The Chrysomelidae of Japan and the Ryukyu Islands. XI

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The Chrysomelidae of Japan and the Ryukyu Islands. XI[1,2]

Shinsaku KIMOTO[3]

Subfamily HISPINAE

Key to Japanese genera of Hispinae

1. Body armed with spines on dorsal surface and lateral margins; form generally somewhat flattened and more or less oblong.....2
   Body not armed with distinct spines; form generally subcylindrical, oval or wedge-shaped..... ***Leptispa***
2. A spine, or group of spines, on each side of middle of anterior margin of pronotum..... 3
   Anterior dorsal margin of pronotum lacking spines.....5
3. At least first antennal joint with a long dorsal spine.....4
   Antennae lacking spines entirely..... ***Dactylispa***
4. A single claw at extremity of each tarsus ..... ***Hispellinus***
   Tarsal claws paired ..... ***Rhadinosa***
5. Antennae eleven jointed; body narrow, subparallel-sided; prothorax with a group of several spines behind antero-lateral angles and generally a single one at side behind middle; elytral margin not produced..... ***Dicladispa***
   Antennae with only nine jointed; body broad; prothorax with a wide, spined expansion at side, and two similar expansions on side of elytra..... ***Platypria***

Genus *Leptispa* Baly

Leptomorpha Germar, 1842 (nec Faldermann), Fauna Ins. Eur. 22: pl. 10.

Leptispa Baly, 1858, Cat. Hisp., 1 (type: ***Leptomorpha filiformis*** Guérin; Europe, Africa).—Weise, 1911, Gen. Ins. 125: 65.—Maulik, 1919, Fauna Ind., Hisp. & Cass., 75.—Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 309.—Uhmann, 1949, Kol.

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Ztschr. 1: 4.—Gressitt, 1950, Lingnan Sci. Jour. 23: 73.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 896, 903.

Parellispa Fairmaire, 1884, Soc. Ent. France, Ann. ser. 6, 4: 238.

Paradownesia Gestro, 1899, Mus. Civ. Genova, Ann. 40: 220.

Key to Japanese species of Leptispa

Small in size, pronotum strongly arched outwardly at anterior half, and very slightly emarginate at posterior half; black; length 4.2–5.3 mm.....*taguchii*

Large in size, pronotum subparallel-sided; longitudinal rows of punctures on elytra much finer and consisted of a smaller number of punctures compared with *taguchii*; black; length 5.2–6.3 mm.....*miyamotoi*

Leptispa taguchii Chûjô

Leptispa godwini: Lewis, 1888, Ent. Monthl. Mag. 25: 94 (near Tokio).

Leptispa taguchii Chûjô, 1956, Kagawa Univ., Mem. Fac. Lib. Arts & Educ. 2 (31): 18, fig. 9 (Kawagoe-shi in Saitama Pref., Aoyama in Tokyo Pref., Mt. Hiko in Fukuoka Pref.; CHUJO).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 195 (Japan).

Distribution: Japan (Honshu, Kyushu).

A part of the type series is deposited in the Entomological Laboratory of Kyushu University.

Hosts: *Miscanthus* spp. (after Chûjô & Kimoto, 1961).

Leptispa miyamotoi Kimoto

Leptispa miyamotoi Kimoto, 1957, Ins. Matsumurana 21 (1-2): 77, 1 fig. (Yuwan and Naze in Amami-Oshima; KU).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 195 (Ryukyu).

Distribution: Ryukyu Is. (Amami-Oshima).

Amami group: Konia in Amami-Oshima (3 exs., 31. March. 1958, M. Takahashi leg.).

Host: *Saccharum officinarum* Linn. (after Chûjô & Kimoto, 1961).

Genus *Dactylispa* Weise

Dactylispa Weise, 1897, Dtsch. Ent. Ztschr. 1897: 137 (type: *D. andrewesi* Ws.=*Hispa severinii* Gestro; India).—Weise, 1911, Gen. Ins. 125: 95.—Maulik, 1919, Fauna India, Hisp. & Cass., 170.—Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 322.—Gressitt, 1950, Lingnan Sci. Jour. 23: 105.—Uhmann, 1954, Phil. Jour. Sci. 83: 1.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 897, 920.

Monohispa Weise, 1897, Dtsch. Ent. Ztschr. 1897: 137.

Triplispa Weise, 1897, *t. c.*

Key to Japanese species of Dactylispa

1. Spine of anterior margin of pronotum with three branches; length 5.0–5.2 mm .....*issikii*

Spine of anterior margin of pronotum with two branches 2
2. Elytral margin broadly expanded anteriorly and posteriorly, marginal spines broad and flattened, triangular; 4.5–5.6 mm..... *subquadrata*
Elytra subparallel-sided; marginal spines at least in part long and slender... 3
3. Spines on lateral margin of elytra more or less equal in length, ten or more in number; apical spines equal and regular 4
Spines on lateral margin of elytra unequal in length and width, major ones generally eight or so, apical spines unequal and minute; length 3.8–4.5 mm ..... *higoniae*
4. Small in size; abdomen entirely black; length 3.3–4.2 mm ..... *angulosa*
Large in size; abdomen black with lateral portion brownish; length 5.0–5.2 mm ..... *masonii*

Dactylispa angulosa (Solsky)

Hispa angulosa Solsky, 1871, Soc. Ent. Ross., Horae 8: 262 (Amur).
Hispa japonica Baly, 1874, Ent. Soc. Lond., Trans. 1874: 215 (Japan; BM).
Dactylispa angulosa: Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 328 (Hokkaido, Honshu; Korea, China, Amur).—Uhmann, 1949, Kol. Ztschr. 1: 8 (Amur, Ussuri, Korea, Vladiostock, Manchuko, Sachalin, Kamtschatka, Japan, China).—Gressitt, 1950, Lingnan Sci. Jour. 23: 111 (SE Siberia, Japan, China, Korea).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 193 (SE Siberia, Manchuria, China, Korea, Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 924 (SE Siberia, Japan, Korea, China).

Distribution: SE Siberia, Manchuria, China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu).

Fukuoka: Mt. Hiko; Mt. Fukuchi; Magaribuchi in Sawara-gun. ***Kochi***: Engyoji in Kochi City. ***Tokushima***: Mt. Kenzan. ***Tottori***: Mt. Naki. ***Nagano***: Shirahone; Karuizawa; Utsukushigahara; Asama-Onsen. ***Yamanashi***: Obinayama; Komagatake; Amari-yama; Kiyosato.

Hosts: ***Filipedula multijuga***; ***Isodon inflexus***; ***Prunella vulgaris*** var. ***lilacina*** (after Chûjô & Kimoto, 1961).

Dactylispa higoniae (Lewis)

Hispa higoniae Lewis, 1896, Ann. Mag. Nat. Hist. ser. 6, 17: 342 (Japan; BM).
Dactylispa higoniae: Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 326 (Kyushu).—Uhmann, 1949, Kol. Ztschr. 1: 8 (Japan, Formosa).—Chûjô & Kimoto, 1961, Pac. Ins. 3: 194 (Japan, Formosa, S. China, Hainan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 924, 928 (Japan, Taiwan, S. China, Hainan Is.).

Distribution: S. China, Hainan Is., Taiwan, Japan (Honshu, Shikoku, Kyushu).

Fukuoka: Ino in Kasuya-gun; Mt. Fukuchi; Mt. Mikazuki in Fukuoka City; Mt. Wakasugi. ***Oita***: Mt. Sobo. ***Kumamoto***: Tatsuda-yama in Kumamoto City. ***Kochi***: Godai-san; Kuroson.

Host; ***Callicarpa mollis*** (after Chûjô & Kimoto, 1961).

Dactylispa issikii Chûjô

Dactylispa issikii Chûjô, 1938, Umeno Ent. Lab., Bull. 6: 12, fig. 1 (Kyushu; type destroyed).—Uhmann, 1949, Kol. Ztschr. 1: 6 (Japan).—Chûjô & Kimoto, 1961, Pac. Ins. 3(1): 194 (Japan, China).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 928 (China, Japan).

Distribution: China, Japan (Kyushu).

Fukuoka: Kamihirokawa-mura in Yame-gun (1 ex., 2. May. 1954, Y. Miyake leg.); Mt. Iliko (1 ex., 2. Aug. 1955, Honda leg.); Mt. Fukuchi (1 ex., 30. July. 1952, K. Matsuda leg.). *Oita*: Bungo-Takeda (1 ex., 23. July. 1953, Nawatani leg.). *Miyazaki*: Kamishiiba (1 ex., 8. June. 1955, T. Takahashi leg.). *Kumamoto*: Tatsudayama in Kumamoto City (1 ex., 3. June. 1960, K. Kawarabata leg.).

Hosts: *Arundinaria pygmaea* var. *glabra*, *A. Simonii*; *Phyllostachys bambusoides*; *Oryza sativa* (after Chûjô & Kimoto, 1961).

Dactylispa masonii Gestro

Dactylispa masonii Gestro, 1923, Mus. Civ. Genova, Ann. 51: 9 (China).—Uhmann, 1949, Kol. Ztschr. 1: 8 (China, Ussuri).—Gressitt, 1950, Lingnan Sci. Jour. 23: 123 (SE China).—Chûjô, 1958, Kagawa Univ., Mem. Fac. Lib. Arts & Educ. 2 (58): 10 (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 194 (E. Siberia, Manchuria, China, Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 924, 929 (SE China, Manchuria, Siberia, Japan).

Dactylispa flavomarginata Shirôzu, 1957, Sieboldia, Fukuoka 2: 53, pl. 6, fig. 2 (Japan; Shirozu).

Distribution: SE China, Manchuria, E. Siberia, Japan (Hokkaido, Honshu, Shikoku, Kyushyu, Tsushima).

Nagano: Karuizawa. *Yamanashi*: Shosenkyo. *Aomori*: Yunomata in Shimokita Pen. *Hokkaido*: Ashoro in Tokachi.

Hosts: *Petasites japonicus*; *Compositae* spp. (after Chûjô & Kimoto, 1961).

Dactylispa subquadrata (Baly)

Hispa subquadrata Baly, 1874, Ent. Soc. Lond., Trans. 1874: 216 (Japan; BM).

Dactylispa subquadrata: Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 329 (Honshu, Kyushu).—Uhmann, 1949, Kol. Ztschr. 1: 7 (Japan).—Gressitt, 1950, Lingnan Sci. Jour. 23: 130 (Japan, E. China).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 194 (Japan, E. China).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 922, 933 (Japan, E. China).

Dactylispa adstricta Weise, 1922, Phil. Jour. Sci. 21: 81 (Japan).

Distribution: E. China, Japan (Honshu, Sado I., Shikoku, Kyushu, Tsushima).

Fukuoka: Kamihirokawa-mura in Yame-gun; Minami-koen, Hirao in Fukuoka City; Ino in Kasuya-gun; Mt. Kora in Kurume City. *Kochi*: Jinzenji in Kochi City. *Niigata*: Nagasawa. *Miyagi*: Sendai City.

Hosts: *Castanea crenata*; *Castanopsis cuspidata*; *Quercus acutissima*, *Q. glauca*, *Q. mongolica* var. *grosseserrata*, *Q. serrata*, *Q. variabilis* (after Chûjô & Kimoto, 1961).

Genus *Hispellinus* Weise

Monochirus Chapuis, 1875 (nec Rafinesque), Gen. Col. 11: 330.—Weise, 1911, Gen. Ins. 125: 91.—Maulik, 1919, Fauna India, Hisp. & Cass., 151.—Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 319.

Hispellinus Ws., 1897, Dtsch. Ent. Ztschr. 1897: 144 (type: ***Hispa multispinosa*** Germar; Australia).—Gressitt, 1950, Lingnan Sci. Jour. 23: 95.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 897, 912.

Hispellinus moerens (Baly)

Hispa moerens Baly, 1874, Ent. Soc. Lond., Trans. 1874: 215 (N. China; BM).

Monochirus moerens: Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 319 (Kyushu; China).—Uhmann, 1949, Kol. Ztschr. 1: 5 (Japan, China).—Gressitt, 1950, Lingnan Sci. Jour. 23: 97 (Siberia, E. China, Japan).

Hispellinus moerens: Chûjô & Kimoto, 1961, Pac. Ins. 3(1): 195 (Japan, China, Formosa, E. Siberia).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 913 (E. China, Taiwan, E. Siberia, Japan).

Entirely black; pronotum sparsely covered with short hairs of white; elytra moderately shiny, and with tubercles or very short spines on disc and about 19 short, subequal marginal spines; length 3.5 mm.

Distribution: E. Siberia, China, Taiwan, Japan (Honshu, Shikoku, Kyushu).

Tokushima: Jinryo-mura in Myosai-gun (1 ex., 24. Aug. 1954, I. Hiura leg.).

Hosts: *Miscanthus* spp. (after Chûjô & Kimoto, 1961).

Genus *Rhadinosa* Weise

Rhadinosa Weise, 1905, Dtsch. Ent. Ztschr. 1905: 318 (type: ***Hispa nigrocyanea*** Motsch.; E. Asia); 1911, Gen. Ins. 125: 94.—Maulik, 1919, Fauna India, Hisp. & Cass., 164.—Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 321.—Gressitt, 1950, Lingnan Sci. Jour. 23: 101.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 897, 917.

Rhadinosa nigrocyanea (Motschulsky)

Hispa nigro-cyanea Motsch., 1861, Schrenck's Reisen Amurl. 2: 237, pl. 11, fig. 26 (Amur).

Rhadinosa nigrocyanea: Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 321 (Honshu, Kyushu; Manchuria, Altai).—Uhmann, 1949, Kol. Ztschr. 1: 6 (Dauria, Ussuri, Altai, Manchuria, China, Japan, Korea).—Gressitt, 1950, Lingnan Sci. Jour. 23: 103 (S. Siberia, E. China, Japan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 195 (SE Siberia, Manchuria, China, Korea, Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 917, 919 (S. Siberia, China, Hainan I., Korea, Japan).

Entirely black; elytra slightly shiny, with a blue-black luster and with spines of medium length, about 22 on each external margin; length 4.2–4.5 mm.

Distribution: S. Siberia, China, Hainan I., Korea, Japan (Honshu, Shikoku, Kyushu).

Fukuoka: Mt. Hiko. ***Oita***: Mt. Kuju; Mt. Sobo. ***Tottori***: Hoki-Daisen, ***Oka-***

yama: Taishakukyo. *Ishikawa*: Mt. Hakusan. *Nagano*: Karuizawa; Asama-Onsen. *Yamanashi*: Komagatake; Masutomi; Obinayama in Kofu City; Kiyosato; Shosenkyo. *Tokyo*: Kamisuwa, Hikawa in Okutama.

Hosts: *Miscanthus* spp. (after Chûjô & Kimoto, 1961).

Genus *Platypria* Guérin-Méneville

Platypria Guér., 1840, Rev. Zool., 1840: 139 (type: *Hispa echidna* Guér.; India).—Chapuis, 1875, Gen. Col. 11: 336.—Weise, 1911, Gen. Ins. 125: 106.—Maulik, 1919, Fauna India, Hisp. & Cass., 256.—Gressitt, 1950, Lingnan Sci. Jour. 23: 136.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 897, 937.

Key to Japanese species of Platypria

Posterior lobe of elytra not set off from hind margin of elytra, spine of both forming continuous even series; length 6.5 mm ..... *melli*

Posterior lobe of elytra set off from hind margin of elytra; spines of both not forming a continuous even series; length 6.0 mm..... *echidna*

Platypria melli Uhmann (Fig. 1)

Platypria melli Uhmann, 1955, Ent. Blätt. 50: 211, fig. 10 (Kwangtung, Fukien).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 937, 938 (S. China).

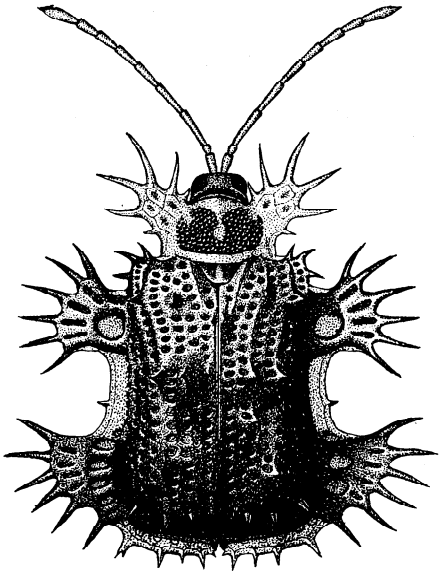

Fig. 1. *Platypria melli* Uhmann.

Distribution: S. China, Japan (Tsushima).

This is the first record of the species from Japan.

Tsushima: Izuhara~Himi (2 exs., 17. May. 1961, H. Kamiya leg.).

Platypria echidna Guérin-Méneville

Platypria echidna Guér., 1840, Rev. Zool. 1840: 139 (India).—Maulik, 1919, Fauna India, Hisp. & Cass., 256 (India, Ceylon, Burma, Sikkim, Indo-China).—Gressitt, 1939, Pan-Pacific Ent. 15 (3): 138 (Loochoos: probably from Okinawa Is.).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 195 (S. & E. India, Ceylon, Sikkim, Burma, Indo-China, Ryukyu Is.: may be Okinawa).

Distribution: India, Ceylon, Sikkim, Burma, Indo-China, Ryukyu Is, (?Okinawa).

The specimen recorded by Gressitt in 1939 is preserved in the California Academy of Sciences, but I have not seen any other specimens collected in the Ryukyu Archipelago.

Genus *Dicladispa* Gestro

Dicladispa Gestro, 1897, Mus. Civ. Genova, Ann. 38: 81 (type: *Hispa testacea*; Europe).—Gressitt, 1950, Lingnan Sci. Jour. 23: 133.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 897, 935.

Hispa: Chapuis, 1875 (nec Linnaeus), Gen. Col. 11: 334.—Weise, 1893, Ins. Deutschl. 6 (6): 1061; 1911, Gen. Ins. 125: 102.—Maulik, 1919, Fauna India, Hisp. & Cass., 247.—Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 331.

Dicladispa boutani (Weise)

Hispa Boutani Ws., 1905, Archiv Naturg. 71 (1): 101 (Tonkin).

Hispa similis Uhmann, 1927, Suppl. Ent. 16: 116 (Formosa).—Chûjô, 1933, Nat. Hist. Soc. Formosa, Trans. 23: 331 (Formosa).

Dicladispa armigera similis: Gressitt, 1950, Lingnan Sci. Jour. 23: 134 (Formosa, SE China).

Dicladispa boutani similis: Chûjô & Kimoto, 1960, Niponius, Takamatsu 1 (4): 10 (Ryukyu: Iriomote); 1961, Pac. Ins. 3 (1): 194 (China, Formosa, Ryukyu).

Dicladispa boutani: Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 936 (Vietnam, S. China, Taiwan, Ryukyu Is.).

Black; pronotum bronzy green; elytra bluish green; legs black or slightly pitchy; elytra with about nine large discal, two basal and nine lateral spines and with apices almost unarmed; length 4.0 mm.

Distribution: Vietnam, S. China, Taiwan, Ryukyu Is. (Iriomote).

Sakishima group: Iriomote Is. (after Chûjô & Kimoto, 1960).

Host: *Oryza sativa* (after Chûjô & Kimoto, 1961).

Subfamily CASSIDINAE

Key to Japanese genera of Cassidinae

1. Head visible from above, not covered by pronotum ..... *Notosacantha*
   Head not visible from above, covered by pronotum 2
2. Tarsal claws bearing a comb-like structure at base 3
   Tarsal claws lacking a comb-like structure at base 4
3. Body somewhat triangular or pentagonal in outline, fairly deep; elytra rugulose and deeply punctate, with moderately broad, declivitous lateral expansion ... . *Laccoptera*
   Body round in outline, depressed; elytra fairly smooth, with broad, subhorizontal lateral expansion ..... *Aspidomorpha*
4. Prosternum lacking a groove on side for reception of antennae 5
   Prosternum with a groove on side for reception of at least basal portion of antennae ..... *Glyphocassis*

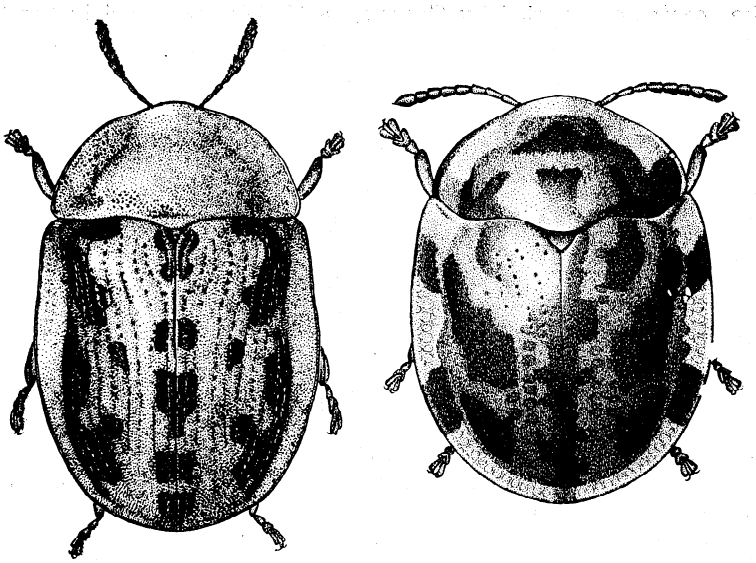

Fig. 2. a, *Cassida* (*Cassida*) *murraea* Linnaeus; b, *Glyphocassis spilota* (Gorham).

5. Apical margin of elytra with a row of fine hairs on underside; tarsal claws lacking basal teeth or appendices.....*Thlaspida*
Apical margin of elytra lacking a row of fine hairs on underside; claws often toothed basally.....*Cassida*

Genus *Notosacantha* Chevrolat

Notosacantha Chev., 1837, in Dejean, Cat. Col., ed. 2, 367, ed. 3, 391 (type: ***Cassida echinata*** Fabr.; Madagascar; monobasic).—Barber & Bridwell, 1941, Brookl. Ent. Soc., Bull. 35: 7.—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 444.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 941, 942.

Hoplionota Hope, 1840, Col. Man. 3: 153 (type: *C. echinata* F., original designation).—Boheman, 1850, Mon. Cassid. 1: 16.—Chapuis, 1875, Gen. Col. 11: 357.—Spaeth, 1913, Zool.-Bot. Ges. Wien, Verh. 63: 381; 1914, *op. cit.* 64: 290.—Maulik, 1919, Fauna India, Hisp. & Cass., 284.—Chûjô, 1934, Sylvia 5 (3): 146, 147.

Key to Japanese species of Notosacantha

Anterior process of head broadest near apex, dorsal surface dark bloody red, explanate margins light reddish brown, ventral surface pale reddish brown; length 5.2–5.5 mm ..... ***sauteri ihai***

Anterior process of head narrowed distally; dorsal surface reddish brown, disc of elytra much darker than the others, explanate margins with post-basal, median and apico-sutural areas yellowish brown; underside, antennae and legs pale yel-

low; length 5.5–6.0 mm..... *castanea loochooana*

Notosacantha sauteri ihai Chûjô

Notosacantha sauteri ihai Chûjô, 1958, Kagawa Univ., Mem. Fac. Lib. Arts & Educ. 2(64): 19 (Yurudji in Okinawa; CHUJO).—Chûjô & Kimoto, 1961, Pac. Ins. 3(1): 201 (Ryukyu Is.)

I have not seen any specimens besides the type series. The verification of the status of the subspecies would be required. The nominate form was described from Taiwan.

Distribution: Ryukyu Is. (Okinawa).

Notosacantha castanea loochooana Chûjô

Notosacantha castanea loochooana Chûjô, 1961, Ent. Lab., Univ. Osaka Pref., Pub. no. 6: 91 (Amami-Oshima; CHUJO).

I have not seen any specimens besides the type series. The verification of the status of the subspecies would be required. The nominate form was described from Tonkin.

Distribution: Ryukyu Is. (Okinawa).

Genus *Laccoptera* Boheman

Laccoptera Boh., 1855, Mon. Cassid. 3: 55.—Chapuis, 1875, Gen. Col. 11: 408.—Maulik, 1919, Fauna India, Hisp. & Cass., 346 (type: *L. excavata* Baly).—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 9.—Chûjô, 1934, Sylvia 5: 150, 153.—Gressitt, 1952, Calif. Acad. Sic., Proc. ser. 4, 27: 479.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 941, 955.

Laccoptera quadrimaculata (Thunberg)

Cassida quadrimaculata Th., 1789, Nov. Ins. Spec. 5: 86, pl. 5, fig. 94 (China).

Laccoptera quadrimaculata: Maulik, 1919, Fauna India, Hisp. & Cass., 374 (India).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 471, pls. 35, 36, figs. 5, 8 (S. China, Taiwan, Indo-China, Burma, India, E. Indies, Andaman).—Chûjô, 1958, Kagawa Univ., Mem. Fac. Lib. Arts & Educ. 2 (64): 19 (Ishigaki).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 201 (India, Burma, Indo-China, Andamans, S. China, Formosa, Ryukyu Is.).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 955, 956 (S. China, Taiwan, Indo-China, Burma, India, E. Indies, Andamans).

Rounded-triangular in dorsal outline; yellowish brown to reddish brown with some black spots and markings, pronotum with a pair of small spots, elytra each with a spot on anterior portion of common tubercle, an incomplete oblique lateral stripe behind humeri, large postero-lateral spot on explanate margin, two rather ill-defined spots of which one is medianly and the other is posteriorly, and suture black apically; metasternum black; length 7.5–9.0 mm.

Distribution: S. China, Taiwan, Indo-China, Burma, E. Indies, India, Andaman Is., Ryukyu Is. (Ishigaki).

Sakishima group: Ishigaki Is. (52 exs., 1. Dec. 1952-1. Jan. 1953, G. E. Bohart leg.; 1 ex., 6. Sept. 1955, T. Takara leg.).

Host: ***Calystegia Soldanella*** (after Chûjô & Kimoto, 1961).

Genus *Aspidomorpha* Hope

Aspidomorpha Hope, 1840, Col. Man. 3: 158 (type: ***Cassida miliaris*** Fabr.; Oriental regions; original designation).—Boheman, 1854, Mon. Cassid. 2: 242.—Chapuis, 1875, Gen. Col. 11: 401.—Maulik, 1919, Fauna India, Hisp. & Cass., 324.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 9.—Chûjô, 1934, Sylvia 5: 150.—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 460.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 941, 948.

Key to Japanese species of Aspidomorpha

Elytral disc evenly convex and smooth, lacking a postbasal tubercle; yellowish brown, elytral disc reddish brown to pitchy brown, with a dark reddish brown patch on humeri and another on postero-lateral portion; length 6.2-7.2 mm ..... ***transparipennis***

Elytral disc with a common, subacute tubercle at suture a short distance behind scutellum; yellowish brown, elytral disc dark reddish brown to pitchy brown, explante margins of elytra with a distinct pitchy patch on humeri and one another on postero-lateral portion; length 7.2-8.2 mm ..... ***difformis***

Aspidomorpha transparipennis (Motschulsky)

Coptocycla transparipennis Mots., 1860, Etud. Ent. 9: 41 (Amur).

Aspidomorpha transparipennis: Spaeth, 1914, Zool.-Bot. Ges. Wien, Verh. 64 (Sitzb.): (129) (Korea, Japan, Ussuri); 1926, Best.-Tab. Eur. Col. 95: 10 (Japan, Korea, Ussuri).—Chûjô, 1934, Sylvia 5: 150, 151 (Hokkaido, Honshu; Korea, Amur).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 478 (Japan, Korea, Amur, N. China).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 196 (Japan, Korea, E. Siberia, Manchuria, N. China).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 949, 954 (Amur, Korea, N. China, Japan).

Aspidomorpha elliptica Gorham, 1885, Zool. Soc. Lond., Proc. 1885: 280 (Honshu).

Aspidomorpha transparipennis ab. ***elliptica***: Chûjô, 1934, Sylvia 5: 150, 151 (Honshu).

Aspidomorpha transparipennis var. ***vetula*** Weise, 1900, Archiv Naturg. 66 (1): 295 (Honshu).

Distribution: E. Siberia, Manchuria, Korea, Japan (Hokkaido, Honshu, Kyushu).

Fukuoka: Fukuoka City; Mt. Hiko. ***Tokyo***: Mt. Takao.

Host: ***Calystegia japonica*** (after Chûjo & Kimoto, 1961).

Aspidomorpha difformis (Motschulsky)

Delovala difformis Mots., Etud. Ent. 9: 27 (Amur).

Aspidomorpha difformis: Boheman, 1862, Mon. Cassid. 4: 277.—Baly, 1874, Ent. Soc. Lond., Trans. 1874: 211 (Japan, Manchuria, E. Siberia).—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 10 (Korea, Japan, Ussuri).—Chûjô, 1934, Sylvia 5: 150, 152 (Japan, Korea, Manchuria, Ussuri).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 462 (Japan, Ryukyu, Korea, E. China, E. Siberia).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 196 (Japan, Ryukyu Is., Korea, China, Manchuria, E. Siberia).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 949 (Siberia, Japan, Ryukyu, Korea, Taiwan, E. China).

Aspidomorpha difformis ab. *japonica* Spaeth, 1926, Best.-Tab. Eur. Col. 95: 10 (Japan).—Chûjô, 1934, Sylvia 5: 151, 153 (Japan).

Distribution: Siberia, E. China, Korea, Taiwan, Ryukyu Is. (Okinawa), Japan (Hokkaido, Honshu, Awashima, Shikoku, Kyushu).

Nagano: Asama-Onsen. *Yamanashi*: Amari-yama. *Tokyo*: Kobotoke-toge. *Hokkaido*: Ashoro in Tokachi.

Host: *Calystegia japonica* (after Chûjô & Kimoto, 1961).

Genus *Glyphocassis* Spaeth

Glyphocassis Spaeth., 1914, Dtsch. Ent. Ztschr. 1914: 549 (type: *Cassida trilineata* Hope; N. India; monobasic).—Maulik, 1919, Fauna India, Hisp. & Cass., 359.—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 477.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 960.

Hebdomecosta Spaeth, 1915, Wien. Ent. Ztg. 34: 361 (type: *H. reitteri* Spaeth = *spilota* Gorham; E. China; original designation).

Glyphocassis spilota (Gorham) (Fig. 2b)

Coptocycla spilota Gorham, 1885, Zool. Soc. Lond., Proc. 1885: 285 (Nowata between Tokio and Nikko; BM).—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 66 (Japan).

Metriona spilota: Chûjô, 1934, Sylvia 5: 158, 159 (Honshu).

Hebdomecosta shirahatai Chûjô, 1949, Kansai Ent. Soc., Trans. 14 (2): 9, fig. 1 (Mt. Zao-zan in Yamagata Pref., Mt. Azumasan between Yamagata and Fukushima Prefs.; CHUJO).

Glyphocassis spilota: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 479 (E. China, Japan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 201 (Japan, Korea, Manchuria, China, Tonkin).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 960 (Japan, Korea, E. China).

Small, rounded-oval, strongly convex; rich reddish castaneous with explanate margins ochraceous, marked with black as follow: pronotum with postero-lateral angles, and an adjacent spot on middle of each side of basal margin, touching the former, a broad median stripe from center of disc to scutellum, and a triangular spot above head, scutellum black, elytra with suture, some small irregular adjacent spots, three oblique spots on each disc and two marginal spots on each, one behind humeri, other behind middle; antennae, head and legs ochraceous; ventral surface black except for prothoracic pleura and borders of abdomen; length 4.6 mm.

Distribution: Tonkin, China, Korea, Manchuria, Japan (Honshu).

Nagano: Azusagawa-mura in Minamiazumi-gun (1 ex., 16. June. 1952, S. Uéno leg.).

Genus *Thlaspida* Weise

Thlaspida Ws., 1899, Archiv Naturg. 65 (1): 272.—Spaeth, 1914, in Junk, Col. Cat. 62, 127 (type: *Coptocycla cribrosa* Boheman; India, SE Asia).—Maulik, 1916, Fauna India, Hisp. & Cass., 428.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 62.—Chûjô, 1934, Sylvia 5: 155.—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 473.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 942, 957.

Key to Japanese species of Thlaspida

1. Explanate margin of elytra marked with a dark spot only behind middle, or entirely pale; pronotal disc not depressed anteriorly 2
   Explanate margin of elytra marked with dark spots both near humeri and behind middle; pronotal disc very feebly convex anteriorly; explanate margin at apex distinctly less than 1/2 as wide as greatest width at side; disc of dorsal surface reddish brown, together with basal and latero-apical markings on elytral explanate margin, explanate margin and legs yellowish brown, ventral surface black; length 5.2–6.8 mm ..... *lewisii*
2. Explanate margin at apex about 1/2 as wide as greatest width at side; lateral angle of pronotum placed distinctly anterior to median transverse line; elytral border with a distinct obtuse angle postero-laterally, nearly parallel-sided in central portion; explanate margin at apex not more than 1/2 as wide as the greatest width at side of disc; dorsal surface yellowish brown to dark reddish brown; pronotum with disc reddish brown, pale anteriorly; elytra dark reddish brown at sides and on anterior portion of dorsal tubercle, and transverse ridges; ventral surface black, pale along lateral borders; legs yellowish brown; length 7.8–8.5 mm ..... *biramosa japonica*
   Explanate margin at apex less than 1/2 as wide as the greatest width at side; lateral angle of pronotum placed very near median transverse line; elytral border evenly rounded postero-laterally; coloration similar to *biramosa japonica* but in some cases explanate margin without any marking; length 7.0–8.0 mm ..... *formosae*

Thlaspida lewisii (Baly)

Coptocycla lewisii Baly, 1874, Ent. Soc. Lond., Trans. 1874: 214 (Hiogo; BM).
Thlaspida Lewisi: Spaeth, 1926, Best.-Tab. Eur. Col. 95: 63 (Japan, Korea, Ussuri).—Chûjô, 1934, Sylvia 5: 155, 156 (Hokkaido, Honshu, Korea, Ussuri).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 477, pl. 28, fig. 8 (Amur, Ussuri, E. China, Korea, Japan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 202 (Japan, Korea, E. Siberia, E. China).

Distribution: E. Siberia, E. China, Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima).

Fukuoka: Mt. Fukuchi; Mt. Shika in Yame-gun; Mt. Hiko. *Oita*: Mt. Sobo. *Kochi*: Kajigamori in Nagaoka-gun. *Tottori*: Hoki-Daisen. *Nagano*: Shirahone. *Shizuoka*: Misakubo.

Hosts: *Fraxinus Sieboldiana*; *Ligustrum obtusifolium* (after Chûjô & Kimoto, 1961).

Thlaspida biramosa japonica (Spaeth)

Coptocycla biramosa: Kraatz, 1879, Dtsch. Ent. Ztschr. 23: 272 (Japan).

Thlaspida japonica Spaeth, 1914, Suppl. Ent. 3: 17 (Japan); 1926, Best.-Tab. Eur. Col. 95: 64 (Japan, China).—Chûjô, 1934, Sylvia 5: 155, 156 (Honshu, Kyushu; China).

Thlaspida biramosa japonica: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 475 (Japan, N. China).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 201 (Japan, Korea, N. China).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 958 (Japan, Korea, N. China).

Distribution: Manchuria, Korea, Japan (Honshu, Shikoku, Kyushu).

Fukuoka: Mt. Wakasugi; Kamihirokawa-mura in Yame-gun; Mt. Inunaki; Mt. Tachibana in Fukuoka City; Mt. Hiko; Mt. Fukuchi. *Miyazaki*: Mt. Osuzu. *Kagoshima*: Sata-misaki; Shiroyama in Kagoshima City. *Tokushima*: Jinryo-mura in Myosai-gun. *Kochi*: Kajigamori in Nagaoka-gun. *Okayama*: Kamo-cho in Tomata-gun. *Nara*: Mt. Kasuga. *Kyoto*: Hirokahara in Kyoto City. *Nagano*: Asama-Onsen. *Yamanashi*: Komagatake. *Kanagawa*: Yugawara. *Tokyo*: Hikawa, Kobotoke-toge in Okutama.

Hosts: ***Callicarpa japonica, C. mollis*** (after Chûjô & Kimoto, 1961).

Thlaspida formosae Spaeth

Thlaspida formosae Spaeth, 1913, Mus. Nat. Hung., Ann. 11: 46 (Formosa).—Chûjô, 1934, Sylvia 5: 155, 157 (Formosa).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 476 (Taiwan).—Chûjô, 1958, Kagawa Univ., Mem. Fac. Lib. Arts & Educ. 2 (64): 19 (Kokuba, Nakasone and Yurudji in Okinawa).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 201 (Formosa; Ryukyu).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 958 (Taiwan).

Thlaspida biramosa japonica: Nakane & Kimoto, 1961, Kontyû 29 (2): 110(Okinawa).

Distribution: Taiwan, Ryukyu Is. (Okinawa).

Okinawa group: Okinawa Is. (1 ex., 16. Mar. 1957, 1 ex., 18. Apr. 1955, T. Takara leg.).

Hosts: In Taiwan: ***Callicarpa formosana***; ***Ipomoea Batatas.***

Genus *Cassida* Linnaeus

Cassida L., 1758, Syst. Nat. ed. 10, 1: 362.—Boheman, 1854, Mon. Cassid. 2: 329.—Chapuis, 1875, Gen. Col. 11: 338.—Weise, 1893, Ins. Deutschl. 6 (6): 1070.—Spaeth, 1914, Zool.-Bot. Ges. Wien, Verh. 64 (Sitzb.): (140)(type: ***C. nebulosa*** L.; Europe).—Maulik, 1919, Fauna India, Hisp. & Cass., 361.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 15.—Chûjô, 1934, Sylvia 5: 165.—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 484.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 941, 963, 966, 976.

Deloyala Redtenbacher, 1858 (nec Chevrolat), Fauna Austr., ed. 2, 952; 1874, ed, 3, 2: 520.—Weise, 1859, Ins. Deutschl. 6 (6): 1076.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 15.—Chûjô, 1934, Sylvia 5: 167.—Hincks, 1950, Ann. Mag. Nat. Hist. 12, 3: 508 (type: ***Cassida seraphina*** Ménétriès).

Cassidula Weise, 1889 (nec Humphrey, 1797), Wien. Ent. Ztg. 8: 260; 1893, Ins. Deutschl. 6 (6): 1076.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 24, 53.—Chûjô, 1934, Sylvia 5: 165, 169 (type: ***Cassida vittata*** Villers; designation by Gressitt, antedates that of Hincks: ***C. nobilis*** L.).

Mionycha Weise, 1891, Wien. Ent. Ztg. 10: 204 (type: ***Cassida azurea*** Fabr., Europe; monobasic); 1893, Ins. Deutschl. 6 (6): 1075.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 24.—Chûjô, 1934, Sylvia 5: 167.—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 503.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 966, 975.

Odontionycha Ws., 1891, Wien. Ent. Ztg. 10: 204; 1893, Ins. Deutschl. 6 (6): 1074.—Spaeth, 1914, Zool.-Bot. Ges. Wien, Verh. 64 (Sitzb): (135); 1926, Best.-Tab. Eur. Col. 95: 23, 24.—Chûjô, 1934, Sylvia 5: 165.—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 521 (type: ***Cassida viridis*** L.; Europe).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 966, 983.

Taiwania Spaeth, 1913, Mus. Nat. Hung., Ann. 11: 48 (type: ***T. sauteri*** Spaeth; Taiwan; monobasic).—Chûjô, 1934, Sylvia 5: 168.—Gressitt, 1953, Calif. Acad. Sci., Proc. ser. 4, 27: 486.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 964, 969.

Tylocentra Reitter, 1926, in Spaeth, Best.-Tab. Eur. Col. 95: 24, 57.—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 525 (type: ***Cassida virguncula*** Weise; antedates that of Bincks, 1952: ***C. turcmenica*** Ws.).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 968, 985.

Cassidulella Strand, 1928, Ent. Nachr. Bl. 2: 2 (new name for ***Cassidula*** Weise).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 523.—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 968, 984.

Alledoya Hincks, 1950, Ann. Mag. Nat. Hist. ser. 12, 3: 508 (new name for ***Deloyala*** Redt. nec Dup. & Chevr., type: ***Cassida seraphina*** Ménétriès).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 964, 969.

Lasiocassis Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 485 (type: ***Cassida vespertina*** Boh.; E. Palaearctic; new name for ***Deloyala*** Redt. nec Dup. & Chevr.).

Key to Japanese species of Cassida

1. Claws with an appendix at base 2
   Claws without any appendix at base 6
2. Elytra generally seriate-punctate; explanate margins rather horizontal and distinctly set off from disc (subgenus ***Taiwania***) 3
   Elytra entirely irregularly punctured; explanate margins slightly declivitous, not very distinctly set off from disc (subgenus ***Odontionycha***); greenish or brownish, ventral surface black; legs reddish brown, femora black with apex brownish; length 7.0–8.7 mm ..... ***erudita***
3. Explanate margin of elytra lacking a humeral dark spot 4
   Explanate margin of elytra with a dark broad basal area touching basal margin; elytra with coarse transverse or oblique rugae on disc; yellowish brown, disc of elytra dark reddish brown; ventral surface of thorax and abdomen blackish; length; 6.5–7.0 mm ..... ***sigillata***
4. Pronotum narrowed and angulate at side, not broadly rounded; humerus meeting sides of pronotum rather closely, both as regards external margin and inclination 5
   Pronotum broadly rounded at each side; humerus not meeting side of pronotum very closely, projecting and inclined somewhat at steeper angle; yellowish

to reddish brown; pronotal and elytral discs deep reddish brown, darker on sides of elytral disc, nearly black along sides above inner borders of explanate margins; antennae, legs and ventral surface reddish brown; length 7.0–7.4 mm ..... *sauteri*

5. Elytra black or blackish brown, just behind scutellum with a yellowish X-shaped costa which is the highest part of dorsum, a small spot near side of scutellum and a transverse marking on posterior portion of disc yellow, explanate markings yellow with or without an oblique black patch posteriorly; disc of pronotum brownish, with basal portion blackish and with small yellowish brown markings on middle; underside and legs yellowish brown; length 5.3–6.2 mm ..... *versicolora*

Elytra lacking a raised X-shaped area astride suture at summit; dorsal surface entirely yellowish brown or marked with black median line starting from basal portion of pronotal disc to mid point of elytral suture, and with a large, irregular, common U-shaped marking on outer portion of disc, the arms ending on humeral calli; antennae, legs and ventral surface yellowish brown; length 4.2–5.6 mm ..... *circumdata*

6. Tarsal claws narrowly divergent, minute, hidden by hairs of third tarsal segment; fronto-clypeal area with central portion narrowly triangular; elytra regularly seriate-punctate (subgenus *Mionycha*); dorsum yellow, deeper yellow on outer two inter-punctural areas of elytral disc; apex of antennae slightly darkened; length 5.0 mm..... *concha*

Tarsal claws strongly divergent, not minute, projecting at least slightly beyond end of lobes of third tarsal segment, not hidden by hairs of latter... 7

7. Body rotundate or oval, elytra without conical hump; explanate margin of elytra without dark basal and posterior patches 8

Body broadly trapezoidal; elytra with a conical hump (subgenus *Alledoya*); pronotum dark brown to reddish brown, and elytra black or blackish brown; explanate margin of pronotum and elytra light yellowish brown, the former marked with dark brown at angle and the latter with broad black or blackish brown patches at basal and posterior parts, underside black, head and antennae yellowish brown to reddish brown with basal part of femora black; length 4.7–6.7 mm ..... *vespertina*

8. Explanate margin of elytra feebly declivitous; body generally broadly oval or oblong and flattened (subgenus *Cassida* s. str.)..... 9

Explanate margin of elytra steeply declivitous, generally projecting further inferior than ventral surface of body, forming a concavity (subgenus *Cassiduella*).....16

9. Elytra regularly striate punctate, without any punctures in central portion between third and fourth puncture-rows.....10

Elytra not regularly seriate-punctate throughtout, at least with some extra punctures between third and fourth puncture-rows 12

10. Explanate margin of elytra not distinctly thickened at border in central portion.....11

Explanate margin of elytra strongly thickened at border in central portion; pronotum broadly rounded at side; dorsum yellowish brown with minute blackish spots; yellowish to reddish brown with ventral surface black; length 6.3–7.2 mm..... *nebulosa*

11. Oblong-oval; pronotum subarcuate at side, not broadly rounded, lateral angle

situated near base; dorsal surface finely granulate; reddish brown, elytra with many black spots or stripes; length 7.0–8.7 mm ..... *murraea*

Short-oval; pronotum broadly rounded at middle of each side; dorsal surface of elytra with transverse or oblique rugae, or longitudinal costae; reddish brown, in most cases elytra with numerous longitudinal lines and spots of black, and in some cases median portion largely blackish and with or without postero-lateral black marking; length 5.0–5.5 mm ..... *piperata*

12. Dorsal surface contrastingly marked with distinct discal spots on elytra; dorsal surface reddish with suture and about six spots on elytral disc black; body full 1/2 again as long as broad; ventral surface and legs black or reddish brown; length 5.8–7.8 mm ..... *lineola*

Dorsal surface not contrastingly marked; dorsal surface entirely reddish brown..... 13

13. Legs completely black; elytra with short bristle-like hairs; labrum broadly and shallowly emarginate apically; explanate margin sharp-edged 14

Legs not entirely black, though femora sometimes black basally; explanate margins not very sharp-edged 15

14. Clypeus short, slightly longer than wide, shining, and with rather deep punctures; coloration of dorsal surface light reddish brown, sparsely covered with short whitish pubescence, underside entirely black; length 5.5–6.2 mm ..... *fuscorufa*

Clypeus narrow, 1/4 again as long as broad, lusterless, and with rather large punctures sparsely; coloration of dorsal surface varied from reddish brown to pitchy black, covered with numerous long whitish pubescence; underside entirely black; length 7.5–8.0 mm ..... *mongolica*

15. Fronto-clypeal area distinctly longer than broad; elytra glabrous; denticulation of basal margin of elytra not distinct; elytral punctures generally confusedly impressed but subbasal and subsutural ones somewhat regularly arranged; reddish brown; ventral surface black, legs reddish brown, femora black with apex brownish; length 7.0–8.5 mm..... *rubiginosa*

Fronto-clypeal area fully as broad as long; elytra covered with short pubescence; basal margin of elytra closely furnished with distinct denticulation; elytral punctures more regularly arranged in longitudinal rows comparing with *rubiginosa*; reddish brown, in most cases elytra with basal and sutural margins pitchy brown; length 6.2–7.8 mm ..... *vibex*

16. Fronto-clypeus bounded by grooves which meet at antennal insertions, or disappear before meeting.....17

Fronto-clypeus bounded by grooves which unite to for a single median groove before reaching antennal insertions, groove continuing to vertex; femora black; length 3.5–5.5 mm..... *nobilis*

17. Grooves along sides of fronto-clypeus meeting as antennal insertions; yellowish brown, second interstices on each elytron rather pale in coloration, and punctures dark in center; head black, underside black, sides of abdomen yellowish brown, legs black with apex of femora, tibiae and tarsi brownish; length 4.8–5.2 mm ..... *veralis*

Grooves along fronto-clypeus disappearing before antennal insertions; yellowish brown, head black, underside black, with sides of abdomen broadly yellowish brown; legs yellowish brown; length 5.0–6.5 mm ..... *vittata*

Subgenus *Odontionycha* Weise

Cassida (*Odontionycha*) *erudita* Baly

Cassida erudita Baly, 1874, Ent. Soc. Lond., Trans. 1874: 212 (Yokohama; BM).
Cassida equestris: Gorham, 1885, Zool. Soc. Lond., Proc. 1885: 281 (Agematsu).
Cassida (*Odontionycha*) *viridis*: Spaeth, 1914, Col. Cat. 62: 94 (Japan).
Cassida (*Odontionycha*) *viridis japonica* Yasutomi, 1952, Kontyû 19 (3-4): 93, 96, 98, fig. 1 (Sandankyo in Hiroshima Pref., Shimizutoge in Gumma Pref.; KU).
Cassida (*Odontionycha*) *erudita*: Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 199 (Japan).

Distribution: Japan (Hokkaido, Honshu).

Toyama: Tate-yama. *Nagano*: Shimashima; Karuizawa; Asama-Onsen. *Aomori*: Yunomata in Shimokita Pen.

Host: *Isodon Kameba* (after Chûjô & Kimoto, 1961).

Subgenus *Taiwania* Spaeth

Cassida (*Taiwania*) *sigillata* (Gorham)

Coptocyla sigillata Gorham, 1885, Zool. Soc. Lond., Proc. 1885: 284 (Kiga, Okayama; BM).—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 66 (Japan).
Metriona sigillata: Chûjô, 1934, Sylvia 5: 158, 159 (Honshu).
Cassida (*Taiwania*) *sigillata*: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 501 (Japan, E. China, Taiwan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1) 200 (Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 964, 974 (Taiwan, E. China, Korea, Japan).

Distribution: Taiwan, E. China, Korea, Japan (Honshu, Shikoku, Kyushu, Tsushima).

Oita: Mt. Sobo. *Ehime*: Mt. Ishizuchi. *Tottori*: Hoki-Daisen. *Tokyo*: Ilikawa in Okutama.

Cassida (*Taiwania*) *sauteri* (Spaeth)

Taiwania sauteri Spaeth, 1913, Mus. Nat. Hung., Ann. 11: 48 (Taiwan).—Chûjô, 1934, Sylvia 5: 163 (Formosa).
Cassida (*Taiwania*) *sauteri*: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 500 (Taiwan, S. China, Tonkin).—Chûjô, 1958, Kagawa Univ., Mem. Fac Lib. Arts & Educ. 2 (64): 19 (Nakasone in Okinawa).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 200 (S. China, Indo-China, Formosa, Ryukyu).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 965, 973 (Taiwan, Ryukyu, S. China, Tonkin).

Distribution: N. Vietnam, S. China, Taiwan, Ryukyu Is. (Okinawa).

I have not seen any specimens from Japan, except ones recorded by Chûjô (1958).

Cassida (*Taiwania*) *versicolor* (Boheman)

Coptocycla versicolor Boheman, 1855, Mon. Cass. 3: 414 (China).

Coptocycla Thais Boheman, 1862, *op. cit.* 4: 463 (N. China).—Baly, 1874, Ent. Soc. Lond., Trans. 1874: 214 (Japan; N. China).

Coptocycla curicifera Kraatz, 1879, Dtsch. Ent. Ztschr. 23: 271 (Japan).

Metriona Thais: Spaeth, 1926, Best.-Tab. Eur. Col. 95: 65 (Tonkin, Formosa, N. & C. China, Japan).—Chûjô, 1934, Sylvia 5: 160 (Honshu, Kyushu; Formosa, China, Amur, Tonkin).

Metriona thais curicifera: Chûjô, 1934, Sylvia 5: 160 (Japan, Formosa).

Cassida (Taiwania) versicolor: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 502, pl. 28, fig. 6 (Amur, Japan, Ryukyu, Taiwan, China, Hainan, Tonkin, Burma).—Chûjô & Kimoto, 1961, Pac. Ins. 3: 200 (E. Siberia, China, Tonkin, Ryukyu, Formosa, Hainan, Tonkin, Burma).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 965, 974 (Amur, Japan, Ryukyu, Taiwan, S. China, Hainan, Tonkin, Burma).

Distribution: E. Siberia, S. China, Hainan, Tonkin, Burma, Taiwan, Ryukyu Is. (Ishigaki, Okinawa), Japan (Honshu, Sado I., Shikoku Kyushu).

Okinawa group: Okinawa Is. (after Nakane & Kimoto, 1961).

Fukuoka: Shimohirokawa-mura, Yabe-mura, Tashiro in Yame-gun; Kokura City; Mt. Kora in Kurume City; Hirao in Fukuoka City; Mt. Fukuchi. *Oita*: Mt. Sobo. *Tokushima*: Jinryo-mura in Myosai-gun. *Kochi*: Godaisan; Jinzenji in Kochi City; Mt. Kuishi. *Okayama*: Mt. Naki; Kamo-cho in Tomata-gun. *Nara*: Mt. Kasuga. *Fukui*: Mt. Murakuni in Takefu City. *Yamanashi*: Obinayama in Kofu City. *Nagano*: Omachi City; Asama-Onsen. *Tokyo*: Mt. Takao.

Hosts: *Rosaceae* genn. & spp.; *Prunus* spp.; *Malus pumila*; *Pourthiaea villosa* var. *laevis*; *Pyrus purifolia* var. *culta*; *Sorbus alnifolia, S. gracilis* (after Chûjô & Kimoto, 1961).

Cassida (Taiwania) circumdata Herbst

Cassida circumdata Herbst, 1790, Natursyst. Käf. 8: 268, pl. 132, fig. 11 (E. Indies).—Maulik, 1919, Fauna India, Hisp. & Cass., 404 (India).

Coptocycla circumdata: Boheman, 1885, Mon. Cassid. 3: 279.

Metriona circumdata: Chûjô, 1934, Sylvia 5: 158, 161 (Kagoshima, Miyako; China, Formosa, Philippines, Indo-China, India) (with ab. *pescadorensis* Chûjô in p. 162).

Cassida (Taiwania) circumdata: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 489, pl. 28, fig. 2, pl. 36, figs. 6, 9 (S. Kyushu, Ryukyu, Taiwan, Philippines, S. China, Indo-China, India, Ceylon, E. Indies).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 199 (India, Ceylon, Indo-China, S. China, Formosa, Philippines, Pescadores Is., Ryukyu Is., Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 965, 970 (S. Kyushu, Ryukyu Is., Taiwan, S. China, Hainan I., Indo-China, India, Ceylon, E. Indies, Philippine Is.).

Distribution: E. Indies, Ceylon, India, Philippines, Indo-China, Hainan, S. China, Taiwan, Ryukyu Is. (Senkaku Is., Iriomote, Ishigaki, Miyako, Okinawa, Amami-Oshima, Tokara), Japan (?Kyushu).

Senkaku group: Senkaku Is. (1 ex., 3. Apr. 1952, T. Takara leg.). *Sakishima group*: Ishigaki Is. (4 exs., 1. Dec. 1952-5. Jan. 1953, G. E. Bohart leg.); Miyako Is. (after Nakane & Kimoto, 1961). *Okinawa group*: Okinawa Is. (after Nakane & Kimoto, 1961). *Amami group*: Amami-Oshima (after Nakane & Kimoto, 1961). *To-*

kara group: Takarajima (after Nakane & Kimoto, 1961).

Hosts: *Calystegia Soldanella*; *Ipomoea Batatas* (after Chûjô & Kimoto, 1961).

Subgenus *Mionycha* Weise

Cassida (*Mionycha*) *concha* Solsky

Cassida concha Solsky, 1872, Soc. Ent. Ross., Horae 8: 264 (Siberia).

Cassida (*Mionycha*) *concha*: Weise, 1893, Ins. Deutuchl. 6 (6): 1090.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 51 (Ussuri; Kyoto).—Chûjô, 1934, Sylvia 5: 167 (Siberia; Honshu).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 504 (Siberia, Japan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 199 (E. Siberia, N. China, Korea, Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 966, 975 (Siberia, NE China, Korea, Japan).

Distribution: E. Siberia, Manchuria, Korea, Japan (Honshu).

Only a record of the species from Japan was made by Spaeth (1926) and no additional record has ever been done.

Subgenus *Alledoya* Hincks

Cassida (*Alledoya*) *vespertina* (Boheman)

Cassida vespertina Boheman, 1862, Mon. Cassid. 4: 357 (N. China).—Baly, 1874, Ent. Soc. Lond., Trans. 1874: 213 (Hiogo; N. China).

Deloyala vespertina: Spaeth, 1926, Best.-Tab. Eur. Col. 95: 61 (Ussuri, Mongolia, Korea, China, Formosa).

Cassida (*Deloyala*) *vespertina*: Chûjô, 1934, Sylvia 5: 167 (Honshu, Shikoku; Korea, Loochoo, Formosa Mongolia, N. China, Amur).

Cassida (*Lasiocassis*) *vespertina*: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 486 (Amur, Ussuri, China, Formosa, Korea, Japan, Ryukyu).

Cassida (*Alledoya*) *vespertina*: Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 196 (E. Siberia, Mongolia, Korea, China, Formosa, Ryukyu Is., Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 964, 969 (Amur, Ussuri, Mongolia, China, Taiwan, Korea, Japan, Ryukyu).

Distribution: E. Siberia, Mongolia, China, Taiwan, Korea, Japan (Honshu, Shikoku), Ryukyu Is. (Ishigaki, Miyako, Okinawa).

Sakishima group: Ishigaki Is. (21 exs., 1-10. Dec. 1952, G. E. Bohart leg.; 1 ex., 6. Sept. 1955, T. Takara leg.).

Fukuoka: Mt. Hiko. *Oita*: Sobo. *Kochi*: Jinzenji in Kochi City; Kuroson. *Nagano*: Karuizawa. *Yamanashi*: Shosenkyo. *Tokyo*: Hikawa in Okutama.

Hosts: *Clematis apicifolia*; *Calystegia Soldanella* (after Chûjô & Kimoto, 1961).

Subgenus *Cassida* s. str.

Cassida (*Cassida*) *nebulosa* Linnaeus

Cassida nobulosa L., 1758, Syst. Nat., ed. 10: 365 (Europe).—Boheman, 1854, Mon. Cassid. 2: 451.—Baly, 1874, Ent. Soc. Lond., Trans. 1874: 213 (Nagasaki, Kawachi;

N. Asia, Europe, Madeira).—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 30 (Europe, Siberia, Japan).—Chûjô, 1934, Sylvia 5: 171, 172 (Hokkaido, Honshu, Kyushu; Palaearctic region).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 513 (Europe, Siberia, N. China, Korea, Japan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 197 (Palaearctic region).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 966, 980 (Europe, Siberia, N. China, Korea, Japan).

Distribution: Palaearctic region; Japan (Hokkaido, Honshu, Awa-shima, Sado I., Shikoku, Kyushu, Tsushima).

Fukuoka: Tobata City; Fukuoka City; Mt. Inunaki. ***Nagano***: Shimashima. ***Yamanashi***: Masutomi. ***Tokyo***: Suginami. ***Aomori***: Yunomata in Shimokita Pen. ***Hokkaido***: Sapporo City; Ashoro in Tokachi; Piuca in Kamikawa; Aizankei at Mt. Daisetsu.

Hosts: ***Amaranthus ascendens, A. mangostanus***; ***Atriplex subcordata***; ***Beta vulgaris*** var. ***altissima, B. vulgaris*** var. ***flavescens***; ***Chenopodium album*** var. ***centrorubrum*** (after Chûjô & Kimoto, 1961).

Cassida (*Cassida*) *murraea* Linnaeus (Fig. 2a)

Cassida murraea L., 1767, Syst. Nat. ed. 12, 575 (Europe).—Boheman, 1854, Mon. Cassid. 2: 358.—Weise, 1893, Ins. Deutschl. 6 (6): 1077, 1092.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 35 (Europe to E. Siberia).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 197 (Europe, Siberia, Japan).

Cassida murraea subsp. ***ussuriensis***: Watanabe, 1935, Fauna of Towada and Hakkoda, Aomori Pref., Japan, 17, 19 (Towada in Aomori Pref., Kurikomura in Miyagi Pref.).

Distribution: Europe, Siberia, Japan (Honshu).

Aomori: Towada (30 exs., July. 1957, M. Takahashi leg.), Sarakura-Onsen at Towada Prov. (2 exs., 14. July. 1953, M. Otake leg.).

Hosts: ***Carpesium abrotanoides, C. glossophyllum*** (after Chûjô & Kimoto, 1961).

Cassida (*Cassida*) *piperata* Hope

Cassida piperata Hope, 1842, Ent. Soc. Lond., Proc. 1: 62 (China; BM).—Boheman, 1862, Mon. Cassid. 4: 322.—Spaeth, 1914, Zool.-Bot. Ges. Wien, Verh. 64 (Sitzb.): (130) (Amur, Japan, China); 1926, Best.-Tab. Eur. Col. 95: 30 (N. China, Korea, Tonkin, Luzon).—Chûjô, 1934, Sylvia 5: 171, 174 (Honshu, Formosa, Korea, China, Amur, Tonkin, Manila).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 515 (N. & E. China, Taiwan, E. Siberia, Korea, Japan, Tonkin, Luzon).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 197 (E. Siberia, Korea, China, Formosa, Indo-China, Philippines, Ryukyu, Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 967, 981 (China, Taiwan, E. Siberia, Korea, N. Vietnam, Luzon, Japan).

Cassida japana Baly, 1874, Ent. Soc. Lond., Trans. 1874: 212 (Nagasaki; BM).—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 31 (Japan, China, Taiwan).—Chûjô, 1934, Sylvia 5: 171, 173 (Kyushu, Shikoku; Formosa, China, Indo-China).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 508, pl. 33 (Japan, S. China, Taiwan, Indo-China).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 967, 977 (Japan, S. China, Taiwan, Vietnam).

Cassida rugifera Kraatz, 1879, Dtsch. Ent. Ztschr. 23: 274 (Japan).
Coptocycla sparsa Gorham, 1885, Zool. Soc. Lond., Proc. 1885: 284 (Nikko, Sannohe, Sapporo).

Distribution : Indo-China, Philippines, Taiwan, E. Siberia, Korea, China, Ryukyu Is. (Okinawa, Amami-Oshima), Japnn (Hokkaido, Honshu, Sado I., Shikoku, Kyushu, Tsushima, Yakushima).

Amami group: Amami-Oshima (after Nakane & Kimoto, 1961).

Fukuoka: Heiwadai, Tashima in Fukuoka City; Ino in Kasuya-gun; Mt. Wakasugi; Mt. Hiko; Mt. Kora in Kurume City; Mt. Sefuri; Shirashima in Wakamatsu City; Kuroki-machi in Yame-gun; Mt. Sarakura. ***Oita***: Mt. Sobo. ***Miyazaki***: Sadowara-cho in Miyazaki-gun. ***Kagoshima***: Sata-misaki. ***Nagasaki***: Takashima. ***Kochi***: Kashiwa Is. ***Tokyo***: Mt. Takao.

Hosts: ***Achyranthes japonica***; ***Amaranthus ascendens, A. mangostanus*** ; ***Atriplex subcordata***; ***Beta vulgaris*** var. ***altissima, B. vulgaris*** var. ***flavescens***; ***Chenopodium album*** var. ***centrorubrum***; ***Commelina nudiflora***; ***Celosia argentea*** (after Chûjô & Kimoto, 1961).

Cassida (*Cassida*) *lineola* Creutzer

Cassida lineola Creutzer, 1799, Ent. Verz. 119, pl. 2, fig. 23 (Europe).—Spaeth, 1914, Zool.-Bot. Ges. Wien, Verh. 64 (Sitzb.): (138) (Siberia, Mongolia, China, Japan); 1926, Best.-Tab. Eur. Col. 95: 34 (E. Europe, Asia, Japan).—Chûjô, 1934, Sylvia 5: 171, 172, 175 (Honshu; Palaearctic region).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 511, pl. 29, fig. 6 (E. Europe, Siberia, China, Japan, Taiwan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 197 (E. Europe, Siberia, Mongolia, China, Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 967, 978 (Europe, Siberia, Mongolia, China, Korea, Japan, Taiwan).

Distribution: E. Europe, Siberia, Mongolia, China, Korea, Taiwan, Japan (Honshu).

Iwate: Mt. Iwate (1 ex., 25. June. 1936, H. Hasegawa leg.).

Hosts: In Europe: ***Artemisia absinthium, A. camperstris.***

Cassida (*Cassida*) *fuscorufa* Motschulsky

Cassida fuscorufa Mots., 1866, Soc. Nat. Mosc., Bull. 39 (1): 178 (Japan).—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 36 (Ussuri, Korea, Japan).—Chûjô, 1934, Sylvia 5: 172, 177 (Japan, Korea, Formosa, Amur).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 507 (E. Siberia, E. China, Korea, Japan, Taiwan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 196 (Japan, Korea, China, Formosa).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 968, 976 (Japan, E. Siberia, E. China, Korea, Taiwan).
Cassida consociata Baly, 1874, Ent. Soc. Lond., Trans. 1874: 213 (Nagasaki; Oo Oo Bay, Cost of Tartary; BM).

Distribution: Japan (Hokkaido, Honshu, Shikoku, Kyushu, Tsushima), Korea, China, Taiwan.

Fukuoka: Tashiro in Yame-gun; Fukuoka City; Mt. Wakasugi. ***Oita***: Asaji in Ono-gun. ***Kochi***: Tosa-yama. ***Nagano***: Karuizawa. ***Yamanashi***: Amari-yama in Kofu City. ***Tokyo***: Hikawa in Okutama. ***Miyagi***: Sendai City. ***Aomori***: Yunomata in Shimokita Pen, ***Hokkaido***; Sapporo City; Jozankei nr, Sapporo City; Engaru in

Abashiri; Ashoro in Tokachi; Mt. Hakodate, Junsai-numa at Oshima Pen.; Nibushi at Akan Nat. Park.

Hosts: *Artemisia* spp. (after Chûjô & Kimoto, 1961).

Cassida (*Cassida*) *mongolica* Boheman

Cassida mongolica Boh., 1854, Mon. Cassid. 2: 449 (Mongolia).—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 35 (E. Siberia, Mongolia, N. China, N. Japan).—Chûjô, 1934, Sylvia 5: 177 (Japan, China, Mongolia, Siberia).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 513 (E. Siberia, E. China, N. China).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 197 (E. Siberia, Mongolia, N. Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 967, 980 (E. Siberia, Mongolia, N. China, N. Japan).

Distribution: E. Siberia, Mongolia, N. China, N. Japan (no more detailed data).

This species was recorded by Spaeth, 1926, but no other additional records have been done.

Cassida (*Cassida*) *rubiginosa* Müller

Cassida rubiginosa Müller, 1776, Zool. Danmak Prod., 65 (Europe).—Yasutomi, 1952, Kontyû 19 (3-4): 95, 96, 99 (Honshu).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 198 (Palaearctic region).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 968, 982 (Tibet, E. China, Korea, Sachalin, Japan).

Cassida rugosopunctata Motschulsky, 1866, Soc. Nat. Mosc., Bull. 39 (1): 177 (Japan).

Cassida rubiginosa var. *rugosopunctata*: Spaeth, 1926, Best.-Tab. Eur. Col. 95: 44 (Tibet, Korea).—Chûjô, 1934, Sylvia 5: 172, 177 (Sachalin, Hokkaido).—Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 517 (Tibet, China, Korea, Saghalien, Japan).

Distribution: Palaearctic region; Japan (Hokkaido, Honshu, Sado I., Shikoku).

Ehime: Mt. Ishizuchi. *Toyama*: Mt. Tate-yama. *Nagano*: Karuizawa; Shirahone. *Yamanashi*: Masutomi; Shosenkyo. *Tochigi*: Nikko. *Aomori* Yunomata in Shimokita Pen. *Hokkaido*: Yukomanbetsu, Aizankei at Mt. Daisetsu, Ashoro in Tokachi; Junsai-numa at Oshima Pen.

Hosts: *Cirsium* spp.; *Saussurea Tanakae* (after Chûjô & Kimoto, 1961).

Cassida (*Cassida*) *vibex* Linnaeus

Cassida vibex L., 1767, Syst Nat. ed. 12, 575 (Europe).—Boheman, 1854, Mon. Cassid. 2: 377.—Weise, 1893, Ins. Deutschl. 6 (6): 1078, 1107.—Spaeth, 1926, Best.-Tab. Eur. Col. 95: 39 (Europe, Siberia).—Yasutomi, 1949, Shinkonchû 2 (10): 14 (Japan: no more detailed localities).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 198 (Palaearctic region; Japan).

Cassida prasina: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 516 (Japan: Karuizawa).

Distribution: Palaearctic region; Japan (Honshu).

Nagano: Karuizawa (1 ex., 38. Aug. 1959, H. Kamiya leg.); Shimashima (1 ex., 23. June. 1951, T. Nakane leg.). *Yamanashi*: Masutomi (2 exs., 28. July. 1957, S.

Kimoto leg.; 1 ex., 26-29. July. 1957, S. Miyamoto leg.; 1 ex., 23. July. 1956, H. Kamiya leg.).

Hosts: *Cirsium* spp. (after Chûjô & Kimoto, 1961).

Subgenus *Cassidulella* Strand

Cassida (*Cassidulella*) *nobilis* Linnaeus

Cassida nobilis L., 1758, Syst. Nat. ed. 10, 1: 363 (Europe).—Boheman, 1854, Mon. Cassid. 2: 423.—Weise, 1893, Ins. Deutschl. 6 (6): 1082, 1113.

Cassida (*Cassidula*) *nobilis*: Spaeth, 1926, Best.-Tab. Eur. Col. 95: 55 (Europe, Siberia).—Chûjô, 1934, Sylvia 5: 169, 170 (Japan; Palaearctic region).

Cassida (*Cassidulella*) *nobilis*: Chûjô & Kimoto, 1960, Niponius 1 (4): 10 (Bodaira in Mt. Zao-san in Yamagata Pref.); 1961, Pac. Ins. 3 (1): 198 (Japan; Palaearctic region).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 968, 984 (Europe, Siberia, Korea Japan).

Distribution: Palaearctic region; Japan (Honshu).

Yamagata: Bodaira in Mt. Zao (after Chûjô & Kimoto, 1960).

Hosts: In Europe: *Atriplex* spp.; *Beta vulgaris* var. *altissima*; *Chenopodium* spp.; *Honkenya peploides* var. *major*; *Silene maritima*; *Spergula arvensis*.

Cassida (*Cassidulella*) *velaris* Weise

Cassida velaris Ws., 1896, Dtsch. Ent. Ztschr. 1896: 28 (E. Siberia).—Spaeth, 1914, Zool.-Bot. Ges. Wien, Verh. 64 (Sitzb.): (146) (Amur, Tibet, Japan).

Cassida (*Cassidula*) *velaris*: Spaeth, 1926, Best.-Tab. Eur. Col. 95: 54 (Ussuri, Japan).—Chûjô, 1934, Sylvia 5: 169 (Japan, Amur, Tibet, Siberia).

Cassida (*Cassidulella*) *velaris*: Gressitt, 1952, Calif. Acad. Sci., Proc. ser. 4, 27: 523, 524 (E. Siberia, Tsinghai, Japan).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 199 (Siberia, Tibet, N. China, Japan).

Distribution: E. Siberia, Tibet, N. China, Japan (no more detail data).

Spaeth, 1914, recorded the species from Japan, but until today any other record has not been done.

Cassida (*Cassidulella*) *vittata* Villers

Cassida vittata Vill., 1798, Linn. Ent. 1: 93 (Europe).—Weise, 1893, Ins. Deutschl. 6 (6): 1082, 1115.—Spaeth, 1914, Zool.-Bot. Ges. Wien, Verh. 64 (Sitzb.): (103), (146) (Palaearctic region; Kyoto).

Cassida (*Cassidulella*) *vittata*: Spaeth, 1926, Best.-Tab. Eur. Col. 95: 56 (Old world; Japan).—Chûjô, 1934, Sylvia 5: 169, 170 (Palaearctic region; Japan).

Cassida (*Cassidulella*) *vittata*: Chûjô & Kimoto, 1961 Pac. Ins. 3 (1): 119 (Palaearctic region; Japan).—Gressitt & Kimoto, 1963, Pac. Ins. Mon. 1B: 968, 984 (Europe, Siberia, Japan).

Distribution: Europe, Siberia Japan (Honshu).

Spaeth, 1914, recorded this species from Kyoto, but no other

additional records have been done.

Hosts: In Europe: *Arenaria maritima*; *Beta vulgaris* var. *altissima*; *Honkenya peploides* var. *major*; *Salixornia europae*; *Spergula arvensis*; *Urtica doica.*

BIBLIOGRAPHY

I classified the literature concerning the paper into two series, A and B. This method will help to understand the historical development and the present situation of the study on the Japanese or the Asiatic Chrysomelidae.

The literature classified in *Series A* are generally selections of 1) revisional works on the genus (or genera) or more higher categories, not restricted to the Japanese fauna, or revisional works restricted to local fauna (such as India, China or Taiwan) belonging to the Palaearctic and Oriental Regions, 2) works concerning the phylogenic problem of the family. In the series * marked literature indicate that certain description of new species from Japan are included and † marked ones indicating the first record of certain species from Japan are included.

The literature classified in *Series B* are generally 1) revisional works restricted or principally subjected to the Japanese fauna, 2) fragmental contributions which contain new species from Japan or the first record of certain species from Japan.

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1921. Heikertinger, F. Bestimmungstabelle der Halticinen-Gattung ***Psylliodes*** aus dem palaearktische Gebiete mit Ausschluß Japans und der kanarischen Insel. (1, Die ungeflugelten Arten). Kol. Rundsch. 9: 39-62.
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Corrections and additions

p. 132, line 19. "*lateris*" read "*lateritia.*"
p. 146, bracket 18. "Sakishima and Amami groups" read "Sakishima and Okinawa groups."
p. 147, bracket 27. "*permodestus*" read "*obliquostriatus* (=*permodestus*)."
p. 154, line 7. "Kiyosata" read "Kiyosato."
p. 158, bracket 6. "*japanus*" read "*japonicus.*"
p. 159, line 31. "(OHNO)" read "(Yakushima; OHNO)."
p. 163, line 11 from bottom. "suynonym" read "synonym."
p. 163, line 3 from bottom. "MNM" read "NSM."
p. 164, line 2. "*okiawensis*" read "*okinawensis.*"
p. 286, line 4. "*Potanina*" read "*Potaninia.*"

p. 294-295.

Genus *Isshikia* Chûjô, New Status

Isshikia Chûjô, 1961, Ent. Lab., Univ. Osaka Pref., Pub. 6: 87 (type: *I. isshikii* Chûjô, 1961; Ryukyu Is.; as a subgenus of *Galeruca*).

Kimoto (1964g, p. 303) wrongly supposed that *Galeruca* (*Isshikia*) Chûjô is identical

with ***Pyrrhalta nigricornis*** Ohno, and treated ***Isshikia*** as a synonym of ***Pyrrhalta***. However, ***Isshikia*** is distinct from ***Pyrrhalta*** in having the anterior coxal cavities closed behind.

On the other hand, ***Galerotella asahinai*** Chûjô should be transferred to ***Isshikia***, in having anterior coxal cavities closed behind. Though Maulik (1936) does not mention anything about the characters of the anterior coxal cavities of ***Galerotella***, Chûjô referred as the anterior coxal cavities closed behind. According to my study on the type series of ***Galerucella simplicollis*** Jacoby (=***G. virida*** Jacoby), which is the type species of ***Galerotella***, the anterior coxal cavities are no doubt opened behind.

Thus ***Isshikia*** is distinct from any of ***Pyrrhalta*** and ***Galerotella*** and becomes an independent genus with two described species at present.

Isshikia isshikii (Chûjô), New Combination

Galeruca (Isshikia) issikii Chûjô, 1961, Ent. Lab., Univ. Osaka Pref., Pub. 6: 86 (Amami-Oshima; Chujo).

Distribution: Ryukyu Is. (Amami-Ohima).

p. 303.

Pyrrhalta nigricornis Ohno, Valid Name

Pyrrhalta nigricornis Ohno, 1961, Kontyû 30 (1): 27 (Amami-Oshima; Ohno).
Pyrrhalta isshikii: Kimoto, 1964, Kyushu Univ., Jour. Fac. Agr. 13 (2): 297, 303 (Amami-Oshima).

Distribution: Ryukyu Is. (Amami-Oshima).

Hosts: ***Vibrunum suspendum, V. Awabuki*** (after Ohno, 1962).

p. 424.

Genus *Hippuriphila* Foudras

Hippuriphila Foudr., 1860, Soc. Linn. Lyon, Ann. (n. s.) 6: 147; *t. c.* 7: 50.—Heikertinger, 1912, in Reitter, Fauna Germ. 4: 145, 154; 1924, Kol. Rundsch. 11: 44; 1925, *t. c.*, 52, 69; 1948, *t. c.*, 31 (1-3): 34; 1950, *t. c.*, 31 (4-6): 132.
Parachalcoides Chûjô, 1959, Kagawa Univ., Mem. Fac. Lib. Arts & Educ. 2 (81): 13 (type: ***P. babai*** Chûjô; Japan; monobasic).—Kimoto, 1965, Kyushu Univ., Jour. Fac. Agr. 13 (3): 402, 424. **New Synonymy**

Through the kindness of Dr. G. Scherer, I compared ***Parachalcoides babai*** Chûjô with the European specimens of ***Hippuriphila modeeri*** which was the type species of ***Hippuriphila***. As a result of my study, it was proved that those two species were congeneric. It should be treated that ***Parachalcoides*** Chûjô is a synonymy of ***Hippuriphila*** Foudras.

Hippuriphila babai (Chûjô), New Combination

Parachalcoides babai Chûjô, 1959, Kagawa Univ., Mem. Fac. Lib. Arts & Educ. 2 (81):

14 (Japan: Tappi in Aomori Pref.; CHUJO).—Chûjô & Kimoto, 1961, Pac. Ins. 3 (1): 188 (Japan).—Kimoto, 1965, Kyushu Univ., Jour. Fac. Agr. 13 (3): 425 (Hokkaido, Honshu).

Distribution: Japan (Hokkaido, Honshu).

pp. 455, 458.

Longitarsus lewisii (Baly)

Thyamis lewisii Baly, 1874, Ent. Soc. Lond., Trans. 1874: 199 (Nagasaki; BM).
Longitarsus lycopi: Jacoby, 1885, Zool. Soc. Lond., Proc. 1885: 729 (Japan: Tisc?).
Longitarsus menthae Chûjô, 1938 (nec Bedel, 1898; nec Gentner, 1925), Nat. Hist. Soc. Formosa, Trans. 28: 15, fig.
Longitarsus nipponensis Csiki, 1940, Col. Cat. 169: 576 (new name for *L. menthae* Chûjô).—Kimoto, 1956, Kyushu Univ., Jour. Fac. Agr. 13 (3): 458. **New Synonymy**

Previously, I treated *Longitarsus nipponensis* Csiki (=*L. menthae* Chûjô) as a doubtful species about its status. Through the kindness of Dr. Satoru Kuwayama, I had an opportunity to examine a cotype specimen of *Longitarsus menthae* Chûjô, which is preserved in the Hokkaido National Agricultural Experimental Station, Kotoni, Sapporo, Hokkaido. As a result of my study on the cotype, it was proved that the species described under the name of *Longitarsus menthae* Chûjô is no doubt identical with *L. lewisii* Baly.

Distribution: Sachalin, Japan (Hokkaido, Honshu, Hachijo-jima, Hachijo-kojima, Shikoku, Kyushu, Tsushima), Ryukyu Is. (Tokara Is., Okinawa, S. Borodino Is.).