SCI. REP. KYOTO PREF. UNIV. (NAT. SCI., LIV. SCI. & WELF. SCI.), No. 15, Ser. A, P. 17~38. (OCT. 1964)

Seasonal and altitudinal distribution of beetles in Mt. Jônen, the Japan Alps, with descriptions of new species, I

(Studies on the insects of high mountains, III)

By KIYOSHI KAMIMURA, TAKEHIKO NAKANE and NAGAO KOYAMA

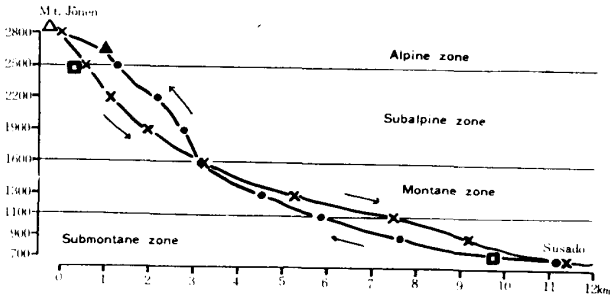

Fig. 1. Sketch-map showing the stations studied

●——● The round on Thursday (the Honsawa Road)
×——× The round on Friday (the Ichinosawa Road)
▲ Our camp (Mt. MaeJônen)
□ The rain observatories

The authors studied the seasonal and altitudinal distribution of beetles by the carrion trap method at the east slope of Mt. Jônen (2857m, 36°19.3′N, 137°43.8′E), the Japan Alps. Six carrion-traps were arranged every altitudinal interval of 200 or 300 m along the two paths and trapped beetles were collected periodically. The research was continued from May to November, 1960. The other methods on the observation are as same as those in the part II of this series*.

In the previous paper the accounts were given of the distribution of 60 species (3431 exs.) of the Carabid beetles and in the present paper the distribution of various beetle groups except the above Carabid and two others, Hydrophilid and Staphylinid (32 families, 145 species, 15111 examples).

The authors wish to express their gratitude to Professor Yûichirô Ikeda of Shinshu University, Matsumoto for the use of his laboratory. Thanks are also due to Mr. Tsuneo Yamada of the Jônen Lodge for his great kindness, the members of the Matsumoto Abattoir for supplying the porker-viscera and the research staffs of the Matsumoto Meteorological Station for offering the weather reports.

Results listed**

Date / Altitude(m)	V	VI	VII	VIII	IX	X	XI	Total
	13. 20. 27.	3. 10. 17. 24.	1. 8. 15. 22. 29.	5. 12. 19. 26.	2. 9. 16. 23. 30.	7. 18.	1. 8. 15. 26. 29	

SILPHIDAE (20 species, 10181 exs.)

61) *Camioleum loripes* LEWIS

a) X, 18-X, 31. b) 1600 m. c) 1. d) Honshu.

1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0				1

* Kamimura, K., Nakane, T., and Koyama, N. (1962) Seasonal and altitudinal distribution of Carabid beetles in Mt. Jönen, the Japan Alps. (Studies on the insects of high mountains, II). Sci. Rep. Kyoto Pref. Univ. (Nat. Sci. & Liv. Sci.), Vol. 3, No. 4, Ser. A., p. 197~210. (In Japanese)

** **Indications**. a) enticed period ; bold type→time of the maximum catch. b) altitudinal distribution ; bold type → height of the maximum catch. c) total enticed number of individuals ; in case of 2800m through the research and of each level above 700m (900~2500m) before the 2nd of June or after the 7th of November, each number is doubled, because the traps were examined only by half (along one path). d) geographical distribution.

62) *Apteroloma discicolle* LEWIS

a) VII, 15-X, 31. b) 2200-2800m, c) 7. d) Honshu.

2800	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	0	0	0	6
2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2	0	0	0	0	1	7

63) *Pteroloma gotoi* NAKANE

a) VIII, 19-VIII, 25. b) 1600m. c) 1. d) Honshu.

1600	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1

64) *Pelatines striatipennis* LEWIS

a) VII, 15-**X**, **31**-XI,7. b) **1600**-2800m. c) 71. d) Honshu, Shikoku.

2800	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	0	4	2	2	2	0	0	0	0	24
2500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	3
2200	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2	2	1	0	0	0	8
1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	2	0	0	1	8
1600	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	5	9	5	2	2	28
Total	0	0	0	0	0	0	0	0	1	0	0	0	3	4	9	0	4	6	10	10	12	5	2	3	71

65) *Thanatophilus subrugosus* PORTEVIN

a) V, 20-V, 26. b) 700m. c) 8. d) Honshu, Shikoku.

700	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8

66) *Silpha longicornis* PORTEVIN

a) V, 13-**VII**, **21**-X, 31. b) 900-**1600**-1900m. c) 762. d) Honshu.

1900	0	0	4	2	2	1	11	3	10	3	3	3	2	1	0	4	5	7	5	6	4	4	2	0	0	0	0	82
1600	0	2	12	3	2	2	23	24	35	45	29	15	5	0	0	1	2	11	32	17	15	19	3	0	0	0	0	297
1300	0	0	0	0	0	0	1	12	9	18	11	20	5	0	0	0	0	1	0	0	2	3	3	0	0	0	0	85
1100	4	0	2	4	2	2	11	4	1	5	11	23	19	2	7	1	3	2	4	3	3	11	9	0	0	0	0	133
900	0	4	2	1	3	9	15	29	13	10	16	17	8	0	6	7	4	2	4	6	0	9	0	0	0	0	0	165
Total	4	6	20	10	9	14	61	72	68	81	70	78	39	3	13	13	14	23	45	32	24	46	17	0	0	0	0	762

67) *Oiceoptoma nigropunctata* LEWIS

a) V, 20-**V**, **26**-VIII, 11. b) **700**-1600m. c) 38. d) Honshu.

1600	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1300	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1100	0	2	2	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
900	0	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
700	0	14	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	0	18	6	6	3	1	0	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38

68) *Oiceoptoma thoracica* LINNÉ

a) V, 20-**VIII**, **4**-X, 6. b) 1100-**1600**-2800m. c) 460. d) Hokkaido, Honshu.

2800	0	0	0	0	0	0	2	2	4	4	2	20	18	0	0	4	0	0	0	0	2	0	0	0	0	0	0	58
2500	0	0	0	0	0	0	2	8	6	3	2	22	14	0	13	0	1	0	1	0	1	0	0	0	0	0	0	73
2200	0	0	2	2	2	4	2	18	9	0	1	27	3	1	3	5	0	0	0	0	0	0	0	0	0	0	0	79
1900	0	0	6	23	7	3	0	6	2	3	1	11	1	1	7	2	2	0	0	12	0	0	0	0	0	0	0	87
1600	0	58	20	20	0	12	1	1	2	1	3	3	1	1	1	6	0	0	0	0	0	0	0	0	0	0	0	130
1300	0	2	2	1	1	3	1	1	0	0	0	0	0	0	0	1	0	2	3	3	2	0	0	0	0	0	0	22
1100	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	4	0	0	0	0	0	0	11
Total	0	62	30	46	10	22	8	36	23	11	9	83	37	3	24	18	3	3	5	18	9	0	0	0	0	0	0	460

69) *Oiceoptoma subrufa* LEWIS

a) V, 20-**VIII**, **4**-IX, 29. b) 700-**1900**-2800m. c) 277. d) Hokkaido, Honshu; Kurile Is., Sakhalin.

2800	0	0	0	0	0	0	0	0	0	0	0	2	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	10
2500	0	0	0	0	0	0	0	0	0	1	0	17	11	0	3	1	0	0	0	0	0	0	0	0	0	0	0	33
2200	0	0	0	0	0	0	0	1	0	0	0	18	4	0	22	0	0	0	0	0	0	0	0	0	0	0	0	45
1900	0	0	0	0	0	0	0	0	0	0	6	66	16	0	0	2	0	0	0	0	0	0	0	0	0	0	0	90
1600	0	4	0	2	0	0	0	0	1	14	0	24	5	0	1	0	0	1	0	0	0	0	0	0	0	0	0	52
1300	0	4	0	0	0	0	1	0	0	0	1	2	0	0	2	0	2	1	9	3	0	0	0	0	0	0	0	25
1100	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	1	2	1	1	5	0	0	0	0	0	0	0	14
900	0	2	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
700	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	12	0	4	2	1	1	1	1	15	9	129	36	3	34	4	4	3	10	8	0	0	0	0	0	0	0	277

70) *Eusilpha japonica* MOTSCHULSKY

a) VIII, 18-VIII, 25. b) 700m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu; Formosa.

700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1

71) *Calosilpha brunnicollis* KRAATZ

a) V, 20-V, 27., VII, 15-VIII, 25. b) 700-**900**-1100m. c) 8. d) Honshu, Shikoku, Kyushu; Formosa.

1100	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
900	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
700	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	2	0	0	0	0	0	0	0	1	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	8

72) *Ptomascopus morio* KRAATZ

a) V, 13-**VIII**, **4**-IX, 22. b) **700**-1900m. c) 2088. d) Hokkaido Honshu, Shikoku, Kyushu; Korea, Formosa, China,

1900	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1600	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
1300	0	0	0	0	0	0	0	1	0	0	2	5	3	9	6	1	0	0	0	0	0	0	0	0	0	0	0	27
1100	0	0	0	0	0	0	1	6	0	3	3	68	7	9	10	1	0	0	0	0	0	0	0	0	0	0	0	108
900	0	0	0	2	0	1	0	19	0	3	8	198	19	26	8	1	0	0	0	0	0	0	0	0	0	0	0	285
700	2	32	4	27	57	12	7	44	0	0	18	661	186	239	260	106	6	0	1	0	0	0	0	0	0	0	0	1662
Total	2	32	4	29	57	13	8	70	0	6	31	935	216	283	286	109	6	0	1	0	0	0	0	0	0	0	0	2088

73) *Nicrophorus concolor* KRAATZ

a) V, 20-**VIII**, **4**-X, 6. b) **700**-1300m. c) 459. d) Hokkaido, Honshu, Shikoku, Kyushu; Korea, Formosa, North China, Mongolia.

1300	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	4
1100	0	0	0	4	2	1	2	12	1	2	2	24	1	4	10	3	3	0	0	0	0	0	0	0	0	0	0	71
900	0	2	0	1	0	9	5	42	0	0	0	32	2	11	12	0	1	0	0	0	0	0	0	0	0	0	0	117
700	0	22	14	19	6	7	2	47	0	0	0	71	14	32	20	4	4	0	1	1	3	0	0	0	0	0	0	267
Total	0	24	14	24	8	17	9	101	1	2	2	129	17	47	42	8	9	0	1	1	3	0	0	0	0	0	0	459

74) *Nicrophorus tenuipes* LEWIS

a) VI, 10-**VIII**, **4**-X, 31. b) 1100-**1900**-2800m. c) 2049. d) Hokkaido, Honshu; Kurile Is., Sakhalin, Korea, Manchuria.

2800	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2500	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6
2200	0	0	0	0	0	1	7	22	69	48	57	69	39	6	11	1	1	2	0	2	1	1	0	0	0	0	0	337
1900	0	0	0	0	0	0	38	80	152	104	108	238	200	45	13	9	9	2	12	13	3	1	3	0	0	0	0	1030
1600	0	0	0	0	1	1	15	47	25	93	89	121	140	40	57	8	2	3	2	5	3	0	0	0	0	0	0	652
1300	0	0	0	0	0	0	0	0	0	3	0	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	8
1100	0	0	0	0	0	0	0	1	0	2	1	1	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	0	0	0	0	1	2	60	150	246	251	255	430	389	91	89	19	12	7	14	20	8	2	3	0	0	0	0	2049

75) *Nicrophorus maculifrons* KRAATZ *

a) V, 13-**VII**, **7**-XI,7. b) 700-**1100**-**1900**-2800m. c) 513. d) Hokkaido, Honshu, Shikoku, Kyushu; Sakhalin, North China, Siberia.

2800	0	0	0	0	0	0	0	0	2	0	2	2	0	0	2	0	0	0	0	0	0	0	0	0	8
2500	0	0	0	0	0	0	0	0	1	2	3	7	1	0	0	1	0	0	0	0	0	0	0	0	15
2200	0	0	0	0	0	3	2	18	7	1	2	3	1	1	1	0	0	0	0	0	0	0	0	0	39
1900	0	0	0	3	3	4	3	23	16	8	9	14	5	1	1	1	0	0	0	1	0	0	0	0	92
1600	0	14	4	6	5	15	6	13	3	3	0	1	0	0	0	2	0	1	2	0	2	0	0	0	77
1300	4	24	10	6	2	3	1	4	0	1	2	2	1	0	0	0	1	2	4	5	7	3	1	2	85
1100	2	4	2	4	0	0	2	12	0	5	6	5	4	2	6	5	4	2	7	12	8	10	1	0	103
900	2	10	4	0	0	1	0	6	0	4	0	9	1	2	0	0	0	0	1	2	4	13	2	0	61
700	0	2	4	2	0	0	2	4	1	0	0	3	1	0	0	0	0	0	2	1	5	5	1	0	33
Total	8	54	24	21	10	26	16	80	30	24	24	46	14	6	10	9	5	5	16	21	26	31	5	2	513

76) *Nicrophorus japonicus* HAROLD

a) V, 20-V, 26., VII, 29-VIII, 4. b) 700m. c) 4. d) Honshu, Shikoku, Kyushu; Korea, Formosa, China, Mongolia.

700	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4

77) *Nicrophorus quadripunctatus* KRAATZ

a) V, 20-**VIII**, **4**-XI, 14. b) 700-**1300**-2200m. c) 1060. d) Hokkaido, Honshu, Shikoku, Kyushu; China.

2200	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
1900	0	0	0	0	0	0	0	2	2	2	1	29	8	1	1	10	0	0	2	1	0	0	0	0	59
1600	0	0	0	0	0	2	2	13	6	14	23	36	15	12	8	5	2	7	11	21	1	0	1	0	179
1300	0	0	0	3	2	3	5	23	2	3	20	59	32	51	33	42	23	5	17	10	5	6	3	0	347
1100	0	4	2	3	6	10	5	25	6	44	46	43	25	11	14	16	4	3	1	4	4	4	2	2	284
900	0	0	2	13	3	9	4	8	2	6	9	1	0	3	6	23	11	26	18	1	2	10	3	0	160
700	0	2	10	6	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	27
Total	0	6	14	25	14	24	16	75	18	69	99	169	83	78	62	96	40	41	49	37	12	20	9	2	1060

78) *Nicrophorus investigator* ZETTERSTEDT

a) VII, 8-**IX**, **1**-XI, 25. b) 700-**1600**-2800m. c) 385. d) Hokkaido, Honshu, Shikoku, Kyushu; Kuriles., Sakhalin, Central & North Asia, Europe, North America.

2800	0	0	0	0	0	0	0	0	0	0	2	4	10	2	2	0	0	0	0	0	0	0	0	0	20
2500	0	0	0	0	0	0	0	0	0	4	1	18	10	2	4	2	1	0	0	0	0	0	0	0	42
2200	0	0	0	0	0	0	0	0	0	0	1	7	4	2	5	6	2	0	0	0	0	0	0	0	27
1900	0	0	0	0	0	0	0	0	2	7	4	10	7	2	8	13	13	2	2	0	0	0	0	0	70
1600	0	0	0	0	0	0	0	0	2	4	1	4	2	5	15	25	11	3	14	1	0	0	0	0	87
1300	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	3	1	17	15	21	1	0	0	0	61
1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	8	12	17	4	1	1	2	46
900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	10	1	2	21
700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	8	0	0	11
Total	0	0	0	0	0	0	0	0	4	15	10	44	34	13	34	50	28	30	43	46	6	19	2	4	385

79) *Nicrophorus montivagus* LEWIS

a) V, 20-**VII**, **21**-X, 17. b) 900-**1600**-2200m. c) 174. d) Honshu, Shikoku.

2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1900	0	0	2	0	1	0	0	1	0	1	0	2	3	1	1	0	1	0	0	0	0	0	0	0	13
1600	0	2	0	5	4	4	1	5	6	23	6	10	10	0	6	1	1	0	0	2	0	0	0	0	86
1300	0	0	0	0	2	3	0	3	1	2	5	4	3	7	0	1	0	0	0	6	2	0	0	0	39
1100	0	0	0	4	1	0	2	0	1	2	1	1	6	0	4	0	2	1	3	1	0	1	0	0	30
900	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	3	0	0	5
Total	0	2	2	9	8	7	3	9	8	28	12	18	22	8	11	2	5	1	3	9	3	4	0	0	174

* According to our observation *Nicrophorus karafutonis* Kôno cannot be separated from *N. maculifrons*. Between the typical forms of these two species there are a series of intermediate forms, and in some examples certain characters are of *maculifrons*, while some others are of *karafutonis*. We treat, therefore, *N. karafutonis* as a synonym of *N. maculifrons*.

80) *Nicrophorus vespilloides* HERBST

a) V, 20-**VIII**, **4**-X, 31. b) 1300-**2200**-2800m. c) 1815. d) Hokkaido, Honshu; Sakhalin. Central & North Asia, Europe.

2800	0	0	0	0	2	0	24	84	18	58	6	14	0	2	4	2	0	0	6	0	0	0	0	0	0	0	0	220
2500	0	0	0	1	0	7	16	72	50	76	35	33	13	8	8	2	6	3	15	4	1	2	0	0	0	0	0	352
2200	0	0	0	1	9	26	32	123	122	75	98	198	85	16	18	13	5	7	13	6	6	5	2	0	0	0	0	860
1900	0	0	0	7	13	13	11	21	46	37	37	77	26	22	8	2	1	0	2	5	1	1	2	0	0	0	0	332
1600	0	4	0	0	1	5	0	1	6	20	0	6	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	49
1300	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	4	0	9	25	51	83	301	242	266	176	329	124	52	41	19	12	10	36	15	8	8	4	0	0	0	0	1815

HISTERIDAE (8 species, 1505 exs.)

81) *Saprinus cuspidatus* IHSSEN

a) V, 20-**V**, **26**-VIII, 11. b) **700**-1100m. c) 20. d) Honshu, Kyushu; Siberia, Europe.

1100	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
900	0	2	0	3	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7
700	0	4	0	0	1	0	2	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	0	6	0	5	1	0	2	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	20

82) *Saprinus nipponensis* DAHLGREN

a) VI, 3-**VIII**, **4**-IX, 9. b) 700-**1100**m. c) 107. d) Honshu.

1100	0	0	0	2	0	0	0	0	1	8	8	18	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	45
900	0	0	0	0	0	0	0	3	0	3	5	4	7	5	5	0	0	0	0	0	0	0	0	0	0	0	0	32
700	0	0	0	0	0	1	3	3	0	0	5	10	3	0	4	0	1	0	0	0	0	0	0	0	0	0	0	30
Total	0	0	0	2	0	1	3	6	1	11	18	32	17	5	10	0	1	0	0	0	0	0	0	0	0	0	0	107

83) *Onthophilus kamiyai* ADACHI

a) V, 20-**V**, **26**-VI, 2. b) 1100-**1300**-1600m. c) 10. d) Honshu.

1600	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1300	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
1100	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

84) *Hister jekeli* MARSEUL

a) IX, 9-IX, 15. b) 1100m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu; Korea, China.

1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1

85) *Hister japonicus* MARSEUL

a) V, 20-V, 26. b) 700m. c) 2. d) Honshu, Shikoku, Kyushu; China.

700	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

86) *Hister boleti* LEWIS

a) V, 20-**VII**, **7**-VIII, 28. b) **900**m. c) 14. d) Honshu.

900	0	2	0	1	0	0	0	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14

87) *Margarinotus balloui* WENZEL

a) V, 20-**VI**, **30**-VII* 7., IX, 30-X, 7. b) 900-**1100**-1300m. c) 19. d) Honshu.

1300	0	0	0	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
1100	0	0	2	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	9
900	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	2	4	3	1	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	19

* The examples of *M. balloui* collected on the 2nd of June in 1100m altitude may possibly be *M. weymarni*.

88) *Margarinotus niponicus* LEWIS

a) V, 20-**VII**, **7**-X, 31. b) 700-**900**-1600m. c) 1332. d) Hokkaido, Honshu, Shikoku, Kyushu; Amur, Formosa.

1600	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1300	0	0	4	7	2	8	0	11	2	2	1	4	0	8	0	0	0	0	0	0	0	0	0	0	49
1100	0	6	6	17	14	6	23	24	24	22	56	54	3	1	0	3	0	1	0	0	0	0	1	0	0	0	261
900	0	154	52	94	17	5	9	66	98	19	25	14	5	3	0	8	0	0	0	1	0	0	0	0	0	0	570
700	0	120	48	11	39	27	26	84	16	1	5	38	25	4	1	3	2	0	0	0	0	0	0	0	0	0	450
Total	0	280	110	129	73	47	58	185	140	44	87	110	33	16	1	14	2	1	0	1	0	0	1	0	0	0	1332

LEIODIDAE (2 species, 3 exs.)

89) *Leiodes alpicola* NAKANE

a) VIII, 19-VIII, 25. b) 1600m. c) 1. d) Honshu.

1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1

90) *Colenis grandis* PORTEVIN

a) VI, 10-VII, 7. b) 700-900m. c) 2. d) Honshu.

900	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
700	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

CATOPIDAE* (15 species, 2274 exs.)

91) *Ptomaphagus sibiricus* JEANNEL

a) VI, 24-**VII**, **21**-X, 6. b) 700-**1300**-1900m. c) 31. d) Honshu; East-Siberia.

1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1600	0	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
1300	0	0	0	0	0	0	0	1	2	1	1	2	2	0	0	0	3	0	4	0	1	0	0	0	17
1100	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
900	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
700	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	2	3	3	7	2	3	2	0	0	1	3	0	4	0	1	0	0	0	31

92) *Micronemadus pusillimus* KRAATZ

a) V, 20-**V**, **27**-VII, 7., X, 18-X, 31. b) 700-**1100**-1300m. c) 6. d) Honshu; Assam.

1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
1100	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
900	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
700	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6

93) *Prionochaeta harmandi* PORTEVIN

a) V, 20-**V**, **27**-X, 17. b) 700-**900**-1600m. c) 64. d) Hokkaido, Honshu.

1600	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1300	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	1	1	1	1	1	0	0	8
1100	0	0	0	0	0	0	0	0	0	3	0	1	0	1	1	0	0	1	0	0	0	0	0	0	7
900	0	14	10	1	2	0	2	1	0	2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	36
700	0	0	4	0	2	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	0	14	14	1	4	1	2	3	0	10	0	1	0	2	2	4	0	2	1	1	1	1	0	0	64

* A real enticed number of the Catopid beetles may be more than denotation. The Catopids moved swiftly, crawled directly into the food of a vial hanging in the trap and were able to escape from the trap, and their bodies were, what is worse, fragile and frequently broken up in pieces by other beetles.

94) *Sciodrepoides japonicus* JEANNEL

a) V, 13-**X**, **31**-XI, 14. b) 700-**1300**-1600m. c) 74. d) Hokkaido, Honshu, Kyushu.

1600	0	2	0	3	2	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	11
1300	2	2	2	0	0	0	0	0	0	0	0	0	0	0	10	3	0	0	0	0	2	0	8	0	0	0	0	29
1100	2	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	1	0	4	0	0	0	0	10
900	0	0	8	0	6	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	19
700	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	0	1	0	0	5
Total	4	4	10	3	8	0	0	6	0	0	0	2	4	0	10	3	0	0	0	0	4	1	14	0	1	0	0	74

95) *Sciodrepoides fumatus* SPENCE

a) V, 13-**VI**, **2**-XI, 8. b) 700-**1600**-1900m. c) 394. d) Hokkaido, Honshu; Korea, Siberia, Europe, North America.

1900	0	8	2	4	2	6	0	0	0	8	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
1600	0	24	28	22	8	16	1	3	28	5	2	9	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	150
1300	2	8	2	2	0	0	0	0	1	0	0	4	0	1	2	0	0	1	3	0	0	1	0	0	0	0	0	27
1100	0	6	0	1	0	0	0	1	0	1	0	0	0	1	5	0	1	0	0	0	0	0	0	0	0	0	0	16
900	0	6	42	7	7	1	1	8	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	77
700	0	4	26	2	35	1	3	12	1	0	0	1	1	0	0	2	0	0	1	0	0	0	0	1	0	0	0	90
Total	2	56	100	38	52	24	5	24	30	18	3	17	1	2	9	3	1	1	4	0	0	1	0	3	0	0	0	394

96) *Sciodrepoides alpestris* JEANNEL*

a) V. 20-**V**, **26**-VIII, 19., IX, 30-X, 6. b) 700-**1600**-2800m. c) 21. d) Honshu (new record); Central Europe.

2800	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1900	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1600	0	2	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
1300	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	4
700	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	0	8	2	3	3	3	0	2	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	24

97) *Catops jonensis* NAKANE**

a) VII. 1-**VIII. 18**-X, 31. b) 1300-**2800**m. c) 86. d) Honshu.

2800	0	0	0	0	0	0	0	0	0	10	4	6	0	0	0	0	0	2	0	0	0	0	0	0	0	0	22
2500	0	0	0	0	0	0	0	1	0	6	1	5	0	4	0	2	1	0	0	0	0	0	0	0	0	0	20
2200	0	0	0	0	0	0	0	0	0	1	1	1	0	6	4	0	1	0	0	0	0	0	1	0	0	0	15
1900	0	0	0	0	0	0	0	0	1	0	0	1	0	7	0	3	3	2	0	0	1	0	0	0	0	0	18
1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	3	1	0	0	0	0	0	10
Total	0	0	0	0	0	0	0	1	1	17	6	13	0	17	4	5	5	6	4	3	2	1	1	0	0	0	86

* *Sciodrepoides alpestris* Jeannel, 1934. ··· Jeannel (1936) recorded this species from Central Europe (Austria, Rumania and Czechoslovakia). We found unexpectedly a small series of examples of this European species in the Catopids obtained during the survey at Mt. Jônen.

** *Catops jonensis* Nakane sp. nov. ···Numerous examples of a species of *Catops* were collected during the survey, but unfortunately most of them are damaged or broken in pieces. Holotype : ♂, Mt. Jônen, 2800 m alt., 28, VII. 1960, K. Kamimura leg. Allotype: ♀ same as above. Paratypes : 16 ex. Mt. Jônen, 1300～2800 m alt. VII-XI. 1960, K. Kamimura leg.

Blackish brown, with mouth organs, basal half of brown antennae, legs reddish brown, elytra also reddish brown, but usually posterior half blackish and the dark colour extending far forwards along suture and lateral margins. Upper surface clothed with yellowish brown recumbent hairs. Head densely and rather coarsely punctured. Antennae rather robust, with 4th joint not transverse, 5th very slightly wider than long, 6th transverse, 7th larger than but similar in shape to 5th, 8th narrower than and about half as long as 7th, 9th and 10th slightly shorter than 7th, transverse, 11th rounded, with projected apex, where it is acuminate and obtusely rounded at tip. Pronotum transverse, widest behind middle, with sides rounded, narrowed somewhat more in front than behind, front angles rounded and hind ones obtuse but distinct, disc closely bearing distinct rasp-like punctures and transrugose. Elytra oval, with sides gently arched and each apex rounded, surface finely and not so closely asperate-punctate, with interspace subopaque and bearing a grey opaque reflexion, and not striate except a sutural stria. Metasternum roughly but plainly sculptured and somewhat transrugose, and abdomen similarly but more finely sculptured. Male profemora bearing a tubercle in middle of under side. Male protibiae dilated to apex. with inner margin nearly straight. Male protarsi dilated in 3 basal joints and basal joint of mesotarsi weakly thickened. Penis slender, slightly dilated to preapical portion and distinctly but not broadly furrowed along middle of dorsum near apex, with apex narrowed and transversely reflexed. Body length : 2.5～3 mm.

Allied to *C. hilleri* Kraatz in appearance and general colouration, but the body is usually a little darker in colour, the posterior angles of pronotum are more distinct and the punctures on head are distinctly coarser, and the penis is slenderer and different in shape of apical portion.

98) *Catops sparcepunctatus* JEANNEL

a) V, 20-**VI**, **9**-XI, 14. b) 1100-**1900**-2800m. c) 695. d) Honshu.

2800	0	0	0	0	0	0	0	0	0	0	4	0	0	8	0	0	0	0	0	0	0	0	0	0	0	12
2500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
2200	0	0	0	0	10	35	10	10	13	43	2	2	5	8	0	2	1	0	3	0	1	6	1	0	0	0	0	152
1900	0	2	0	150	10	17	32	20	17	7	3	8	3	11	4	0	2	9	6	4	0	3	4	0	0	0	0	312
1600	0	0	26	8	16	17	2	2	6	0	5	0	0	15	10	16	12	0	0	9	0	5	0	0	6	0	0	155
1300	0	0	0	0	1	0	0	0	2	0	0	0	3	5	0	1	0	8	14	5	4	0	13	2	0	0	0	58
1100	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5
Total	0	2	26	159	37	70	45	32	38	51	14	10	11	47	15	19	15	17	23	18	6	14	18	2	6	0	0	695

99) *Catops hilleri* KRAATZ

a) V, 20-VIII. 4., VIII, 26-**X**, **31**-XI, 29. b) 700-**1300**-2200m. c) 497. d) Honshu, Kyushu.

2200	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5	0	2	1	0	0	0	0	0	0	0	9
1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	0	0	5	0	2	12	0	0	0	26
1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	21	17	12	16	2	4	0	0	79
1300	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	4	15	18	17	16	60	68	6	6	2	216
1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	12	30	2	4	6	4	69
900	0	4	0	4	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4	4	4	4	2	0	0	28
700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	27	14	12	8	0	63
Total	0	4	0	4	0	1	0	0	0	0	2	1	0	0	0	1	9	12	22	42	51	46	139	102	28	20	6	490

100) *Catops angustitarsis lewisi* JEANNEL

a) V. 27-IX, 8., X, 18-XI, 8. b) 700-**1600**-2200m. c) 24. d) Hokkaido, Honshu; East Siberia, Mongolia.

2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
1900	0	0	0	3	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
1600	0	0	2	0	0	1	0	0	0	2	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	8
1300	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	5
900	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total	0	0	2	3	1	3	3	2	0	2	0	0	0	2	0	0	1	0	0	0	0	0	4	1	0	0	0	24

101) *Catops nurukawai* SZYMCZAKOWSKI

a) IX, 2-**X**, **6**-XI, 14. b) 1300-**1600**-1900m. c) 54. d) Honshu.

1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	3	0	0	0	0	0	0	5
1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	12	8	16	2	2	0	0	48
1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	3	16	8	16	2	2	0	0	54

102) *Catops hidakai* JEANNEL

a) IX, 16-X, 31. b) 1100-**1600**m. c) 4. d) Honshu.

1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	4

103) *Catops japonensis* NAKANE*

a) XI, 1-XI, 8. b) 1300m. c) 2. d) Honshu

1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2

* *Catops japonensis* Nakane sp. nov. ··· This species belongs apparently to *alpinus* group of Jeannel. Type : ♂ Mt. Jônen, 1300 m alt. 8. XI. 1960, K. Kamimura leg. Yellowish or light brown, with hind half of head and median area of pronotum broadly blackish. Antennae brown, with first two joints and apical half of terminal joint somewhat paler. Upper surface clothed with yellowish recumbent hairs and the interspaces of punctures shining. Head gently convex, very closely and distinctly punctured. Antennae relatively slender, with 4th to 6th joint similar in length and longer than wide, 7th larger than the preceding and slightly longer than wide, 8th narrower than 7th or 9th, about half as long as 9th, which is nearly as long as

104) *Catops spinipennis* NAKANE**

a) XI, 8-XI, 14. b) 1300m. c) 2. d) Honshu

1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2

105) *Catopodes fuscifrons* KRAATZ

a) V, 20-**VI**, **16**-XI, 25. b) 700-**900**-2200m. c) 324. d) Honshu.

2200	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
1600	0	0	0	0	0	1	0	0	0	10	1	0	0	1	0	1	2	0	0	0	0	0	0	0	16
1300	0	0	0	3	0	0	0	0	0	4	0	0	0	0	0	1	1	2	2	5	0	0	0	0	18
1100	0	4	0	2	9	13	12	1	0	2	0	0	0	0	3	3	6	1	2	1	1	8	1	0	69
900	0	4	32	17	27	22	4	13	0	1	0	0	0	0	0	3	2	3	0	0	5	0	2	4	0	0	0	139
700	0	0	0	0	10	2	1	1	0	0	0	0	0	0	0	2	0	2	1	2	0	8	24	18	8	2	0	81
Total	0	8	32	22	46	38	17	15	0	17	1	0	0	2	3	10	11	8	5	8	6	16	27	22	8	2	0	324

LUCANIDAE (1 species, 1 ex.)

106) *Macrodorcas binervis* MOTSCHULSKY

a) VII, 15-VII, 21. b) 900m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu ; Korea, Formosa, Manchuria.

900	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

TROGIDAE (3 species, 124 ex.)

107) *Trox opacotuberculatus* MOTSCHULSKY

a) V, 13-**V**, **26**-VII, 15. b) **700**-1100m. c) 95. d) Hokkaido, Honshu, Kyushu : Formosa, Indo-China, India, Amur.

1100	0	0	6	4	3	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
900	0	12	6	6	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
700	2	12	10	4	5	2	1	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Total	2	24	22	14	9	3	2	13	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95

wide, 10th similar in shape to but very little smaller than 9th, 11th oval, acuminate to apex and distinctly longer than 10th. Pronotum transverse, widest behind middle, with sides arcuate, narrowed more markedly to apex than to base, hind angles obtuse but distinct and front ones rounded, disc slightly convex, less closely punctured than head and the punctures indistinctly asperate. Elytra oval, gently convex, somewhat depressed behind scutellum along suture, surface closely bearing distinct rasp-like punctures, somewhat transversely rugose and not striate except sutural stria and sutural apical angles obtusely rounded. Abdomen finely and closely asperate-punctate. Anterior tibiae weakly dilated to apex, with inner margin slightly sinuous in middle as in *C. subfuscus subrectipes* Jeannel. Front tarsi with basal joints slightly dilated and middle ones hardly dilated in basal joint. Penis narrow, very feebly dilated towards apex, where it is triangularly acuminate. Body length : 3.5 mm.

In the shape of the penis this species resembles *C. egenus* Horn from North America, but the intermediate joints of the antennae are longer and not transverse, and the front tibiae of the male are less strongly sinuous along inner margin.

** *Catops* ? *spinipennis* Nakane sp. nov. ··· Only one seriously damaged example was available for study. It lacks whole head and prothorax, abdomen, right elytron and five legs. Type : Mt. Jônen, 1300m alt., 15.XI.1950, K. Kamimura leg. (probably ♀) Left elytron yellowish brown, with lateral margin narrowly infuscate except on apical portion : length 2.6 mm, width 0.9 mm, widest before middle, with lateral margin weakly rounded and acuminate towards apex, which is shortly and triangularly projected and pointed ; surface moderately closely and finely granulate-punctate, and clothed with yellowish recumbent hairs, striae only traceable at a short distance before apex of elytron with exception of sutural stria, which is not deep but well-marked as in other species of *Catops*. Metasternum dusky brown, moderately closely and rather coarsely punctured on both sides and somewhat rugose, but the punctures finer and less closely set on median area. Metepisternum long but very narrow and acuminate to apex. Mesothorax yellowish brown, nearly impunctate, except for a few punctures on mesepimeron. Mesotibia weakly arcuate, bearing yellowish subrecumbent hairs and several obliquely standing brown setae. Mesotarsus slender and not thickened.

In the form of the elytral apex this species resembles *C. joffrei* Dev. from Europe, but the surface of elytra has no indication of grey opacity.

108) *Trox mutsuensis* NOMURA

a) VI, 10-**VIII**, **4**, b) **1100**-1600m. c) 26. d) Hokkaido, Honshu.

1600	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1300	0	0	0	0	1	2	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6
1100	0	0	0	0	1	1	2	3	2	1	1	8	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	0	0	0	0	2	4	2	4	2	1	1	10	0	0	0	0	0	0	0	0	0	0	0	0	26

109) *Trox mandli* BALTHASAR*

a) VI, 3-**VII**, **1**. b) **700**-900m. c) 3. d) Hokkaiido, Honshu ; East Siberia.

900	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
700	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

GEOTRUPIDAE (1 species, 176 exs.)

110) *Geotrupes laevistriatus* MOTSCHULSKY

a) V, 20-**VIII**, **25**-X, 17. b) 700-**900**-1900m. c) 176. d) Hokkaido, Honshu, Shikoku, Kyushu ; Sakhalin, Kuriles, Okinawa, Korea, Manchuria, East Siberia, China.

1900	0	0	0	0	0	0	0	0	3	2	0	4	5	0	0	1	1	1	0	1	0	0	0	0	0	0	18
1600	0	0	0	0	1	0	1	4	2	1	2	3	1	0	1	1	3	1	2	0	0	0	0	0	0	0	23
1300	0	0	0	4	0	0	2	1	2	0	2	2	1	0	5	0	0	0	0	0	0	0	0	0	0	0	19
1100	0	0	4	3	1	2	0	0	2	1	3	1	0	4	3	5	8	4	3	1	2	0	0	0	0	0	47
900	0	0	2	3	0	1	1	2	0	0	0	7	1	3	13	6	2	2	1	1	2	2	0	0	0	0	49
700	0	2	6	3	0	1	0	1	1	0	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0	0	20
Total	0	2	12	13	2	4	4	8	10	4	7	18	9	10	23	13	14	8	6	3	4	2	0	0	0	0	176

SCARABAEIDAE (7 species, 554 exs.)

111) *Panelus parvulus* WATERHOUSE

a) VII, 1-VII, 14. b) 900-1100m. c) 2. d) Honshu, Shikoku, Kyushu; Formosa.

1100	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
900	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

112) *Caccobius jessoensis* HAROLD

a) V, 20-**V**, **26**-IX,8. b) 900-**1300**m. c) 19. d) Hokkaido, Honshu, Shikoku.

1300	0	4	2	0	0	0	0	1	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	11
1100	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	4
900	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	4
Total	0	4	4	0	0	0	0	2	1	0	0	0	3	1	0	1	3	0	0	0	0	0	0	0	19

113) *Caccobius suzukii* MATSUMURA

a) V, 27-VI, 2., VIII, 12-**VIII**, **18**. b) 1300m. c) 4. d) Honshu.

1300	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4

* *Trox mandli* Balthasar, 1934 ··· This species was originally described from East Siberia, and Nakane (1963) recorded recently from Honshu and Hokkaido. Nakane and Tsukamoto (1955) described *T. nishijimai* from Hokkaido and Hoashu, but Mr. S. Nomura suggested so kindly to Nakane that *T. nishijimai* may be synonymous with one of the species described by Balthasar from East Siberia. Following Nomura's suggestion Nakane carefully examined the typespecimens of *T. nishijimai* and reached to the conclusion that *T. nishijimai* is probably a synonym of *T. mandli*.

114) *Onthophagus nitidus* WATERHOUSE

a) VI, 17-**VIII, 4**. b) 700-**900**-1100m. c) 9. d) Honshu, Shikoku. Kyushu; Okinawa, Formosa, Manchuria, China.

1100	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
900	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
700	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	0	0	0	0	2	1	2	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	9

115) *Onthophagus atripennis* WATERHOUSE

a) VII, 1-**VIII, 4**-X, 7. b) **700**-1100m. c) 221. d) Honshu, Shikoku, Kyushu ; Korea, Manchuria, China.

1100	0	0	0	0	0	0	0	6	1	0	2	30	0	0	0	0	0	0	0	0	0	0	0	0	39
900	0	0	0	0	0	0	0	6	6	2	11	12	5	3	0	0	1	0	0	1	0	0	0	0	47
700	0	0	0	0	0	0	0	10	0	0	5	37	35	5	18	20	1	1	2	0	1	0	0	0	135
Total	0	0	0	0	0	0	0	22	7	2	18	79	40	8	18	20	2	1	2	1	1	0	0	0	221

116) *Onthophagas ater* WATERHOUSE

a) V, 13-**VII, 21-IX, 15**-X, 17. b) **700**-1300m. c) 290. d) Hokkaido, Honshu, Shikoku, Kyushu ; Korea, Formosa, China, East Siberia,

1300	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1100	0	0	1	0	0	0	2	0	0	4	7	1	1	0	0	0	0	0	0	1	1	0	0	0	18
900	2	0	1	0	0	0	0	1	4	15	9	0	6	3	3	0	0	0	0	0	2	0	0	0	46
700	12	6	5	1	5	4	2	4	4	29	25	30	3	8	22	0	9	41	5	1	3	4	0	0	223
Total	14	6	9	1	5	4	4	5	8	49	41	31	10	11	25	0	9	41	5	2	6	4	0	0	290

117) *Onthophagas fodiens* WATERHOUSE

a) V, 27-**VI, 9**-VIII, 4., IX, 9-IX, 15. b) **700**-900m. c) 9. d) Honshu, Shikoku, Kyushu ; Korea, Manchuria, China.

900	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
700	0	0	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	7
Total	0	0	2	4	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	9

APHODIIDAE (6 species, 50 exs.)

118) *Trichaphodius eccoptus* BATES

a) VI, 3-VI, 30. b) 900m. c) 3. d) Honshu.

900	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

119) *Aphodius japonicus* NOMURA et NAKANE*

a) VII, 8-**VII, 21**. b) 1600-2200m. c) 3. d) Honshu.

2200	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1900	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1600	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

* As already stated in the previous papers, the vertical distribution of beetles shows generally a normal distribution and there is a tendency as the beetles in higher altitude are darker or smaller than those in lower altitude in certain species. In the examples of *Aphodius* (*Acrossus*) *japonicus* - group, however, individuals in lower altitude are 6.5～7.5 mm in length, whereas those in higher altitude range 8.5～10.0 mm in length. This fact may be contradictory to our knowledge, if we regard the subspecies as an indication of geographical variations. In general the seasonal variation of emergence within 300 m in altitude is not so remarkable in the same species. But in the present case the larger strain appeared in July, while the smaller was found continuously from the end of May to the end of July. We reexamined, therefore, these beetles precisely and confirmed that the two strains represent distinct species respectively. The larger species is *A. japonicus* as formerly believed and the smaller is *A. igai* Nakane, which was originally described as a subspecies of *A. japonicus*.

120) *Aphodius igai* NAKANE (new state)*

a) V, 27-**VI**, **2**-VII, 21., IX, 9-**IX**, **15**-IX, 29. b) 1300-**1600**-1900m. c) 22. d) Honshu, Shikoku, Kyushu.

1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	1	0	0	0	0	0	0	0	9
1600	0	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	9
1300	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	0	8	3	0	0	0	0	0	1	0	0	0	0	0	0	8	0	2	0	0	0	0	0	0	0	22

121) *Apodius aleutus ursinus* MOTSCHULSKY

a) VI, 24-**VII**, **14**-VIII, 18. b) 2500-**2800**m. c) 9. d) Honshu ; Kamchatka, East Siberia.

2800	0	0	0	0	0	0	2	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
2500	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	0	0	0	0	0	2	0	2	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	9

122) *Aphodius hasegawai* NOMURA et NAKANE**

a) V, 13-**V**, **26**-VII, 14. b) **1600**-2200m. c) 11. d) Honshu, Kyushu.

2200	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1900	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1600	2	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	2	4	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11

123) *Aphodius madara* NAKANE (new state)**

a) V, 20-V, 26. b) 1300m. c) 2. d) Honshu.

1300	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

MELOLONTHIDAE (6 species, 8 exs.)

124) *Maladera orientalis* MOTSCHULSKY

a) VII, 1-VII, 7. b) 1300m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu ; Sakhalin, Korea, Formosa, Manchuria, China, Mongolia, Celebes.

1300	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

125) *Maladera kamiyai* SAWADA

a) VII, 1-VII, 21. b) **700**m. c) 2. d) Honshu.

700	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

126) *Ophthalmoserica inexspectata* KONTKANEN

a) VII, 229-VIII, 4. b) 1900m. c) 2. d) Honshu, Shikoku.

1900	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2

127) *Paraserica grisea* MOTSCHULSKY

a) VII, 8-VII, 14. b) 1100m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu.

1100	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

** Alike to the case in *A. japonicus*, the examples of *A. hasegawai* in higher altitude are 4 mm long and larger than those in lower places (3.5 mm long). The revision reveals also that the smaller specimens differ specifically from the true *hasegawai* in lower altitude and belong to *A. madara* Nakane, which was also described as a subspecies of *hasegawai*. While *A. hasegawai akahane* Nakane was found together with the typical form in the same altitude and furthermore confounded with the latter in the seasonal emergence, and some intermediate individuals were obtained. The ratio of three forms, typical, intermediate and reddish, is 5 : 1 : 2 in number. As a result f. *akahane* Nakane may merely be a colour variety of *A. hasegawai*.

128) *Sericania kamiyai* SAWADA

a) VIII, 5-VIII, 11. b) 2500m. c) 1. d) Honshu.

2500	•	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1

129) *Sericania mimica* LEWIS

a) VII, 15-VII, 21. b) 700m. c) 1. d) Honshu.

1900		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CETONIIDAE (1 species, 1 ex.)

130) *Eucetonia pilifera* MOTSCHULSKY

a) VI, 17-VI, 23. b) 700m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu.

700		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

BYRRHIDAE (3 species, 4 exs.)

131) *Byrrhus shinanensis* NAKANE

a) VII, 8-VII, 14. b) 1900m. c) Honshu.

1600		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

132) *Simplocaria basistriata* NAKANE*

a) XI, 1-XI, 8. b) 1100m. c) 1. d) Honshu.

1100		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

* *Simplocaria basistriata* Nakane sp. nov. ··· Only one male specimen was obtained by the trap at Mt. Jônen. Holotype : ♂ Mt. Jônen, 1100 m alt., 8. XI. 1960, K. Kamimura leg.

Dark or blackish red-brown, with mandibles, palpi, antennae, abdomen and legs including coxae light red-brown, and upper surface bearing bronzy metallic lustre. Oval and strongly convex above, shining, with upper surface clothed with yellowish brown obliquely suberect hairs which are intermixed with white hairs sparingly. Head vertical, gently convex and sparsely finely but distinctly punctured. Antennae with 5 terminal joints dilated. Pronotum strongly transverse and convex, narrowed from base to apex, with sides only feebly arched and finely margined, hind angles rectangular and front ones acute, but front corner strongly depressed downwards, front margin weakly arched and margined on both sides, basal margin immarginate and only slightly sinuate near hind angles, disc sparsely and finely punctured. Scutellum rather small, triangular and nearly impunctate. Elytra convex, narrowed from basal fourth to apex, with sides rounded, sutural stria well impressed especially on posterior half but not reaching basal margin and interrupted at about basal fourth, 2nd to 5th striae very obsoletely indicated on basal portion, and lateral striae entirely absent, surface rather closely but weakly punctured. Elytral epipleura rather broad at base, but terminating at the level of 1st abdominal sternite. Metasternum finely weakly and not closely punctured at sides. Metepisternum elongate, subparallel-sided. Abdomen finely and closely punctured, but the punctuation sparse on both sides of basal two sternite, and the anal sternite rugose posteriorly. Under surface not closely clothed with yellowish recumbent hairs. Front tibiae slightly widened, front tarsi weakly dilated in basal three joints. Body length : 2.5 mm.

This species may be distinguishable from *S. bicolor* Pic in having nearly uniformly coloured upper surface of the body with metallic lustre on the elytra and sparse punctuation of the pronotum.

133) *Curimopsis japonica* NAKANE**

a) VI, 10-VI, 16., VIII, 12-VIII, 18. b) 1300., 2200m. c) 2. d) Honshu.

2200	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1300	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2

ELATERIDAE (9 species, 15 exs.)

134) *Agrypnus binodulus* MOTSCHULSKY

a) VI, 24-VI, 30. b) 1100m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu; Okinawa, Korea.

1100	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

135) *Liotrichus hypocrita* LEWIS

a) VIII, 12-VIII, 18. b) 2500m. c) 1. d) Honshu.

2500	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1

136) *Hypolithus motschulskyi* FLEUTIAUX

a) V, 20-V, 26. b) 1600m. c) 2. d) Honshu, Shikoku.

1600	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

137) *Cardiophorus subaeneus* FLEUTIAUX

a) VII, 8-VII, 14. b) 1100m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu; Korea.

1100	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1

138) *Melanotus legatus* CANDÈZE

a) VII, 22-**VII**, **28**-VIII, 18. b) **700m**. c) 3. d) Hokkaido, Honshu, Shikoku, Kyushu; Kuriles, Korea, China.

700	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	3

139) *Limonius niponensis* LEWIS?

a) VIII, 12-VIII, 18. b) 2500m. c) 1. d) Hokkaido, Honshu.

2500	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1

** *Curimopsis japonica* Nakane sp. nov.··· Two female example of a *Curimopsis*-species were enticed by the traps, of which one was lost its head and prothorax. Holotype : ♀ Mt. Jônen, 1300 m alt., 18. VIII. 1960, K. Kamimura leg. Paratype : ♀ Mt. Jônen, 2200 m alt., 17. VI. 1960, K. Kamimura. leg.

Blackish brown. Oval, strongly convex, moderately shining on the ground. Head vertical and closely fitted in frontal cavity of prothorax, very densely, strongly and somewhat transrugosely punctured, with a short longitudinal carina at middle of vertex. Pronotum strongly transverse, more than twice as wide as long, strongly narrowed from base to apex, with sides slightly arched and their margin curved downwards in front, front margin broadly rounded produced in middle, hind angles acute, disc closely bearing strong punctures, which are confluent transversely here and there except on median area of pronotal posterior half. Scutellum rather small, elongate triangular with acutely pointed apex. Elytra a fifth longer than wide, with sides subparallel in front and rounded convergent posteriorly and apex broadly rounded produced together. Each elytron with 10 striae, which are relatively shallow and finely punctate, lateral two striae a little deeper than others, intervals minutely and rugosely sculptured and feebly convex. Upper surface sparsely bearing erect scales, which are blackish and weakly dilated from base to apex, and very fine rounded subrecumbent scales, which are brown or white and indistinctly forming nebulous pattern. Under side closely and strongly punctured. Body length : 2.6 mm.

Probably the present species is nearly related to *C. paleata* Erichson, but the fine scales on the upper surface are rounded, the elytral apex is rounded produced, and the punctures on pronotum are transversely confluent here and there.

140) *Pseudathous secessus* CANDÈZE

a) VII, 8–VII, 14. b) 900m. c) 1. d) Honshu, Shikoku, Kyushu.

900	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

141) *Agriotes persimilis* LEWIS

a) VI, 24–VII, 21. b) 1900–2500m. c) 3. d) Hokkaido, Honshu; Sakhalin, Kuriles.

2500	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1900	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

142) *Dalopius exilis* KISHII

a) VII, 22–IX, 8. b) 1900m. c) 2. d) Hokkaido, Honshu.

1900	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2

EUCNEMIDAE (1 species, 1 ex.)

143) *Fornax victor* FLEUTIAUX

a) VIII, 5–VIII, 11. b) 1100m. c) 1. d) Honshu, Shikoku, Kyushu.

1100	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1

CANTHARIDAE (3 species, 6 exs.)

144) *Podabrus heydeni* KIESENWETTER

a) VI, 3–**VI, 16**. b) **700**m. c) 3. d) Honshu, Shikoku, Kyushu.

700	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

145) *Podabrus lictorius* LEWIS

a) VI, 10–VI, 16. b) 900m. c) 1. d) Honshu, Shikoku.

900	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

146) *Rhagonycha caroli* PIC

a) VII, 22–VII, 28. b) 2500m. c) 2. d) Hokkaido, Honshu; Sakhalin, Kuriles.

2500	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2

LYCIDAE (1 species, 1 ex.)

147) *Conderis orientis* GORHAM

a) VIII, 18–VIII, 25. b) 1600m. c) 1. d) Honshu.

1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1

DERMESTIDAE (1 species, 2 exs.)

148) *Dermestes tessellatocollis* MOTSCHULSKY

a) VII, 28–VIII, 11. b) **700**m. c) 2. d) Hokkaido, Honshu, Shikoku, Kyushu; East Siberia, North China.

700	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2

CUCUJIDAE (1 species, 1 ex.)

149) *Prostomis latoris* REITTER

a) VII, 15–VII, 21. b) 1900m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu.

1900	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

NITIDULIDAE (2 species, 3 exs.)

150) *Omosita discoidea* FABRICIUS

a) V, 27-VI, 2. b) 900m. c) 2. d) Hokkaido, Honshu, Shikoku, Kyushu ; Siberia, Europe.

900	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

151) *Librodor rufiventris* REITTER

a) VI, 2-VI, 9. b) 1300m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu; East Siberia

1300	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

ENDOMYCHIDAE (2 species, 17 exs.)

152) *Lycoperdina dux* GORHAM

a) X, 7-X, 17. b) 700m. c) 1. d) Hokkaido, Honshu.

700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

153) *Lycoperdina castaneipennis* GORHAM

a) IX, 23-**X**, **17**-X, 31. b) 900-**1100**-1300m. c) 16. d) Honshu, Kyushu.

1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	0	4
1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	8
900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9	6	0	0	0	0	16

TENEBRIONIDAE (4 species, 59 exs.)

154) *Gonocephalum japonum* MOTSCHULSKY

a) VI, 10-**VIII**, **4**-VIII, 25. b) 900-**1100**m. c) 48. d) Hokkaido, Honshu.

1100	0	0	0	0	2	0	7	0	1	4	12	14	5	0	0	0	0	0	0	0	0	0	0	0	45
900	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3
Total	0	0	0	0	2	0	7	0	1	5	13	14	5	0	1	0	0	0	0	0	0	0	0	0	48

155) *Uloma bonzica* MARSEUL

a) VIII, 19-VIII, 25. b) 700m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu.

700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1

156) *Misolampidius rugipennis* LEWIS

a) V, 27-**VI**, **16**-IX, 8. b) 900-**1300**m. c) 7. d) Honshu, Kyushu.

1300	0	0	2	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	5
1100	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
900	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	2	0	2	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	7

157) *Plesiophthalmus nigrocyaneus* MOTSCHULSKY

a) VII, 8-IX, 22. b) 900-**1100**m. c) 3. d) Hokkaido, Honshu, Shikoku, Kyushu ; Sakhalin.

1100	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2
900	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3

LAGRIIDAE (2 species, 2 exs.)

158) *Arthromacra viridissima* LEWIS

a) VI, 17-VI, 23. b) 1100m. c) 1. d) Honshu, Shikoku, Kyushu.

1100	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1

159) *Nemostira rufobrunnea* MARSEUL

a) VI, 3-VI, 9. b) 1300m. c) 1. d) Honshu, Shikoku, Kyushu.

1300	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

ALLECULIDAE (1 species, 1 ex.)

160) *Allecula simiola* LEWIS

a) VII, 15-VII, 21. b) 700m. c) 1. d) Honshu.

700	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1

PYROCHROIDAE (2 species, 5 exs.)

161) *Dendroides nakabusana* KÔNO

a) VII, 15-VII, 21. b) 1900m. c) 1. d) Honshu.

1900	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

162) *Pseudopyrochroa laticollis* LEWIS

a) V, 13-V, 26. b) **1300**m. c) 4. d) Honshu, Shikoku, Kyushu.

1300	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

MELANDRYIDAE (1 species, 1 ex.)

163) *Mikadonius gracilis* LEWIS

a) VII, 15-VII, 21. b) 1900m. c) 1. d) Honshu, Shikoku.

1900	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

MELOIDAE (3 species, 26 exs.)

164) *Meloe menoko* KÔNO

a) V, 13-VII, 7., X, 18-**XI**, **14**. b) 900-**1300**-1600m. c) 14. d) Hokkaido, Honshu.

1600	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1300	2	0	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
1100	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total	2	0	0	1	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	14

165) *Meloe violaceus semenowi* JAKOWLEW

a) VI, 10-VI, 16. b) 900m. c) 1. d) Hokkaido, Honshu; Sakhalin, East Siberia etc.

900	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

166) *Meloe coarctatus* MOTSCHULSKY

a) VI, 10-VI, 16., XI, 1-**XI**, **8**-XI, 14. b) 900-**1100**m. c) 11, d) Honshu, Shikoku, Kyushu.

1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	0	8
900	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3
Total	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	0	0	11

CERAMBYCIDAE (6 species, 8 exs.)

167) *Pseudalosterna misella* BATES

a) VII, 15-VII, 21. b) **1900**m. c) 3. d) Honshu, Shikoku, Kyushu; Korea, East Siberia.

1900	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

168) *Pidonia debilis* KRAATZ

a) VIII, 19–VIII, 25. b) 1600m. c) 1. d) Honshu, Shikoku, Kyushu ; Sakhalin, Korea, Formosa, Manchuria, East Siberia.

1600	0 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 0 0	0 0 0 0	0 0 0 0	1

169) *Pidonia puziloi* SOLSKY

a) VIII, 19–VIII, 25. b) 1600m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu ; Sakhalin, Korea, Manchuria, East Siberia.

1600	0 0 0	0 0 0 0	0 0 0 0	0 0 0 1	0 0 0 0	0 0 0 0	0 0 0 0	1

170) *Japanostrangalia dentatipennis* PIC

a) VII, 15–VII, 21. b) 900m. c) 1. d) Honshu, Shikoku, Kyushu.

900	0 0 0	0 0 0 0	0 0 1 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1

171) *Mesechthistatus furciferus meridionalis* HAYASHI

a) VI, 16–VI, 23. b) 1900m. c) 1. d) Honshu.

1900	0 0 0	0 0 1 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1

172) *Nupserha marginella sericans* BATES

a) VIII, 26–IX, 1. b) 1100m. c) 1. d) Hokkaido, Honshu.

1100	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	1

CHRYSOMELIDAE (7 species, 17 exs.)

173) *Lema cirsicola* CHÛJÔ

a) VII, 22–VII, 28. b) 900m. c) 1. d) Honshu, Shikoku, Kyushu.

900	0 0 0	0 0 0 0	0 0 0 1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1

174) *Linaeidea aenea* LINNÉ

a) VIII, 4–VIII, 11. b) 2800m. c) 2. d) Hokkaido, Honshu, Shikoku, Kyushu ; Sakhalin, Kuriles, Manchuria, Siberia, Europe.

2800	0 0 0	0 0 0 0	0 0 0 0	0 2 0 0	0 0 0 0	0 0 0 0	0 0 0 0	2

175) *Oomorphoides cupreatus* BALY

a) VIII, 4–VIII, 11. b) 1300m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu.

1300	0 0 0	0 0 0 0	0 0 0 0	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1

176) *Chrysolina aurichalcea* MANNERHEIM

a) XI, 1–XI, 29. b) 1100–**1300**m. c) 8. d) Hokkaido, Honshu, Shikoku, Kyushu ; Sakhalin, Korea, Formosa, China, Mongoria, East Siberia.

1300	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	2 0 2 2	6
1100	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	2 0 0 0	2
Total	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	4 0 2 2	8

177) *Galeruca dahli* JOANNIS

a) VIII, 4–IX, 29. b) **1100**m. c) 2. d) Honshu, Kyushu ; Korea, China, Siberia, Europe.

1100	0 0 0	0 0 0 0	0 0 0 0	0 1 0 0	0 0 0 0	1 0 0 0	0 0 0 0	2

178) *Stenoluperus nipponensis* LABOISSIÈRE

a) VII, 22–VII, 28. b) 900m. c) 1. d) Honshu, Shikoku, Kyushu ; Korea, China, Manchuria, East Siberia.

900	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

179) *Gallerucida bifasciatus* MOTSCHULSKY

a) VI, 17–VII, 15. b) **1300**m. c) 2. d) Hokkaido, Honshu.

1300	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

ANTHRIBIDAE (1 species, 2 exs.)

180) *Tropideres roelofsi* LEWIS

a) V, 27–VI, 2. b) 900m. c) 2. d) Honshu, Shikoku, Kyushu.

900	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

ATTELABIDAE (2 species, 2 exs.)

181) *Deporaus mannerheimi* HUMEL

a) VI, 24–VI, 30. b) 1900m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu; Siberia, Europe.

1900	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

182) *Euops splendida* Voss

a) VII, 15–VII, 21. b) 700m. c) 1. d) Honshu, Shikoku, Kyushu ; Siberia.

700	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

CURCULIONIDAE (22 species, 60 exs.)

183) *Phyllobius galloisi* HUSTACHE

a) VII, 27–VIII, 4. b) 1900m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu.

1900	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

184) *Phyllobius brevitarsis* KÔNO

a) VI, 10–VII, 14. b) **700**–900m. c) 3. d) Honshu, Shikoku, Kyushu.

900	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
700	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

185) *Asphalmus* sp.*

a) VI, 24–VI, 30. b) 900m. c) 1. d) Honshu.

900	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

186) *Trachyphloeosoma* sp.*

a) XI, 8–XI, 14. b) 1300m. c) 2. d) Honshu.

1300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2

187) *Myllocerus griseus* ROELOFS

a) V, 27–VII, 21. b) 900–**1100**m. c) 5. d) Hokkaido, Honshu, Shikoku, Kyushu.

1100	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
900	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	2	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

* Will be described by Dr. K. Morimoto in future.

** The elytra of the unique specimen obtained (♀) are somewhat narrower than those of the typespecimens from Mt. Komagatake.

188) *Trichalophus nutakkanus* Kôno

a) VII, 1-VIII, 4. b) 2500-**2800**m. c) 5. d) Hokkaido, Honshu.

2800	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	4
2500	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	2	0	2	0	1	0	0	0	0	0	0	0	5

189) *Byrsopages kiso* Nakane**

a) VII, 8-VII, 14. b) 2800m. c) 2. d) Honshu.

2800	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2

190) *Protacallinus uenoi* Morimoto

a) IX, 23-IX, 29. b) 1900m. c) 1. d) Honshu.

1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

191) *Shirahoshizo pini* Morimoto

a) VII, 1-VIII, 4. b) 900m. c) 4. d) Honshu, Kyushu.

900	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	4

192) *Rhadinomerus* sp.*

a) VII, 22-VII, 28. b) 1100m. c) 1. d) Honshu.

1100	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1

193) Gen. sp. (Cotasterini)*

a) VI, 3-VI, 9. b) 1100m. c) 1. d) Honshu.

1100	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

194) *Pissodes obscurus* Roelofs

a) VII, 8-VII, 14. b) 2500m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu.

2500	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1

195) *Hylobius abietis haroldi* Faust

a) V, 20-**V**, **27**-VIII,18. b) **700**-900m. c) 17. d) Honshu, Shikoku, Kyushu ; Korea, Siberia, Europe.

900	0	2	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	5
700	0	2	0	1	1	2	1	0	1	0	1	0	0	3	0	0	0	0	0	12
Total	0	4	0	1	1	2	1	0	1	1	2	1	0	3	0	0	0	0	0	17

196) *Hylobius laeviventris* Hustache

a) VI, 24-VI, 30. b) 1900m. c) 1. d) Honshu.

1900	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1

197) *Hylobius adachii* Kôno

a) VII, 1-VII, 7. b) 2800m. c) 2. d) Honshu.

2800	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2

198) *Hylobius* sp.

a) IX, 2-IX, 8. b) 1900m. c) 1. d) Honshu.

1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1

199) *Hylobius pinastri montivagus* NAKANE*

a) VII, 8-VII, 21. b) 2500m. c) 2. d) Hokkaido, Honshu ; Sakhalin, Siberia, Europe.

2500	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

200) *Metahylobius jonensis* NAKANE**

a) VI, 3-XI, 1. b) **1900**m. c) 4. d) Honshu.

1900	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4

201) *Okikuruminus roelofsi* HAROLD

a) VI, 17-VIII, 4. b) 1600, 2200m. c) 2. d) Hokkaido, Honshu.

2200	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1600	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

202) *Niphades variegatus* ROELOFS

a) V, 13-V, 19. b) 900m. c) 2. d) Hokkaido, Honshu, Shikoku, Kyushu ; East Siberia.

900	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

* *Hylobius pinastri montivagus* Nakane subsp. nov.··· Kôno (1934) described a subspecies, ***karafutonis***, of *H. pinastri* from Sachalin and Hokkaido. Two examples from Mt. Jônen (2500 m alt.) differs from Kôno's form in having smaller body size (7 mm), more clearly reddish colouration, relatively wider elytra (about a half longer than wide) with less parallel and a little more rounded sides, and more roughly punctured pronotum. Holotype : ♂, Mt. Jônen, 21.VII.1960, K. Kamimura leg. Allotype : ♀, Mt. Jônen, 14.VII.1960, K. Kamimura leg.

** *Metahylobius jonensis* Nakane gen. et sp. nov. ··· This Curculionid species of the subfamily Hylobiinae resembles *Okikuruminus oblongus* Hustache in shape and in general appearance and is lacking in the hind wings, but has no suberect setae on each side of the middle of the 1st abdominal sternite. Holotype : ♂, Mt. Jônen, 1900 m alt., 9. VI. 1960, K. Kamimura leg. Allotype : ♀, Mt. Jônen, 1900 m alt., 7. VII.1960, K. Kamimura leg. Paratype : ♀, Mt. Jônen, 1900 m alt., 4.VIII.1960, K. Kamimura leg.

Dark reddish brown to blackish brown, with antennae and tarsi clear reddish brown. Elytra reddish brown and variegated with black irregular patches. Body above rather sparsely bearing fine, more or less fusiform elongate scales, which are usually more numerous on the reddish areas of elytra and forming somewhat obscure, obliquely transverse bands on each side. Body beneath sparsely clothed with short scaly hairs, which are curved and recumbent, and the last abdominal sternite provided with a pair of brushes posteriorly, each of which consists of a few suberect setae. As stated above it is allied to *Okikuruminus oblongus*, but the rostrum is not 5-carinate above, the sculpture of the pronotum is finer with a more pronounced median carina, the 3rd intervals of elytra are scarcely costate and the scales on the upper surface are much smaller. Head densely punctured and weakly impressed between eyes, which are feebly convex and situated laterally, and the neck area more or less transversely rugose. Rostrum nearly as long as prothorax, very slightly curved downwards, densely and strongly punctured, the punctures fine and sparser at apical portion, and there are traces of longitudinal carinae but indistinct. Antennae with basal 2 funicular joints subequal in length. Pronotum about as long as wide, widest before middle, with sides gently arched, thickly and moderately coarsely punctured and not closely granulate, with a distinct median carina on anterior three-fourths. Scutellum minute, nearly as long as wide, triangular. Elytra oblong-ovate, coarsely and strongly seriate-punctate, each interval bearing an irregular row of granules and odd intervals weakly raised, spaces between seriate punctures often bearing a low granule, and apical portion acuminate-produced and each apex obtusely rounded. Femora moderately thickened, with an obtuse tooth beneath, which is followed by apical emargination. Tibiae with inner margin slightly biemarginate. Body length : 8～9 mm.

A female example (1900 m alt., 1. XI. 1960, K. Kamimura leg.) differs from the types in having uniformly dark reddish brown upper surface, shortly pointed apex of each elytron, longer rostrum and slenderer legs. I name this form subsp. ***autumnalis*** nov. temporarily.

203) *Hyposipalus gigas* FABRICIUS

a) IX, 23-IX, 29. b) 700m. c) 1. d) Hokkaido, Honshu, Shikoku, Kyushu; Korea, Siberia, China, Formosa, Philippines, Borneo, Java, New Guinea, Malaya, Burma, India, Ceylon.

700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

204) *Phloeophagosoma curvirostre* WOLLASTON

a) VII, 8-VII, 14. b) 1100m. c) 1. d) Honshu, Shikoku, Kyushu, Amami Oshima.

1100	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1

SCOLYTIDAE (1 species, 1 ex.)

205) *Dryocoetes hectographus* REITTER

a) VII, 15-VII, 21. b) 1900m. c) 1. d) Hokkaido, Honshu; Sakhalin, Siberia, Europe.

1900	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1

（本研究の一部は文部省科学研究費の援助による）