7.

transverse furrow deep, crossing slightly behind middle, mesoscutum with medio-anterior area inclined medially and on each side of the depression with a minute raised spot, medio-posterior area acutely inclined to scuto-scutellar furrow, mesopleuron without precoxal tooth or elevation, propodeum at each side of posterior inclination separated from the side with a distinct longitudinal carina, area dorsalis incompletely enclosed with shallow weak furrow, the furrow quite obscure on medial area of each side, while the medial furrow deep, acutely outlined and coarsely crenate with a few foveae, it continued to medial deeper and broader furrow of posterior inclination which is narrowed apically and on apical  $\frac{2}{3}$  replaced with an acute keel, the area enclosed with the keel and lateral carina forming a large round depression. Gastral segment 1 appr. as long as wide at apex, medio-basally with a deep triangular impression, sternite 1 excavated with an obscurely outlined large impression on each side of medial elevation, tergite 7 without pygidial area, but medianly longitudinally shallowly impressed, sternite 2 with a transverse elevation at base, sternite 7: Fig. 1, black area of medial elevation in the figure is an inclination to each side. Relative length of abscissae of veins of fore wing: 1 and 2 of radial vein 10: 7, of cubital vein 15: 11, transverse radial and transverse cubital veins 6: 5 (under the same scale).

Vertex and upper frons finely sparsely punctured, punctures on ocellar area finer and closer and anteriorly at verge to anterior inclination larger and closer; mesoscutum finely and sparsely punctured, punctures on antero-lateral areas slightly closer, on medio-anterior depressed area stronger and closer, medio-posterior depression obscurely longitudinally striate; propodeum strongly coarsely foveolate at base, lateral areas along lateral carinae transversely rugoso-punctate and -striate, posterior inclination posteriorly transversely rugoso-striate; gaster impunctate, smooth and shining, but posteriorly weakly punctured.

♀, unknown.

Holotype: ♂, Wakkanai, Hokkaido, 6. vii. 1977. K. Baba leg. (Coll. Tsuneki).

31. *Crossocerus* (*Crossocerus*) *denticrus* (HERRICH-SCHAEFFER, 1841) トゲアシギングチ  
1 ♀, Nakatonbetsu, H., 8. vii.
32. *Rhopalum* (*Latrorhopalum*) *latronum* (KOHLE, 1915) クロギングチ  
1 ♂, Mitsumata, Yuzawa, N., 19. vi; 1 ♂, Wakkanai, H., 6. vii; 1 ♀, Is. Rishiri, H., 9. vii.
33. *Oxybelus strandi* YASUMATSU, 1935. ヤマトトゲアナバチ  
2 ♂, Senami, N., 14. ix. 1976.

#### CHRYSIDIDAE セイボウ科

34. *Stilbum cyanurum pacificum* LINSSENMAIER, 1935 オオセイボウ  
1 ♀, Senami, 13. vii. 1978.
35. *Chrysis* (*Chrysis*) *ignita* (LINNAEUS, 1761).

1 ♀, Akinomiya Spa, Okachi-machi, A., 8. vi. 1978.

36. *Hedychrum simile aeneous* TSUNEKI, 1970 セイドウマルセイボウ  
3 ♂, Senami, N., 10. 10. 20. ix.

This species is very rare in Japan, hitherto known only from Chiba, Utsunomiya and Iwate, each by one specimen alone and the male has remained unknown. The present males are less bronzy in colour as compared with the female, but not so bright greenish blue as in the Continental nominate form. Long ago I observed in Chiba that a female of this species crept out of the nest of *Cerceris arenaria* L. On the same dates as regarding the present species Dr. Baba collected a number of *Cerceris arenaria*, possibly at the same place, as recorded earlier in the present paper. Judging from the fact the present species is here also parasitic on the nest of the *Cerceris*. In Korea I once collected many specimens of males and females of the nominate form of the present species at the road side where a host of the *Cerceris* were nesting. These facts suggest that *Hedychrum simile* is constantly parasitic on *Cerceris arenaria*.

37. *Omalus aeneous japonicus* (BISCHOFF, 1910) ムネツヤセイボウ

1 ♀, Tsuchitaru, N., 27. viii.

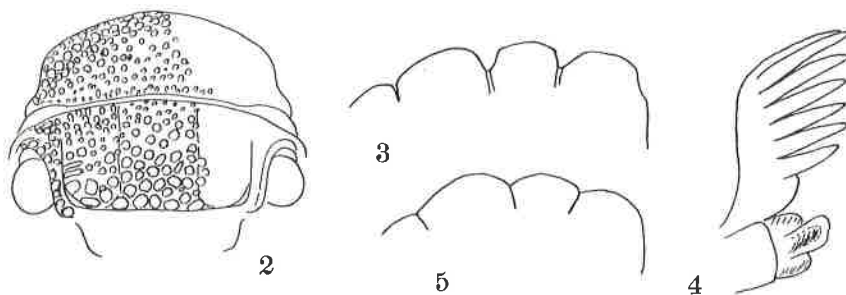
38. *Omalus punctatus* (UCHIDA, 1927) ホシツヤセイボウ

1 ♀, Kurokawa, N., 22. vii. 1978.

39. ***Omalus babai* sp. nov.** リシリツヤセイボウ

♂, 5.5 mm. Closely resembling *O. punctatus* (UCHIDA), but is different from this in the grades of elevation of mesoscutum, scutellum and postscutellum and in the punctation of posterior vertex and pro- and mesonota.

Brilliant bluish green, variegated with copper-golden lustre on parts of vertex, postero-lateral areas of pronotum, sides of mesoscutum, top areas of scutellum and postscutellum and latero-posterior parts of tergite 1; mesoscutum except sides and medio-



Figs. 2-4. *Omalus babai* sp. nov., ♂.

Fig. 5. *Omalus punctatus* (UCHIDA), ♂.

2: Punctures on pro- and mesonota. 3 and 5: Dorsal surface of thorax-complex seen from left side. 4: Tarsal claw.

posterior area, top areas of scutellum and postscutellum blackish, disc of tergite 2 dark purplish. Hair on vertex long and whitish, on thorax also long, but sparser and more greyish.

In structure of head similar to *punctatus*, W:L in frontal view 5:3, scapal hollow (facial basin) very deep, head seen from above with W:L at side appr. 2:1, in middle appr. 3:1, ODD:POD=4:3 (in *punctatus* 1:1), dorsal outline of thorax-complex in lateral view: Fig. 3, in *punctatus*: Fig. 5, medio-apical incision of tergite 3 similar. Claws of legs (Fig. 4) more numerous pectinate (6-7 in one claw) than in the compared species (3-4 in one claw).

Impunctate area on posterior part of vertex narrower, from ocellar area posteriorly finely and irregularly rugoso-punctate, upper temple not longitudinally striated as done in *punctatus*, but reticulated; punctuation on pro- and mesonota: Fig. 4, without smooth and sparsely punctured or striated area anywhere (as present in *punctatus*). Ground pattern of punctuation on gaster similar, but punctures comparatively somewhat larger.

♀, unknown.

Holotype: ♂, Hokkaido, Is. Rishiri, 9. vii. 1977, K. Baba leg. (Coll. Tsuneki).

Remarks. In punctuation the present species is somewhat similar to *Omalus itami* m. collected in Niigata Prefecture, but is much larger, with scuto-scutellar and postscutellar furrows are markedly deeper, postscutellum much more highly raised and claws of legs more numerous pectinate.

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