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SOME AQUATIC HETEROPTERA FROM THE TOKARA ISLANDS

by

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Aquatic Heteroptera of the Tokara Islands is very poor and little has been investigated on the fauna*. The following list contains some interesting species of aquatic bugs which were collected by Mr. M. Sato in his 1960 trip to the Tokara Islands.

Pleidae

Paraplea japonica (Horváth, 1904)

Plea japonica Horváth, 1904, Ann. Mus. Nat. Hung. **2**: 594.
Plea japonica: Esaki, 1915, Ent. Mag. Kyoto **1** (1): 28.
Plea japonica: Matsumura, 1915, ibid. **1** (3); 108.
Paraplea japonica: Esaki & China, 1928, Eos **4** (2): 166.
Paraplea japonica: Esaki, 1932, Iconogr. Ins. Jap.: 1693, f. 3364.
Paraplea japonica: Esaki, 1950, Iconogr. Ins. Jap. rev. ed.: 269, f. 709.

Loc.: 1♀, Nakanoshima, 13. vii. 1960, Sato leg.
Dist.: Honshu, Shikoku, Kyushu, Tokara Is. and Formosa.

Notonectidae

Anisops batillifrons Lundblad, 1933

Anisops batillifrons Lundblad, 1933, Ann. Mag. Nat. Hist. (10) **12**: 463, f. 8.
Anisops batillifrons: Wu, 1935, Cat. Ins. Sin. **2**: 576.
Anisops batilifrons: Brooks, 1951, U. Kansas Sc. Bull. **34** (1): 420, pl. 50, f. 71, pl. 56, f. 101.

* A preliminary list is found in "Tokara Kikô" by Miyamoto, 1953, Nymph **2**, Biol. Club, 2nd Br. Sch. Kyushu U.: 34—35 & 38—39.

Anisops butillifrons: Hasegawa, 1962, Nature and Life in SE Asia, Kyoto, **2**: 23.

Loc.: 4♀♀, Nakanoshima, vii, 1960, Sato leg.; one young nymph of presumably same species, Takarajima, 3. vii, 1960, Sato leg.

Dist.: Tokara Is. (new record), Okinawa, Iriomote I., Formosa, China Hainan, Philippines, Thailand, Burma, Assam and India.

Anisops sp.

Loc.: 1♀, Nakanoshima, 7. vii. 1960, Sato leg.

Corixidae

Sigara (*Tropocorixa*) *distorta* (Distant, 1910)

Corixa distorta Distant, 1910, Faun. Brit. Ind. Rhynch. **5**: 343, f. 205.
Corixa affinis Distant, nec Leach, 1910, ibid.: 341, f. 202.
Corixa verecunda Distant, 1910, ibid.: 344, f. 206.
Sigara fissa Lundblad, 1929, Ent. Meddel. **16**: 295, f. 18—23.
Sigara distorta: Hutchinson, 1933, Rec. Ind. Mus. Calcutta **35**: 403.
Sigara fissa: Hoffmann, Lingnan Sc. J. **12**, Suppl.: 257.
Sigara fissa: Wu, 1935, Cat. Ins. Sin. **2**: 590.
Corixa (*Tropocorixa*) *distorta*: Hutchinson, 1940, Tr. Conn. Acad. A. & Sc. New Haven **33**: 399, 400, 403, 416, 418, 427, 440–445, 461, pl. 24, f. 312–326, pl. 25, f. 342.
Sigara fissa: Stichel, 1956, Ver. Paläark. Hem.-Het. 1: 6.
Sigara (*Tropocorixa*) *distorta*: Jaczewski, 1962, Bull. Acad. Polon. Sc. 10 (1): 27.

Loc.: 1♂, 4♀♀, Nakanoshima, vii. 1960, Sato leg.

Dist.: Tokara Is. (new record), Formosa (Taihoku, 1♀, J. Sonan leg., new record), SE China, Viet-Nam, Nepal, India and Pakistan.

This species is readily distinguished from other species of *Sigara* by the characteristic structure of parameres. In a male specimen from Nakanoshima, the structure of parameres as well as other characters agree well with the illustrations made by Dr. O. Lundblad (1929). This Lundblad's *fissa* was recently synonymized with Distant's *distorta* by Dr. T. Jaczewski.

Sigara septemlineata (Paiva, 1918)

Corixa septemlineata Paiva, 1918, Rec. Ind. Mus. Calcutta **14**: 19, 30, pl. 8, f. 9.
Sigara esakii Lunblad, 1929, Ent. Meddel. **16**: 305, f. 29—33, pl. 4.
Sigara septem-lineata: Hutchinson, 1933, Rec. Ind. Mus. Calcutta **35**: 404, f. 11.

Sigara esakii Lundblad, 1935, Ark. Zool. **27** A (14): 5.
Sigara esakii: Jaczewski, 1939, Ann. Mus. Zool. Polon. **13** (23): 301.
Sigara esakii: Stichel, 1956, Ver. Paläark. Hem.-Het. **1**: 6.
Sigara esakii: Jaczewski, 1960, Ann. Zool. Warszawa **18**: 462, f.
Sigara esakii: Jaczewski, 1961, Bull. Acad. Polon. Sc. **9** (10): 435.
Sigara septemlineata: Jaczewski, 1962, Bull. Acad. Polon. Sc. **10** (1): 23, f. 1.

Loc.: 1♂, Takarajima, 3. vii. 1960, Sato leg.
Dist.: Honshu, Kyushu, Tokara Is. (new record), Korea, E Siberia, China, Formosa, Viet-Nam and Burma.

A male specimen from Takarajima is not quite the same with Japanese *esakii* determined by Dr. Jaczewski (1960) in the detailed structure of parameres and in the hemelytral pattern. But the structure of right paramere and the hemelytral pattern of the present specimen seem more agreeable with the figures by Dr. Lundblad (1929) than in those of Japanese *esakii*. According to Dr. Jaczewski (1962), some variations may be seen in the structure of parameres, abdominal strigil, the number of pegs on pala and in the colour pattern, and he considered *esakii* synonymous with *septemlineata*.

Sigara nigroventralis (Matsumura, 1905)

Corixa nigroventralis Matsumura, 1905, J. Sapporo Agr. Coll. **2** (6): 60, pl. 1, f. 11.
Corixa nigroventralis Matsumura, 1915, Ent. Mag. Kyoto **1** (3): 112, 117.
Callicorixa japonica Lundblad, 1928, Ent. Tidskr. **48** (4): 219, f. 1—4, pl. 4, f. 2.
Sigara nigroventralis: Hungerford, 1948, U. Kansas Sc. Bull. **32**: 458.
Sigara nigroventralis: Stichel, 1956, Ver. Paläark. Hem.-Het. **1**: 6.
Sigara japonica: Jaczewski, 1960, Ann. Zool. Warszawa **18** (25): 459.
Sigara nigroventralis: Jaczewski, 1960, ibid.: 459.
Sigara japonica: Jaczewski, 1961, Bull. Acad. Polon. Sc. **9** (10): 436.

Loc.: 1♂, 2♀♀, Nakanoshima, vii. 1960, Sato leg.
Dist.: Hokkaido, Honshu, Shikoku (new record), Kyushu and Tokara Is. (new record).

The author expresses his hearty thanks to Dr. T. Jaczewski who sent him an information of bibliographic data on some of the Corixidae.