[Jap. J. Sanit. Zool. Vol. 28 No. 2 p. 153~155 1977]

Description of *Haematopota shinonagai* n. sp. from Honshu Island, Japan (Diptera, Tabanidae)

Hirofumi HAYAKAWA*

Tohoku National Agricultural Experiment Station,
Morioka-city, Iwate Prefecture 020-01, Japan

(Received : December 6, 1976)

Abstract : *Haematopota shinonagai*, a new species is described from the central part of Honshu Island, Japan. Long cylindrical scape of antennae, much broader frons, irregularly shaped side marks and oblong basal callus on frons, paler scutellum, as well as glossy dark brown abdomen without any markings are the main characteristic features of this species.

At the foot of Mt. Shirouma in Nagano Prefecture, Dr. S. Shinonaga captured an unknown *Haematopota*-species of Tabanidae which attacked him during his collection tour in the summer of 1970. This species has unique morphological features compared with other related tabanids. Although only one specimen has been available so far, I dare report it as a new species. The present species was named after Dr. S. Shinonaga, its collector. The male flies and immature stages are still unknown.

Haematopota shinonagai n. sp.

Female (Figs. 1 and 2): Length 11 mm.

A small dark brown species. Antennae dark brown to black, reddish brown on basal segment of flagellum. Frons much broader. Paired velvety spots on frons irregularly shaped. Median spot spindle-like. Basal callus shiny black, oblong. Scutellum pale brown. Abdomen glossy dark brown without any stripes or spots.

Head broader than thorax. Eyes bare, black in dried specimen. Ocellar tubercle absent. Frons broader than one-third the width of head, slightly narrowed above, light grey pollinose with short black hairs. Vertex somewhat depressed, with more or less large darken area. Paired velvety black

spots irregularly shaped, narrowly separated from basal callus and eye-margins. Median black spot clearly marked, spindle-like. Basal callus shiny black, oblong, occupying lower one-third of frons and touching eye-margins at lower sides; short projections upwards at middle and at upper sides. Subcallus small, shiny black with black pollinose spot at middle; light brownish rims to antennal pits. Face and cheeks light grey pollinose, covered mostly with dense whitish hairs and intermixed with sparse black hairs; cheeks speckled with small black dots to upper margins.

Antennae dark brown to black, slender, longer than the length of head. Scape and pedicel shiny black with short black hairs; scape cylindrical with shallow constriction before upper tip, about three times as long as broad; pedicel small, cup-like. Basal segment of flagellum reddish brown pollinose as long as scape, compressed, narrower, than scape, tapering towards apex with a few black hairs at upper and lower margins of basal one-third. Stylus black, composed of three annulations, some black hairs also visible on them. Maxillary palpus as long as proboscis, greyish brown; first segment small, covered with long whitish hairs; second segment slender, more than three times as long as subbasal width, mostly with short black hairs, and mixed with whitish hairs basally.

* 早川博文：農林省東北農業試験場（〒020-01 岩手県盛岡市下厨川赤平 4）

Fig. 1 *Haematopota shinonagai* n. sp. (female) Fig. 2. *Haematopota shinonagai* n. sp. (female)
a. frons; b. antenna; c. palpus

Thorax longer than broad. Scutum dark brown, covered with short golden hairs; three pale vertical stripes present, ending just

behind transverse suture; supraalar stripes not especially broader; pale area adjacent to scutellum. Scutellum with pale patch. Humeral calli greyish brown pollinose, covered with golden hairs. Pleura and sternum light grey with whitish hairs. Fore coxae light grey basally with whitish hairs, brownish with black hairs apically.

Wings as long as body length, brown, speckled with white spots. Apical band single, spot-like, only across vein R_4 ; rosette-shaped arrangements clear; hind margin of wing without pale triangle. Pterostigma distinct, brown. Veins brown; vein R_4 with appendix. Halteres brown with paler stem.

Legs: Femora reddish brown, mostly black haired, and mixed with whitish hairs. Fore tibiae whitish on basal one-third; the rest of fore tibiae and tarsi black. Middle and hind tibiae brown with two whitish rings; the basal ring large and clear, covered with black hairs except paler area.

Metatarsi paler; the rest of tarsi dark brown with black hairs.

Abdomen rather elongate in shape, glossy dark brown in ground color, without any mid-dorsal stripes on sublateral spots, but tergite 2 and 3 faintly pale brown at posterior sides. Pubescence black. Venter brown with inconspicuous paler hind margins on all sternites, covered mostly with black hairs.

Male: Unknown.

Type: Holotype; ♀, Mt. Shirouma, Hakuba-mura, Nagano Prefecture, 16-17 Aug. 1970, (collected by a fly net), S. Shinonaga leg. Holotype was preserved in the National Science Museum in Tokyo.

Distribution: Honshu Island, Japan. This species seems to occur at the alpine regions of central Honshu.

Remarks: This species is closely related to *H. toyamaensis* (Watanabe *et al.*, 1976), *H. nagashimai* (Hayakawa and Takahasi, 1976) and *H. rufipennis* (Bigot, 1891) in its general features. However, *H. shinonagai* can be distinguished easily from *H. toyamaensis* and *H. nagashimai* by its irregularly shaped side marks and spindle-like middle spot on frons, and also from *H. rufipennis* by its slightly constricted antennal scape and glossy blackish abdomen without and markings. Frons of *H. shinonagai* is quite similar with *H. rufipennis*, but in the latter frons narrower, middle spot circular or diamond-shaped, and under margin of basal callus without incisions.

ACKNOWLEDGEMENTS

Gratitude is expressed to Professor M. Otsuru of Department of Medical Zoology, Niigata University School of Medicine for supervising this work, and to Dr. S. Shinonaga of Department of Medical Zoology, Tokyo Medical and Dental University for furnishing me with his collected specimen. Thanks also due to Dr. H. Takahasi in Nerima-ku, Tokyo for his helpful suggestions in identification and for reading the manuscript.

REFERENCES

- Bigot, J. M. F. (1891): Dipteres nouveaux ou peu connus. *Soc. Zool. de France Bul.*, 16: 74-79.
- Hayakawa, H. and H. Takahasi (1976): Description of *Haematopota nagashimai* n. sp. from Honshu Island, Japan (Diptera, Tabanidae). *Jap. J. Sanit. Zool.*, 27 (3): 223-226.
- Watanabe, M., K. Kamimura and H. Takahasi (1976): Description of a new *Haematopota*-species, *H. toyamaensis* n. sp. (Diptera, Tabanidae), from Japan. *Kontyû, Tokyo*, 44 (1): 73-76.

摘 要

アブの1新種 *Haematopota shinonagai* シノナガゴマフアブの記載

長野県白馬山麓で採集された標本について、新種 *Haematopota shinonagai* を記載した。長い円筒形の触角基節、かなり広い眼間区、不正形の額側斑、長方形の下額瘤、灰褐色の小たて板、および斑紋のない光沢を帯びた黒褐色の腹部などが本種を区別する特徴点である。本種名は採集者の篠永哲博士に献名したものである。