

## Taxonomic Studies on the Subfamily Osoriinae (Coleoptera, Staphylinidae) from Japan, VI

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**Abstract** The genera *Eleusis* Laporte, *Zeoleusis* Steel, *Clavilispinus* Bernhauer, *Tetrapleurus* Bernhauer, *Thoracophorus* Motschulsky and *Mimogonellus* Fagel are treated. Two new combinations are proposed here as follows: *Mimogonellus japonicus* (Naomi) and *Mimogonellus yasutoshii* (Naomi), both removed from *Saegerius*. Three following species are first discovered from Japan: *Eleusis quadridens* Fauvel from Amami Is., *Zeoleusis fusciceps* (Kraatz) from Okinawa Is. and Iriomote Is. and *Tetrapleurus parallelus* Bernhauer from Ishigaki Is., and their head, pronotum and elytra are illustrated. A key to Japanese species of the genus *Eleusis* is provided.

**Key words:** Coleoptera, Staphylinidae, Osoriinae, new combination, new record, Japan.

In this series of papers I intend to clarify the Japanese fauna of the subfamily Osoriinae. I had studied the tribe Osoriini (Naomi, 1986, 1987) and the tribe Leptochirini (Naomi, 1996), and I am separately studying the subtribe Lispinina (Naomi, 1997a, b). Therefore, I treat the remaining groups of the subfamily Osoriinae in this paper: tribe Eleusinini (*Eleusis* Laporte and *Zeoleusis* Steel) and subtribe Clavilispinina (*Clavilispinus* Bernhauer) and subtribe Thoracophorina (*Tetrapleurus* Bernhauer and *Thoracophorus* Motschulsky). In addition, two Japanese species of the genus *Saegerius* Fagel (tribe Osoriini) in Naomi (1987) are transferred to the genus *Mimogonellus* Fagel according to the latest information which Dr. Newton kindly gave me in the course of this study.

In this paper I followed Newton and Thayer (1992) concerning the tribal and subtribal arrangements within the subfamily Osoriinae.

### Tribe Eleusinini

#### Genus *Eleusis* Laporte

*Eleusis* Laporte, 1835, Etud. Ent., I: 131.

Type-species: *Eleusis tibialis* Laporte (by monotypy).

**Remarks.** Five species are recognized from Japan.

#### Key to Japanese species of *Eleusis*

1(2) Head longer than broad; pronotum with

two small teeth at each side (Fig. 1B) ····

·····*E. quadridens* Fauvel

2(1) Head broader than long; pronotum with one small tooth at each side.

3(4) Body yellowish red to yellow, 3.4-3.6 mm in length; eyes more strongly convex ····

·····*E. kraatzi* Fauvel

4(3) Body brown to reddish brown; eyes less strongly convex.

5(6) Body larger (4.0-4.8 mm; Fig 1A); elytra unicolorous (brown to reddish brown); sculptures on abdomen denser ······

·····*E. coarctata* Sharp

6(5) Body smaller (2.5-3.0 mm); elytra bicolorous (yellow, with apical marginal areas dark brown); sculptures on abdomen sparser ······*E. humilis* (Erichson)

#### *Eleusis quadridens* Fauvel

*Eleusis quadridens* Fauvel, 1904, Rev. d'Ent., 23: 84; Bernhauer and Schubert, 1910, Coleopt. Cat., (19): 12.

**Specimen examined.** NANSEI ISLS.: 1 ex., Maruhata, Amami Is., 22. iii. 1986, T. Ogata coll.

**Distribution.** Japan (Amami Is.); Southeast Asia.

**Remarks.** This is the first record from Japan (Fig. 1B).

#### *Eleusis coarctata* Sharp

*Eleusis coarctata* Sharp, 1889, Ann. Mag. nat.

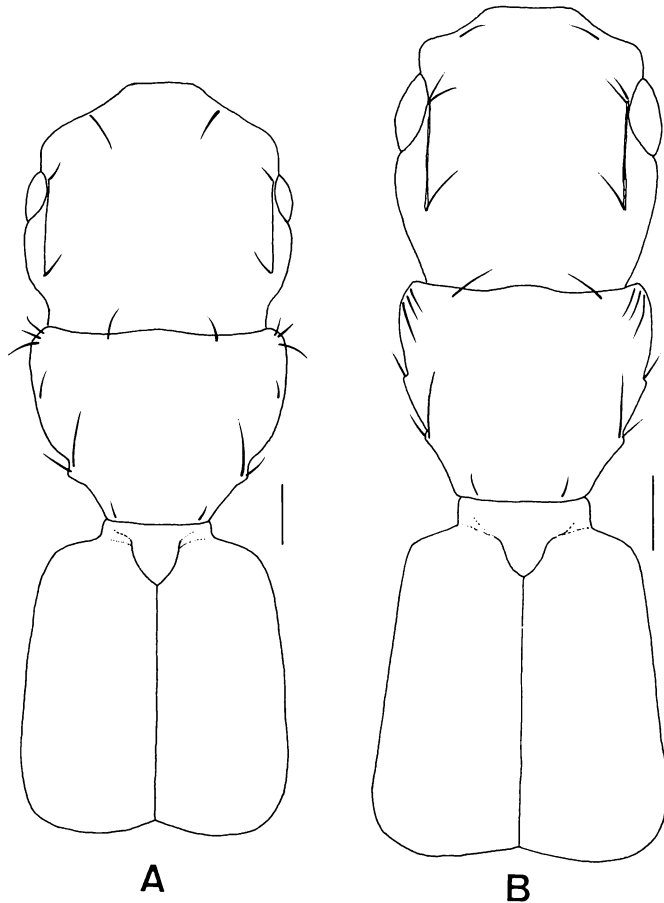


Fig. 1. A, *Eleusis coarctata* Sharp and B, *E. quadridens* Fauvel. Scale: 0.2 mm.

Hist., 6, 3: 466; Bernhauer and Schubert, 1910, Coleopt. Cat. (19): 11; Yokoyama and Adachi (Adachi), 1951, Icon. Ins. Japon. 2nd. ed., p. 987; Adachi, 1957, J. Toyo Univ., (11): 198; Nakane, 1963, Icon. Ins. Japon. Col. nat. ed., II: 81; Shibata, 1976, Ann. Bull. Nichidai Sanko, (19): 86; Watanabe, 1985, Coleopt. Jpn. Col. II: 263.

*Specimens examined.* HOKKAIDO: 3 exs., Maruyama, Sapporo-shi, 28. v. 1977, N. Nishikawa coll.; 1 ex., same locality, 2. vi. 1987, M. Sato coll.; 1 ex., Nopporo, 16. v. 1987, M. Ohara coll.; 1 ex., Toyotaki, Sapporo-shi, 31. v. 1979, T. Fujisawa coll.; HONSHU: 4 exs., Ikegahara, Oono, Fukui Pref., 26. vi. 1983, H. Sasaji coll.; 1 ex., Hinosan, Fukui Pref., 5. v. 1975, H. Sasaji coll.; 1 ex., Bushugaike, Fukui-shi, Fukui Pref., 16. vi. 1981, H. Sasaji coll.; 4 exs., Taniyama, Oono-shi, Fukui Pref., 24. v. 1982, H. Sasaji coll.;

1 ex., Kinome-toge, Fukui Pref., 25. iv. 1982, H. Sasaji coll.; 1 ex., Yashagaike, Fukui Pref., 29. iv. 1982, H. Sasaji coll.; 1 ex., Koike, Karikomi-noike, Fukui Pref., 19. vii. 1981, H. Sasaji coll.; 1 ex., Koike, Oono, Fukui Pref., 29. v. 1979, H. Sasaji coll.; 2 exs., Tamodani, Izumi-mura, Fukui Pref., 5. v. 1982, H. Sasaji coll.; 1 ex., Arashi, Fukui Pref., 9. vii. 1978, H. Sasaji coll.; 1 ex., Mt. Hyakuri, Fukui Pref., 5. v. 1979, H. Sasaji coll.; 2 exs., Daibosatsu, Yamanashi Pref., 13. x. 1985, M. Kuboki coll.; 1 ex., Omione, Kyoto Pref., 13. v. 1978, T. Ogata coll.; 1 ex., Ohdaigahara, Nara Pref., 28. vii. 1974, H. Ohishi coll.; 14 exs., Wakasugi Pass, Okayama Pref., 8. v. 1977, A. Watanabe coll.; 1 ex., Taishakukyo, Hiroshima Pref., 29. iv. 1978, H. Makihara coll.; SHIKOKU: 1 ex., Mt. Tsurugi, Tokushima Pref., 15-17. x. 1980, S. Naomi coll.; 2 exs., Mt. Hisaishi, Kochi Pref., 23. xi. 1972, T. Ogasawara coll.;

KYUSHU: 1 ex., Kahogun, Fukuoka Pref., 29. v. 1988, S. Naomi coll.; 2 exs., Mt. Kurodake, Kujyu, Ooita Pref., 21. iv. 1985, K. Konishi coll.; 1 ex., same locality, 28. iv. 1985, S. Nomura coll.; 1 ex., Sobozan, Bungo, 8. ix. 1933, K. Yasumatsu coll.; 1 ex., Okuhiratani, Saga Pref., 16. xii. 1979, S. Nomura coll.; 1 ex., Nogochi, Mt. Seburi, Saga Pref., 12. iii. 1989, Y. Sawada coll.; 1 ex., Mt. Unzen, Nagasaki Pref., 1. x. 1980, S. Imasaka coll.; 1 ex., Mt. Mayuyama, Shimabara-shi, Nagasaki Pref., 23. iv. 1981, S. Imasaka coll.; 1 ex., Mt. Hakucho, Kumamoto Pref., 25. v. 1981, T. Goto coll.; 1 ex., same locality, 19. vi. 1988, S. Ogata coll.; 1 ex., Takamori-Kora, Kumamoto Pref., 24. v. 1970, S. Naomi coll.; 2 exs., Naidaijin, Higo, 29. vii. 1952, Takeya & Y. Hirashima coll.; 1 ex., Mt. Oidake, Amakusa Is., Kumamoto Pref., 29. vi. 1980, I. Ohtsuka coll.; 1 ex., Mt. Takachiho, Miyazaki Pref., 24. x. 1977, M. T. Chujo coll.

*Distribution.* Japan (Hokkaido, Honshu, Shikoku, Kyushu, Amakusa Is.).

*Remarks.* This species is commonest in Japan (Fig. 1A).

#### *Eleusis humilis* (Erichson)

*Isomalus humilis* Erichson, 1840, Gen. Spec. Staph., 2: 839.

*Eleusis subtilis* Sharp, 1889, Ann. Mag. nat. Hist., 6, 3: 467.

*Eleusis humilis*: Bernhauer and Schubert, 1910, Coleopt. Cat., (19): 11; Cameron, 1930, Fn. Brit. Ind., Col. Staph., I: 83; Adachi, 1957, J. Toyo Univ., (11): 198; Nakane, 1963, Icon. Ins. Japon. Col. nat. ed. II: 81; Shibata, 1976, Ann. Bull. Nichidai Sanko, (19): 86; Watanabe, 1985, Coleopt. Jpn. Col., I: 263.

*Specimens examined.* KYUSHU: 1 ex., Ohataike Pond, Miyazaki Pref., ix. 1984; NANSEI ISLS.: 1 ex., Mt. Banna, Ishigaki Is., 15. iii. 1978, S. Naomi coll.; 2 exs., Ohara, Iriomote Is., viii. 1985.

*Distribution.* Japan (Kyushu, Miyake Is., Yaku Is., Ishigaki Is., Iriomote Is.); Taiwan, Southeast Asia, North and South America.

#### *Eleusis kraatzi* Fauvel

*Eleusis kraatzi* Fauvel, 1878, Ann. Mus. Civ. Genova, 12: 207; Bernhauer and Schubert, 1910, Coleopt. Cat., (19): 11; Scheerpeltz,

1933, Coleopt. Cat., (129): 997; Cameron, 1930, Fn. Brit. Ind., Col. Staph., I: 85; Shibata, 1976, Ann. Bull. Nichidai Sanko, (19): 87; Watanabe, 1985, Coleopt. Jpn. Col., II: 263.

*Specimens examined.* NANSEI ISLS.: 1 ex., Shuri, Okinawa Is., H. Makihara coll.; 1 ex., Miyako Is., ix. 1987; 1 ex., Kabira, Ishigaki Is., 11. x. 1988, K. Yahiro coll.; 3 exs., Ohara, Iriomote Is., 15. x. 1988, K. Yahiro coll.

*Distribution.* Japan (Okinawa Is., Miyako Is., Ishigaki Is., Iriomote Is.); Southeast Asia, Ceylon.

#### Genus *Zeoleusis* Steel

*Zeoleusis* Steel, 1950, Trans. Royal Soc. N. Z., 78(2/3): 215.

Type-species: *Eleusis virgula* Fauvel (by original designation).

*Remarks.* Only one species, *Z. fusciceps* is recognized from Japan.

#### *Zeoleusis fusciceps* (Kraatz)

*Eleusis fusciceps* Kraatz, 1859, Arch. Naturgesch., 25: 184; Bernhauer and Schubert, 1910, Coleopt. Cat., (19): 11; Scheerpeltz, 1933, Coleopt. Cat., (129): 997; Cameron, 1930, Fn. Brit. Ind., Col. Staph., I: 88.

*Zeoleusis fusciceps*: Steel, 1950, Trans. Royal Soc. N. Z., 78(2/3): 233.

*Specimens examined.* NANSEI ISLS.: 1 ex., Nago, Okinawa Is., ix. 1986; 4 exs., Ohara, Iriomote Is., viii. 1985.

*Distribution.* Japan (Okinawa Is., Iriomote Is.); Southeast Asia, India, Himalaya.

*Remarks.* This is the first record from Japan (Fig. 2A).

#### Tribe Thoracophorini

##### Subtribe Clavilispinina

#### Genus *Clavilispinus* Bernhauer

*Clavilispinus* Bernhauer, 1926, Philip. J. Sci., 31: 255.

Type-species: *Paralispinus siargaoanus* Bernhauer (by monotypy).

*Remarks.* One species, *Clavilispinus exiguus* (Erichson) is known from Japan. Although the name *Clavilispinus* Bernhauer, 1926 should be used for the preoccupied name *Paralispinus* Bernhauer, 1921 (Blackwelder, 1952; see also Newton, 1989), the latter name has been com-

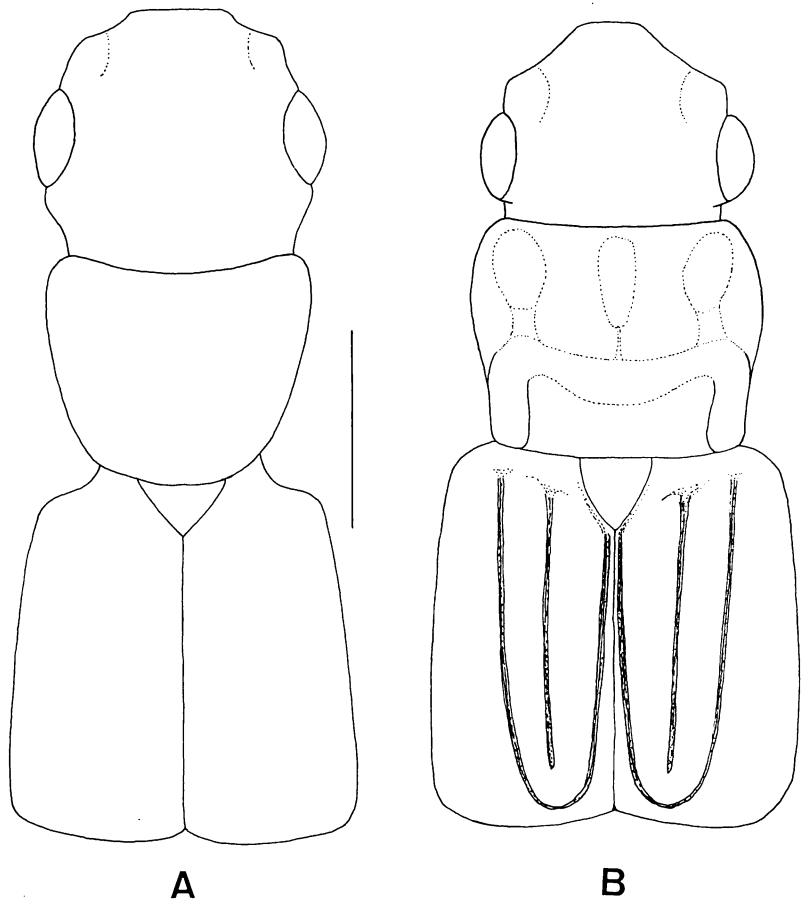


Fig. 2. A, *Zeoleusis fusciceps* (Kraatz) and B, *Tetrupleurus parallelus* Bernhauer. Scale: 0.2 mm.

monly used in Japan.

***Clavilispinus exiguus* (Erichson)**

*Lispinus exiguus* Erichson, 1840, Gen. Spec. Staph., 2: 830.

*Ancaeus exiguus*: Bernhauer and Schubert, 1910, Coleopt. Cat., (19): 19.

*Paralispinus exiguus*: Cameron, 1930, Fn. Brit. Ind., Col. Staph., I: 42; Scheerpeltz, 1933, Coleopt. Cat., (129): 1009; Watanabe and Shibata, 1972, J. agr. Sci. Tokyo, 17(1): 59; Shibata, 1974, Ann. Bull. Nichidai Sanko, (17): 33; Shibata, 1976, Ann. Bull. Nichidai Sanko, (19): 81.

*Clavilispinus exiguus*: Newton, 1990, Invertebr. Taxon., 4: 92.

*Specimens examined.* KYUSHU: 1 ex., Mt. Tachibana, Fukuoka-shi, Fukuoka Pref., 1-10. vi. 1978, K. Yamagishi coll.; OGASAWARA

ISLS: 1 ex., Minami-Iwo Is. (750 m), 17. vi. 1982, M. Sato coll.; NANSEI ISLS.: Okinoerabu Is., 20. vii. 1970, H. Makihara coll.

*Distribution.* Japan (Kyushu, Minami-Iwo Is., Yaku Is., Okinoerabu Is.); Pantropical.

**Subtribe Thoracophorina**  
**Genus *Tetrupleurus* Bernhauer**

*Tetrupleurus* Bernhauer, 1914, Verh. zool.-bot. Ges. Wien, 64: 84.

Type-species: *Tetrupleurus indicus* Bernhauer (by monotypy).

*Remarks.* One species, *Tetrupleurus parallelus* is known from Japan.

***Tetrupleurus paralellus* Bernhauer**

*Tetrupleurus paralellus* Bernhauer, 1917, Col. Rund., 6: 41; Scheerpeltz, 1933, Coleopt. Cat., (129): 1019.

*Specimen examined.* NANSEI ISLS.: 1 ex., Mt. Omoto, Ishigaki Is., 16. iii. 1984, K. Ogata coll.

*Distribution.* Japan (Ishigaki Is.); Taiwan.

*Remarks.* This is the first record from Japan (Fig. 2B). I examined two further specimens of this species from Taiwan during this study as follows: 1 ex., Lushan, Nantou Hsien, Taiwan, 8. vi. 1976, H. Makihara coll.; 1 ex., Nanshanchi, Nantou Hsien, Taiwan, 29. vii. 1988, S. Nomura coll.

#### Genus *Thoracophorus* Motschulsky

*Thoracophorus* Motschulsky, 1840, Bull. Soc. Imp. Nat. Moscou, 13(2): 197 [emendation of *Thoraxophorus*].

Type-species: *Thoraxophorus corticinus* Motschulsky (fixed by Motschulsky, 1840).

*Remarks.* One species, *Thoracophorus certatus* is known from Japan.

#### *Thoracophorus certatus* Sharp

*Thoracophorus certatus* Sharp, 1889, Ann. Mag. nat. Hist., 6, 3: 465; Bernhauer and Schubert, 1910, Coleopt. Cat., (19): 25; Adachi, 1957, J. Toyo Univ., (11): 198; Nakane, 1963, Icon. Ins. Japon. Col. nat. ed., II: 81; Shibata, 1976, Ann. Bull. Nichidai Sanko, (19): 85; Watanabe, 1985, Coleopt. Jpn. Col., II: 262.

*Specimens examined.* HONSHU: 1 ex., Mt. Gagyu, Takahashi-shi, Okayama Pref., 5. iv. 1977, A. Watanabe coll.; 1 ex., same locality, 13. xi. 1976, O. Yamaji coll.; KYUSHU: 1 ex., Fukuoka-shi, Fukuoka Pref., 21. v. 1981, S. Ogata coll.; 1 ex., Mt. Shiroyama, Munakata-gun, Fukuoka Pref., 8. iii. 1986, S. Nomura coll.; 1 ex., Okinoshima Is., Chikuzen, 12. vi. 1955, Y. Hira-shima & T. Hidaka coll.; 1 ex., same locality, 22. v. 1933, Easaki & Hori coll.; OGASAWARA ISLS.: 4 exs., Haha Is., 20–21. x. 1982, H. Makihara coll.; NANSEI ISLS.: 4 exs., Mt. Akatsuchi, Amami Is., 24. iii. 1979, Y. Tsuda coll.; 2 exs., Kampira fall, Iriomote Is., 27. iii. 1984, S. Nomura coll.

*Distribution.* Japan (Honshu, Shikoku, Kyushu, Mikura Is., Hachijyo Is., Haha Is., Oki Is., Yaku Is., Tokara-Naka Is., Amami Is., Iriomote Is.).

### Tribe Osoriini

#### Genus *Mimogonellus* Fagel

*Mimogonellus* Fagel, 1955, Expl. Parc Nat. Upemba, 39: 26.

Type-species: *Mimogonus leleupi* Cameron (by original designation).

*Remarks.* Naomi (1987) described two new osoriine species under the name of *Saegerius japonicus* and *S. yasutoshii*. Judging from the structures of mouth parts (maxillary palpus 4-segmented, with 4 segment large and water-drop-shaped, labial palpus 3 segmented, with 3rd segment longer than 2nd), the tarsal formula 5-5-5, the parameres of aedeagus characteristically situated as in fig. 2 C, E (Naomi, 1987), the pronotum almost abruptly constricted at base and its posterior margin straight (fig. 2, A in Naomi, 1987), etc., however, these two species are considered as the member of genus *Mimogonellus* Fagel. Therefore I transfer them to *Mimogonellus* in this paper.

#### *Mimogonellus japonicus* (Naomi) comb. nov.

*Mimogonus microps*: Nakane, 1963, Icon. Ins. Japon. Col. nat. ed., 2: 84 (nec Sharp, 1889). *Saegerius japonicus* Naomi, 1987, Elytra, Tokyo, 15(1/2): 15.

*Specimens examined.* HONSHU: 1 ex., Sanhoku-cho, Niigata Pref., 2. vii. 1985, S. Nomura coll.; 2 exs., Mt. Mikusa, Osaka-fu, 22. vii. 1993., Y. Sawada coll.; 3 exs., Chojygamori, Akiyoshidai, Yamaguchi Pref., 29. vi. 1987, S. Nomura coll.; NANSEI ISLS.: Mt. Inokawadake, Tokunoshima Is., 2. v. 1988, S. Nomura coll.

*Distribution.* Japan (Honshu, Kyushu, Amami Is., Tokunoshima Is., Okinoerabu Is., Ishigaki Is.).

#### *Mimogonellus yasutoshii* (Naomi) comb. nov.

*Saegerius yasutoshii* Naomi, 1987, Elytra, Tokyo, 15(1/2): 17.

*Remarks.* I do not have gained additional specimens after original description.

#### Acknowledgments

I would like to thank Dr. A. F. Newton, Jr. (Field Museum, Chicago) for his critical reading of the manuscript and also for his valuable comments on the systematic position of Japa-

nese *Mimogonellus*. I thank Dr. K. Ueda (Kitakyushu Museum and Institute of Natural History) for his kind advice for this study. Thanks are also due to my colleagues who collected the osoriine specimens used in this paper.

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(Accepted on 17 October 1995)

日本産ツツハネカクシ亜科  
(甲虫目, ハネカクシ科) の分類学的研究, VI

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本論文は日本産ツツハネカクシ亜科に関する研究の第6報である。本稿において, *Eleusis*, *Zeoleusis*, *Clavilispinus*, *Tetrapleurus*, *Thoracophorus* および *Mimogonellus* の6属を扱った。現在日本産の *Saegerius* 属に含まれている2種は, 前胸背の基部両側が狭くなり後縁が直線的であるなどの点で, *Mimogonellus* 属に分類されるべきことが分かったので, 次の2つの新組合せをつくった [*Mimogonellus japonicus* (Naomi) comb. nov. および *Mimogonellus yasutoshii* (Naomi) comb. nov.]. また, *Eleusis quadridens* Fauvel, *Zeoleusis fusciceps* (Kraatz) および *Tetrapleurus parallelus* Bernhauer の3種を日本から初めて記録して, 各種について頭胸部および前翅の図を描いた。また, 日本産の *Eleusis* 属の種への検索表を作成した。