

## STUDIES ON THE LYGAEIDAE VIII. THE NEW SPECIES OF THE GENUS *DIEUCHES* FROM JAPAN\*

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The genus *Dieuches* Dohrn, 1860, is widely distributed in the Palaearctic, Oriental, Australasian, and Ethiopian Regions. In Japan only one species belonging to the present genus, *Dieuches dissimilis* was described by W. L. Distant (Trans. Ent. Soc. London, 1883: 438). The writer could examine the five *Dieuches* species among the materials collected by Japanese entomologists for the last eighty years. In the present paper I describe two new species and record two unrecorded ones from Japan.

The type specimens described here are kept in the collection of the Entomological Laboratory, Kyushu University.

### Acknowledgments

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### *Dieuches dissimilis* Distant, 1883

(Jap. name: Chamon-nagakamemushi)

- 1883 *Dieuches dissimilis* Distant, Trans. Ent. Soc. London, 1883: 438.  
1894 *Dieuches dissimilis*: Lethierry et Sev., Gen. Cat. Hem., 2: 219.  
1906 *Dieuches dissimilis*: Oshanin, Verz. Paleark. Hem., 1: 363.  
1952 *Dieuches dissimilis*: Esaki, Icon. Ins. Jap.: 229, fig.

### Specimens examined.

(Hokkaido). Jozankei, 30. vi. 1958 (S. Miyamoto leg.); Kurasawa, Hikawamura, 11. vi. 1939 (H. Hasegawa leg.); Hakodate, 13. vii. 1955 (M. Ohno leg.).

(Honshu). Yunomata, Ohata-machi, Shimokita Penn., 20. vii. 1956 (K. Morimoto leg.), viii. 1957 (T. Saigusa leg.); Daimonzawa, Kai, 31. vii. 1959 (Y. Miyatake leg.); Zushi, Sagami, 2. vi. 1951 (S. Yamamoto leg.); Jinmuji, Kanazawa, 28. v. 1939 (H. Hasegawa leg.); Kamiyama, Hakone, 19. vi. 1938 (M. Higashino leg.); Takosan, 5. vii. 1949 (S. Kato leg.), 8. vii. 1956 (K. Morimoto leg.); Sendai, 25. vi. 1944 (H. Ha-

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segawa leg.); Doryosan, Prov. Sagami, 31. iii. 1942 (M. Kubota leg.); Hikawa, Okutama, 12. v. 1950 (M. Takahashi leg.); Shirahone, Shinshu, 18. vii. 1956 (S. Kimoto leg.); Koya, Prov. Kii, 8. vi. 1952, 3. vi. 1957 (S. Goto leg.); Osugidani, Prov. Kii, 13. vi. 1952 (T. Nakane leg.); Ikube, Minoo, 2. vi. 1958 (K. Takeuchi leg.); Mt. Hoki-Daisen, Tottori Pref., 1. vi. 1955 (S. Kimoto leg.).

(Shikoku). Sugitate near Matsuyama city, 1. vii. 1953 (K. Sasaki leg.); Omogokei, 17. vii. 1950 (T. Edashige leg.).

(Kyushu). Wakasugiyama, Fukuoka Pref., 8. vi. 1956, 31. v. 1959, 2. vi. 1960 (S. Miyamoto leg.), 13. v. 1959 (T. Hidaka leg.); Inunakiyama, Prov. Chikuzen, 7. vi. 1934 (Nomura, Kawahara, Fujino and Yasumatsu leg.), 19. vi. 1957, 10. vii. 1958 (T. Hidaka leg.); Hikosan, Prov. Buzen, 19. v. 1945 (Esaki, Tokunaga, and Ito leg.), 9. v. 1957 (T. Hidaka leg.); Kumado, Yame-gun, Fukuoka Pref., 17. viii. 1959 (Y. Miyake leg.); Mt. Takachiho, Miyazaki Pref., 23. vii. 1958 (K. Kashima leg.).

Distribution: Japan (Hokkaido, Honshu, Shikoku and Kyushu).

#### **Dieuches femoralis** Dohrn, 1860

- 1860 *Dieuches femoralis* Dohrn, Stett. Ent. Zeit., 21: 405.  
 1872 *Rhyparochromus anticus* Walker, Cat. Het., 5: 100.  
 1872 *Rhyparochromus siamicus* Walker, Cat. Het., 5: 102.  
 1889 *Dieuches alternatus* Horváth, Termész. Füzetek, 1889: 36.  
 1904 *Dieuches femoralis*: Distant, Faun. Brit. India, Rhynchota, 2: 84.  
 1960 *Dieuches femoralis*: Miyamoto and Hidaka, Kontyû, 28: 46, fig.

#### Specimens examined.

(Tokara Is.). Nakanoshima, 3-13. vi. 1953 (T. Nakane leg.), 6. vii. 1960 (M. Sato leg.); Takarajima, 26. v. - 1. vi. 1953 (S. Ueno and S. Miyamoto leg.).

(Amami-Oshima). 11. iii. 1958 (M. Takahashi leg.).

(Yakushima). Ambo, 15. vii. 1950 (T. Shirozu leg.); Onoaida, 10. ix. 1962 (T. Hidaka leg.).

(Kyushu). Unagi, Kagoshima Pref., 20. x. 1955 (N. Gyotoku leg.).

(Shikoku). Okinoshima, 27-30. vi. 1955 (M. Okabe leg.).

(Honshu). Wakayama city, 10. viii. 1961 (S. Gotoh leg.).

Distribution: Japan (Honshu, Shikoku, Kyushu, Yakushima, Tokara Is., and Amami-Oshima) and Ryukyus.

#### **Dieuches punctipes** Dohrn, 1860

- 1860 *Dieuches punctipes* Dohrn, Stett. Ent. Zeits., 1860: 405.  
 1872 *Rhyparochromus testaceipes* Walker, Cat. Het., 5: 101.  
 1901 *Dieuches punctipes*: Distant, Ann. Mag. Nat. Hist., (7) 8: 504.  
 1904 *Dieuches punctipes*: Distant, Faun. Brit. Ind., Rhynchota, 2: 84.

#### Specimens examined.

(Tokara Is.). Nakanoshima, 6. vii. 1960 (M. Sato leg.).

(Amami-Oshima). Naze, 27. vii. 1954 (S. Miyamoto and Y. Hirashima leg.).

(Kyushu). Mogi near Nagasaki city, 12. iii. 1958 (Y. Ikezaki leg.); Kushima, Miyazaki Pref., 1. iv. 1959 (T. Nagatomo leg.).

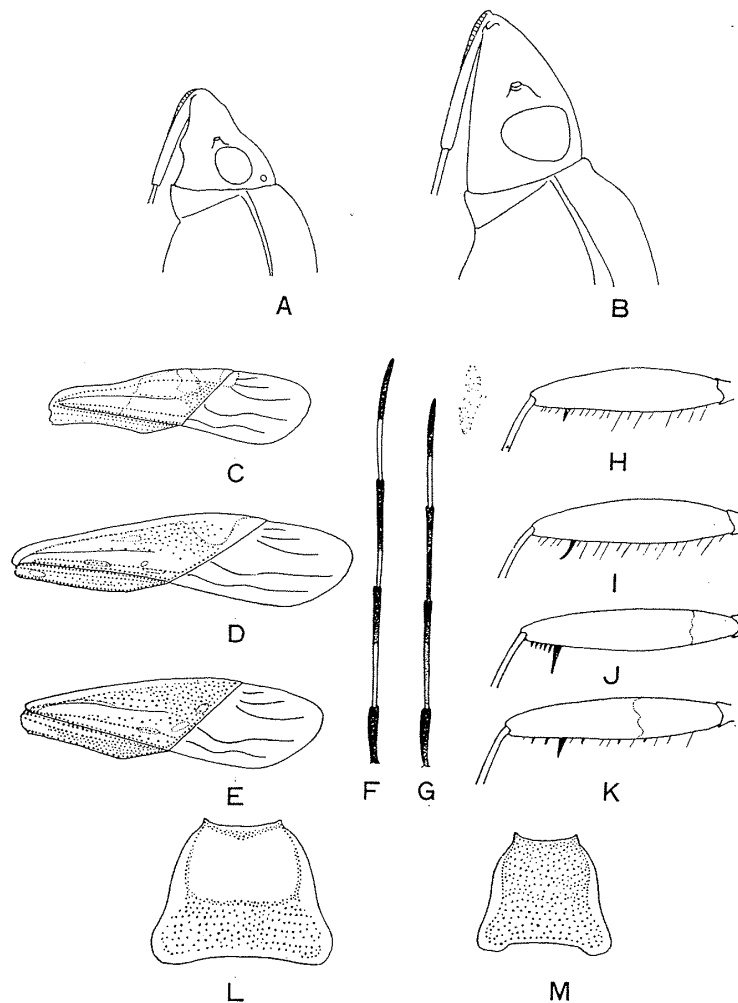
Distribution: Japan (Kyushu, Tokara Is., and Amami-Oshima) and Ceylon.

**Dieuches uniformis** Distant, 19041904 *Dieuches uniformis* Distant, Faun. Brit. India, Rhynchota, 2: 84-85.

Specimens examined.

(Tokara Is.). Nakanoshima, 3-13. vi. 1953 (S. Miyamoto leg.).

(Kyushu). Takamiya, Fukuoka city, 23-24. viii. 1957 (S. Miyamoto leg.); Fukuoka city, ix. 1956 (S. Miyamoto leg.); Aburayama, Fukuoka city, 20. x. 1957 (S. Mi-

Fig. 1. *Dieuches* species of Japan.

- A-B. Heads and prothoraces (lateral view); A. *D. tsutsuii* sp. nov., B. *D. femoralis*.  
 C-E. Fore wings; C. *D. tsutsuii* sp. nov., D. *D. punctipes*, E. *D. uniformis*.  
 F-G. Antennae; F. *D. punctipes*, G. *D. femoralis*.  
 H-K. Fore femora; H. *D. fuscous* sp. nov., I. *D. uniformis*, J. *D. femoralis*, K. *D. punctipes*.  
 L-M. Pronota; L. *D. tsutsuii* sp. nov., M. *D. dissimilis*.

yamoto leg.); Hikosan, Prov. Buzen, 22-23. viii. 1961 (S. Miyamoto leg.).

(Honshu). Rokko, Kobe, 18. iv. 1953 (E. Nakanishi leg.); Chitosefunabashi, Tokyo, 13. vii. 1958 (K. Tanaka leg.).

Distribution: Japan (Honshu, Kyushu and Tokara Is.) and Ceylon.

***Dieuches tsutsui* sp. nov. (Fig. 1, A, C, D)**

(Female). Head, anterior lobe of pronotum, scutellum, thorax, and membrane black; antennae, legs, posterior lobe of pronotum, hemelytron, and abdomen blackish brown; the fourth antennal segment luteous (except the extreme base); apical two-thirds of lateral margins of pronotum, rostrum, tarsi, basal one-third of corium light yellowish; fore and middle tibia light brown.

Head wrinkled on the disc, pubescent and wider than long; central lobe of head prominently produced anteriorly; head beneath strongly concave at basal one-third, apex of rostrum reaching hind coxae, the first segment slightly longer than third, the second the longest, the fourth the shortest; antennae slender, the proportional lengths of the antennal segments I:II:III:IV = 3.0:4.6:3.8:3.5; pronotum wider than long (6.5:5), anterior lobe impunctate except apical margin and the sides (inside the explanate lateral margins), posterior lobe absolutely punctured and weakly convex at median part; scutellum punctured; apex of hemelytron not extending to tip of abdomen; fore femur swollen with a large spine and a several small spines before a large spine.

(Male). Unknown.

Length of body: female 7.2 mm.

Original locality: Japan (Honshu and Shikoku).

Holotype ♀, Mt. Gomadan, Wakayama Pref., 3. viii. 1957 (Y. Tsutsui leg.).

Paratype ♀, Omogokei, Ehime Pref., Shikoku, 25. vii. 1947 (T. Koyama leg.).

This new species is different from *Dieuches dissimilis* of Japan in having the body larger, the fourth antennal segment luteous (except the extreme base), legs dark brown, tarsi yellowish, basal one-third of corium luteous, clavus dark brown; anterior femur with several small spines before a large spine; anterior lobe of pronotum impunctate.

***Dieuches fuscous* sp. nov. (Fig. 1, H)**

(Female). Body black; antennae, rostrum, legs, the explanate lateral margins of pronotum, costal margins, connexivum light yellowish; apical portion of the first antennal segment and all femora, apical segment of rostrum black; apices of all tibiae light brown; apical margin of pronotum, two longitudinal, narrow bands on posterior pronotal lobe, apex of scutellum, two spots on the disc of scutellum, inner margin (apex of scutellum to apex of clavus) yellowish brown; posterior two-thirds of lateral margins of posterior lobe of pronotum black.

Head strongly declivous towards apex, pubescent, slightly wider than long; antennae slender, the proportional lengths of the antennal segments I:II:III:IV = 2.1:3.5: missing; rostrum short, the first segment not reaching the base of head, apex extending before middle coxae; the first segment as long as second, third as long as the fourth which is shorter than the first; pronotum distinctly wider than long (3.5:5.5), posterior margin of pronotum nearly straight, apex of hemelytra

not extending tip of abdomen.

(Male). Unknown.

Length of body: female 8.5 mm.

Original locality: Japan (Honshu).

Holotype ♀, Araiike, Fukuroi, Shizuoka Pref., 1.viii.1950.

This new species is allied to *Dieuches uniformis* Distant from Ceylon, but it is distinguished by the following characters; antennae, legs light yellow; apical one-third of all femora black; apical margin of corium without two spots; head and pronotum declivous towards apex; pronotum wider than long; fore femur with a large spine which is smaller than that of *D. uniformis*; rostrum short and extending before middle coxae.

#### Key to species of the genus *Dieuches*

1. Head beneath strongly or weakly concave at median portion; clavus with three punctate rows ..... 2  
     Head beneath smooth without concavity at median portion; clavus with irregular punctate rows ..... 3
2. Antennae dark brown but the fourth antennal segment luteous; anterior lobe of pronotum impunctate; hemelytron dark brown, apical one-third of corium light yellow ..... *Dieuches tsutsui* Hidaka  
     Antennal segment light brown but the third and fourth dark brown; pronotum punctate; hemelytron light yellow, apical half of corium and inner margin of clavus brown, shining ..... *Dieuches dissimilis* Distant
3. Corium with a large spot near the apex ..... 4  
     Corium without a spot near the apex ..... 5
4. Fourth antennal segment as long as second segment which is shorter than third; apical halves of all femora black ..... *Dieuches punctipes* Dohrn  
     Second antennal segment the longest, third subequal in length to fourth; apical two-thirds of all femora black ..... *Dieuches femoralis* Dohrn
5. Antennae light yellow; corium dark brown; rostrum short, extending before middle coxae; head strongly declivous towards apex; fore femur with a somewhat large spine; pronotum wider than long .....  
     ..... *Dieuches fuscous* Hidaka  
     Antennae dark brown; apical margin of corium with two spots; rostrum extending middle coxae; head not declivous towards apex; fore femur with a large, curved spine; pronotum as wide as broad .....  
     ..... *Dieuches uniformis* Distant

#### 新 著 紹 介

井上 寛, 1963. 国際動物命名規約とその解説. ii + 59 頁, 日本鱗翅学会発行.

本誌 vol. 30, no. 1, p. 29 で紹介された International Code of Zoological Nomenclature adopted by the XV International Congress of Zoology, London が, 井上 寛氏の邦訳と解説で, 日本鱗翅学会から発行された. 惜しむらくは全訳でないが, 処々に適切な解説がみられ, 訳文や新訳語にも苦心のあとがうかがえる. しかし“解説”と表題にうたう以上は, もう少し全般につつこんだ解説がほしい.  
 (編集子)